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GSM Networks Childs World
Incorporated
Today more than 90% of all
programmable processors are



employed in embedded systems. The LISA processor design platform presented in this book addresses recent design challenges and results in highly satisfactory solutions, covering all major high-level phases of embedded processor design.

CCNA Wireless 200-355 Official Cert Guide John Wiley & Sons

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Wireless Communications Cisco Press

Sensor Technologies: Healthcare, Wellness and Environmental Applications explores the key aspects of

sensor technologies, covering wired, wireless, and discrete sensors for the specific application domains of healthcare, wellness and environmental sensing. It discusses the social, regulatory, and design considerations specific to these domains. The book provides an application-based approach using real-world examples to illustrate the application of sensor technologies

in a practical and experiential manner. The book guides the reader from the formulation of the research question, through the design and validation process, to the deployment and management phase of sensor applications. The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs. “ Sensor

Technologies: Healthcare, Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare, wellness, and environmental monitoring. From sensor hardware to system applications and case studies, this book gives readers an in-depth understanding of the technologies and how they can be applied. I would highly

recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications.” Dr. Benny Lo Lecturer, The Hamlyn Centre, Imperial College of London “ This timely addition to the literature on sensors covers the broad complexity of sensing, sensor types, and the vast range of existing and emerging applications in a very

clearly written and accessible manner. It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud-based ‘ big data ’ analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present. It really brings this home through the use of carefully chosen case studies that bring the

overwhelming concept of 'big data' down to the personal level of individual life and health.” Dermot Diamond Director, National Centre for Sensor Research, Principal Investigator, CLARITY Centre for Sensor Web Technologies, Dublin City University "Sensor Technologies: Healthcare, Wellness and Environmental Applications takes the reader on an end-to-end

journey of sensor technologies, covering the fundamentals from an engineering perspective, introducing how the data gleaned can be both processed and visualized, in addition to offering exemplar case studies in a number of application domains. It is a must-read for those studying any undergraduate course that involves sensor technologies. It also provides a thorough

foundation for those involved in the research and development of applied sensor systems. I highly recommend it to any engineer who wishes to broaden their knowledge in this area!" Chris Nugent Professor of Biomedical Engineering, University of Ulster

Products and Services Catalogue Artech House on Demand

Authoritative, hands-on guidance for Skype Business administrators Mastering Skype for Business 2015 gives

administrators the comprehensive coverage they need to effectively utilize Skype for Business. Fully up to date for the 2015 release, this guide walks you through industry best practices for planning, design, configuration, deployment, and management with clear instruction and plenty of hands-on exercises. Case studies illustrate the real-world benefits of Unified Communication, and provide expert experiences working with Skype for Business. From server roles, infrastructure, topology, and security to telephony, cloud deployment, and troubleshooting, this guide provides the answers you need

and the insight that will make your job easier. Sample automation scripts help streamline your workflow, and full, detailed coverage helps you exploit every capability Skype for Business has to offer. Skype for Business enables more robust video conferencing, and integrates with Office, Exchange, and SharePoint for better on-premises and cloud operations. Organizations are turning to Skype for Business as a viable PBX replacement, and admins need to be up to speed and ready to go. This book provides the clear, explicit instructions you need to: Design, configure, and manage

IM, voice mail, PBX, and VoIP Connect to Exchange and deploy Skype for Business in the cloud Manage UC clients and devices, remote access, federation, and public IM Automate management tasks, and implement cross-team backup-and-restore The 2015 version is the first Skype to take advantage of the Windows 10 'touch first' capabilities to provide fast, natural, hands-on control of communications, and users are eager to run VoIP, HD video conferencing, collaboration, instant messaging, and other UC features on their mobile devices. Mastering Skype for Business 2015 helps you get

