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Electronics and Communications for Scientists and Engineers Internet of Things A to Z Absolute Beginner's Guide to Home Networking The Internet of Things Advanced Technologies for Solar Photovoltaics Energy Systems TV White Space Digital Audio Essentials MacMost.com Guide to Switching to the Mac Designing Embedded Systems and the Internet of Things (IoT) with the ARM mbed Connectivity Frameworks for Smart Devices Home Networking: The Missing Manual New Developments and Applications in Sensing Technology Serial-to-Ethernet Converter CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) Exam Cram Ethernet Switches Ethernet Optical Tweezers Edexcel Computer Science for GCSE Student Book Cyber Physical Systems Internet of Things Exploring the Convergence of Big Data and the Internet of Things Managing Information in the Public Sector Teach Yourself VISUALLY LinkedIn Handbook of Research on Mobile Multimedia, Second Edition Handbook of Research on the Internet of Things Applications in Robotics and Automation Container Security Getting Started with Raspberry Pi Ethernet Networks National Association of Broadcasters Engineering Handbook WDM Systems and Networks Precision agriculture Laptops All-in-One For Dummies Intelligent Mobile Malware Detection The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone Black 2012 International Conference on Information Technology and Management Science(ICITMS 2012) Proceedings Sensing, Data Managing, and Control Technologies for Agricultural Systems Réseaux informatiques : notions fondamentales : normes, architecture, modèle OSI, TCP/IP, Ethernet, Wi-Fi,... Smart Nitrate Sensor Demystifying Smart Cities Mobile Service Robotics

This is the eBook version of the print title. The eBook edition does not provide access to the test engine and practice test that accompanies the print book. This is the perfect study guide to help you pass CompTIA®'s new A+® Core 1 (220-1001) and Core 2 (220-1002) exams. It provides coverage and practice questions for every exam topic, including substantial new coverage of Windows 10, as well as new PC hardware, tablets, smartphones, macOS, Linux, cloud computing, and professional-level networking and security. Extensive prep tools include quizzes, Exam Alerts, our great last-minute Cram Sheet, two full practice exams in the print book and an additional two exams in the test engine, plus complete real-time practice and feedback through Pearson's state-of-the-art test engine. You'll also find 14 exclusive Real-World Scenario case studies, all linked to simulations or video on our bonus content site. Covers the critical information you'll need to know to score higher on your A+ Core 1 (220-1001) and Core 2 (220-1002) exams! --Deploy and manage computers running Windows 10/8/7, macOS, Linux, iOS, and Android --Master and practice the six-step A+ troubleshooting process --Understand, install, configure, and troubleshoot motherboards, CPUs, and memory --Test and troubleshoot power-related problems --Use all forms of storage, including SSDs, optical devices, and RAID systems --Work effectively with mobile devices, including laptops, tablets, and smartphones --Configure Windows components and applications, use Windows administrative tools, and optimize Windows systems --Repair damaged Windows environments and troubleshoot Windows issues --Install and manage printers and other peripherals --Understand and work with networks, network hardware, wireless protocols, and cloud technologies --Install and configure SOHO wired/wireless networks, and troubleshoot connectivity --Secure desktops and mobile devices, implement authentication methods, prevent malware attacks, and protect data This book presents the design and development of an Internet of Things (IoT) enabled, smart sensor to detect nitrate contamination in natural water. It considers three different sensors designed, fabricated and configured for nitrate detection: a Graphite/PDMS and Si-based MEMS sensors, and aFR4-based sensor. It also introduces a selective polymer material developed by means of the ion imprinting polymerization technique that was used as a coating on the Si-based MEMS

