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Open Control Networks

LonWorks/EIA 709 Technology

Springer Science & Business Media **Control networks span a wide range of application areas. These networks are put into action in the `Digital Home', industrial applications, commercial buildings, transportation systems, gas stations, security systems, and they are found in most instances where smart sensors and smart actuators are used to exchange information. The authors of this volume provide an overview of various control network protocols and discuss LonTalk® protocol, Neuron® chip, programming model, network structures, network management, interoperability between nodes, application profiles, development and maintenance tools, performance analysis, and standardization activities. Open Control Networks: LonWorks/EIA 709 Technology will be an important resource for advanced students of control systems and embedded systems, engineers designing distributed networks, systems designers and architects, and others developing smart buildings and intelligent transportation systems.**

Official Gazette of the United States Patent and Trademark Office

Trademarks

HWM

Singapore's leading tech magazine gives its readers the power to decide with its informative articles and in-depth reviews.

CWNA Certified Wireless Network Administrator Study Guide

(Exam PW0-100)

John Wiley & Sons One of the fastest-growing certifications on the market, CWNA is rapidly becoming the premier professional wireless certification for network administrators. It is also the foundation-level exam for the complete Certified Wireless Network Professional program. Now you can join the move to Wi-Fi and prepare for your certification with this comprehensive and targeted study guide. This value-packed book includes: Practical information on designing, installing, and managing wireless networks, including the new 802.11 standards Challenging practice questions and hands-on exercises A test engine with bonus exams and over 150 electronic flashcards A pre-assessment test A detailed glossary Inside, find authoritative coverage of all exam PW0-100 objectives, including: Radio Technologies Antenna Concepts Wireless LAN Hardware and Software Network Design, Installation, and

Management Wireless Standards and Organizations 802.11 Network Architecture Wireless LAN Security Troubleshooting Performing Site Surveys Featured on the CD SYBEX TEXT ENGINE: Test your knowledge with advanced testing software. Includes all chapter review questions and bonus exams. **ELECTRONIC FLASHCARDS:** Reinforce your understanding with flashcards that can run on your PC, Pocket PC, or Palm handheld. Also on CD, you'll find the entire book in searchable and printable PDF, as well as valuable tools, demo software, and white papers that will supplement your certification preparation. Visit www.sybex.com Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Network World

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Bio-Inspired Fault-Tolerant Algorithms for Network-on-Chip

CRC Press **Network on Chip (NoC)** addresses the communication requirement of different nodes on System on Chip. The bio-inspired algorithms improve the bandwidth utilization, maximize the throughput and reduce the end-to-end latency and inter-flit arrival time. This book exclusively presents in-depth information regarding bio-inspired algorithms solving real world problems focussing on fault-tolerant algorithms inspired by the biological brain and implemented on NoC. It further documents the bio-inspired algorithms in general and more specifically, in the design of NoC. It gives an exhaustive review and analysis of the NoC architectures developed during the last decade according to various parameters. **Key Features:** Covers bio-inspired solutions pertaining to Network-on-Chip (NoC) design solving real world examples Includes bio-inspired NoC fault-tolerant algorithms with detail coding examples Lists fault-tolerant algorithms with detailed examples Reviews basic concepts of NoC Discusses NoC architectures developed-to-date

AUUGN

Wireless LAN.

Information Gatekeepers Inc

Guide to Wireless Communications

Cengage Learning Readers learn about the most popular wireless data communications technologies in use today as **GUIDE TO WIRELESS COMMUNICATIONS, 4Ed** examines Bluetooth, ZigBee, Wi-Fi, cellular and satellite communications while providing a broad industry perspective. Readers develop a solid base of knowledge in Wireless Personal Area Networks (WPANs), Wireless Local Area Networks (WLANs), Wireless Metropolitan Area Networks (WMANs), and Wireless Wide Area Networks (WWANs) to better understand the most popular wireless communications available today. This book's comprehensive approach to wireless communication technology provides the solid background readers need to prepare for a future career in today's information and communications technology field. **Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

