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KANE BRYLEE

Media Review Walter de Gruyter GmbH & Co KG
Gas Well Deliquification, Third Edition, expands upon previous experiences and applies today's more applicable options and technology. Updated to include more information on automation, nodal analysis, and horizontal gas well operations, this new edition provides engineers with key information in one central location. Multiple contributors from today's operators offer their own learned experiences, critical equipment, and rules of thumb for practicality. Covering the entire lifecycle of the well, this book will be an ideal reference for engineers who need to know the right solutions regarding a well's decline curve in their work to continuously optimize assets. Teaches users how to understand the latest methods of deliquifying gas wells, from nodal analysis, to various forms of artificial lift Provides an up-to-date reference on automation techniques for today's operations, including horizontal wells Presents various perspectives contributed from multiple sources, allowing readers to select the best method for a well's lifecycle

Directory of Companies Required to File Annual Reports with the Securities and Exchange Commission Under the Securities Exchange Act of 1934, Alphabetically and by Industry Groups ICCWS 2018 13th International Conference on Cyber Warfare and Security

This book constitutes the refereed proceedings of the 13 International Conference on Product-Focused Software Process Improvement, PROFES 2012, held in Madrid, Spain, in June 2012. The 21 revised full papers presented together with 3 short papers and 4 workshop and tutorial papers were carefully reviewed and selected from 49 submissions. The papers are organized in topical sections on process focused software process improvement, open-source agile and lean practices, product and process measurements and estimation, distributed and global software development, quality assessment, and empirical studies.

Design and Implementation John Wiley & Sons
Broadband Powerline Communications: Network Design covers the applications of broadband PLC systems in low-voltage supply networks, a promising candidate for the realization of cost effective solutions for "last mile" communications networks. There are many activities surrounding the development and application of PLC technology in the access area, particularly because of strong interest of new network providers after the deregulation of telecommunications market. Nowadays, there are no existing standards for broadband PLC networks, which use a frequency range up to 30 MHz. This book includes relevant and timely information regarding broadband PLC systems and especially PLC access networks and contributions to the design aspects of broadband PLC access systems and their network components. This book: Offers explanations on how broadband PLC networks are realized, what the important characteristics for

the transmission on electrical power grids are, and which implementation solutions have been recently considered for the realization of broadband PLC systems. Considers various system realizations, disturbance scenarios and their impact the transmission in PLC networks, electro-magnetic compatibility, applied modulation schemes, coding, and error handling methods. Pays particular attention to the specifics of the PLC MAC layer and its protocols, as well as the modelling and performance evaluation of broadband PLC networks.

Industrial Electronics Springer

**** Previous editions are cited in BCL3 and Sheehy. The present, much expanded edition reflects continued efforts in a careful surveying of the firms, locations, and products that comprise foreign direct investment in manufacturing, mining, and petroleum in the US. It presents librarians, management consultants, educators, business and government researchers, and interested laymen with compiled data on some 7,000 foreign-owned US companies and over 2,600 parent firms.

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Theory and Applications for Narrowband and Broadband Communications over Power Lines Springer Nature

A newly updated guide to the protection of power systems in the 21st century Power System Protection, 2nd Edition combines brand new information about the technological and business developments in the field of power system protection that have occurred since the last edition was published in 1998. The new edition includes updates on the effects of short circuits on: Power quality Multiple setting groups Quadrilateral distance relay characteristics Loadability It also includes comprehensive information about the impacts of business changes, including deregulation, disaggregation of power systems, dependability, and security issues. Power System Protection provides the analytical basis for design, application, and setting of power system protection equipment for today's engineer. Updates from protection engineers with distinct specializations contribute to a comprehensive work covering all aspects of the field. New regulations and new components included in modern power protection systems are discussed at length. Computer-based protection is covered in-depth, as is the impact of renewable energy systems connected to distribution and transmission systems.