sensor. Further, the book discusses the development of a smart sensing system that can be used to remotely monitor the nitrate concentration in any water. Fully explaining all the techniques used, the book is of interest to engineers, researchers and scientists working in the field of the water-quality measurement. A comprehensive and accessible introduction to the development of embedded systems and Internet of Things devices using ARM mbed Designing Embedded Systems and the Internet of Things (IoT) with the ARM mbed offers an accessible guide to the development of ARM mbed and includes a range of topics on the subject from the basic to the advanced. ARM mbed is a platform and operating system based on 32-bit ARM Cortex-M microcontrollers. This important resource puts the focus on ARM mbed NXP LPC1768 and FRDM-K64F evaluation boards. NXP LPC1768 has powerful features such as a fast microcontroller, various digital and analog I/Os, various serial communication interfaces and a very easy to use Web based compiler. It is one of the most popular kits that are used to study and create projects. FRDM-K64F is relatively new and largely compatible with NXP LPC1768 but with even more powerful features. This approachable text is an ideal guide that is divided into four sections; Getting Started with the ARM mbed, Covering the Basics, Advanced Topics and Case Studies. This getting started guide: Offers a clear introduction to the topic Contains a wealth of original and illustrative case studies Includes a practical guide to the development of projects with the ARM mbed platform Presents timely coverage of how to develop IoT applications Designing Embedded Systems and the Internet of Things (IoT) with the ARM mbed offers students and R&D engineers a resource for understanding the ARM mbed NXP LPC1768 evaluation board. This book has focussed on different aspects of smart sensors and sensing technology, i.e. intelligent measurement, information processing, adaptability, recalibration, data fusion, validation, high reliability and integration of novel and high performance sensors in the areas of magnetic, ultrasonic, vision and image sensing, wireless sensors and network, microfluidic, tactile, gyro, flow, surface acoustic wave, humidity and ultra-wide band. While future interest in this field is ensured by the constant supply of emerging modalities, techniques and engineering solutions, as well as an increasing need from aging structures, many of the basic concepts and strategies have already matured and now offer opportunities to build upon. The book has primarily been focussed for postgraduate and research students working on different aspects of design and developments of smart sensors and sensing technology. This first-of-its-kind survey covers both the basics of information technology and the managerial and political issues surrounding the use of these technologies. Unlike other works on information systems, this book is written specifically for the public sector and addresses unique public sector issues and concerns. The technical basics are explained in clear English with as little technical jargon as possible so that readers can move on to informed analysis of the public policy issues surrounding government's use of MIS. This practical tool includes end of chapter summaries with bridges to upcoming chapters, numerous boxed exhibits, thorough end-of-chapter notes and a bibliography for further reading. Build and program projects that tap into the Internet of Things (IoT) using Arduino, Raspberry Pi, and BeagleBone Black! This innovative guide gets you started right away working with the most popular processing platforms, wireless communication technologies, the Cloud, and a variety of sensors. You'll learn how to take advantage of the utility and versatility of the IoT and connect devices and systems to the Internet using sensors. Each project features a list of the tools and components, how-to explanations with photos and illustrations, and complete programming code. All projects can be modified and expanded, so you can build on your skills. The Internet of Things: DIY Projects with Arduino, Raspberry Pi, and BeagleBone Black Covers the basics of Java, C#, Python, JavaScript, and other programming languages used in the projects Shows you how to use IBM's Net Beans IDE and the Eclipse IDE Explains how to set up small-scale networks to connect the projects to the Internet Includes essential tips for setting up and using a MySQL database. The fun, DIY projects in the book include: Raspberry Pi home temperature measurements Raspberry Pi surveillance webcams Raspberry Pi home weather station Arduino garage door controller Arduino irrigation controller Arduino outdoor lighting controller Beaglebone message panel Beaglebone remote control SDR Machine-to-machine demonstration project A complete visual guide to the world's largest professional network Teach Yourself VISUALLY LinkedIn is your guide to becoming a part of the world's largest professional network, with over 259 million users across 200 countries and territories. Using full-color screen shots, this visually rich guide provides step-by-step instructions that show you how to get the most out of the myriad tools and features LinkedIn has to offer. The book is organized for quick, easy navigation, and written in clear, concise language that allows you to get up to speed quickly. LinkedIn has become the premier destination both for