Modeling, Analysis and Optimization of Network-on-Chip Communication Architectures

Springer Science & Business Media Traditionally, design space exploration for Systems-on-Chip (SoCs) has focused on the computational aspects of the problem at hand. However, as the number of components on a single chip and their performance continue to increase, the communication architecture plays a major role in the area, performance and energy consumption of the overall system. As a result, a shift from computation-based to communication-based design becomes mandatory. Towards this end, network-on-chip (NoC) communication architectures have emerged recently as

a promising alternative to classical bus and point-to-point communication architectures. In this dissertation, we study outstanding research problems related to modeling, analysis and optimization of NoC communication architectures. More precisely, we present novel design methodologies, software tools and FPGA prototypes to aid the design of application-specific NoCs.

Network and Parallel Computing

IFIP International Conference, NPC 2010, Zhengzhou, China, September 13-15, 2010, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the IFIP International Conference, NPC 2010, held in Zhengzhou, China, in September 2010. The 39 papers presented were carefully selected from 89 submissions. The papers are organized in topical sections on Parallelization and Optimization, Parallel Algorithms, Network, CPU and Multicore, Cloud and Grid Infrastructure, Network on Chip.

ZigBee Network Protocols and Applications

CRC Press Compared with other wireless communication technologies, such as Bluetooth, WiFi, and UWB, ZigBee is a far more reliable, affordable, and energy-efficient option. It is also the only global wireless communication standard for easily deployed, low-power consumption products. ZigBee Network Protocols and Applications provides detailed descriptions of

CompTIA A+ Guide to IT Technical Support

Cengage Learning Discover a comprehensive introduction to IT technical support as Andrews/Dark/West's COMPTIA A+ GUIDE TO IT TECHNICAL SUPPORT, 10E explains how to work with users as well as install, maintain, troubleshoot and network computer hardware and software. This step-by-step, highly visual best-selling approach uses CompTIA A+

Exam objectives as a framework to prepare you for 220-1001 and 220-1002 certification exams. Each chapter covers core and advanced topics while emphasizing practical application of the most current technology, techniques and industry standards. You study the latest hardware, security, Active Directory, operational procedures, basics of scripting, virtualization, cloud computing, mobile devices and Windows 10 as you prepare for success as an IT support technician or administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Views on Ambient Intelligence

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CompTIA IT Fundamentals Study Guide

Exam FC0-U51

John Wiley & Sons **NOTE: The exam this book covered, CompTIA IT Fundamentals (Exam FC0-U51), was retired by CompTIA in 2019 and is no longer offered. For coverage of the current exam CompTIA IT Fundamentals+: Exam FC0-U61, please look for the latest edition of this guide: CompTIA IT Fundamentals+ Study Guide: Exam FC0-U61 (9781119513124). Information Technology is not just about what applications you can use; it is about the systems you can support. The CompTIA IT Fundamentals certification is an introduction to the skills required to become a successful systems support professional, progressing onto more advanced certifications and career success. The Sybex CompTIA IT Fundamentals Study Guide covers 100% of the exam objectives in clear and concise language and provides you authoritatively with all you need to know to succeed in the exam. Along with gaining preventative maintenance skills, you will also develop the tools to complete troubleshooting and fault resolution and resolve common issues experienced by the majority of computer systems. The exam focuses on the essential IT skills and knowledge needed to perform tasks commonly performed by advanced end-users and entry-level IT professionals alike, including: Identifying and explaining computer components Setting up a workstation, including conducting software installations Establishing network connectivity Identifying compatibility issues and identifying and preventing security risks Managing the safety and preventative maintenance of computers Practical examples, exam highlights and review questions provide real-world applications and uses. The book includes Sybex's interactive online learning environment and test bank with an assessment test, chapter tests, flashcards, and a practice exam. Our study tools can help you prepare for taking the exam???and increase your chances of passing the exam the first time!**

