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ZIGBEE WIRELESS NETWORKING

Newnes **ZigBee** is a standard based on the IEEE 802.15.4 standard for wireless personal networks. This standard allows for the creation of very low cost and low power networks - these applications run for years rather than months. These networks are created from sensors and actuators and can wireless control many electrical products such as remote controls, medical, industrial, and security sensors. Hundreds of companies are creating applications including Mitsubishi, Motorola, Freescale, and Siemens. This book is written for engineers who plan to develop ZigBee applications and networks, to understand how they work, and to evaluate this technology to see if it is appropriate to a particular project. This book does not simply state facts but explains what ZigBee can do through detailed code examples. *Details how to plan and develop applications and networks *Zigbee sensors have many applications including industrial automation, medical sensing, remote controls, and security *Hot topic for today's electrical engineer because it is low cost and low power

THE ILLUSTRATED GUIDE TO ASSISTIVE TECHNOLOGY & DEVICES

TOOLS AND GADGETS FOR LIVING INDEPENDENTLY

Demos Medical Publishing **A Doody's Core Title 2012** This new illustrated guide to assistive technologies and devices chronicles the use of AT/AD - technology used by individuals with disabilities to perform functions that might otherwise be difficult or impossible. This book empowers people to use assistive technologies to overcome some of their physical or mental limitations and have a more equal playing field. It includes real-life examples about how people with disabilities are using assistive technology (AT) to assist them in daily tasks, and discusses emotional issues related to AT/AD.

PCI EXPRESS SYSTEM ARCHITECTURE

Addison-Wesley Professional ••**PCI EXPRESS** is considered to be the most general purpose bus so it should appeal to a wide audience in this arena. •Today's buses are becoming more specialized to meet the needs of the particular system applications, building the need for this book. •Mindshare and their only competitor in this space, Solari, team up in this new book.

MS OFFICE

BEIJING BOOK CO. INC. MS Office Windows 7 Word 2010 Excel 2010 PowerPoint 2010 Office

WIPO TECHNOLOGY TRENDS 2019 - ARTIFICIAL INTELLIGENCE

WIPO The first report in a new flagship series, *WIPO Technology Trends*, aims to shed light on the trends in innovation in artificial intelligence since the field first developed in the 1950s.

ADVANCES IN CYBERNETICS, COGNITION, AND MACHINE LEARNING FOR COMMUNICATION TECHNOLOGIES

Springer Nature This book highlights recent advances in Cybernetics, Machine Learning and Cognitive Science applied to Communications Engineering and Technologies, and presents high-quality research conducted by experts in this area. It provides a valuable reference guide for students, researchers and industry practitioners who want to keep abreast of the latest developments in this dynamic, exciting and interesting research field of communication engineering, driven by next-generation IT-enabled techniques. The book will also benefit practitioners whose work involves the development of communication systems using advanced cybernetics, data processing, swarm intelligence and cyber-physical systems; applied mathematicians; and developers of embedded and real-time systems. Moreover, it shares insights into applying concepts from Machine Learning, Cognitive Science, Cybernetics and other areas of artificial intelligence to wireless and mobile systems, control systems and biomedical engineering.

INTERNET OF THINGS AND BIG DATA ANALYTICS TOWARD NEXT-GENERATION INTELLIGENCE

Springer This book highlights state-of-the-art research on big data and the Internet of Things (IoT), along with related areas to ensure efficient and Internet-compatible IoT systems. It not only discusses big data security and privacy challenges, but also energy-efficient approaches to improving virtual machine placement in cloud computing environments. Big data and the Internet of Things (IoT) are ultimately two sides of the same coin, yet extracting,

analyzing and managing IoT data poses a serious challenge. Accordingly, proper analytics infrastructures/platforms should be used to analyze IoT data. Information technology (IT) allows people to upload, retrieve, store and collect information, which ultimately forms big data. The use of big data analytics has grown tremendously in just the past few years. At the same time, the IoT has entered the public consciousness, sparking people's imaginations as to what a fully connected world can offer. Further, the book discusses the analysis of real-time big data to derive actionable intelligence in enterprise applications in several domains, such as in industry and agriculture. It explores possible automated solutions in daily life, including structures for smart cities and automated home systems based on IoT technology, as well as health care systems that manage large amounts of data (big data) to improve clinical decisions. The book addresses the security and privacy of the IoT and big data technologies, while also revealing the impact of IoT technologies on several scenarios in smart cities design. Intended as a comprehensive introduction, it offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in IoT and big data technologies.