those seeking employment, and those looking to employ others. A professional take on social media, the site allows users to post resume-like profiles and network with others in their fields, connecting with past, present, and potentially future colleagues. LinkedIn is growing at a rate of two users per second, making it a major hub and networking tool for those looking to establish, maintain, or grow a professional network. This guide discusses the purpose and benefits of LinkedIn, and shows you how to set up a professional profile that will stand out from the crowd. Topics include: Setting up your account Adding endorsements and recommendations Networking with colleagues Posting status updates Showing off your strengths, talents, and accomplishments is an important part of networking, and interacting with others in your industry is an excellent way to get your name out there and make new contacts. LinkedIn facilitates both, allowing you to broaden your reach without leaving your desk. Teach Yourself VISUALLY LinkedIn helps you get on board today. The popularity of Android mobile phones has caused more cybercriminals to create malware applications that carry out various malicious activities. The attacks, which escalated after the COVID-19 pandemic, proved there is great importance in protecting Android mobile devices from malware attacks. Intelligent Mobile Malware Detection will teach users how to develop intelligent Android malware detection mechanisms by using various graph and stochastic models. The book begins with an introduction to the Android operating system accompanied by the limitations of the state-of-the-art static malware detection mechanisms as well as a detailed presentation of a hybrid malware detection mechanism. The text then presents four different system call-based dynamic Android malware detection mechanisms using graph centrality measures, graph signal processing and graph convolutional networks. Further, the text shows how most of the Android malware can be detected by checking the presence of a unique subsequence of system calls in its system call sequence. All the malware detection mechanisms presented in the book are based on the authors' recent research. The experiments are conducted with the latest Android malware samples, and the malware samples are collected from public repositories. The source codes are also provided for easy implementation of the mechanisms. This book will be highly useful to Android malware researchers, developers, students and cyber security professionals to explore and build defense mechanisms against the ever-evolving Android malware. Millions of computers around the world today are connected by the Internet, so why is it still so hard to hook up a few PCs in you own home? Whether you want to share an Internet connection, install WiFi, or maybe just cut down on the number of printers you own, home networks are supposed to help make your life easier. Instead, most aspiring home networkers get lost in a confusing maze of terms and technologies: 802.11g, Fast Ethernet, Cat 5 cable (or was it Cat 5e?), Powerline, and on and confusingly on. That's where Home Networking: The Missing Manual comes in. Using clear language, straightforward explanations, and a dash of humor, this book shows you how to do everything you need to set up a home network. Coverage includes: WiFi, Ethernet, or Powerline? There are several kinds of digital pipes that you can use to create your network, and none of them have friendly names. This book tells you what they are, explains the pros and cons of each, and helps you figure out what you need to buy, and how to install it. Windows and Mac info included. Half the battle in home networking takes place after you've bought your gear and plugged it in. That's because the routers, network adapters, and cables that you need get you only part way towards networking nirvana. Whether you've got PCs or Macs or both, you'll need help tweaking your computers' settings if you want to get all your machines talking to each other. This book covers most known operating system flavors, including Windows XP, 2000, Me, and 98, and Mac OS X and OS 9. Fun things to do with your network. The real fun starts once your network is up and running. This book shows you how to do much more than simply share an Internet connection and a printer. You'll learn how to stream music from your PCs to your stereo, how to display pictures on your TV, how to hook up game consoles to your network, and more! Most important, this book helps you understand the difference between what you need to know to create and use your home network and what's best left to those looking for a career as a system administrator. In Home Networking: The Missing Manual you'll find everything you need to get your network running-and nothing more. Agricultural automation is the emerging technologies which heavily rely on computer-integrated management and advanced control systems. The tedious farming tasks had been taken over by agricultural machines in last century, in new millennium, computer-aided systems, automation, and robotics has been applied to precisely manage agricultural production system. With agricultural automation technologies, sustainable agriculture is being developed based on efficient use of land, increased conservation of water, fertilizer and energy resources. The agricultural automation

technologies refer to related areas in sensing & perception, reasoning & learning, data communication, and task planning & execution. Since the literature on this diverse subject is widely scattered, it is necessary to review current status and capture the future challenges through a comprehensive monograph. In this book we focus on agricultural automation and provide critical reviews of advanced control technologies, their merits and limitations, application areas and research opportunities for further development. This collection thus serves as an authoritative treatise that can help researchers, engineers, educators, and students in the field of sensing, control, and automation technologies for production agriculture.

Switching to the Mac? Awesome! You've got company—lots of it! And with this book, you've got help, too... all the help you'll ever need! MacMost.com founder Gary Rosenzweig quickly gets you comfy with your new Mac, demonstrates the "Mac way" to perform every common Windows task, and shows how to do more with Macs than you ever could in Windows... way more! It's all here—everything from choosing the right Mac to creating your own videos and DVDs. Rosenzweig covers the latest Macs and the new Mac OS X 10.6 Snow Leopard operating system. Best of all, he focuses on what today's computer users need to know, including loads of coverage of using your Mac on the Web. Every Mac switcher needs a friendly Mac expert to show them the ropes. With this book, you've got yours! Discover what's different about your Mac's hardware and software—and what's similar, too

Navigate the Finder and learn how Mac files are organized
Make the most of the Mac's built-in applications
Move your stuff from your PC to your new Mac
Use Safari, Mac's great built-in Web browser
Set up Mac email, instant messaging, and audio and video chatting
Share, back up, and archive your files
Choose and use Mac business and productivity applications
Organize your music and buy new songs with iTunes
Import, manage, edit, and share your photos
Create awesome videos with iMovie, QuickTime, and iDVD
Run Windows on your Mac, if you must
Keep your Mac up to date and running smoothly