Anglo American Trade Directory Greenwood Publishing Group
Introduction to Plant Automation and Controls addresses all aspects of modern central plant control systems, including instrumentation, control theory, plant systems, VFDs, PLCs, and supervisory systems. Design concepts and operational behavior of various plants are linked to their control philosophies in a manner that helps new or experienced engineers understand the process behind controls, installation, programming, and troubleshooting of automated systems. This groundbreaking book ties modern electronic-based automation and control systems to the special needs of plants and equipment. It applies practical plant operating experience, electronic-equipment design, and plant engineering to bring a unique approach to aspects of plant

controls including security, programming languages, and digital theory. The multidimensional content, supported with 500 illustrations, ties together all aspects of plant controls into a single-source reference of otherwise difficult-to-find information. The increasing complexity of plant control systems requires engineers who can relate plant operations and behaviors to their control requirements. This book is ideal for readers with limited electrical and electronic experience, particularly those looking for a multidisciplinary approach for obtaining a practical understanding of control systems related to the best operating practices of large or small plants. It is an invaluable resource for becoming an expert in this field or as a single-source reference for plant control systems. Author Raymond F. Gardner is a professor of engineering at the U.S. Merchant Marine Academy at Kings Point, New York, and has been a practicing engineer for more than 40 years.

Nanoimprint Biosensors Cambridge University Press

This book documents some of the most recent advances on the physical layer of the Internet of Things (IoT), including sensors, circuits, and systems. The application area selected for illustrating these advances is that of autonomous, wearable systems for real-time medical diagnosis. The book is unique in that it adopts a holistic view of such systems and includes not only the sensor and processing subsystems, but also the power, communication, and security subsystems. Particular attention is paid to the integration of these IoT subsystems as well as the prototyping platforms needed for achieving such integration. Other unique features include the discussion of energy-harvesting subsystems to achieve full energy autonomy and the consideration of hardware security as a requirement for the integrity of the IoT physical layer. One unifying thread of the various designs considered in this book is that they have all been fabricated and tested in an advanced, low-power CMOS process, namely GLOBALFOUNDRIES 65nm CMOS LPe.

Visible Light Communication John Wiley & Sons

This book starts with an overview and introduction on the trends in nanofabrication and nanoimprint technology, followed by a detailed discussion on the design, fabrication, and evaluation of nanoimprint biosensors. The proto-model systems and some application examples of this sensor are also included in the chapters. The book will appeal to anyone in the field of nanotechnology, especially nanofabrication, nanophotonics, and nanobiology, or biosensor research.

An Applied Guide to Water and Effluent Treatment Plant Design Plunkett Research, Ltd.

Balancing theoretical analysis and practical advice, this book describes all the underlying principles required to build high performance indoor optical wireless communication (OWC) systems based on visible and infrared light, alongside essential techniques for optimising systems by maximising throughput, reducing hardware complexity and measuring performance effectively. It provides a comprehensive analysis of information rate-, spectral- and power-efficiencies for single and multi-carrier transmission schemes, and a novel analysis of non-linear signal distortion, enabling the use of off-the-shelf LED technology. Other topics covered include cellular network throughput and coverage, static resource partitioning and dynamic interference-aware scheduling, realistic light propagation modelling, OFDM, optical MIMO transmission and nonlinearity modelling. Covering practical techniques for building indoor optical wireless cellular networks supporting multiple users and guidelines for 5G cellular system studies, in addition to physical layer issues, this is an indispensable resource for academic researchers, professional engineers and graduate students working in optical communications.

Product-Focused Software Process Improvement Springer

This book is centered on Smart grids and micro-grids, as a cost-effective method of ensuring fair and equitable access to power in urban areas. It also considers scenarios where deploying smart grids can be both cost-prohibitively expensive and logistically challenging. Deploying smart microgrids instead, offers a reliable power solution but, as is the case in smart grids, a key issue is guaranteeing usability, trust, and reliability while protecting against energy theft. This book considers aspects such as state estimation, capacity planning, demand forecasting, price signals, and demand management with respect to energy theft. Straight-forward approaches to provoking energy theft on smart grids and micro-grids include mis-recordings power consumption/generation information and exposures of personally identifiable information or sensitive information. Attack models based on mis-recorded generation and/or consumption data and exposure of personally identifiable information, are also studied. In each case, countermeasures are proposed to circumvent the power theft attacks raised. Researchers in Smart Micro-grids security, cyber-physical systems, and critical infrastructure will want to purchase this book as a reference. Professionals, Researchers, Academics and students working in security general and Security of Critical Infrastructure, Privacy, and Data Sharing will also want to purchase this book as a reference.

