

High Resolution Monitor 2013

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Unmanned Aerial Vehicle Systems in Crop Production Morgan & Claypool Publishers
The electric dipole moment (EDM) challenge measures a non-zero proton EDM value and this book suggests how the challenge can be met. Any measurably large proton EDM would violate the standard model. The method to be employed uses an intense beam of 'frozen spin' protons circulating for hour-long times in a storage ring 'trap'. The smallness of EDMs allows them to test existing theories, but also makes them hard to measure. Such EDM experiments are inexpensive, at least compared to building accelerators of ever-greater energy.

An Introduction to Ocean Remote Sensing CRC Press
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.

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

Land Resources Monitoring, Modeling, and Mapping with Remote Sensing Cambridge University Press

Ready for a 4K resolution change? There has never been a 4K resolution Guide like this. It contains 99 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need—fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about 4K resolution. A quick look inside of some of the subjects covered: 4k display - Streaming video, Digital Cinema Initiatives - Image and audio capability overview, Silicon X-tal Reflective Display, Ultra high definition television - 2013, Thursday Night Football - Partnership with CBS, XQD card - Availability, REDCODE - Workflow, VP9 - Adoption, Display aspect ratio - 256:135, H.264 - Applications, Olympus Corporation - Medical and surgical, YouTube - Quality and codecs, 2160p, 4k display - Ultra HD, Motion picture film scanner, Ultra-high-definition television - 2013, YouTube

channel - Quality and codecs, Xbox One - Hardware, Titanic (1997 film) - 3D conversion, ProRes 4444, 16:9 - Common resolutions, H.264/MPEG-4 AVC - Applications, Uncompressed video - Video capture interface, High Efficiency Video Coding - Coding efficiency, U2 3D - Recognition and legacy, 8K resolution - Resolutions, 4K resolution, Dalsa Origin - Filmography and commercial projects, Sony - Medical-related business, List of 4K video recording devices, Ultra-high-definition television - Alternative terms, Thunderbolt (Intel) - Thunderbolt 2, Sony Xperia Z2, Zego, Blu-ray Disc - Ongoing development, Mobile High-Definition Link, After Earth - 4K screening, Digital Cinema Initiative - Image and audio capability overview, ATI CrossFire - Current generation (XDMA), The Amazing Adventures of Spider-Man - History, and much more... Informatics, Networking and Intelligent Computing Springer
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 â €" social, economic, security, and more â €" 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 related strategic and programmatic guidance, to support the U.S. civil space Earth observation program over the coming decade.

Comprehensive Biomaterials II Waveland Press

Clinical Applications for Next Generation Sequencing provides readers with an outstanding postgraduate resource to learn about the translational use of NGS in clinical environments. Rooted in both medical genetics and clinical medicine, the book fills the gap between state-of-the-art technology and evidence-based practice, providing an educational opportunity for users to advance patient care by transferring NGS to the needs of real-world patients. The book builds an interface between genetic laboratory staff and clinical health workers to not only improve communication, but also strengthen cooperation. Users will find valuable tactics they can use to build a systematic framework for understanding the role of NGS testing in both common and rare diseases and conditions, from prenatal care, like chromosomal abnormalities, up to advanced age problems like dementia. Fills the gap between state-of-the-art technology and evidence-based practice Provides an educational opportunity which advances patient care through the transfer of NGS to real-world patient assessment Promotes a practical tool that clinicians can apply directly to patient care Includes a systematic framework for understanding the role of NGS testing in many common and rare diseases Presents evidence regarding the important role of NGS in current diagnostic strategies

