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# Data Communication Networks Techmax By Js Katre

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## **SHERLYN DRAVEN**

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System Design, Modeling, and Simulation Using Ptolemy II Artech  
House

Microgrid technology is an emerging area, and it has numerous advantages over the conventional power grid. A microgrid is defined as Distributed Energy Resources (DER) and interconnected loads with clearly defined electrical boundaries that act as a single controllable entity concerning the grid.

Microgrid technology enables the connection and disconnection of the system from the grid. That is, the microgrid can operate both in grid-connected and islanded modes of operation.

Microgrid technologies are an important part of the evolving landscape of energy and power systems. Many aspects of microgrids are discussed in this volume, including, in the early chapters of the book, the various types of energy storage systems, power and energy management for microgrids, power electronics interface for AC & DC microgrids, battery management systems for microgrid applications, power system analysis for microgrids, and many others. The middle section of

the book presents the power quality problems in microgrid systems and its mitigations, gives an overview of various power quality problems and its solutions, describes the PSO algorithm based UPQC controller for power quality enhancement, describes the power quality enhancement and grid support through a solar energy conversion system, presents the fuzzy logic-based power quality assessments, and covers various power quality indices. The final chapters in the book present the recent advancements in the microgrids, applications of Internet of Things (IoT) for microgrids, the application of artificial intelligent techniques, modeling of green energy smart meter for microgrids, communication networks for microgrids, and other aspects of microgrid technologies. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in the area of microgrids, this is a must-have for any library.

Computer and Communication Networks John Wiley & Sons  
Pulse Code Modulation Techniques brings together the theory and practice of PCM at the physical layer, where the "bits meet the silicon", so to speak. The key topics of symbol encoding, detection and synchronization are discussed, in detail, both from a theoretical and a practical standpoint. Topics which have been largely absent in text books, such as multiplexing, formatting and format synchronization, are also considered. Although PCM evolved as a communication technology, it has become an important technology in data recording. In a sense, magnetic or optical media are just specialized communication media and the key technologies discussed in this book are just as important to recording applications as to communications. PCM codes used for

magnetic recording applications are discussed along with traditional communication codes. The design, analysis and implementation of a PCM system requires knowledge of very specific techniques associated with detection, synchronization and coding. The techniques have evolved from both ad hoc methods and complex theory. One of the goals of this book is to bridge the gap between theory and practice in the key techniques. Matched filters are not only discussed theoretically, but means for implementing them are also considered. The same is true with symbol synchronization.

Computer and Network Security Essentials Firewall Media  
Internet of Things: Technologies and Applications for a New Age of Intelligence outlines the background and overall vision for the Internet of Things (IoT) and Cyber-Physical Systems (CPS), as well as associated emerging technologies. Key technologies are described including device communication and interactions, connectivity of devices to cloud-based infrastructures, distributed and edge computing, data collection, and methods to derive information and knowledge from connected devices and systems using artificial intelligence and machine learning. Also included are system architectures and ways to integrate these with enterprise architectures, and considerations on potential business impacts and regulatory requirements. Presents a comprehensive overview of the end-to-end system requirements for successful IoT solutions Provides a robust framework for analyzing the technology and market requirements for a broad variety of IoT solutions Covers in-depth security solutions for IoT systems Includes a detailed set of use cases that give examples of real-world implementation

*Software-Defined Radio for Engineers* Springer

Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

*Data Communications and Networking* Lee & Seshia

*Network Management: Principles And Practice* is a reference book that comprehensively covers various theoretical and practical concepts of network management. It is divided into four units. The first unit gives an overview of network management. The *For Computer Scientists and Engineers* Pearson Education  
The book is a compilation of high-quality scientific papers

presented at the 3rd International Conference on Computer & Communication Technologies (IC3T 2016). The individual papers address cutting-edge technologies and applications of soft computing, artificial intelligence and communication. In addition, a variety of further topics are discussed, which include data mining, machine intelligence, fuzzy computing, sensor networks, signal and image processing, human-computer interaction, web intelligence, etc. As such, it offers readers a valuable and unique resource.