Skype for Business up and running quickly, with hands-on guidance and expert insight. *FPGA-based Implementation of Signal Processing Systems* Springer Science & Business Media
An important working resource for engineers and researchers involved in the design, development, and implementation of signal processing systems The last decade has seen a rapid expansion of the use of field programmable gate

arrays (FPGAs) for a wide range of applications beyond traditional digital signal processing (DSP) systems. Written by a team of experts working at the leading edge of FPGA research and development, this second edition of *FPGA-based Implementation of Signal Processing Systems* has been extensively updated and revised to reflect the latest iterations of FPGA theory, applications, and technology. Written from a system-level perspective, it features expert discussions of contemporary methods and tools used in the design, optimization and implementation of DSP systems using programmable FPGA hardware. And it provides a wealth of practical insights—along with illustrative case studies and timely real-world examples—of critical concern to engineers working in the design and development of DSP systems for radio, telecommunications, audio-visual, and security applications, as well as bioinformatics, Big Data applications, and more. Inside you will find up-to-date coverage of: FPGA solutions for Big Data Applications, especially as they apply to huge data sets The use of ARM processors in FPGAs and the transfer of FPGAs towards heterogeneous computing platforms The evolution of High Level Synthesis tools—including new

sections on Xilinx's HLS Vivado tool flow and Altera's OpenCL approach Developments in Graphical Processing Units (GPUs), which are rapidly replacing more traditional DSP systems FPGA-based Implementation of Signal Processing Systems, 2nd Edition is an indispensable guide for engineers and researchers involved in the design and development of both traditional and cutting-edge data and signal processing systems. Senior-level electrical

and computer engineering graduates studying signal processing or digital signal processing also will find this volume of great interest. **Mastering Skype for Business 2015** Springer Science & Business Media What every electrical engineering student and technical professional needs to know about data exchange across networks While most electrical engineering students

learn how the individual components that make up data communication technologies work, they rarely learn how the parts work together in complete data communication networks. In part, this is due to the fact that until now there have been no texts on data communication networking written for undergraduate electrical engineering students.

Based on the author's exchange in networks and this book, the years of classroom continues to grow at first of its kind, experience, a staggering rate, gives them that Fundamentals of Data and that demand will understanding. To Communication and that demand will continue to mount achieve this goal, Networks fills that exponentially as the the book: Combines gap in the number of signal theory, data pedagogical interconnected IoT- protocols, and literature, providing enabled devices grows wireless networking readers with a much- to an expected twenty-concepts into one needed overview of six billion by the text Explores the all relevant aspects year 2020. Never has full range of issues of data communication it been more urgent that affect common networking, addressed for engineering processes such as from the perspective students to media downloads and of the various understand the online games technologies fundamental science Addresses services involved. The demand and technology behind for the network for information data communication, layer, the transport

layer, and the application layer
Investigates multiple access schemes and local area networks with coverage of services for the physical layer and the data link layer
Describes mobile communication networks and critical issues in network security
Includes problem sets in each chapter to test and fine-tune readers' understanding
Fundamentals of Data

Communication Networks is a must-read for advanced undergraduates and graduate students in electrical and computer engineering. It is also a valuable working resource for researchers, electrical engineers, and technical professionals.
Mobile Terminal Receiver Design
Elsevier
This book is a marvellous thing: an important

intervention in the policy debate about information security and a practical text for people trying to improve the situation. – Cory Doctorow author, co-editor of Boing Boing
A future with billions of connected "things" includes monumental security concerns. This practical book explores how malicious attackers

can abuse popular IoT-based devices, including wireless LED lightbulbs, electronic door locks, baby monitors, smart TVs, and connected cars. If you're part of a team creating applications for Internet-connected devices, this guide will help you explore security solutions. You'll not only learn how

to uncover vulnerabilities in existing IoT devices, but also gain deeper insight into an attacker's tactics. Analyze the design, architecture, and security issues of wireless lighting systems Understand how to breach electronic door locks and their wireless mechanisms Examine security design flaws in

remote-controlled baby monitors Evaluate the security design of a suite of IoT-connected home products Scrutinize security vulnerabilities in smart TVs Explore research into security weaknesses in smart cars Delve into prototyping techniques that address security in initial designs Learn plausible

attacks scenarios based on how people will likely use IoT devices

Digital Audio Broadcasting Springer Science & Business Media

Now the standardisation work of DAB (Digital Audio Broadcasting) system is finished many broadcast organisations, network providers and receiver manufacturers in European countries

