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Smart Grid (R)Evolution
Handbook of Exoplanets
InfoWorld
The Trademark Register of the United States
Smart Grids
Principles of Frontal Lobe Function
Habitability of Other Planets and Satellites
Essentials of Computational Chemistry
Innovations in the European Economy Between the Wars
Exofrontiers
The Internet of Things
Energy Information Handbook
CAPS LOCK: How Capitalism Took Hold of Graphic Design, and How to Escape from It
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Smart Grid Systems
The Australian Official Journal of Trademarks
Electric Power Annual
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Major Chemical and Petrochemical Companies of Europe 1989/90 Springer Science & Business Media
Is the Earth the right model and the only universal key to understand habitability, the origin and maintenance of life? Are we able to detect life elsewhere in the universe by the existing techniques and by the upcoming space missions? This book tries to give answers by focusing on environmental properties, which are playing a major role in influencing planetary surfaces or the interior of planets and satellites. The book gives insights into the nature of planets or satellites and their potential to harbor life. Different scientific disciplines are searching for the clues to classify planetary bodies as a habitable object and what kind of instruments and what kind of space exploration missions are necessary to detect life. Results from model calculations, field studies and from laboratory studies in planetary simulation facilities will help to elucidate if some of the planets and satellites in our solar system as well as in extra-solar systems are potentially habitable for life.
New Mega Trends IGI Global
Essentials of Computational Chemistry provides a balanced introduction to this dynamic subject. Suitable for both experimentalists and theorists, a wide range of samples and applications are included drawn from all key areas. The book carefully leads the reader thorough the necessary equations providing information explanations and reasoning where necessary and firmly placing each equation in context.
Masterpieces of Swiss Entrepreneurship Springer
This book is a compendium of key scientific questions, challenges, and opportunities across different areas of exoplanetary science. The field is currently experiencing rapid growth, and the book provides a front-row view of the advancements at the cutting-edge of the field. Each chapter contains a short exposition on the most important open questions, challenges, and opportunities in a specific area from the perspective of one or more top experts in the area. It provides a starting point for researchers, experts and non-experts

alike, to obtain a quick overview of the forefront of exoplanetary science and a vision for the future of the field. Topics range from observational developments and techniques, including exoplanet detection and characterisation methods and state-of-the-art and future missions, to exoplanet theory and modelling including planet formation, planetary interiors, atmospheres, habitability and the search for life. Key Features Provides a close-up view of the frontiers of exoplanetary science research Summarises key questions, challenges, and opportunities across different areas of the field Written by leading experts in the field Provides a valuable reference for early career researchers Topics span from state-of-the-art and emerging areas to long-term future directions

The Directory of U.S. Trademarks Springer Science & Business Media

Electronic Money Flows describes the far-reaching present changes under way in payments and capital markets. Electronic payment forms are in the process of molding a new financial regime-largely shared and inter dependent-throughout the world. Our earlier Electronic Funds Transfers and Payments (Kluwer, 1987) looked at the new money technology in its initial phases of development and in broad focus. Then, as now, the contributors came from many different disciplines. The synthesis of their diverse views laid out the background for the electronic payments revolution to come, and the great benefits but also risks for segmented sectors of society. The old questions have not gone away; new ones have been added to the agenda. For example, what is the nature of money today amidst an array of computer-based options? What money and turnover concepts are appropriate to the electronic age? What are the effects of high-speed money flows on markets, volatility, money control, even the business cycle? Is the financial system more prone to instability but also to faster correction, given the swift movement of money and payments? At the same time, is privacy imperilled by the ubiquitous computer-linked webs that move both information and money? This second book is thus companion to Electronic Funds Transfers and Payments and expands upon it. Contributors discuss the expectations that have and have not come to fruition, together withthe new issuesofthe past four years.

Communication Infrastructures for Cloud Computing Earthscan

Cloud computing has provided multiple advantages as well as challenges to software and infrastructure services. In order to be fully beneficial, these challenges facing cloud specific communication protocols must be addressed. Communication Infrastructures for Cloud Computing presents the issues and research directions for a broad range of cloud computing aspects of software, computing, and storage systems. This book will highlight a broad range of topics in communication infrastructures for cloud computing that will benefit researchers, academics, and practitioners in the active fields of engineering, computer science, and software.

