

## High Resolution Monitor 2013

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### Food Authentication and Traceability Springer

Fully updated, with significant new coverage of advances in satellite oceanography and results from new satellite missions, the second edition of this popular textbook introduces students to how remote sensing works, how to understand observations from Earth-observing systems, and the observations' importance to physical and biological oceanography. It provides full explanations of radiative transfer, ocean surface properties, satellite orbits, instruments and methods, visible remote sensing of biogeochemical properties, infrared and microwave retrieval of sea surface temperature, sea surface salinity retrieval, passive microwave measurements, scatterometer wind retrieval, altimetry and SAR. Also included are descriptions of the online archives where data can be obtained, and readers can obtain online tools for working with the data - enabling hands-on engagement with real-world observations. This is an ideal textbook for graduate and advanced undergraduate students in oceanography, remote sensing and environmental science, and a practical resource for researchers and professionals working with oceanographic satellite data.

### The Electric Dipole Moment Challenge Academic Press

Dairy in Human Health and Disease across the Lifespan addresses the contribution of milk to the human diet and health throughout the life span. This comprehensive book is divided into three sections and presents a balanced overview of dairy's impact on nutrition from infancy to adulthood. Summaries capture the most salient points of each chapter, and the book provides coverage of dairy as a functional food in health and disease. Presents various dairy products and their impact on health specific to various stages in the lifespan Provides information to identify which food and diet constituents should be used as dietary supplements based on modification of health and nutrition Incorporates contributions from an international team of authors with varying areas of expertise related to dairy and nutrition

### Current Trends in Wildlife Research Frontiers Media SA

The presidency of Susilo Bambang Yudhoyono (2004-14) was a watershed in Indonesia's modern democratic history. Yudhoyono was not only the first Indonesian president to be directly elected, but also the first to be democratically re-elected. Coming to office after years of turbulent transition, he presided over a decade of remarkable political stability and steady economic growth. But other aspects of his rule have been the subject

of controversy. While supporters view his presidency as a period of democratic consolidation and success, critics view it as a decade of stagnation and missed opportunities. This book is the first comprehensive attempt to evaluate both the achievements and the shortcomings of the Yudhoyono presidency. With contributions from leading experts on Indonesia's politics, economy and society, it assesses the Yudhoyono record in fields ranging from economic development and human rights, to foreign policy, the environment and the security sector.

### Dairy in Human Health and Disease across the Lifespan Frontiers Media SA

Food Authenticity and Traceability covers the most recent trends and important topics in food authentication, with an emphasis on the components of a food traceability systems. The book discusses techniques such as omics-based technologies, chromatographic methods, mass spectrometry, hyperspectral and chemical imaging, molecular and DNA-based techniques, chemometrics and data mining algorithms, high-throughput sequencing, and non-targeted fingerprinting approaches and proteomics. Includes information on blockchain for food traceability analysis Discusses consumer preferences and perceptions regarding food traceability drivers and food fraud Presents approaches of authentication for food of animal origin and omics-based technologies Biophysical and Biochemical Characterization and Plant Species Studies Cengage Learning Applications of High Resolution Mass Spectrometry: Food Safety and Pesticide Residue Analysis is the first book to offer complete coverage of all aspects of high resolution mass spectrometry (HRMS) used for the analysis of pesticide residue in food. Aimed at researchers and graduate students in food safety, toxicology, and analytical chemistry, the book equips readers with foundational knowledge of HRMS, including established and state-of-the-art principles and analysis strategies. Additionally, it provides a roadmap for implementation, including discussions of the latest instrumentation and software available. Detailed coverage is given to the application of HRMS coupled to ultra high-performance liquid chromatography (UHPLC-HRMS) in the analysis of pesticide residue in fruits and vegetables and food from animal origin. The book also discusses extraction procedures and the challenges of sample preparation, gas chromatography coupled to high resolution mass spectrometry, flow injection-HRMS, ambient ionization, and identification of pesticide transformation products in food. Responding to the fast development and application of these new procedures, this book is an essential resource in the food safety field. Arms researchers with an in-depth resource devoted to the rapid advances in HRMS tools and strategies for pesticide residue analysis in food Provides a complete overview of analytical methodologies and applications of HRMS, including UHPLC-HRMS, HRMS coupled with time of flight (TOF) and/or GC-Orbitrap, and flow injection-HRMS Discusses the current international regulations and legislation related to the use of HRMS in pesticide residue analysis Features a chapter on the hardware and software available for HRMS implementation

Offers separate chapters on HRMS applied to pesticide residue analysis in fruits and vegetables and in food from animal origin