and outside of Europe (for example Canada and the Far East) will be installing DAB broadcast services as pilot projects or public services. In addition some value added services (data and video services) are under development or have already started as pilot projects. The new digital broadcast system DAB distinguishes itself from existing conventional

broadcast systems, and the various new international standards and related documents (from ITU-R, ISO/IEC, ETSI, EBU, EUREKA147, and others) are not readily available and are difficult to read for users. Therefore it is essential that a well structured technical handbook should be available. The Second Edition of Digital Audio Broadcasting has been fully updated

with new sections and DAB;		<i>Des Jeux Floraux:</i>
chapters added to	Electronic Programme	1849 John Wiley &
reflect all the latest	Guide for DAB; and	Sons
developments and	Metadata A	If you're a mobile
advances. Digital	comprehensive	communications
Audio Broadcasting:	overview of DAB	engineer considering
Provides a fully	specifically written	software radio
updated comprehensive	for planning and	solutions, this
overview of DAB	system engineers,	practical resource is
Covers international	developers for	essential reading. It
standards,	professional	covers systems design
applications and	and domestic equipment	and partitioning all
other technical issues	manufacturers,	the way from the
Combines the	service providers, as	antenna to the
expertise of leading	well as postgraduate	management and
researchers in the	students and	control software.
field of DAB Now	lecturers in communic	Various options for
covers such new areas	ation technology.	hardware are provided
as: IP-Tunneling via	<i>Recueil de L'Académie</i>	including a look at

current and state of the art silicon technologies such as A/D & D/As, DSPs, FPGAs, RCPs, ACMS & digital frequency up/down-converters. The book covers both TDMA and CDMA based cellular radio systems with a special emphasis on how the technology can solve many of the problems faced by 3G. A chapter detailing software architecture summarizes the JTRS and SDRF proposals

and discusses potential software radio languages. Special coverage of smart antenna technology is followed by an implementation of a low cost software radio using off the shelf components to give readers a great head start to the world of software radio. The book concludes with an overview of engineering design assistance software

tools that are becoming so important for successful developments of embedded radio products. Abusing the Internet of Things Bluetooth Application Developer's Guide This in-depth technical guide is an essential resource for anyone involved in the development of "smart mobile wireless technology, including devices, infrastructure, and applications. Written

by researchers active in both academic and industry settings, it offers both a big-picture introduction to the topic and detailed insights into the technical details underlying all of the key trends. Smart Phone and Next-Generation Mobile Computing shows you how the field has evolved, its real and potential current capabilities, and the issues affecting its future direction. It lays a solid foundation for the decisions you face in your work,

whether you're a manager, engineer, designer, or entrepreneur. Covers the convergence of phone and PDA functionality on the terminal side, and the integration of different network types on the infrastructure side Compares existing and anticipated wireless technologies, focusing on 3G cellular networks and wireless LANs Evaluates terminal-side operating systems/programming environments, including Microsoft Windows

Mobile, Palm OS, Symbian, J2ME, and Linux Considers the limitations of existing terminal designs and several pressing application design issues Explores challenges and possible solutions relating to the next phase of smart phone development, as it relates to services, devices, and networks Surveys a collection of promising applications, in areas ranging from gaming to law enforcement to financial processing

Embedded System

Design Pearson
Education India
Wireless applications
are definitely the
next big thing in
communications.
Millions of people
around the world use
the Internet every
day - to stay in
touch with remote
locations, follow the
stock market, keep up
with the news, check
the weather, make
travel plans, conduct
business, shop,
entertain themselves,
and learn. The

logical next step is
th
**Wireless
Communications** John
Wiley & Sons
Wireless technology is
a truly revolutionary
paradigm shift,
enabling multimedia
communications between
people and devices
from any location. It
also underpins
exciting applications
such as sensor
networks, smart homes,
telemedicine, and
automated highways.
This book provides a
comprehensive
introduction to the