Data Analytics-Based Demand Profiling and Advanced Demand Side Management for Flexible Operation of Sustainable Power Networks Springer Nature

The term 'smart grid' has become a catch-all phrase to represent the potential benefits of a revamped and more sophisticated electricity system that can fulfil several societal expectations related to enhanced energy efficiency and sustainability. Smart grid promises to enable improved energy management by utilities and by consumers, to provide the ability to integrate higher levels of variable renewable energy into the electric grid, to support the development of microgrids, and to engage citizens in energy management. However, it also comes with potential pitfalls, such as increased cybersecurity vulnerabilities and privacy risks. Although discussions about smart grid have been dominated by technical and economic dimensions, this book takes a sociotechnical systems perspective to explore critical questions shaping energy system transitions. It will be invaluable for advanced students, academic researchers, and energy professionals in a wide range of disciplines, including energy studies, energy policy, environmental science, sustainability science and environmental engineering.

Data Network Engineering Springer Nature

Application of Smart Grid Technologies: Case Studies in Saving Electricity in Different Parts of the World provides a wide international view of smart grid technologies and their implementation in all regions of the globe. A brief overview of smart grid concepts and state-of-the art technologies is followed by sections that highlight smart grid experiences in Asia, Africa, North America, South America, Europe and Australasia. Chapters address select countries or sub-regions, presenting their local technological needs and specificities, status of smart grid implementation, technologies of choice, impacts on their electricity markets, and future trends. Similar chapter makes it easier to compare these experiences. In a time when the smart grid is becoming a worldwide reality, this book is ideal for professionals in power transmission and distribution companies, as well as students and researchers in the same field. It is also useful for those involved in energy management and policymaking. Presents the status and challenges of smart grid technologies and their implementation around the globe Includes global case studies written by local experts and organized for easy comparison Provides a brief overview of smart grid concepts and currently available technologies

Rich's High-tech Business Guide to Silicon Valley and Northern California CRC Press

The #1 menace for computer systems worldwide, network hacking can result in mysterious server crashes, data loss, and other problems that are not only costly to fix but difficult to recognize. Author John Chirillo knows how these can be prevented, and in this book he brings to the table the perspective of someone who has been invited to break into the networks of many Fortune 1000 companies in order to evaluate their security policies and conduct security audits. He gets inside every detail of the hacker's world, including how hackers exploit security holes in private and public networks and how network hacking tools work. As a huge value-add, the author is including the first release of a powerful software hack attack tool that can be configured to meet individual customer needs.

California Technology Register Elsevier

The courageous acts of whistleblowing that inspired the world over the past few years have changed our perception of surveillance and control in today's information society. But what are the wider effects of whistleblowing as an act of dissent on politics, society, and the arts? How does it contribute to new courses of action, digital tools, and contents? This urgent intervention based on the work of Berlin's Disruption Network Lab examines this growing phenomenon, offering interdisciplinary pathways to empower the public by investigating whistleblowing as a developing political practice that has the ability to provoke change from within.

Application of Smart Grid Technologies John Wiley & Sons

First Published in 1998. Routledge is an imprint of Taylor & Francis, an informa company.

Micromanufacturing and Nanotechnology Springer

This thesis deals with two important and very timely aspects of the future power system operation - assessment of demand flexibility and advanced demand side management (DSM) facilitating flexible and secure operation of the power network. It provides a clear and comprehensive literature review in these

two areas and states precisely the original contributions of the research. The book first demonstrates the benefits of data mining for a reliable assessment of demand flexibility and its composition even with very limited observability of the end-users. It then illustrates the importance of accurate load modelling for efficient application of DSM and considers different criteria in designing DSM programme to achieve several objectives of the network performance simultaneously. Finally, it demonstrates the importance of considering realistic assumptions when planning and estimating the success of DSM programs. The findings presented here have both scientific and practical significance; they gained her BSc and MSc degrees in electrical engineering from the University of Belgrade in 2011 and 2012 respectively. She graduated with her PhD from the University of Manchester. She has presented at several conferences, and has won runner-up prizes in poster presentation at three. She has authored or co-authored more than 40 journal, conference and technical papers.provide a basis for further research, and can be used to guide future applications in industry.

Start Talking CRC Press

This volume provides a comprehensive review of historical and current research on the function of the frontal lobes and frontal systems of the brain. The content spans frontal lobe functions from birth to old age, from biochemistry and anatomy to rehabilitation, and from normal to disrupted function. The book is intended to be a standard reference work on the frontal lobes for researchers, clinicians, and students in the field of neurology, neuroscience, psychiatry, psychology, and health care.