DIGITAL FUTURES

MAKING HOMES SMARTER

UNIVERSAL DESIGN HANDBOOK, 2E

McGraw Hill Professional **The Latest Advances in Universal Design** Thoroughly updated and packed with examples of global standards and design solutions, *Universal Design Handbook, Second Edition*, covers the full scope of universal design, discussing how to develop media, products, buildings, and infrastructure for the widest range of human needs, preferences, and functioning. This pioneering work brings together a rich variety of expertise from around the world to discuss the extraordinary growth and changes in the universal design movement. The book provides an overview of universal design premises and perspectives, and performance-based design criteria and guidelines. Public and private spaces, products, and technologies are covered, and current and emerging research and teaching are explored. This unique resource includes analyses of historical and contemporary universal design issues from seven different countries, as well as a look at future trends. Students, advocates, policy makers, and design practitioners will get a theoretical grounding in and practical reference on the physical and social roles of design from this definitive volume. **UNIVERSAL DESIGN HANDBOOK, SECOND EDITION, COVERS:** United Nations Convention on the Rights of Persons with Disabilities U.S. accessibility codes and standards, including the Americans with Disabilities Act (ADA) Life safety standards and guidelines Universal design implementations in Norway, Japan, France, Germany, Brazil, Italy and the Old City of Jerusalem Planning ADA implementation in public educational institutions Urban scale and mass transportation universal design Designing inclusive experiences, including outdoor play settings Office and workspace design Universal design in home building and remodeling Products and technologies, including autos, web access, media, and digital content Universal design research initiatives, education, and performance assessments

ARCHITECTS' DATA

Wiley-Blackwell This is an essential aid in the initial design and planning of a project. The relevant building type is located by a comprehensive index and cross reference system, a condensed commentary covers user requirements, planning criteria, basic dimensions and other considerations of function, siting aspect etc. A system of references based on an extensive bibliography supports the text. In every section plans, sections, site layouts, design details and graphs illustrated key aspects of a building type's design. Most illustrations are dimensioned or scaled - the metric system of measurement is used throughout, and the equivalent in feet/inches can easily be read either off a graphic scale on the page or from the built-in conversion table. The illustrations are international in origin and include both well know and less famous designers. *Architects Data* is primarily a handbook of building types rather than of construction techniques and details. However its treatment of components (such as doors and windows) and of spaces for building services is extremely thorough, since consideration of this data is an essential element of the planning process. The opening pages of basic data on man and his buildings cover critical subjects such as scale, drawing practice, noise, light and space for the same reason. Particular attention has also been paid to the implications of energy conservation, means of escape from fire and the needs of the elderly and the disabled.

ELECTRONIC PORTABLE INSTRUMENTS

DESIGN AND APPLICATIONS

CRC Press With the availability of advanced technologies, digital systems, and communications, portable instruments are rapidly evolving from simple, stand alone, low-accuracy measuring instruments to complex multifunctional, network integrated, high-performance digital devices with advanced interface capabilities. The relatively brief treatments these instruments receive in many books are no longer adequate. Designers, engineers and scientists need a comprehensive reference dedicated to electronic portable instruments that explains the state-of-art and future directions. *Electronic Portable Instruments: Design and Applications* introduces the basic measurement and instrumentation concepts, describes the operating principles, and discusses the typical specifications of three main groups of portable instruments: Portable and handheld instruments built for specific applications Intelligent sensor-based devices with few components and dedicated features, such as implantable medical devices Portable data systems containing fixed sensors and supporting mechanisms, but equipped with advanced communications capabilities, such as mobile weather stations The author discusses sensors suitable for these instruments, addresses

how components are selected, and clearly shows that instrument design centers on trade-offs between costs, performance, size and weight, power consumption, interface options, ruggedness, and the ability to operate in a range of environments. A multitude of tables, formulae, and figures--many in full color--enhance the presentation. Numerous examples of applications demonstrate the current diversity of these devices and point the way to future trends in development and applications.