Introduction to Plant Automation and Controls nge solutions, inc
ICCWS 2018 13th International Conference on Cyber Warfare and Security Academic Conferences and publishing limited

Broadband Powerline Communications Butterworth-Heinemann
Optical Wireless Communications for Broadband Global Internet Connectivity: Fundamental and Potential Applications provides a comprehensive overview for readers who require information about the fundamental science behind optical wireless communications, as well as up-to-date advanced knowledge of the state-of-the-art technologies available today. The book is a useful resource for scientists, researchers, engineers and students interested in understanding optical, wireless communication systems for global channels. Readers will find beneficial knowledge on how related technologies of optical wireless communications can be integrated into achieving worldwide Internet connectivity. Presents an in-depth coverage of information on optical wireless communication in a single source Combines the fundamentals with the most recent advanced technology of achieving global Internet access and connectivity Provides derivations of the mathematical equations Includes between chapter sections where information and learning from one chapter is connected to other chapters

Technological Impacts and Challenges Elsevier

An Applied Guide to Water and Effluent Treatment Plant Design is ideal for chemical, civil and environmental engineering students, graduates, and early career water engineers as well as more experienced practitioners who are transferring into the water sector. It brings together the design of process, wastewater, clean water, industrial effluent and sludge treatment plants, looking at the different treatment objectives within each sub-sector, selection and design of physical, chemical and biological treatment processes, and the professional hydraulic design methodologies. This book will show you how to carry out the key steps in the process design of all kinds of water and effluent treatment plants. It provides an essential refresher on the relevant underlying principles of engineering science, fluid mechanics, water chemistry and biology, together with a thorough description of the heuristics and rules of thumb commonly used by experienced practitioners. The water treatment plant designer will also find specific advice on plant layout, aesthetics, economic considerations and related issues

such as odor control. The information contained in this book is usually provided on the job by mentors so it will remain a vital resource throughout your career. Explains how to design water and effluent treatment plants that really work Accessible introduction to, and overview of, the area that is written from a process engineering perspective Covers new treatment technologies and the whole process, from treatment plant design, to commissioning

Proceedings of International Conference on Artificial Intelligence, Smart Grid and Smart City Applications

Springer

Whether your search is limited to a single database or is as expansive as all of cyberspace, you won't find the intended results unless you use the words that work. Now in its second edition, Sara Knapp has updated and expanded this invaluable resource. Unlike any other thesaurus available, this popular guide offers a wealth of natural language options in a convenient, A-to-Z format. It's ideal for helping users find the appropriate word or words for computer searches in the humanities, social sciences, and business. The second edition has added more than 9,000 entries to the first edition's extensive list. Now, the Thesaurus contains almost 21,000 search entries! New or expanded areas include broader coverage of business terms and humanities-including arts literature, philosophy, religion, and music.

Directory of European Research and Development CRC Press

This book, suitable for IS/IT courses and self study, presents a comprehensive coverage of the technical as well as business/management aspects of mobile computing and wireless communications. Instead of one narrow topic, this classroom tested book covers the major building blocks (mobile applications, mobile computing platforms, wireless networks, architectures, security, and management) of mobile computing and wireless communications. Numerous real-life case studies and examples highlight the key points. The book starts with a discussion of m-business and m-government initiatives and examines mobile computing applications such as mobile messaging, m-commerce, M-CRM, M-portals, M-SCM, mobile agents, and sensor applications. The role of wireless Internet and Mobile IP is explained and the mobile computing platforms are analyzed with a discussion of wireless middleware, wireless gateways, mobile application servers, WAP, i-mode, J2ME, BREW, Mobile Internet Toolkit, and Mobile Web Services. The wireless networks are discussed at length with a review of wireless communication principles, wireless LANs with emphasis on 802.11 LANs, Bluetooth, wireless sensor networks, UWB (Ultra Wideband), cellular networks ranging from 1G to 5G, wireless local loops, FSO (Free Space Optics), satellites communications, and deep space networks. The book concludes with a review of the architectural, security, and management/support issues and their role in building, deploying and managing wireless systems in modern settings.