Cyber Physical Systems: Architectures, Protocols and Applications helps you understand the basic principles and key supporting standards of CPS. It analyzes different CPS applications from the bottom up, extracting the common characters that form a vertical structure. It presents mobile sensing platforms and their applications toward interrelated paradigms, highlighting and briefly discussing different types of mobile sensing platforms and the functionalities they offer. It then looks at the naming, addressing, and profile services of CPS and proposes a middleware component to meet the requirements of dynamic applications and sensors/actuators deployment/configurations across different platforms. The middle chapters of the book present a context-aware sensor search, selection, and ranking model which addresses the challenge of efficiently selecting a subset of relevant sensors out of a large set of sensors with similar functionality and capabilities. The authors consider various topics in the energy management of CPS and propose a novel energy-efficient framework. They also present the fundamental networking technologies of CPS and focus on machine-to-machine communications for CPS, specifically the open technologies such as IPv6-based solutions that can be integrated into IoT and enable wireless sensor communications. In the book's final chapters, the authors bring you up to date on mobile cloud computing (MCC) research activities that enhance the capabilities of resource-constrained smart devices in CPS sensory environments. They also present a few representative CPS applications, including connected healthcare, gaming in public transport crowds, and a series of MCC-enabled emerging CPS applications. You will find that these application fields fully demonstrate the great potential of applying CPS in public life.

The NAB Engineering Handbook is the definitive resource for broadcast engineers. It provides in-depth information about each aspect of the broadcast chain from audio and video contribution through an entire broadcast facility all the way to the antenna. New topics include Ultra High Definition Television, Internet Radio Interfacing and Streaming, ATSC 3.0, Digital Audio Compression Techniques, Digital Television Audio Loudness Management, and Video Format and Standards Conversion. Important updates have been made to incumbent topics such as AM, Shortwave, FM and Television Transmitting Systems, Studio Lighting, Cameras, and Principles of Acoustics. The big-picture, comprehensive nature of the NAB Engineering Handbook will appeal to all broadcast engineers—everyone from broadcast chief engineers, who need expanded knowledge of all the specialized areas they encounter in the field, to technologists in specialized fields like IT and RF who are interested in learning about unfamiliar topics. Chapters are written to be accessible and easy to understand by all levels of engineers and technicians. A wide range of related topics that engineers and technical managers need to understand are covered, including broadcast documentation, FCC practices, technical standards, security, safety, disaster planning, facility planning, project management, and engineering management. The

main objective of the ICITMS 2012 is to provide a platform for researchers, engineers, academics and industrial professionals from all over the world to present their research results and development activities in Information Technology and Management Science. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration. A comprehensive overview of the Internet of Things' core concepts, technologies, and applications Internet of Things A to Z offers a holistic approach to the Internet of Things (IoT) model. The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet-like structure. Recently, there has been a rapid growth in research on IoT communications and networks, that confirms the scalability and broad reach of the core concepts. With contributions from a panel of international experts, the text offers insight into the ideas, technologies, and applications of this subject. The authors discuss recent developments in the field and the most current and emerging trends in IoT. In addition, the text is filled with examples of innovative applications and real-world case studies. Internet of Things A to Z fills the need for an up-to-date volume on the topic. This important book: Covers in great detail the core concepts, enabling technologies, and implications of the Internet of Things Addresses the business, social, and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia, industry, and research Written for ICT researchers, industry professionals, and lifetime IT learners as well as academics and students, Internet of Things A to Z provides a much-needed and comprehensive resource to this burgeoning field. As more and more devices become interconnected through the Internet of Things (IoT), there is an even greater need for this book, which explains the technology, the internetworking, and applications that are making IoT an everyday reality. The book begins with a discussion of IoT "ecosystems" and the technology that enables them, which includes: Wireless Infrastructure and Service Discovery Protocols Integration Technologies and Tools Application and Analytics Enablement Platforms A chapter on next-generation cloud infrastructure explains hosting IoT platforms and applications. A chapter on data analytics throws light on IoT data collection, storage, translation, real-time processing, mining, and analysis, all of which can yield actionable insights from the data collected by IoT applications. There is also a chapter on edge/fog computing. The second half of the book presents various IoT ecosystem use cases. One chapter discusses smart airports and highlights the role of IoT integration. It explains how mobile devices, mobile technology, wearables, RFID sensors, and beacons work together as the core technologies of a smart airport. Integrating these components into the airport ecosystem is examined in detail, and use cases and real-life examples illustrate this IoT ecosystem in operation. Another in-depth look is on envisioning smart healthcare systems in a connected world. This chapter focuses on the requirements, promising applications, and roles of cloud computing and data analytics. The book also examines smart homes, smart cities, and smart governments. The book concludes with a chapter on IoT security and privacy. This chapter examines the emerging security and privacy requirements of IoT environments. The security issues and an assortment of surmounting techniques and best practices are also discussed in this chapter. Finally, there is a guide to home networking that was written for true beginners! The Absolute Beginner's Guide to Home Networking goes far beyond traditional printer or Internet sharing and is geared to help you understand home network types and concepts, install, configure and interconnect various types of wired and wireless networks. This easy-to-understand guide will help you achieve the desired goals of entertainment, information access and home security control with Windows, MacOS and Linux-based systems. Soon you will learn to share and enhance entertainment and even integrate business network hardware with a home network to exploit telecommuting, work-from-home and remote education opportunities. Provides an in-depth coverage of TV White Space Technology (TVWS) and the various challenges of its new innovations This book covers the full spectrum of TVWS technology including regulations, technology, standardizations, and worldwide deployments. It begins with an introduction to cognitive radio and TVWS. The regulation activities in TVWS throughout North America, Europe, and Asia Pacific are covered in depth. After a discussion of regulations, the authors examine the standardizations developed to specify the enabling technologies of TVWS systems. The following chapter focuses on the key technologies that differentiate TVWS from a conventional wireless communication system. Describes various worldwide use cases and deployments based on the needs of the consumers Covers IEEE 802.19.1, IEEE 802.22,