Networks on Chip

Springer Science & Business Media **As the number of processor cores and IP blocks integrated on a single chip is steadily growing, a systematic approach to design the communication infrastructure becomes necessary. Different variants of packed switched on-chip networks have been proposed by several groups during the past two years. This book**

summarizes the state of the art of these efforts and discusses the major issues from the physical integration to architecture to operating systems and application interfaces. It also provides a guideline and vision about the direction this field is moving to. Moreover, the book outlines the consequences of adopting design platforms based on packet switched network. The consequences may in fact be far reaching because many of the topics of distributed systems, distributed real-time systems, fault tolerant systems, parallel computer architecture, parallel programming as well as traditional system-on-chip issues will appear relevant but within the constraints of a single chip VLSI implementation.

CompTIA A+ Complete Study Guide

Exams 220-901 and 220-902

John Wiley & Sons Gain the Sybex advantage with this complete guide to A+ certification The CompTIA A+ Complete Study Guide is your complete solution for A+ exam preparation. Covering 100% of Exam 220-901 and Exam 220-902 objectives, this book gives you everything you need to ensure that you not only understand the basics of IT, but that you can demonstrate your understanding effectively. Now in its third edition, this guide has been updated to reflect the exam's new focus. Coverage includes the latest best practices, Windows 8/8.1 and mobile OSes, and an emphasis on the practical skills required on the job. Clear and concise, this book helps you solidify your understanding of crucial hardware and operating system maintenance and troubleshooting topics covered on the exam. You also gain access to the Sybex exclusive online interactive learning environment and test bank, featuring bonus practice exams, electronic flashcards, and a searchable PDF glossary of the most important terms you need to understand. The CompTIA A+ certification is the essential computer technician credential, and is required by over 100 leading employers. This book helps you prepare and practice so you can approach the exam with confidence, and pass with flying colors. Review the components of personal computers, laptops, and portable devices Understand operating systems, networks, and security Get up to speed on safety and environmental issues Practice effective communication and the "soft skills" of professionalism More than just a review of computer parts, this book covers everything you'll see on the exam. Why go in unprepared when you can have the Sybex advantage?

Network World

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

CompTIA A+ Complete Deluxe Study Guide

Exams 220-901 and 220-902

John Wiley & Sons **Annotation** An arsenal of study aids for anyone preparing to take the CompTIA A+ certification exams, this book is the industry standard in terms of measuring a technician's hardware and software knowledge. The topics covered include managing hardware, IT troubleshooting and maintenance, networking, and more.

Design of Cost-Efficient Interconnect Processing Units

Spidergon STNoC

CRC Press **Streamlined Design Solutions Specifically for NoC** To solve critical network-on-chip (NoC) architecture and design problems related to structure, performance and modularity, engineers generally rely on guidance from the abundance of literature about better-understood system-level interconnection networks. However, on-chip networks present several distinct challenges that require novel and specialized solutions not found in the tried-and-true system-level techniques. A Balanced Analysis of NoC Architecture As the first detailed description of the commercial Spidergon STNoC architecture, *Design of Cost-Efficient Interconnect Processing Units: Spidergon STNoC* examines the highly regarded, cost-cutting technology that is set to replace well-known shared bus architectures, such as STBus, for demanding multiprocessor system-on-chip (SoC) applications. Employing a balanced, well-organized structure, simple

teaching methods, numerous illustrations, and easy-to-understand examples, the authors explain: how the SoC and NoC technology works why developers designed it the way they did the system-level design methodology and tools used to configure the Spidergon STNoC architecture differences in cost structure between NoCs and system-level networks From professionals in computer sciences, electrical engineering, and other related fields, to semiconductor vendors and investors - all readers will appreciate the encyclopedic treatment of background NoC information ranging from CMPs to the basics of interconnection networks. The text introduces innovative system-level design methodology and tools for efficient design space exploration and topology selection. It also provides a wealth of key theoretical and practical MPSoC and NoC topics, such as technological deep sub-micron effects, homogeneous and heterogeneous processor architectures, multicore SoC, interconnect processing units, generic NoC components, and embeddings of common communication patterns.