THE SECRET WAR: SPIES, CODES AND GUERRILLAS 1939-1945

HarperCollins UK 'As gripping as any spy thriller, Hastings's achievement is especially impressive, for he has produced the best single volume yet written on the subject' *Sunday Times* 'Authoritative, exciting and notably well written' *Daily Telegraph* 'A serious work of rigorous and comprehensive history ... royally entertaining and readable' *Mail on Sunday*

OFFSHORE RENEWABLE ENERGY: OCEAN WAVES, TIDES AND OFFSHORE WIND

MDPI This book is a printed edition of the Special Issue "Offshore Renewable Energy: Ocean Waves, Tides and Offshore Wind" that was published in *Energies*

DIGITAL CONTENT CREATION

Springer Science & Business Media The very word "digital" has acquired a status that far exceeds its humble dictionary definition. Even the prefix digital, when associated with familiar sectors such as radio, television, photography and telecommunications, has reinvented these industries, and provided a unique opportunity to refresh them with new start-up companies, equipment, personnel, training and working practices - all of which are vital to modern national and international economies. The last century was a period in which new media stimulated new job opportunities, and in many cases created totally new sectors: video competed with film, CDs transformed LPs, and computer graphics threatened traditional graphic design sectors. Today, even the need for a physical medium is in question. The virtual digital domain allows the capture, processing, transmission, storage, retrieval and display of text, images, audio and animation without familiar materials such as paper, celluloid, magnetic tape and plastic. But moving from these media to the digital domain introduces all sorts of problems, such as the conversion of analog archives, multimedia databases, content-based retrieval and the design of new content that exploits the benefits offered by digital systems. It is this issue of digital content creation that we address in this book. Authors from around the world were invited to comment on different aspects of digital content creation, and their contributions form the 23 chapters of this volume.

THE SMART GRID

ENABLING ENERGY EFFICIENCY AND DEMAND RESPONSE

CRC Press The power system has often been cited as the greatest and most complex machine ever built, yet it is predominantly a mechanical system. Technologies and intelligent systems are now available that can significantly enhance the overall functionality of power distribution and make it ready to meet the needs of the 21st century. This book explains how sensors, communications technologies, computational ability, control, and feedback mechanisms can be effectively combined to create this new, continually adjusting "smart grid" system. It provides an understanding of both IntelliGridSM architecture and EnergyPortSM as well as how to integrate intelligent systems to achieve the goals of reliability, cost containment, energy efficiency in power production and delivery, and end-use energy efficiency.

MULTIMEDIA

MAKING IT WORK

Osborne Publishing Thoroughly updated for new breakthroughs in multimedia; The internationally bestselling **Multimedia: Making it Work** has been fully revised and expanded to cover the latest technological advances in multimedia. You will learn to plan and manage multimedia projects, from dynamic CD-ROMs and DVDs to professional websites. Each chapter includes step-by-step instructions, full-color illustrations and screenshots, self-quizzes, and hands-on projects.

HOME NETWORKING

FIRST IFIP WG 6.2 HOME NETWORKING CONFERENCE (IHN'2007), PARIS, FRANCE, DECEMBER 10-12, 2007

Springer Science & Business Media The Home Networking Conference 2007 provided an international technical forum for experts from industry and academia everywhere in the world to exchange ideas and present results of ongoing researches in home networking. The IFIP series publishes state-of-the-art results in the sciences and technologies of information and communication. Proceedings and post-proceedings of referred international conferences in computer science and interdisciplinary fields are featured.