IEEE 802.11af, IEEE 802.15.4m, and IETF protocol for Accessing White Spaces Studies the market and commercial potential of TVWS and other spectrum sharing technologies Discusses technological trends in spectrum sharing and additional applications that could leverage on TVWS and other spectrum sharing technologies TV White Space: The First Step Towards Better Utilization of Frequency Spectrum is written for telecommunications/networks operators, researchers, engineers, government regulators, technical managers, and network equipment manufacturers. The concept of Smart Cities is accurately regarded as a potentially transformative power all over the world. Bustling metropolises infused with the right combination of the Internet of Things, artificial intelligence, big data, and blockchain promise to improve both our daily lives and larger structural operations at a city government level. The practical realities pose challenges that a significant sector of the tech industry now revolves around solving. Cut through the hype with Demystifying Smart Cities. In this book, the real-world implementations of successful Smart City technology in places like New York, Amsterdam, Copenhagen, and more are analyzed, and insights are gained from recorded attempts in similar urban centers that have not reached their full Smart City potential. From the logistical complications of securing thousands of devices to collect millions of pieces of data daily, to the complicated governmental processes that are required to install Smart City tech, Demystifying Smart Cities covers every aspect of this revolutionary modern technology. This book is the essential guide for anybody who touches a step of the Smart City process—from salespeople representing product vendors to city government officials to data scientists—and provides a more well-rounded understanding of the full positive and negative impacts of Smart City technology deployment. Demystifying Smart Cities evaluates how our cities can behave in a more intelligent way, and how producing novel solutions can pose equally novel challenges. The future of the metropolis is here, and the expert knowledge in the book is your greatest asset. What You'll Learn Practical issues and challenges of managing thousands and millions of IoT devices in a city The different types of city data and how to manage and secure it The possibilities of utilizing AI into a city (and how it differs from working with the private sector) Examples of how to make cities smarter with technology Who This Book Is For Primarily for those already familiar with the hype of smart city technologies but not the details of its implementation, along with technologists interested in learning how city government works when integrating technology. Also, people working for smart city vendors, especially sales people and product managers who need to understand their target market. Join the digital audio revolution! Tens of millions of users are embracing digital music, and with Digital Audio Essentials, you can, too. Nearly every personal computer built in the last few years contains a CD-burning drive; MP3 and other portable player sales dominate the consumer electronics industry; and new networkable stereo equipment lets you use your digital music collection to power your home entertainment system. Whether it's downloading music, ripping CDs, organizing, finding, and creating higher quality music files, buying music players and accessories, or constructing a home stereo system, Digital Audio Essentials helps you do get it done. An indispensable reference for music enthusiasts, digital archivists, amateur musicians, and anyone who likes a good groove, Digital Audio Essentials helps you avoid time-consuming, costly trial and error in downloading audio files, burning CDs, converting analog music to digital form, publishing music to and streaming from the Web, setting up home stereo configurations, and creating your own MP3 and other audio files. The book--for both Mac and PC users--includes reliable hardware and software recommendations, tutorials, resources, and file sharing, and it even explains the basics of the DMCA and intellectual property law. You may (or may not) already know the basics of ripping CDs or downloading music, but Fries will show you so much more--including advice on the multitude of MP3 players on the market, stereo options, file formats, quality determinations, and the legalities of it all. Both a timely, entertaining guide and an enduring reference, this is the digital audio handbook you need to make the most of your expanding digital music collection. A comprehensive guide to the theory, practice and applications of optical tweezers, combining state-of-the-art research with a strong pedagogic approach. Internet of Things: Challenges, Advances, and Applications provides a comprehensive introduction to IoT, related technologies, and common issues in the adoption of IoT on a large scale. It surveys recent technological advances and novel solutions for challenges in the IoT environment. Moreover, it provides detailed discussion of the utilization of IoT and its underlying technologies in critical application areas, such as smart grids, healthcare, insurance, and the automotive industry. The chapters of this book are authored by several international researchers and industry experts. This book is composed of 18 self-contained chapters that can be read, based on interest.