*Security in Computing* DATA COMMUNICATION AND COMPUTER NETWORKS

*A Coherent Systems View of Wireless and Cellular Network Design and Implementation* Written for senior-level undergraduates, first-year graduate students, and junior technical professionals, *Introduction to Wireless Systems* offers a coherent systems view of the crucial lower layers of today's cellular systems. The authors introduce today's most important propagation issues, modulation techniques, and access schemes, illuminating theory with real-world examples from modern cellular systems. They demonstrate how elements within today's wireless systems interrelate, clarify the trade-offs associated with delivering high-quality service at acceptable cost, and demonstrate how systems are designed and implemented by teams of complementary specialists. Coverage includes  
Understanding the challenge of moving information wirelessly between two points Explaining how system and subsystem designers work together to analyze, plan, and implement optimized wireless systems Designing for quality reception: using the free-space range equation, and accounting for thermal noise

Understanding terrestrial channels and their impairments, including shadowing and multipath reception Reusing frequencies to provide service over wide areas to large subscriber bases Using modulation: frequency efficiency, power efficiency, BER, bandwidth, adjacent-channel interference, and spread-spectrum modulation Implementing multiple access methods, including FDMA, TDMA, and CDMA Designing systems for today's most common forms of traffic—both “bursty” and “streaming” Maximizing capacity via linear predictive coding and other speech compression techniques Setting up connections that support reliable communication among users Introduction to Wireless Systems brings together the theoretical and practical knowledge readers need to participate effectively in the planning, design, or implementation of virtually any wireless system.

*Information Technology and Mobile Communication* River Publishers

Information technology is ever-changing, and that means that those who are working, or planning to work, in the field of IT management must always be learning. In the new edition of the acclaimed *Information Technology for Management*, the latest developments in the real world of IT management are covered in detail thanks to the input of IT managers and practitioners from top companies and organizations from around the world. Focusing on both the underlying technological developments in the field and the important business drivers performance, growth and sustainability—the text will help students explore and understand the vital importance of IT's role vis-a-vis the three components of business performance improvement: people, processes, and technology. The book also features a blended

learning approach that employs content that is presented visually, textually, and interactively to enable students with different learning styles to easily understand and retain information. Coverage of next technologies is up to date, including cutting-edged technologies, and case studies help to reinforce material in a way that few texts can.

**New York Stock Exchange, American Stock Exchange, Nasdaq Stock Market and regional exchanges** McGraw-Hill College

Microgrids offers a complete discussion and details about microgrids and their applications, including modeling of AC/DC and hybrid grids in a tied mode with simulation for the solar systems, wind turbines, biomass and fuel cells, and deployment issues. The data communications and control mechanism implementations are analyzed for proper coordination of the AC/DC microgrid. The various real-time applications and future development of the microgrid are also discussed in this book, with MATLAB®-based simulations and results. This book: Discusses the fundamentals of microgrids, the components of microgrids, the modeling of renewable energy sources, and the implementation of microgrids. Explores AC and DC microgrid modeling with real-time examples. Examines the effective extraction of energy from renewable energy sources. Covers analysis of data communications and control-mechanism implementations. Includes HOMER/MATLAB®-based simulations and results on microgrids. This book would be a welcome addition to the libraries of researchers, senior undergraduate students, and graduate students in power and electrical engineering, especially those working with smart and microgrids.

**Computer Networks** John Wiley & Sons

Publisher Description

*Information Technology for Management* Springer Science & Business Media

The first edition of Satellite Communications Systems Engineering (Wiley 2008) was written for those concerned with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite based applications. This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies developed since the publication of the first edition. The book is based on graduate level satellite communications course material and has served as the primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas. Introductory to advanced engineering level students in electrical, communications and wireless network courses, and electrical engineers, communications engineers, systems engineers, and wireless network engineers looking for a refresher will find this essential text invaluable.

Internet of Things CRC Press

The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser's approach to this classic topic is based on the object-oriented paradigm as the framework of choice for the design of data structures. For each ADT presented in the text, the authors provide an associated Java interface. Concrete data structures realizing the ADTs are

provided as Java classes implementing the interfaces. The Java code implementing fundamental data structures in this book is organized in a single Java package, net.datastructures. This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework.