Cybersecurity in Smart Homes

Architectures, Solutions and Technologies

John Wiley & Sons Smart homes use Internet-connected devices, artificial intelligence, protocols and numerous technologies to enable people to remotely monitor their home, as well as manage various systems within it via the Internet using a smartphone or a computer. A smart home is programmed to act autonomously to improve comfort levels, save energy and potentially ensure safety; the result is a better way of life. Innovative solutions continue to be developed by researchers and engineers and thus smart home technologies are constantly evolving. By the same token, cybercrime is also becoming more prevalent. Indeed, a smart home system is made up of connected devices that cybercriminals can infiltrate to access private information, commit cyber vandalism or infect devices using botnets. This book addresses cyber attacks such as sniffing, port scanning, address spoofing, session hijacking, ransomware and denial of service. It presents, analyzes and discusses the various aspects of cybersecurity as well as solutions proposed by the research community to counter the risks. Cybersecurity in Smart Homes is intended for people who wish to understand the architectures, protocols and different technologies used in smart homes.

Computerworld

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

From Internet of Things to Smart Cities

Enabling Technologies

CRC Press **From Internet of Things to Smart Cities: Enabling Technologies** explores the information and communication technologies (ICT) needed to enable real-time responses to current environmental, technological, societal, and economic challenges. ICT technologies can be utilized to help with reducing carbon emissions, improving resource utilization efficiency, promoting active engagement of citizens, and more. This book aims to introduce the latest ICT technologies and to promote international collaborations across the scientific community, and eventually, the general public. It consists of three tightly coupled parts. The first part explores the involvement of enabling technologies from basic machine-to-machine communications to Internet of Things technologies. The second part of the book focuses on state of the art data analytics and security techniques, and the last part of the book discusses the design of human-machine interfaces, including smart home and cities. Features Provides an extended literature review of relevant technologies, in addition to detailed comparison diagrams, making new readers be easier to grasp fundamental and wide knowledge Contains the most recent research results in the field of communications, signal processing and computing sciences for facilitating smart homes, buildings, and cities Includes future research directions in Internet of Things, smart homes, smart buildings, smart grid, and smart cities Presents real examples of applying these enabling technologies to smart homes, transportation systems and cities With contributions from leading experts, the book follows an easy structure that not only presents timely research topics in-depth, but also integrates them into real world applications to help readers to better understand them.

COMPTIA A+ Guide to Information Technology Technical Support

Cengage Learning Using a step-by-step, highly visual approach, Andrews/Dark Shelton/Pierce's bestselling **COMPTIA A+ GUIDE TO IT TECHNICAL SUPPORT**, 11th edition, teaches you how to work with users as well as install, maintain, troubleshoot and network computer hardware and software. Ensuring you are well prepared for 220-1101 and 220-1102 certification exams, each module covers core and advanced topics while emphasizing practical application of the most current technology, techniques and industry standards. You will study the latest hardware, security, Active Directory, operational procedures, basics of scripting, virtualization, cloud computing, mobile devices, Windows 10, macOS and Linux. The text provides thorough preparation for the certification exam -- and your future success as an IT support technician or administrator. **Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

A Comprehensible Guide to Controller Area Network

Copperhill Media **A Comprehensible Guide to Controller Area Network** by Wilfred Voss represents the most thoroughly researched and most complete work on CAN available in the marketplace. It includes: A Brief History of CAN, Main Characteristics, Message Frame Architecture, Message Broadcasting, Bus Arbitration, Error Detection & Fault Confinement, CAN Physical Layer, and more?