Features: Introduces IoT, including its history, common definitions, underlying technologies, and challenges Discusses technological advances in IoT and implementation considerations Proposes novel solutions for common implementation issues Explores critical application domains, including large-scale electric power distribution networks, smart water and gas grids, healthcare and e-Health applications, and the insurance and automotive industries The book is an excellent reference for researchers and post-graduate students working in the area of IoT, or related areas. It also targets IT professionals interested in gaining deeper knowledge of IoT, its challenges, and application areas. Precision Agriculture presents the latest scientific results from worldwide research, field studies and practical application. The book contains peer-reviewed papers that were presented at the 4th European Conference on Precision Agriculture. The papers focus on precision agriculture research containing interdisciplinary site analysis, integrative measures and management strategies as well as on practical applications. The economic and environmental effects of implementing the precision agriculture concept are featured in many of them. The unique feature of the fourth conference was that it was held in parallel with the 1st European Conference on Precision Livestock Farming - the links between both technologies were drawn and the possible interactions between them were shown for the first time. The potential is to integrate both technologies to encompass the whole farm. Peer-reviewed papers from the Precision Livestock conference are presented in a companion proceedings, Precision Livestock Farming. This book presents a detailed description, analysis, comparison of the latest research and developments in photovoltaic energy. Discussing everything from semiconductors to system integration, and applying various advanced technologies to stand alone and electric utility interfaced in normal and abnormal operating conditions of PV systems, this book provides a thorough introduction to the topic. This book brings together research from around the world, covering the use of technologies such as embedded systems, the Internet of things and blockchain technologies for PV systems for different applications including controllers, solar trackers and cooling systems. The book is of interest to electronic and mechanical engineers, researchers and students in the field of photovoltaics. "An introduction to network design with switches"--Cover. Ethernet Networks, Fourth Edition, provides everything you need to know to plan, implement, manage and upgrade Ethernet networks. * Improve your skills in employing Ethernet hubs, switches, and routers. * Learn how to set up and operate a wireless Local Area Network (LAN). * Discover how to extend a wired Ethernet via wireless LANs. * Understand cabling standards and the role of NEXT (Near End Crosstalk), FEXT (Far End Crosstalk) and other transmission parameters. * Profit from Gilbert Held's tips and tricks on enhancing security ... and much more. This indispensable resource features up-to-date coverage of: * Wireless Ethernet (IEEE802.11 standards) * 10Gbps Ethernet * Firewalls in both a wired and wireless environment * The operation of new versions of Windows(r) on Ethernet LANs * The use of LAN switches at and above layer 2 in the ISO reference model * Copper and fiber optic cable to transport high speed Ethernet Network planners, administrators, and system engineers working with Ethernet networks will find Ethernet Networks, Fourth Edition, an invaluable tool for implementing, updating, and managing their networks. The growth of Internet use and technologies has increased exponentially within the business sector. When utilized properly, these applications can enhance business functions and make them easier to perform. Exploring the Convergence of Big Data and the Internet of Things is a pivotal reference source featuring the latest empirical research on the business use of computing devices to send and receive data in conjunction with analytic applications to reduce maintenance costs, avoid equipment failures, and improve business operations. Including research on a broad range of topics such as supply chain, aquaculture, and speech recognition systems, this book is ideally designed for researchers, academicians, and practitioners seeking current research on various technology uses in business. This timely volume provides a review of the state-of-the-art frameworks and methodologies for connecting diverse objects and devices according to the vision for an Internet of Things (IoT). A specific focus is placed on the communication, security, and privacy aspects of device connectivity in distributed environments. Insights and case studies are provided by an authoritative selection of contributors of international repute into the latest research advances and practical approaches with respect to the connectivity of heterogeneous smart and sensory devices. Topics and features: Examines aspects of device connectivity within the IoT Presents a resource-based architecture for IoT, and proposes a resource management framework for corporate device clouds Reviews integration approaches for the IoT environment, and discusses performance optimization of intelligent home networks Introduces a novel solution for interoperable data management in multi-clouds, and suggests

an approach that addresses the debate over network neutrality in the IoT Describes issues of data security, privacy, access control, and authentication in the distributed IoT environment Reviews the evolution of VANETs in relation to the Internet of Vehicles, and provides a perspective on developing smart sustainable cities This invaluable text/reference will be of great benefit to a broad audience, from students and researchers interested in the IoT vision, to practicing communication engineers and network security specialists. "The book is intended to clarify the hype, which surrounds the concept of mobile multimedia through introducing the idea in a clear and understandable way, with a strong focus on mobile solutions and applications"--Provided by publisher.