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

Geographical Information Systems, Three Volume Set is a computer system used to capture, store, analyze and display information related to positions on the Earth 's surface. It has the ability to show multiple types of information on multiple geographical locations in a single map, enabling users to assess patterns and relationships between different information points, a crucial component for multiple aspects of modern life and industry. This 3-volumes reference provides an up-to date account of this growing discipline through in-depth reviews authored by leading experts in the field. VOLUME EDITORS Thomas J. Cova The University of Utah, Salt Lake City, UT, United States Ming-Hsiang Tsou San Diego State University, San Diego, CA, United States Georg Bareth University of Cologne, Cologne, Germany Chunqiao Song University of California, Los Angeles, CA, United States Yan Song University of North Carolina at Chapel Hill, Chapel Hill, NC, United States Kai Cao National University of Singapore, Singapore Elisabete A. Silva University of Cambridge, Cambridge, United Kingdom Covers a rapidly expanding discipline, providing readers with a detailed overview of all aspects of geographic information systems, principles and applications Emphasizes the practical, socioeconomic applications of GIS Provides readers with a reliable, one-stop comprehensive guide, saving time in searching for the information they need from different sources

Liquid Crystal Displays Frontiers Media SA

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

Sustainable Agriculture Reviews 58 Springer Science & Business Media

A free ebook version of this title is available through Luminos, University of California Press 's Open Access publishing program. Visit 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.

4k Resolution 99 Success Secrets - 99 Most Asked Questions on 4k Resolution - What You Need to Know Emereo Publishing

A volume in the three-volume Remote Sensing Handbook series, Land Resources Monitoring, Modeling, and Mapping with Remote Sensing documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are Remotely Sensed Data Characterization, Classification, and Accuracies, and Remo

Localized Corrosion in Complex Environments John Wiley & Sons
Written by leading global experts, including pioneers in the field, the four-volume set on Hyperspectral Remote Sensing of Vegetation, Second Edition, reviews existing state-of-the-art knowledge, highlights advances made in different areas, and provides guidance for the appropriate use of hyperspectral data in the study and management of agricultural crops and natural vegetation. Hyperspectral remote sensing or imaging spectroscopy data has been increasingly used in studying and assessing the biophysical and biochemical properties of agricultural crops and natural vegetation. Volume III, Biophysical and Biochemical Characterization and Plant Species Studies demonstrates the methods that are developed and used to study terrestrial vegetation using hyperspectral data. This volume includes extensive discussions on hyperspectral data processing and how to implement data processing mechanisms for specific biophysical and biochemical applications such as crop yield modeling, crop biophysical and biochemical property characterization, and crop moisture assessments. The concluding chapter provides readers with useful guidance on the highlights and essence of Volume III through the editors ' perspective. Key Features of Volume III: Covers recent abilities to better quantify, model, and map plant biophysical, biochemical water, and structural properties. Demonstrates characteristic hyperspectral properties through plant diagnostics or throughput phenotyping of plant biophysical, biochemical, water, and structural properties. Establishes plant traits through hyperspectral imaging spectroscopy data as well as its integration with other data, such as LiDAR, using data from various platforms (ground-based, UAVs, and earth-observing satellites). Studies photosynthetic efficiency and plant health and stress through hyperspectral narrowband vegetation indices. Uses hyperspectral data to discriminate plant species and/or their types as well as their characteristics, such as growth stages. Compares studies of plant species of agriculture, forests, and other land use/land cover as established by hyperspectral narrowband data versus multispectral broadband data. Discusses complete solutions from methods to applications, inventory, and modeling considering various platform (e.g., earth-observing satellites, UAVs, handheld spectroradiometers) from where the data is gathered. Dwells on specific applications to detect and map invasive species by using hyperspectral data. Mountain, Water, Rock, God Frontiers Media SA

Digital mammography has many advantages over film-screen mammography, including faster acquisition, easier storage and easier retrieval of images. Written by expert radiologists and physicists, Digital Mammography: A Practical Approach compares digital mammography to conventional film-screen mammography, reviews clinical cases and explores newer modalities. Key topics include: • Digital detectors • Monitors • Image acquisition • Image storage, retrieval and transfer • Image interpretation and efficacy • Artifacts • A comparison of commercially available systems • Mobile digital mammography. An image atlas and sections on digital tomosynthesis and computed tomography of the breast enhance the text. Digital Mammography: A Practical Approach melds the worlds of clinical radiology and physics in an easy-to-understand, practical resource. A valuable addition to the shelf of radiologists, radiologic technicians, practising medical physicists and mammography technologists; and any practitioners developing and expanding digital mammography programs.