Optical Document Security Springer Science & Business Media

Capitalism could not exist without the coins, banknotes, documents, information graphics, interfaces, branding, and advertisements made by graphic designers. Even anti-consumerist strategies such as social design and speculative design are appropriated to serve economic growth. It seems design is locked in a cycle of exploitation and extraction, furthering inequality and environmental collapse. CAPS LOCK uses clear language and visual examples to show how graphic design and capitalism are inextricably linked. The book features designed objects and also examines how the study, work, and professional practice of designers support the market economy. Six radical design cooperatives are featured that resist capitalist thinking in their own way, hoping to inspire a more socially aware graphic design.

Electronic Money Flows Springer Science & Business Media

It is certain that, over the next few years, data traffic will dwarf voice traffic on telecommunications networks. Growth in data-traffic volumes far exceeds that for voice, and is driven by increased use of applications such as e-mail attachments, remote printing and fileserver access, and the now omnipresent World Wide Web. The growth of data networking to connect computers with each other and with their peripheral devices began in earnest in the 1970s, took off in the 1980s and exploded in the 1990s. The early 21st century will see ever faster, more cost effective networks providing flexible data access into ever more businesses and homes. Since the 1970s there have been great advances in technology. For the past twenty years the processing power of computers has continued to grow with no hint of slowing - recall the oft-cited Moore's Law claiming that this power doubles every 18 months. Advances in the data networking equipment required to support the data traffic generated have been enormous. The pace of development from early X. 25 and modem technology through to some of the advanced equipment functionality now available is breathtaking - it is sometimes hard to believe that the practical router is barely ten years old! This book provides an overview of the advanced data networking field by bringing together chapters on local area networks, wide area networks and their application.

Hack Attacks Revealed Academic Press

YOUR GUIDE TO A FULFILLING BUSINESS AND PERSONAL FUTURE Based on research by one of the world's largest growth-consulting companies, New Mega Trends identifies the ten most important global trends that will define our future, including business models, smart technology, connectivity and convergence and radical social trends. New Mega Trends will give you the tools to not only identify and evaluate these game-changing trends, but also help you to translate them into market opportunities for your everyday business and personal life. How will we travel to work in the cities of the future? Will Zero be the new big thing? How will we stay connected in the Mega Trends World? Will our Wellness and Well-Being top business agenda? If you are a leader with a corporate vision, or a strategic planner within your organization, or just plain curious about your future, New Mega Trends will provide you with stimulating stories, startling facts and thought-provoking case studies that will not only inform your future but entertain you today.

Principles of Public Utility Rates Linköping University Electronic Press

This book tells the story of a partnership between two universities that spent several years exploring productive ways to engage difficult dialogues in classroom and academic settings. It presents a model for a faculty development intensive, strategies for engaging controversial topics in the classroom, and reflections from thirty-five faculty and staff members who field-tested the techniques. It is intended as a conversation-starter and field manual for professors and teachers who want to strengthen their teaching and engage students more effectively in important conversations.

Government Contracts Directory Springer Science & Business Media

Now in its third edition, Optical Document Security has transformed from a compilation of related topics on the subject, to a comprehensive and cohesive treatment of all aspects of optical document security written by a leading expert with decades of experience. This completely revised and updated edition brings you to the cutting-edge of this field, with new coverage of paper-based security, printed security, security evaluation and features, and biometrics.

Post-Innovation Performance Oxford University Press

Documents of high value, such as passports, tickets and banknotes, facilitate means for authentication. Authentication processes aim at mitigating counterfeit “passable products”. The arsenal of “security features” in the business is abundant but an effective and reliable counterfeit mitigating system need an architectural approach rather than either relying on one feature only, or vaguely motivated aggregated security features. Optically variable device (OVD) is a concept in the industry, including costefficient and unique authentication functionality. OVD based features may serve as the main counterfeit mitigating functionality, as in banknotes. For higher value documents, such as passports, security architectural design may include multimodal (combined) features in which OVD is one characterizing and necessary aspect. Thereby a successful counterfeit need not only to simulate (“hack”) electronic based security features, such as radio frequency based identifier combined with public key infrastructure based cryptography (PKI) but also simulate OVD functionality. Combined feature authentication, based e.g. on PKI and OVD that relies on principally different physics and hence technology competences is of especial interest. Well-architectured and implemented, such multimodal counterfeit mitigating systems are effective to the