Conservation Drones Elsevier

Although life continues to become increasingly embedded with interactive computing services that make our lives easier, human-computer interaction (HCI) has not been given the attention it deserves in the education of software developers at the undergraduate level. Most entry-level HCI textbooks are structured around high-level concepts and are not directly tied to the software development process. Filling this need, *Human-Computer Interaction: Fundamentals and Practice* supplies an accessible introduction to the entire cycle of HCI design and implementation—explaining the core HCI concepts behind each step. Designed around the overall development cycle for an interactive software product, it starts off by covering the fundamentals behind HCI. The text then quickly goes into the application of this knowledge. It covers the forming of HCI requirements, modeling the interaction process, designing the interface, implementing the resulting design, and evaluating the implemented product. Although this textbook is suitable for undergraduate students of computer science and information technology, it is accessible enough to be understood by those with minimal programming knowledge. Supplying readers with a firm foundation in the main HCI principles, the book provides a working knowledge of HCI-oriented software development. The core content of this book is based on the introductory HCI course (advanced junior or senior-level undergraduate) that the author has been teaching at Korea University for the past eight years. The book includes access to PowerPoint lecture slides as well as source code for the example applications used throughout the text.

Agricultural Drones Academic Press

Increasing numbers of ecologists and conservation biologists have begun to explore the use of drone technology to obtain accurate and up-to-date data on the distribution and density of species, as well as the threats to their habitats, in their ongoing attempts to conserve and monitor biodiversity.

Conservation drones are low-cost, autonomous, and operator-friendly unmanned aerial vehicles that can be used for surveying, mapping, and monitoring both habitat and biodiversity. They are fast becoming a valuable complement to ground-based surveys and satellite imagery for a wide range of ecological and conservation applications. The authors pioneered the use of conservation drones for the purpose of monitoring orangutan populations in Southeast Asia. They subsequently founded ConservationDrones.org to share their knowledge of building and using drones with colleagues in the wider environmental community. This website has proved highly popular and this book aims to further build capacity to use drones and inspire others to adapt emerging technologies for practical conservation.

An Introduction to Ocean Remote Sensing CRC Press

This impressive collection of original essays explores the relationship between social conflict and the environment - a topic that has received little attention within criminology. The chapters provide a systematic and comprehensive introduction and overview of conflict situations stemming from human exploitation of environments, as well as the impact of social conflicts on the wellbeing and health of specific species and ecosystems. Largely informed by green criminology perspectives, the chapters in the book are intended to stimulate new understandings of the relationships between humans and nature through critical evaluation of environmental destruction and degradation associated with social conflicts occurring around the world.

With a goal of creating a typology of environment-social conflict relationships useful for green criminological research, this study is essential reading for scholars and academics in criminology, as well as those interested in crime, law and justice.

Control Engineering Cambridge University Press

With the discovery of planets beyond our solar system 25 years ago, exoplanet research has expanded dramatically, with new state-of-the-art ground-based and space-based missions dedicated to their discovery

and characterisation. With more than 3,500 exoplanets now known, the complexity of the discovery techniques, observations and physical characterisation have grown exponentially. This Handbook ties all these avenues of research together across a broad range of exoplanet science. Planet formation, exoplanet interiors and atmospheres, and habitability are discussed, providing in-depth coverage of our knowledge to date. Comprehensively updated from the first edition, it includes instrumental and observational developments, in-depth treatment of the new Kepler mission results and hot Jupiter atmospheric studies, and major updates on models of exoplanet formation. With extensive references to the research literature and appendices covering all individual exoplanet discoveries, it is a valuable reference to this exciting field for both incoming and established researchers.

Mountain, Water, Rock, God Elsevier Health Sciences

Recent advances in computational algorithms, along with the advent of whole slide imaging as a platform for embedding artificial intelligence (AI), are transforming pattern recognition and image interpretation for diagnosis and prognosis. Yet most pathologists have just a passing knowledge of data mining, machine learning, and AI, and little exposure to the vast potential of these powerful new tools for medicine in general and pathology in particular. In *Artificial Intelligence and Deep Learning in Pathology*, Dr. Stanley Cohen covers the nuts and bolts of all aspects of machine learning, up to and including AI, bringing familiarity and understanding to pathologists at all levels of experience. Focuses heavily on applications in medicine, especially pathology, making unfamiliar material accessible and avoiding complex mathematics whenever possible. Covers digital pathology as a platform for primary diagnosis and augmentation via deep learning, whole slide imaging for 2D and 3D analysis, and general principles of image analysis and deep learning. Discusses and explains recent accomplishments such as algorithms used to diagnose skin cancer from photographs, AI-based platforms developed to identify lesions of the retina, using computer vision to interpret electrocardiograms, identifying mitoses in cancer using learning algorithms vs. signal processing algorithms, and many more.