Electronics and Communications for Scientists and Engineers, Second Edition, offers a valuable and unique overview on the basics of electronic technology and the internet. Class-tested over many years with students at Northwestern University, this useful text covers the essential electronics and communications topics for students and practitioners in engineering, physics, chemistry, and other applied sciences. It describes the electronic underpinnings of the World Wide Web and explains the basics of digital technology, including computing and communications, circuits, analog and digital electronics, as well as special topics such as operational amplifiers, data compression, ultra high definition TV, artificial intelligence, and quantum computers. Incorporates comprehensive updates and expanded material in all chapters where appropriate Includes new problems added throughout the text Features an updated section on RLC circuits Presents revised and new content in Chapters 7, 8, and 9 on digital systems, showing the many changes and rapid progress in these areas since 2000 What can you do with the Raspberry Pi, the affordable computer the size of a credit card? All sorts of things! If you're learning how to program--or looking to build new electronic projects, this hands-on guide will show you just how valuable this flexible little platform can be. Updated to include coverage of the Raspberry Pi Model B+, Getting Started with Raspberry Pi takes you step-by-step through many fun and educational possibilities. Take advantage of several preloaded programming languages. Use the Raspberry Pi with Arduino. Create Internet-connected projects. Play with multimedia. With Raspberry Pi, you can do all of this and more. In Getting Started with Raspberry Pi, you'll: Get acquainted with hardware features on the Pi's board Learn enough Linux to move around the operating system Start programming in Python and Scratch Draw graphics, play sounds, and handle mouse events with Pygame Use the Pi's input and output pins to do some hardware hacking Discover how Arduino and the Raspberry Pi can work together Create your own Pi-based web server with Python Work with the Raspberry Pi Camera Module and USB webcams With near-universal internet access and ever-advancing electronic devices, the ability to facilitate interactions between various hardware and software provides endless possibilities. Though internet of things (IoT) technology is becoming more popular among individual users and companies, more potential applications of this technology are being sought every day. There is a need for studies and reviews that discuss the methodologies, concepts, and possible problems of a technology that requires little or no human interaction between systems. The Handbook of Research on the Internet of Things Applications in Robotics and Automation is a pivotal reference source on the methods and uses of advancing IoT technology. While highlighting topics including traffic information systems, home security, and automatic parking, this book is ideally designed for network analysts, telecommunication system designers, engineers, academicians, technology specialists, practitioners, researchers, students, and software developers seeking current research on the trends and functions of this life-changing technology. Interest in control of climbing and walking robots has remarkably increased over the years. Novel solutions of complex mechanical systems such as climbing, walking, flying and running robots with different kinds of locomotion and the technologies that support them and their applications are the evidence of significant progress in the area of robotics. Supporting technologies include the means by which robots use to sense, model, and navigate through their environments and, of course, actuation and control technologies. Human interaction including exoskeletons, prostheses and orthoses, as well as service robots, are increasingly active important pertinent areas of research. In addition, legged machines and tracked platforms with software architecture seem to be currently the research idea of most interest to the robotics community. Contents:Plenary PresentationsAssistive RobotsAutonomous RobotsBiologically-Inspired Systems and SolutionsInnovative Design of CLAWARInnovative Sensing and ActuationLocomotionManipulation and GrippingManufacturing, Construction and Underwater RobotsMedical and Rehabilitation RobotsModelling and Simulation of CLAWARPerception, Localisation, Planning and ControlService RobotsRobot Ethics Readership: Systems and control engineers, electrical