Plunkett's Wireless, Wi-Fi, RFID and Cellular Industry Almanac 2007 John Wiley & Sons

A practical guide to microgrid systems architecture, design topologies, control strategies and integration approaches Microgrid Planning and Design offers a detailed and authoritative guide to microgrid systems. The authors - noted experts on the topic - explore what is involved in the design of a microgrid, examine the process of mapping designs to accommodate available technologies and reveal how to determine the efficacy of the final outcome. This practical book is a compilation of collaborative research results drawn from a community of experts in 8 different universities over a 6-year period. Microgrid Planning and Design contains a review of microgrid benchmarks for the

electric power system and covers the mathematical modeling that can be used during the microgrid design processes. The authors include real-world case studies, validated benchmark systems and the components needed to plan and design an effective microgrid system. This important guide: Offers a practical and up-to-date book that examines leading edge technologies related to the smart grid Covers in detail all aspects of a microgrid from conception to completion Explores a modeling approach that combines power and communication systems Recommends modeling details that are appropriate for the type of study to be performed Defines typical system studies and requirements associated with the operation of the microgrid Written forgraduate students and professionals in the electrical engineering industry, Microgrid Planning and Design is a guide to smart microgrids that can help with their strategic energy objectives such as increasing reliability, efficiency, autonomy and reducing greenhouse gases.

Trademarks Elsevier

The field of visible light communication (VLC) has diverse applications to the end user including streaming audio, video, high-speed data browsing, voice over internet and online gaming. This comprehensive textbook discusses fundamental aspects, research activities and modulation techniques in the field of VLC. Visible Light Communication: A Comprehensive Theory and Applications with MATLAB® discusses topics including line of sight (LOS) propagation model, non-line of sight (NLOS) propagation model, carrier less amplitude and phase modulation, multiple-input-multiple-output (MIMO), non-linearities of optical sources, orthogonal frequency-division multiple access, non-orthogonal multiple access and single-carrier frequency-division multiple access in depth. Primarily written for senior undergraduate and graduate students in the field of electronics and communication engineering for courses on optical wireless communication and VLC, this book: Provides up-to-date literature in the field of VLC Presents MATLAB codes and simulations to help readers understand simulations Discusses applications of VLC in enabling vehicle to vehicle (V2V) communication Covers topics including radio frequency (RF) based wireless communications and VLC Presents modulation formats along with the derivations of probability of error expressions pertaining to different variants of optical OFDM

Applications, Networks, Platforms, Architectures, and Security CRC Press

Power Line Communications (PLC) is a promising emerging technology, which has attracted much attention due to the wide availability of power distribution lines. This book provides a thorough introduction to the use of power lines for communication purposes, ranging from channel characterization, communications on the physical layer and electromagnetic interference, through to protocols, networks, standards and up to systems and implementations. With contributions from many of the most prominent international PLC experts from academia and industry, Power Line Communications brings together a wealth of information on PLC specific topics that provide the reader with a broad coverage of the major developments within the field. Acts as a single source reference guide to PLC collating information that is widely dispersed in current literature, such as in research papers and standards. Covers both the state of the art, and ongoing research topics. Considers future developments and deployments of PLC

Jane's Electro-optic Systems Springer

Smart distribution networks are one of the key research topics of countries looking to modernise electric power networks. Smart Electricity Distributions Networks aims to provide a basic discussion of the smart distribution concept and new

technologies related to it, including distributed energy resources (DERs), demand side integration, microgrids, CELL and virtual power plants. With writing from leading contributors in the field of smart distribution networks, this volume discusses different concepts within the field as well as the best methods to analyse smart distribution systems to provide a cohesive overview of issues relating to Smart Grid and related technologies. This book will be valuable to those with an interest in understanding the

technologies and performance of smart distribution networks as well as engaging with the wider debate over the future Smart Grid.

Smart Electricity Distribution Networks Gulf Professional Publishing

Previously published as: Power line communications: theory and applications for narrowband and broadband communications over power lines, 2010.