underlying theory,
design techniques and
analytical tools of
wireless
communications,
focusing primarily on
the core principles of
wireless system design.
The book begins with an
overview of wireless
systems and standards.
The characteristics of
the wireless channel
are then described,
including their
fundamental capacity
limits. Various
modulation, coding, and
signal processing
schemes are then
discussed in detail,

including state-of-the-art adaptive modulation, multicarrier, spread spectrum, and multiple antenna techniques. The concluding chapters deal with multiuser communications, cellular system design, and ad-hoc network design. Design insights and tradeoffs are emphasized throughout the book. It contains many worked examples, over 200 figures, almost 300 homework exercises, over 700 references, and is an ideal textbook for

students.
BioElectroMagnetics
Elsevier
Antennas and propagation are of fundamental importance to the coverage, capacity and quality of all wireless communication systems. This book provides a solid grounding in antennas and propagation, covering terrestrial and satellite radio systems in both mobile and fixed

contexts. Building on the highly successful first edition, this fully updated text features significant new material and brand new exercises and supplementary materials to support course tutors. A vital source of information for practising and aspiring wireless communication engineers as well as for students at postgraduate and senior undergraduate

levels, this book provides a fundamental grounding in the principles of antennas and propagation without excessive recourse to mathematics. It also equips the reader with practical prediction techniques for the design and analysis of a very wide range of common wireless communication systems. Including: Overview of the fundamental electromagnetic principles underlying propagation and antennas. Basic concepts of antennas and their application to specific wireless systems. Propagation measurement, modelling and prediction for fixed links, macrocells, microcells, picocells and megacells Narrowband and wideband channel modelling and the effect of the channel on communication system performance. Methods that overcome and transform channel impairments to enhance performance using diversity, adaptive antennas and equalisers. Key second edition updates: New chapters on Antennas for Mobile Systems and Channel Measurements for Mobile Radio Systems. Coverage of new technologies, including MIMO antenna systems, Ultra Wideband (UWB)

and the OFDM technology used in Wi-Fi and WiMax systems. Many new propagation models for macrocells, microcells and picocells. Fully revised and expanded end-of-chapter exercises. The Solutions Manual can be requested from http://www.wiley.com/go/saunders_antennas_2e Sensor Technologies Springer

MPEG-4 is the multimedia standard for combining natural and synthetic digital video, audio and computer-graphics. Typical applications are: internet, video conferencing, mobile videophones, multimedia cooperative work, teleteaching and games. With MPEG-4 the next step from block-based video (ISO/IEC MPEG-1, MPEG-2, CCITT H.261, ITU-T H.263) to arbitrarily-shaped visual objects is taken. This significant step demands a new methodology for system analysis and design to meet the considerably higher flexibility of MPEG-4. Motion estimation is a central part of MPEG-1/2/4 and H.261/H.263 video compression standards and has attracted much attention in research and

industry, for the following reasons: it is computationally the most demanding algorithm of a video encoder (about 60-80% of the total computation time), it has a high impact on the visual quality of a video encoder, and it is not standardized, thus being open to competition.

Algorithms, Complexity Analysis, and VLSI Architectures for MPEG-4 Motion Estimation covers in detail every single step in the design of a MPEG-1/2/4 or H.261/H.263 compliant video encoder: Fast motion estimation algorithms Complexity analysis tools Detailed complexity analysis of a software implementation of MPEG-4 video Complexity and visual quality analysis of fast motion estimation algorithms within MPEG-4 Design space on motion estimation VLSI architectures Detailed VLSI design examples of (1) a high throughput and (2) a low-power MPEG-4 motion estimator.

Algorithms, Complexity Analysis and VLSI Architectures for MPEG-4 Motion Estimation is an important introduction to numerous algorithmic,

architectural and system design aspects of the multimedia standard MPEG-4. As such, all researchers, students and practitioners working in image processing, video coding or system and VLSI design will find this book of interest.