Land Resources Monitoring, Modeling, and Mapping with Remote Sensing Routledge

With urbanization as a global phenomenon, there is a need for data and information about these terrains. Urban remote sensing techniques provide critical physical input and intelligence for preparing base maps, formulating planning proposals, and monitoring implementations. Likewise these methodologies help with understanding the biophysical properties, patterns, and process of urban landscapes, as well as mapping and monitoring urban land cover and spatial extent. Advanced sensor technologies and image processing methodologies such as deep learning, data mining, etc., facilitate the wide applications of remote sensing technology in urban areas. This book presents advanced image processing methods and algorithms focused on three very important roots of urban remote sensing: 3D urban modelling using different remotely sensed data, urban orthophotomap generation, and urban feature extraction, which are also today's real challenges in high resolution remote sensing. Data generated by remote sensing, with its repetitive and synoptic viewing and multispectral capabilities, constitutes a powerful tool for mapping and monitoring emerging changes in the city's urban core, as well as in peripheral areas. Features: Provides advances in emerging methods and algorithms in image processing and technology Uses algorithms and methodologies for handling high-resolution imagery from a ground sampling distance (GSD) less than 1.0 meter Focuses on 3D urban modelling, orthorectification methodologies, and urban feature extraction algorithms from high-resolution remotely sensed imagery Demonstrates how to apply up-to-date techniques to the problems identified and how to analyze research results Presents methods and algorithms for monitoring, analyzing, and modeling urban growth, urban planning, and socio-economic developments In this book, readers are provided with valuable research studies and applications-oriented chapters in areas such as urban trees, soil moisture mapping, city

transportation, urban remote sensing big data, etc.

High-Throughput Field Phenotyping to Advance Precision Agriculture and Enhance Genetic Gain  
Springer

Environmental geologists use a wide range of geologic data to solve environmental problems and conflicts. Professionals and academics in this field need to know how to gather information on such diverse conditions as soil type, rock structure, and groundwater flow and then utilize it to understand geological site conditions. Field surveys, maps, well logs, bore holes, ground-penetrating radar, aerial photos, geologic literature, and more help to reveal potential natural hazards in an area or how to remediate contaminated sites. This new workbook presents accessible activities designed to highlight key concepts in environmental geology and give students an idea of what they need to know to join the workforce as an environmental geologist, engineering geologist, geological engineer, or geotechnical engineer. Exercises cover:

- Preparation, data collection, and data analysis
- Descriptive and engineering properties of earth materials
- Basic tools used in conjunction with geoenvironmental investigations
- Forces operating on earth materials within the earth
- Inanimate forces operating on earth materials at the surface of the earth
- Human activities operating on earth materials

Each activity encourages students to think critically and develop deeper knowledge of environmental geology.

Comprehensive Geographic Information Systems University of California Press

This, the second of two volumes on personalized medicine in lung cancer, touches upon the recent progress in targeted drug development based on genomics; emerging biomarkers and therapeutic targets such as EMT, cancer stem cells, and the tumor microenvironment; current personalized clinical management and radiation therapy for lung cancers; and the promise of epigenetics and next-generation sequencing for the advancements towards personalized therapy of lung cancer patients. With chapters on state-of-the-art therapies and technologies written by leading experts working to develop novel companion diagnosis tools for the personalized treatment of lung cancer patients, this volume brings readers up-to-date by presenting the current knowledge on the efforts to make personalized management of lung cancer patients a reality.

Remote Sensing Handbook - Three Volume Set Springer Nature

A free ebook version of this title is available through Luminos, University of California Press's Open Access publishing program. Visit [www.luminosoa.org](http://www.luminosoa.org) to learn more. In Mountain, Water, Rock, God, Luke Whitmore situates the disastrous flooding that fell on the Hindu Himalayan shrine of Kedarnath in 2013 within a broader religious and ecological context. Whitmore explores the longer story of this powerful realm of the Hindu god Shiva through a holistic theoretical perspective that integrates phenomenological and systems-based approaches to the study of religion, pilgrimage, place, and ecology. He argues that close attention to places of religious significance offers a model for thinking through connections between ritual, narrative, climate destabilization, tourism, development, and disaster, and he shows how these critical components of human life in the twenty-first century intersect in the human experience of place.