INTERNET OF THINGS AND SMART ENVIRONMENTS

ASSISTIVE TECHNOLOGIES FOR DISABILITY, DEMENTIA, AND AGING

Springer This book is focused on the Internet of Things (IoT) services and smart environments that can be of assistance to the elderly and individuals living with dementia or some sensory impairment. The book outlines the requirements of the systems that aim to furnish some digital sensory or cognitive assistance to the individuals and their caregivers. Internet of Things and Smart Environments: Assistive Technologies for Disability, Dementia, and Aging covers the important evolutions of the IoT, the sensors, actuators, wireless communication and pervasive computing systems, and other enabling technologies that power up this megatrend infrastructure. The use of the IoT-based systems in improving the conventional assistive technologies and provisions of ambient assisted living are also covered. The book takes an impartial, and yet holistic, view to providing research insights and inspirations for more development works in the areas related to assistive IoT. It will show the potentials of using normally available interactive devices, like smartphones or smart TVs, which can be supplemented with low-cost gadgets or apps to provide assistive capabilities. It aims to accentuate the need for taking a comprehensive and combinatory view of the comprising topics and approaches that are based on the visions and ideas from all stakeholders. The book will examine these points and considerations to conclude with recommendations for future development works and research directions. This book can be of value to a diverse array of audience. The researchers and developers in healthcare and medicine, aged care and disability services, as well as those working in the IoT-related fields, may find many parts of this book useful and stimulating. It can be of great value to postgraduate and research students working in these areas. It can also be adapted for use in upper-level classroom courses relevant to communication and smart technologies, IoT applications, and assistive technologies. Many parts of the book can be of interest to the elderly and individuals living with a disability, as well as their families and caregivers. From an industry perspective, it can be of interest to software, hardware, and particularly app developers working on the IoT applications, smart homes and environments, and assistive technologies for the elderly and people living with disability or dementia.

MCMAFIA

A JOURNEY THROUGH THE GLOBAL CRIMINAL UNDERWORLD

House of Anansi Drugs, weapons, migrant labour, women – these are just a few of the many goods that effortlessly cross national borders in this globalized age, often without the knowledge or permission of the nations concerned. How is this remarkable criminal feat managed? From gun runners in the Ukraine, to money launderers in Dubai, cyber criminals in Brazil, racketeers in Japan, and the booming marijuana industry in western Canada, McMafia builds a breathtaking picture of a secret and bloody business. Internationally celebrated writer Misha Glenny crafts a fascinating, highly readable, and impressively well-researched account of the emergence of organized crime as a globalized phenomenon and shows how its secret and bloody business mirrors both the methods and the rewards of the legitimate world economy. Employing his journalistic talent and his prior experience covering organized crime in Eastern Europe, Glenny reports on his travels around the planet to investigate this worrying and worsening situation. After comprehensively surveying the criminal scene, Glenny ends by considering the future of organized crime. McMafia is an important book that assembles all the pieces of this worldwide puzzle for the first time.

NETWORK ALGORITHMICS

AN INTERDISCIPLINARY APPROACH TO DESIGNING FAST NETWORKED DEVICES

Morgan Kaufmann "George Varghese has had a remarkable impact on the real world of networking with his algorithmic innovations over many years. The networking research and development community is fortunate that he has now distilled his knowledge in this very readable, insightful, and much-needed book." --Bruce Davie, Cisco Fellow, Cisco Systems "This book nicely describes implementation tricks for building fast networking stacks, particularly in routers. This is a much needed book, I don't know of any other that covers this sort of implementation advice. George Varghese has invented several techniques to help speed up the Internet and in his book he provides interesting insight into this, and much more." --Radia Perlman, Distinguished Engineer, Sun Microsystems In designing a network device, you make dozens of decisions that affect the speed with which it will perform-sometimes for better, but sometimes for worse. Network Algorithmics provides a complete, coherent methodology for maximizing speed while meeting your other design goals. Author George Varghese begins by laying out the implementation bottlenecks that are most often encountered at four disparate levels of implementation: protocol, OS, hardware, and architecture. He then derives 15 solid principles-ranging from the commonly recognized to the groundbreaking-that are key to breaking these bottlenecks. The rest of the book is devoted to a systematic application of these principles to bottlenecks found specifically in endnodes, interconnect devices, and specialty functions such as security and measurement that can be located anywhere along the network. This immensely practical, clearly presented information will benefit anyone involved with network implementation, as well as students who have made this work their goal. Features Addresses the bottlenecks found in all kinds of network devices, (data copying, control transfer, demultiplexing, timers, and more) and offers ways to break them Presents techniques suitable specifically for endnodes, including Web servers Presents techniques suitable specifically for interconnect devices, including routers, bridges, and gateways Written as a practical guide for implementers but full of valuable insights for students, teachers, and researchers Includes end-of-chapter summaries and exercises (with solutions and lecture slides available online)

