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OBRIEN BECKER

Smart Buildings Systems for Architects, Owners and Builders CRC Press

In einem sogenannten Software-Radio werden die Modulations-Wellenformen nicht durch herkömmliche elektronische Schaltungen, sondern durch eine Software erzeugt. Die so generierten digitalen Signale werden durch einen Breitband-D/A-Wandler in das gewünschte analoge modulierte Signal überführt. Grundlagen und Anwendungen der Technologie erläutert der Autor dieses Bandes, gestützt auf jahrelange Erfahrungen als Seminarleiter. (11/00)

Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set John Wiley & Sons

There are a lot of e-business security concerns. Knowing about e-business security issues will likely help overcome them. Keep in mind, companies that have control over their e-business are likely to prosper most. In other words, setting up and maintaining a secure e-business is essential and important to business growth. This book covers state-of-the art practices in e-business security,

including privacy, trust, security of transactions, big data, cloud computing, social network, and distributed systems.

Popular Photography MDPI

The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate, transmit, measure, or detect light, and to a lesser degree, the basic interaction of light and matter. This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published, but also: Boasts a wealth of new material, expanding the encyclopedia's length by 25 percent Contains extensive updates, with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor, the Encyclopedia of Optical and Photonic Engineering, Second Edition offers a balanced and up-to-date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x-ray optics to photon entanglement and beyond. This edition's release corresponds nicely with the United Nations General Assembly's

declaration of 2015 as the International Year of Light, working in tandem to raise awareness about light's important role in the modern world. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

NASA Tech Briefs CRC Press

This book provides readers with detailed explanation of the design principles of CMOS integrated circuits for wireless medical and health care, from the perspective of two successfully-commercialized applications. Design techniques for both the circuit block level and the system level are discussed, based on real design examples. CMOS IC design techniques for the entire signal chain of wireless medical and health care systems are covered, including biomedical signal

acquisition, wireless transceivers, power management and SoC integration, with emphasis on ultra-low-power IC design techniques.

Popular Photography Springer Nature

Multimedia processing demands efficient programming in order to optimize functionality. Data, image, audio, and video processing, some or all of which are present in all electronic devices today, are complex programming environments. Optimized algorithms (step-by-step directions) are difficult to create but can make all the difference when developing a new application. This book discusses the most current algorithms available that will maximize your programming keeping in mind the memory and real-time constraints of the architecture with which you are working. A wide range of algorithms is covered detailing basic and advanced multimedia implementations, along with, cryptography, compression, and data error correction. The general implementation concepts can be integrated into many architectures that you find yourself working with on a specific project. Analog Devices' BlackFin technology is used for examples throughout the book. - Discusses how to decrease algorithm development times to streamline your programming - Covers all the latest algorithms needed for constrained systems - Includes case studies on WiMAX, GPS, and portable media players

The Telecommunications Illustrated Dictionary CRC Press

This book is the first literature collection focused on the development and implementation of unmanned aircraft systems (UAS) and their integration with sensors for atmospheric measurements on Earth. The research covered in the book combines chemical, physical, and meteorological measurements performed in field campaigns, as well as conceptual and laboratory work. Useful examples for the development of platforms and autonomous systems for environmental studies are provided, which demonstrate how careful the operation of sensors aboard UAS must be to gather information for remote sensing in the atmosphere. The work serves as a key collection of articles to introduce the topic to new researchers interested in the field, guide future studies, and motivate measurements to improve our understanding of the Earth's complex atmosphere.

Smart Grid Newnes

From fundamental physics concepts to the World Wide Web, the Telecommunications Illustrated Dictionary, Second Edition describes protocols, computer and telephone devices, basic security concepts, and Internet-related legislation, along with capsule biographies of the pioneering inventors who developed the technologies that changed our world. The new edition offers even more than the acclaimed and bestselling first edition, including: Thousands of new definitions and existing definitions updated and expanded Expanded coverage, from telegraph and radio technologies to modern wireline and mobile telephones, optical technologies, PDAs, and GPS-equipped devices More than 100 new charts and illustrations Expanded appendices with categorized RFC listings Categorized charts of ITU-T Series Recommendations that facilitate online lookups Hundreds of Web URLs and descriptions for major national and international standards and trade organizations Clear, comprehensive, and current, the Telecommunications Illustrated Dictionary, Second Edition is your key to understanding a rapidly evolving field that, perhaps more than any other, shapes the way we live.

Software Radio Architecture Butterworth-Heinemann

This text covers the key technologies employed in wireless links that enable increased data rates and thus are likely to be employed in support of 5G wireless transport networks, i.e., backhaul, midhaul, and fronthaul networks. The author presents technologies at an introductory level but

nonetheless at a level that imparts to the reader a sound understanding of the fundamentals. The book is intended for those practicing engineers and graduate and upper undergraduate students who have an interest in acquiring, where missing, the necessary technology background in order to comprehend the functioning and capability of 5G based wireless transport links. The author focuses on those technologies that are key to achieving the high data rates and high reliability required of this transport. The material is presented in a clear, concise, and mathematically light fashion. Covers key wireless transport (backhaul, midhaul, and fronthaul) technologies for 5G and beyond, presented in a clear tractable fashion; Outlines the basic wireless transport transmitter/receiver terminal architecture, provides specifications of some such terminals, and indicates the link performance afforded by such terminals; Provides sufficient mathematics to make it technically coherent, but not so much as to make it challenging for a reader with no or limited familiarity with these technologies.