Angry CRC Press

The last decade has witnessed a rapid surge of interest in new sensing and monitoring devices

for wellbeing and healthcare. One key development in this area is wireless, wearable and implantable in vivo monitoring and intervention. A myriad of platforms are now available from both academic institutions and commercial organisations. They permit the management of patients with both acute and chronic

symptoms, including diabetes, cardiovascular diseases, treatment of epilepsy and other debilitating neurological disorders. Despite extensive developments in sensing technologies, there are significant research issues related to system integration, sensor miniaturisation, low-power sensor

interface, wireless telemetry and signal processing. In the 2nd edition of this popular and authoritative reference on Body Sensor Networks (BSN), major topics related to the latest technological developments and potential clinical applications are discussed, with contents covering. Biosensor Design,

Interfacing and Nanotechnology Wireless Communication and Network Topologies Communication Protocols and Standards Energy Harvesting and Power Delivery Ultra-low Power Bio-inspired Processing Multi-sensor Fusion and Context Aware Sensing Autonomic Sensing Wearable, Ingestible Sensor Integration and

Exemplar Applications System Integration and Wireless Sensor Microsystems The book also provides a comprehensive review of the current wireless sensor development platforms and a step-by-step guide to developing your own BSN applications through the use of the BSN development kit.

GSM and Personal Communications Handbook Artech House Mobile Communicat Component-based software development regards software construction in terms of conventional engineering disciplines where the assembly of systems from readily-available prefabricated parts is the norm. Because both component-based systems themselves and the stakeholders in component-based development projects are different from traditional software systems, component-based testing also needs to deviate from traditional software testing approaches. Gross first describes the specific challenges related to component-based testing like the lack of internal knowledge of a component or the usage of a component in diverse contexts. He argues that only built-in contract testing, a test organization for component-based applications founded on building test artifacts directly into components, can prevent catastrophic failures like the one that caused the now famous ARIANE 5 crash in 1996. Since building testing into components has implications for component development, built-in contract testing is

integrated with and made to complement a model-driven development method. Here UML models are used to derive the testing architecture for an application, the testing interfaces and the component testers. The method also provides a process and guidelines for modeling and developing these artifacts. This book is the first comprehensive

treatment of the intricacies of testing component-based software systems. With its strong modeling background, it appeals to researchers and graduate students specializing in component-based software engineering. Professionals architecting and developing component-based systems will profit from the UML-based methodology and

the implementation hints based on the XUnit and JUnit frameworks.

Networks and Telecommunications
John Wiley & Sons
A practical guide to the principle services of facilities management, revised and updated The updated third edition of Facilities Manager's Desk Reference is an invaluable resource covering all the principal facility management (FM) services. The author—a

noted facilities management expert—provides the information needed to ensure compliance to current laws, to deliver opportunities to adopt new ways of using built environments, and to identify creative ways to reduce operational occupancy costs, while maintaining appropriate and productive working environment standards. The third edition is fully updated and written in an approachable and concise format. It is

comprehensive in scope, principal FM services the author covering both hard and soft facilities management issues. Since the first edition was published it has become a first point of reference for busy facilities managers, saving them time by providing access to the information needed to ensure the safe, effective and efficient running of any facilities function. This important book: Has been fully updated, reviewing the essential data covering the

Is highly practical, ideal for the busy FM practitioner Presents information on legal compliance issues, the development of strategic policies, tactical best practices, and much more Is a time-saving resource that brings together essential, useful, and practical FM information in one handy volume; Written for students and professional facilities managers, Facilities Manager's Desk Reference is designed

as a practical resource that offers FMs assistance in finding solutions to the myriad demands of the job.

Antennas and Propagation for Wireless Communication Systems Springer Science & Business Media
Bluetooth Application Developer's Guide Elsevier
The Informatics Handbook Springer Science & Business

Media
A child explains what angers him and how he sometimes angers other people.
MIT Press
The most comprehensive reference available on GSM applications and services, this new title is intended to build on the basic technical information in the authors' original

bestseller, An Introduction to GSM (Artech House, 1995). The book provides a close-up look at this hot technology, offers in-depth discussions of the features and services available through GSM, and includes new and more in-depth coverage of applications and implementations of the GSM standard.

It also explains how GSM has succeeded in becoming the major digital wireless standard - and addresses both past and future standardization, regulation, and development issues.