Data Communications and Computer Networks John Wiley & Sons  
DATA COMMUNICATION AND COMPUTER NETWORKSPHI Learning Pvt. Ltd.

*Advanced Wireless Communications and Internet* McGraw-Hill Science, Engineering & Mathematics

The first four chapters of the text describe different types of signals, modulation and demodulation of these signals, various transmission channels and noise encountered by the signals during propagation from sender to receiver end. Apart from this, this part of the book also deals with different forms of line communication systems. A brief introduction of information theory is also given at the end of the text so that the students become familiar with this aspect of communication systems.

Internet of Things Elsevier

Online Social Networks: Human Cognitive Constraints in Facebook and Twitter provides new insights into the structural properties of personal online social networks and the mechanisms underpinning human online social behavior. As the availability of digital communication data generated by social media is revolutionizing the field of social networks analysis, the text discusses the use of large-scale datasets to study the structural properties of online ego networks, to compare them with the

properties of general human social networks, and to highlight additional properties. Users will find the data collected and conclusions drawn useful during design or research service initiatives that involve online and mobile social network environments. Provides an analysis of the structural properties of ego networks in online social networks Presents quantitative evidence of the Dunbar's number in online environments Discusses original structural and dynamic properties of human social network through OSN analysis

**Official Gazette of the United States Patent and Trademark Office** PHI Learning Pvt. Ltd.

The book begins with an overview of automation history and followed by chapters on PLC, DCS, and SCADA –describing how such technologies have become synonymous in process instrumentation and control. The book then introduces the niche of Fieldbuses in process industries. It then goes on to discuss wireless communication in the automation sector and its applications in the industrial arena. The book also discusses the all-pervading IoT and its industrial cousin, IIoT, which is finding increasing applications in process automation and control domain. The last chapter introduces OPC technology which has strongly emerged as a defacto standard for interoperable data exchange between multi-vendor software applications and bridges the divide between heterogeneous automation worlds in a very effective way. Key features: Presents an overall industrial automation scenario as it evolved over the years Discusses the already established PLC, DCS, and SCADA in a thorough and lucid manner and their recent advancements Provides an insight into today's industrial automation field Reviews Fieldbus

communication and WSNs in the context of industrial communication Explores IIoT in process automation and control fields Introduces OPC which has already carved out a niche among industrial communication technologies with its seamless connectivity in a heterogeneous automation world Dr. Chanchal Dey is Associate Professor in the Department of Applied Physics, Instrumentation Engineering Section, University of Calcutta. He is a reviewer of IEEE, Elsevier, Springer, Acta Press, Sage, and Taylor & Francis Publishers. He has more than 80 papers in international journals and conference publications. His research interests include intelligent process control using conventional, fuzzy, and neuro-fuzzy techniques. Dr. Sunit Kumar Sen is an ex-professor, Department of Applied Physics, Instrumentation Engineering Section, University of Calcutta. He was a coordinator of two projects sponsored by AICTE and UGC, Government of India. He has published around 70 papers in international and national journals and conferences and has published three books – the last one was published by CRC Press in 2014. He is a reviewer of Measurement, Elsevier. His field of interest is new designs of ADCs and DACs.

*Standard & Poor's Stock Reports* Springer Science & Business Media

This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information

Technology, Computer and Mobile Communication Technology and related topics.

Introduction to Satellite Communication CRC Press

Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: \* Examples illustrate how concepts are applied to the development and application of \* wireless sensor networks \* Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems \* Chapter conclusions that serve as an excellent review by stressing the chapter's key

concepts \* References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

**Principles of Communication Engineering** McGraw-Hill Higher Education

The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networks. "Cohow parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success."

**Converging Technologies for Smart Environments and Integrated Ecosystems** John Wiley & Sons

"Principles of Electronic Communication Systems" is an introductory course in communication electronics for students with a background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications, including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and color photographs. The up-to-date content includes a new chapter on wireless communications systems. Various aspects of troubleshooting are discussed throughout..



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