Networks on Chips

Technology and Tools

Elsevier The design of today's semiconductor chips for various applications, such as telecommunications, poses various challenges due to the complexity of these systems. These highly complex systems-on-chips demand new approaches to

connect and manage the communication between on-chip processing and storage components and networks on chips (NoCs) provide a powerful solution. This book is the first to provide a unified overview of NoC technology. It includes in-depth analysis of all the on-chip communication challenges, from physical wiring implementation up to software architecture, and a complete classification of their various Network-on-Chip approaches and solutions. * Leading-edge research from world-renowned experts in academia and industry with state-of-the-art technology implementations/trends * An integrated presentation not currently available in any other book * A thorough introduction to current design methodologies and chips designed with NoCs

13th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2020)

Springer Nature This book contains accepted papers presented at CISIS 2020 held in the beautiful and historic city of Burgos (Spain), in September 2020. The aim of the CISIS 2020 conference is to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of computational intelligence, information security, and data mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and the aggregation stimulus for the overall event. After a thorough peer-review process, the CISIS 2020 International Program Committee selected 43 papers which are published in these conference proceedings achieving an acceptance rate of 28%. Due to the COVID-19 outbreak, the CISIS 2020 edition was blended, combining on-site and on-line participation. In this relevant edition, a special emphasis was put on the organization of five special sessions related to relevant topics as Fake News Detection and Prevention, Mathematical Methods and Models in Cybersecurity, Measurements for a Dynamic Cyber-Risk Assessment, Cybersecurity in a Hybrid Quantum World, Anomaly/Intrusion Detection, and From the least to the least: cryptographic and data analytics solutions to fulfil least minimum privilege and endorse least minimum effort in information systems. The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial

process to the creation of a high standard conference, and the CISIS conference would not exist without their help.

Conference Record

The VLSI Handbook

CRC Press For the new millenium, Wai-Kai Chen introduced a monumental reference for the design, analysis, and prediction of VLSI circuits: **The VLSI Handbook**. Still a valuable tool for dealing with the most dynamic field in engineering, this second edition includes 13 sections comprising nearly 100 chapters focused on the key concepts, models, and equations. Written by a stellar international panel of expert contributors, this handbook is a reliable, comprehensive resource for real answers to practical problems. It emphasizes fundamental theory underlying professional applications and also reflects key areas of industrial and research focus. **WHAT'S IN THE SECOND EDITION?** Sections on... Low-power electronics and design VLSI signal processing Chapters on... CMOS fabrication Content-addressable memory Compound semiconductor RF circuits High-speed circuit design principles SiGe HBT technology Bipolar junction transistor amplifiers Performance modeling and analysis using SystemC Design languages, expanded from two chapters to twelve Testing of digital systems Structured for convenient navigation and loaded with practical solutions, **The VLSI Handbook, Second Edition** remains the first choice for answers to the problems and challenges faced daily in engineering practice.

Interconnect-Centric Design for Advanced SOC and NOC

Springer Science & Business Media In **Interconnect-centric Design for Advanced SoC and NoC**, we have tried to create a comprehensive understanding about on-chip interconnect characteristics, design methodologies, layered views on different abstraction levels and finally about applying the interconnect-centric design in system-on-chip design. Traditionally, on-chip communication design has been done using rather ad-hoc and informal approaches that fail to meet some of the challenges posed by next-generation SOC designs, such as performance and throughput, power and energy, reliability, predictability, synchronization, and management of concurrency. To address these challenges, it is critical to take a global view of the communication problem, and decompose it along lines that make it more tractable.

We believe that a layered approach similar to that defined by the communication networks community should also be used for on-chip communication design. The design issues are handled on physical and circuit layer, logic and architecture layer, and from system design methodology and tools point of view. Formal communication modeling and refinement is used to bridge the communication layers, and network-centric modeling of multiprocessor on-chip networks and socket-based design will serve the development of platforms for SoC and NoC integration. Interconnect-centric Design for Advanced SoC and NoC is concluded by two application examples: interconnect and memory organization in SoCs for advanced set-top boxes and TV, and a case study in NoC platform design for more generic applications.