degree that producing passable products requiring more resources than potentially illegitimately gained by the counterfeiter. Irrespective of level of ambition and efforts spent on counterfeit mitigation, OVD remains critically important as a security concept. One feature of OVD is the possibility to include a human inspector in the authentication procedure. Including such “man-in-the-loop” reduces the risk of successful and unnoticed simulations of algorithms, such as PKI. One challenge of OVD is a lack of standards or even measurements characterizing the significant aspects influencing a human based inspection. This thesis introduces a system able to measure, characterize and visualize the significant aspects influencing a human based inspection of OVD features. The contribution includes the development of a multidimensional and high-dynamic range (HDR) color measurement system of spatial and angular resolution. The capturing of HDR images is particularly demanding for certain high contrast OVD features and require innovative algorithms to achieve the necessary high contrast sensitivity function of the imaging sensor. Representing the significant aspects influencing a human based inspection of OVD requires a considerable amount of data. The development of an appropriate information protocol is therefore of importance, to facilitate further analysis, data processing and visualization. The information protocol transforming the measurement data into characterizing information is a second significant achievement of the presented work in this thesis. To prove the applicability measurements, visualizations and statistically based analyses have been developed for a selection of previously unsolved problems, as defined by senior scientists and representatives of central banks. Characterization and measurements of the degree to which OVD deteriorate with circulation is one such problem. One particular benefit of the implemented suggested solution is the characterization and measurement aim at aspects influencing human based (“first line”) inspection. The principally difference in the problems treated indicates the generality of the system, which is a third significant project achievement. The system developed achieves the accuracy and precision including a resolution, dynamic range and contrast sensitivity function required for a technology independent standard protocol of “optical document security” OVDs. These abilities facilitate the definition and verification of program of requirements for the development of new security documents. Adding also the capability of interlinking first, second and third line inspection based characterizations may prove a particular valuable combination, which is a fourth significant project achievement. The information content (Entropy) of characterized OVDs and OVD production limitations in combination opens for OVD based novel applications of “physically unclonable functions” (PUF). This is of significance as it would generalize the established OVDs to facilitate multimodal verification, including PUF verification. The OVDs would thereby transform into a combined PUF first line inspection facilitating security feature.

Phosphorus in Environmental Technology John Wiley & Sons

This book is based on the authors’ research and microgrid projects since 2009, and is the most up-to-date resource on the development of microgrid technologies. In addition to basic facility and network design concepts, it covers related subjects including power supply programming and energy optimization, which means it can serve as a single volume reference to the complete microgrid system implementation. Provides a systematic introduction to the basic concepts, key technologies, and practical design methods of microgrids Covers the theoretical design and implementation of microgrid facilities, including practical operational issues, monitoring and control. The balance of theoretical and applied content will be of real value to engineers who are specifying and design systems in regions with limited experience of microgrid systems Includes real-life examples and projects to help implement the content effectively

Whistleblowing for Change John Wiley & Sons

What exactly is smart grid? Why is it receiving so much attention? What are utilities, vendors, and regulators doing about it? Answering these questions and more, Smart Grids: Infrastructure, Technology, and Solutions gives readers a clearer understanding of the drivers and infrastructure of one of the most talked-about topics in the electric utility market—smart grid. This book brings together the knowledge and views of a vast array of experts and leaders in their respective fields. Key Features Describes the impetus for change in the electric utility industry Discusses the business drivers, benefits, and market outlook of the smart grid initiative Examines the technical framework of enabling technologies and smart solutions Identifies the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort Presents both current technologies and forward-looking ideas on new technologies Discusses barriers and critical factors for a successful smart grid from a utility, regulatory, and consumer perspective Summarizes recent smart grid initiatives around the world Discusses the outlook of the drivers and technologies for the next-generation smart grid Smart grid is defined not in terms of what it is, but what it achieves and the benefits it brings to the utility, consumer, society, and environment. Exploring the current situation and future challenges, the book provides a global perspective on how the smart grid integrates twenty-first-century technology with the twentieth-century power grid. CRC Press Authors Speak Stuart Borlase speaks about his book. Watch the video