Principles of Radiographic Imaging (Book Only) Frontiers Media SA

This guide focuses on the answers to patient questions that are frequently posed to providers who care for patients with GI motility disorders. Additionally, the text guides clinicians through the complicated diagnostic and therapeutic/management approaches to motility disorders, including common and specialized tests, drug initiation, medications side effects, and disease complications. Written by experts in the field, *Gastrointestinal Motility Disorders: A Point of Care Clinical Guide* is a valuable reference for busy clinicians who need the best evidence-based answers to patient questions at their fingertips.

Urban High-Resolution Remote Sensing Elsevier

Instrumentation and automatic control systems.

Imaging and monitoring astrocytes in health and disease CRC Press

This book constitutes the refereed proceedings of the Second International Conference on Futuristic Trends in Network and Communication Technologies, FTNCT 2019, held in Chandigarh, India, in November 2019. The 49 revised full papers and 6 short papers presented were carefully reviewed and selected from 226 submissions. The prime aim of the conference is to invite researchers from different domains of network and communication technologies to a single platform to showcase their research ideas. The selected papers are organized in topical sections on network and computing technologies; wireless networks and Internet of Things (IoT); futuristic computing technologies; communication technologies, security and privacy.

Proceedings of the 2013 International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2013)-Volume I Elsevier

This book deals with the application of techniques and methods of chemical analysis for the study of biomass and its conversion processes, aiming to fill the current gap in the book literature on the subject. The use of various techniques and analytical methods is presented and discussed in a straightforward manner, providing the reader with the possibility of choosing the most appropriate methodologies for analysis of the major classes of plant biomass and its products. In the present volume, a select group of international specialists describes different approaches to understand the biomass structure, their physical and chemical properties, the parameters of conversion processes, the products and by-products formation and quantification, quality parameters, etc. Modern chemistry plays a strong economic role in industrial activities based on biomass, with an increasing trend of the importance of its application from the deployment of biorefineries and the principles of green chemistry, which make use of the potential of biomass with decreasing impact negative environmental. In this context, analytical chemistry can contribute significantly to the supply chains of biomass, be it plant or animal origin; however, with the first offering the greatest challenges and the greatest opportunity for technical, scientific and economic progress, given its diversified chemical constitution. Thus, the chemical analysis can be used to examine the composition for characterizing physicochemical properties and to monitor their conversion processes, in order to obtain better products and uses of biomass. The quality of the biomass used determines the product quality. Therefore, reliable information is required about the chemical composition of the biomass to establish the best use (e.g., most suitable conversion process and its conditions), which will influence harvest and preparation steps. Conversion processes should be monitored for their yield, integrity, safety, and environmental impact. Effluent or residues should be monitored and analyzed for environmental control. Co-products need to be monitored to avoid interference with the product yield and product purity; however, co-products are also a good opportunity to add value to the biomass chain. Finally, products need to be monitored and analyzed to determine their yields and purity and to ensure their quality. In this context, analytical chemistry can contribute significantly to the biomass supply chains, be it of plant or animal origin.

Environmental Crime and Social Conflict CRC Press

We live on a dynamic Earth shaped by both natural processes and the impacts of humans on their environment. It is in our collective interest to observe and understand our planet, and to predict future behavior to the extent possible, in order to effectively manage resources, successfully respond to threats from natural and human-induced environmental change, and capitalize on the opportunities that such knowledge can bring. By continuously monitoring and exploring Earth, developing a deep understanding of its evolving behavior, and characterizing the processes that shape and reshape the environment in which we live, we not only advance knowledge and basic discovery about our planet, but we further develop the foundation upon which benefits to society are built. *Thriving on Our Changing Planet* presents prioritized science, applications, and observations, along with

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related strategic and programmatic guidance, to support the U.S. civil space Earth observation program over the coming decade.

Analytical Techniques and Methods for Biomass CRC Press

Urban Remote Sensing The second edition of Urban Remote Sensing is a state-of-the-art review of the latest progress in the subject. The text examines how evolving innovations in remote sensing allow to deliver the critical information on cities in a timely and cost-effective way to support various urban management activities and the scientific research on urban morphology, socio-environmental dynamics, and sustainability. Chapters are written by leading scholars from a variety of disciplines including remote sensing, GIS, geography, urban planning, environmental science, and sustainability science, with case studies predominately drawn from North America and Europe. A review of the essential and emerging research areas in urban remote sensing including sensors, techniques, and applications, especially some critical issues that are shifting the directions in urban remote sensing research. Illustrated in full color throughout, including numerous relevant case studies and extensive discussions of important concepts and cutting-edge technologies to enable clearer understanding for non-technical audiences. Urban Remote Sensing, Second Edition will be of particular interest to upper-division undergraduate and graduate students, researchers and professionals working in the fields of remote sensing, geospatial information, and urban & environmental planning.