Commerce Business Daily John Wiley & Sons

Smart Buildings Systems for Architects, Owners and Builders is a practical guide and resource for architects, builders, engineers, facility managers, developers, contractors, and design consultants. The book covers the costs and benefits of smart buildings, and the basic design foundations, technology systems, and management systems encompassed within a smart building. Unlike other resources, Smart Buildings is organized to provide an overview of each of the technology systems in a building, and to indicate where each of these systems is in their migration to and utilization of the standard underpinnings of a smart building. Written for any professional interested in designing or building smart Buildings systems, this book provides you with the fundamentals needed to select and utilize the most up to date technologies to serve your purpose. In this book, you'll find simple to follow illustrations and diagrams, detailed explanations of systems and how they work and their draw backs. Case studies are used to provide examples of systems and the common problems encountered during installation. Some simple Repair and Trouble shooting tips are also included. After reading this book, builders, architects and owners will have a solid understanding of how these systems work which of these system is right for their project. Concise and easy to understand, the book will also provide a common language for ensure understanding across the board. Thereby, eliminating confusion and creating a common understanding among professionals. - Ethernet, TCP/IP protocols, SQL databases, standard fiber optic - Data Networks and Voice Networks - Fire Alarm Systems, Access Control Systems and Video Surveillance Systems - Heating, Ventilating and Air Conditioning Systems and Electric Power Management Systems, Lighting Control Systems - Facility Management Systems

Popular Photography Springer

This book bridges the divide between the fields of power systems engineering and computer communication through the new field of power system information theory. Written by an expert with vast experience in the field, this book explores the smart grid from generation to consumption, both as it is planned today and how it will evolve tomorrow. The book focuses upon what differentiates the smart grid from the "traditional" power grid as it has been known for the last century. Furthermore, the author provides the reader with a fundamental understanding of both power systems and communication networking. It shows the complexity and operational requirements of the evolving power grid, the so-called "smart grid," to the communication networking engineer; and similarly, it shows the complexity and operational requirements for communications to the power systems engineer. The book is divided into three parts. Part One

discusses the basic operation of the electric power grid, covering fundamental knowledge that is assumed in Parts Two and Three. Part Two introduces communications and networking, which are critical enablers for the smart grid. It also considers how communication and networking will evolve as technology develops. This lays the foundation for Part Three, which utilizes communication within the power grid. Part Three draws heavily upon both the embedded intelligence within the power grid and current research, anticipating how and where computational intelligence will be implemented within the smart grid. Each part is divided into chapters and each chapter has a set of questions useful for exercising the readers' understanding of the material in that chapter. Key Features: Bridges the gap between power systems and communications experts Addresses the smart grid from generation to consumption, both as it is planned today and how it will likely evolve tomorrow Explores the smart grid from the perspective of traditional power systems as well as from communications Discusses power systems, communications, and machine learning that all define the smart grid It introduces the new field of power system information theory

Electronics Projects Vol. 22 (With CD) CRC Press

Beyond 2020, wireless communication systems will have to support more than 1,000 times the traffic volume of today's systems. This extremely high traffic load is a major issue faced by 5G designers and researchers. This challenge will be met by a combination of parallel techniques that will use more spectrum more flexibly, realize higher spectral efficiency, and densify cells. Novel techniques and paradigms must be developed to meet these goals. The book addresses diverse key-point issues of next-generation wireless communications systems and identifies promising solutions. The book's core is concentrated to techniques and methods belonging to what is generally called radio access network.

Video Surveillance Equipment Selection and Application Guide EFY Enterprises Pvt Ltd

ICT Innovations for Sustainability is an investigation of how information and communication technology can contribute to sustainable development. It presents clear definitions of sustainability, suggesting conceptual frameworks for the positive and negative effects of ICT on sustainable development. It reviews methods of assessing the direct and indirect impact of ICT systems on energy and materials demand, and examines the results of such assessments. In addition, it investigates ICT-based approaches to supporting sustainable patterns of production and consumption, analyzing them at various levels of abstraction - from end-user devices, Internet infrastructure, user behavior, and social practices to macro-economic indicators. Combining approaches from Computer Science, Information Systems, Human-Computer Interaction, Economics, and Environmental Sciences, the book presents a new, holistic perspective on ICT for Sustainability (ICT4S). It is an indispensable resource for anyone working in the area of ICT for Energy Efficiency, Life Cycle Assessment of ICT, Green IT, Green Information Systems, Environmental Informatics, Energy Informatics, Sustainable HCI, or Computational Sustainability. *The Directory of Video, Computer, and Audio-visual Products* Springer Science & Business Media

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