The Yudhoyono Presidency CRC Press

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.

Current Trends in Wildlife Research CRC Press

Astrocytes are key cellular partners to neurons in the brain. They play an important role in multiple processes such as neurotransmitter recycling, trophic support, antioxidant defense, ionic homeostasis, inflammatory modulation, neurovascular and neurometabolic coupling, neurogenesis, synapse formation and synaptic plasticity. In addition to their crucial involvement in normal brain physiology, it is well known that astrocytes adopt a reactive phenotype under most acute and chronic pathological conditions such as ischemia, trauma, brain cancer, epilepsy, demyelinating and neurodegenerative diseases. However, the functional impact of astrocyte reactivity is still unclear. During the last decades, the development of innovative approaches to study astrocytes has significantly improved our understanding of their prominent role in brain function and their contribution to disease states. In particular, new genetic tools, molecular probes, and imaging techniques that achieve high spatial and temporal resolution have revealed new insight into astrocyte functions in situ. This Research Topic provides a collection of cutting-edge techniques, approaches and models to study astrocytes in health and disease. It also suggests new directions to achieve discoveries on these fascinating cells.

Chilton's I & C S 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.

The Handbook of Medical Image Perception and Techniques Springer
LIQUID CRYSTAL DISPLAYS THE NEW EDITION OF THE GOLD-STANDARD IN TEACHING AND REFERENCING THE FUNDAMENTALS OF LCD TECHNOLOGIES This book presents an up-to-date view of modern LCD technology. Offering balanced coverage of all major aspects of the field, this comprehensive volume provides the theoretical and practical information required for the development and manufacture of high-performance, energy-efficient LCDs. The third edition incorporates new technologies and applications throughout. Several brand-new chapters discuss topics such as the application of Oxide TFTs and high mobility circuits, high-mobility TFT-semiconductors in LCD addressing, liquid crystal displays in automotive instrument clusters and touch-screen systems, and the use of ultra-high-resolution LCD panels in augmented reality (AR) and virtual reality (VR) displays. This practical reference and guide: Provides a complete account of commercially relevant LCD technologies, including their physics, mathematical descriptions, and electronic addressing Features extensively revised and expanded information, including more than 150 pages of new material Includes the addition of Oxide Transistors and their increased mobilities, the advances of fringe field switching and an overview of automotive displays Presents quantitative results with full equation sets, their derivation, and tabular summaries of related information sets

Digital Mammography Springer

This proceedings volume contains selected papers presented at the 2014 International Conference on Informatics, Networking and Intelligent Computing, held in Shenzhen, China. Contributions cover the latest developments and advances in the field of

Informatics, Networking and Intelligent Computing.

Environmental Geology Workbook University of California Press

With thousands of products and ever more complex technologies to choose from, this is a convenient guide for computer users and developers guide that takes the confusion out of high-resolution computer display systems. It provides a comprehensive overview of the major high-resolution display systems on the market today, with practical emphasis on choosing the right monitors, software drivers, and controller boards for specific needs.

The Electric Dipole Moment Challenge CRC Press

A classic now in its 14th edition, Communication Technology Update and Fundamentals is the single best resource for students and professionals looking to brush up on how these technologies have developed, grown, and converged, as well as what ' s in store for the future. It begins by developing the communication technology framework—the history, ecosystem, and structure—then delves into each type of technology, including everything from mass media, to computers and consumer electronics, to networking technologies. Each chapter is written by faculty and industry experts who provide snapshots of the state of each individual field, altogether providing a broad overview of the role communication technologies play in our everyday lives. Key features: Gives students and professionals the latest information in all areas of communication technology The companion website offers updated information and useful links to related industry resources, and an instructor site provides a sample syllabus and a test bank This edition features new chapters on automotive telematics, digital health, and telepresence, as well as expanded coverage of tablets/phablets and 4K (ultra high definition television)

Conservation Drones John Wiley & Sons

Instrumentation and automatic control systems.