ODROID-XU4 User Manual

A Beginner's Guide

Hardkernel, Ltd **Congratulations on purchasing the ODROID-XU4! It is one of the most powerful low-cost Single Board computers available, as well as being an extremely versatile device. Featuring an octa-core Exynos 5422 big.LITTLE processor, advanced Mali GPU, and Gigabit ethernet, it can function as a home theater set-top box, a general purpose computer for web browsing, gaming and socializing, a compact tool for college or office work, a prototyping device for hardware tinkering, a controller for home automation, a workstation for software development, and much more. Some of the modern operating systems that run on the ODROID-XU4 are Ubuntu, Android, Fedora, ARCHLinux, Debian, and OpenELEC, with thousands of free open-source software packages available. The ODROID-XU4 is an ARM device, which is the most widely used architecture for mobile devices and embedded 32-bit computing.**

Agricultural Internet of Things

Technologies and Applications

Springer Nature **Internet of things (IoT) is a new type of network that combines communication technology, expanded applications, and physical devices. Among them, agriculture is one of the most important areas in the application of the IoT technology, which has its unique requirements and integration features. Compared to the information technology in traditional agriculture, the agricultural IoT mainly refers to industrialized production and sustainable development under relatively controllable conditions. Agricultural IoT applies sensors, RFID, visual capture terminals and other types of sensing devices to detect and collect site information, and with broad applications in field planting, facility horticulture, livestock and poultry breeding, aquaculture and agricultural product logistics. It utilizes multiple information transmission channels such as wireless sensor networks, telecommunications networks and the internet to achieve reliable transmission of agricultural information at multiple scales and intelligently processes the acquired, massive information. The goals are to achieve (i) optimal control of agricultural production process, (ii) intelligent electronic trading of agricultural products circulation, and (iii) management of systematic logistics, quality and safety traceability. This book focuses on three levels of agricultural IoT network: information perception technology, information transmission technology and application technology.**

Organize Your Digital Life

How to Store Your Photographs, Music, Videos, and Personal Documents in a Digital World

National Geographic Books **A practical handbook reflecting the needs of the new digital world provides detailed, step-by-step instructions on how to organize, catalog, store, and share one's digital archive of photographs, videos, music, and other personal documents, with helpful tips on how to eliminate household clutter and protect valuable personal items. Original. (Beginner).**

Reconfigurable Computing: Architectures and Applications

Second International Workshop, ARC 2006, Delft, The Netherlands, March 1-3, 2006 Revised Selected Papers

Springer Science & Business Media **This book constitutes the thoroughly refereed post-proceedings of the Second International Workshop on Reconfigurable Computing, ARC 2006, held in Delft, The Netherlands, in March 2006. The 22 revised full papers and 35 revised short papers presented were thoroughly reviewed and selected from 95 submissions. The papers are organized in topical sections on applications, power, image processing, organization and architecture, networks and communication, security, and tools.**

Philips Telecommunication Review

PTR.

Wireless Internet Monthly Newsletter

Information Gatekeepers Inc

Windows XP Media Center Edition 2004 PC For Dummies

John Wiley & Sons The fun and easy way to get up and running quickly with Microsoft Windows XP Media Center Edition, the new operating system version specially outfitted for TV, DVD, video, music, and digital photo applications Media Center PCs are the first PCs to feature an easy-to-use interface and all preconfigured hardware and preloaded software needed to create a complete integrated home entertainment system Explains how to integrate a home computer network with a home theater system, control connected TVs with the Remote Control Interface, record TV programs using a TiVo-like recorder, acquire and play back music files, organize digital videos and photos, play DVD movies, and much more Written by the authors of Home Theater For Dummies (0-7645-1801-1) and Wireless Home Networking For Dummies (0-7645-3910-8), who worked closely with Media Center Edition product management at Microsoft to complete the book.

Official Gazette of the United States Patent and
Trademark Office
Patents