engineers, mechanical engineers in academic, research and industrial settings. Engineers and practitioners in the public services sectors in health care, manufacturing, supply and delivery services. Key Features: The book will contain extended versions of the conference presentations. Contrary to typical proceedings collections it has an extended form of presentation — particular chapters will contain exhaustive descriptions of the solved problems. It is intended that the Conference is the forum of technical discussion and interchange of ideas for people both from universities and industry. Because of this it is addressed to a wide group of readers: researchers, PhD students and practitioners. Prominent professors deliver plenary presentations. Keywords: Assistive Robotics; Autonomous Robots; Biologically Inspired Robotics; CLAWAR; Climbing and Walking Robots; Design of CLAWAR; Hybrid Locomotion; Legged Locomotion; Mobile Robots; Modeling and Simulation; Planning and Control; Robot Standardization; Service Robotics; Wheeled Locomotion. Discover what it takes to build and manage Ethernet networks. This practical book covers a wide range of Ethernet technology, from basic Ethernet operation to network management, based on the authors' years of experience in the field. You'll learn the answers to common questions such as: What can I do to make sure that my Ethernet network works as well as possible? When do I need to upgrade to higher speed Ethernet and how do I do that? How do Ethernet switches work, and how can I use them to build larger networks? How can I manage the network, what problems should I be looking for, and how can I troubleshoot the system when problems arise? This thoroughly revised second edition includes descriptions of the most widely used Ethernet media systems, including 10, 40 and 100 Gigabit Ethernet, as well as a complete glossary of terms used throughout the book, and a resource list. The all-in-one guide to buying, using, securing, and transporting a laptop—it's ten books in one! If you want to take a computer with you on a trip, to a coffee shop, or into the kitchen when you're cooking, laptops are just the ticket. They're portable, powerful, and popular—but they're not desktops, so you'll want to know what you're doing from the get-go. This terrific, ten-minibooks-in-one book covers all the bases: how to choose the best laptop for you, what you need to know when you're on the road, how to get more productive and more. Shows you how to keep your laptop running smoothly and safely at home, at work, in the classroom, and on the road. Includes ten books in one: Choosing the Best Laptop, Setting Up Your Laptop, Running Basic Windows Operations, Using Common Applications, Playing with Multimedia, Managing Your Power Supply, Upgrading Your Laptop, Networking and Linking to the Internet, Protecting Your Laptop, and Troubleshooting Common Problems. Offers advice and tips on using your laptop safely and efficiently, including what accessories you need. Reflects the very latest technologies, including Windows 7 and the new Microsoft Office 2010. This easy-to-follow For Dummies guide tells you everything you need to know about laptops! To facilitate scalability and resilience, many organizations now run applications in cloud native environments using containers and orchestration. But how do you know if the deployment is secure? This practical book examines key underlying technologies to help developers, operators, and security professionals assess security risks and determine appropriate solutions. Author Liz Rice, Chief Open Source Officer at Isovalent, looks at how the building blocks commonly used in container-based systems are constructed in Linux. You'll understand what's happening when you deploy containers and learn how to assess potential security risks that could affect your deployments. If you run container applications with kubectl or docker and use Linux command-line tools such as ps and grep, you're ready to get started. Explore attack vectors that affect container deployments. Dive into the Linux constructs that underpin containers. Examine measures for hardening containers. Understand how misconfigurations can compromise container isolation. Learn best practices for building container images. Identify container images that have known software vulnerabilities. Leverage secure connections between containers. Use security tooling to prevent attacks on your deployment. Modeling, Simulation, Design and Engineering of WDM Systems and Networks provides readers with the basic skills, concepts, and design techniques used to begin design and engineering of optical communication systems and networks at various layers. The latest semi-analytical system simulation techniques are applied to optical WDM systems and networks, and a review of the various current areas of optical communications is presented. Simulation is mixed with experimental verification and engineering to present the industry as well as state-of-the-art research. This contributed volume is divided into three parts, accommodating different readers interested in various types of networks and applications. The first part of the book presents modeling approaches and simulation tools mainly for the physical layer (including transmission effects, devices, subsystems, and systems), whereas the second part features more engineering/design issues for

various types of optical systems including ULH, access, and in-building systems. The third part of the book covers networking issues related to the design of provisioning and survivability algorithms for impairment-aware and multi-domain networks. Intended for professional scientists, company engineers, and university researchers, the text demonstrates the effectiveness of computer-aided design when it comes to network engineering and prototyping. Exam Board: Edexcel Level: GCSE Subject: Computer Science First Teaching: September 2016 First Exam: Summer 2018 Build student confidence and ensure successful progress through GCSE Computer Science. Our expert author provides insight and guidance to meet the demands of the new Edexcel specification, with challenging tasks and activities to test the computational skills and knowledge required completing the exams and the non-examined assessment. - Builds students' knowledge and confidence through detailed topic coverage and explanation of key points to match important Edexcel concepts - Develops computational thinking skills with practice exercises and problem-solving tasks - Ensures progression through GCSE with regular assessment questions, that can be developed with supporting Dynamic Learning digital resources - Instils a deeper understanding and awareness of computer science, and its applications and implications in the wider world

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