ANALOG CIRCUITS COOKBOOK

Elsevier **Analog Circuits Cookbook** is a collection of tried and tested recipes from the masterchef of analog and RF design. Based on articles from *Electronics World*, this book provides a diet of high quality design techniques and applications, and proven circuit designs, all concerned with the analog, RF and interface fields of electronics. Ian Hickman uses illustrations and examples rather than tough mathematical theory to present a wealth of ideas and tips based on his own workbench experience. This second edition includes 10 of Hickman's latest articles, alongside 20 of his most popular classics. The new material includes articles on power supplies, filters using negative resistance, phase noise and video surveillance systems. Essential reading for all circuit design professionals and advanced hobbyists. Contains 10 of Ian Hickman's latest articles, alongside 20 of his most popular classics

DIGITAL TRANSFORMATION AND PUBLIC SERVICES (OPEN ACCESS)

SOCIETAL IMPACTS IN SWEDEN AND BEYOND

Routledge Through a series of studies, the overarching aim of this book is to investigate if and how the digitalization/digital transformation process affects various welfare services provided by the public sector, and the ensuing implications thereof. Ultimately, this book seeks to understand if it is conceivable for digital advancement to result in the creation of private/non-governmental alternatives to welfare services, possibly in a manner that transcends national boundaries. This study also investigates the possible ramifications of technological development for the public sector and the Western welfare society at large. This book takes its point of departure from the 2016 Organization for Economic Co-operation and Development (OECD) report that targets specific public service areas in which government needs to adopt new strategies not to fall behind. Specifically, this report emphasizes the focus on digitalization of health care/social care, education, and protection services, including the use of assistive technologies referred to as "digital welfare." Hence, this book explores the factors potentially leading to whether state actors could be overrun by other non-governmental actors, disrupting the current status quo of welfare services. The book seeks to provide an innovative, enriching, and controversial take on society at large and how various aspects of the public sector can be, and are, affected by the ongoing digitalization process in a way that is not covered by extant literature on the market. This book takes its point of departure in Sweden given the fact that Sweden is one of the most digitalized countries in Europe, according to the Digital Economy and Society Index (DESI), making it a pertinent research case. However, as digitalization transcends national borders, large parts of the subject matter take on an international angle. This includes cases from several other countries around Europe as well as the United States.

COMPUTER SECURITY

ESORICS 2020 INTERNATIONAL WORKSHOPS, CYBERICPS, SECPRE, AND ADIOT, GUILDFORD, UK, SEPTEMBER 14-18, 2020, REVISED SELECTED PAPERS

Springer Nature This book constitutes the refereed post-conference proceedings of the 6th International Workshop on Security of Industrial Control Systems and Cyber-Physical Systems, CyberICPS 2020, the Second International Workshop on Security and Privacy Requirements Engineering, SECPRE 2020, and the Third International Workshop on Attacks and Defenses for Internet-of-Things, ADIoT 2020, held in Guildford, UK, in September 2020 in conjunction with the 25th European Symposium on Research in Computer Security, ESORICS 2020. Due to COVID-19 pandemic the conference was held virtually. The CyberICPS Workshop received 21 submissions from which 5 full papers were selected for presentation. They cover topics related to threats, vulnerabilities and risks that cyber-physical systems and industrial control systems face; cyberattacks that may be launched against such systems; and ways of detecting and responding to such attacks. From the SECPRE Workshop 4 full papers out of 7 submissions are included. The selected papers deal with aspects of security and privacy requirements assurance and evaluation; and security requirements elicitation and modelling and to GDPR compliance. From the ADIoT Workshop 2 full papers and 2 short papers out of 12 submissions are included. The papers focus on IoT attacks and defenses and discuss either practical or theoretical solutions to identify IoT vulnerabilities and IoT security mechanisms.

ARDUINO COMPUTER VISION PROGRAMMING

Design and develop real-world computer vision applications with the powerful combination of OpenCV and Arduino. About This Book- Load and run the applications in Arduino to develop intelligent systems- Design and implement detection, classification, and recognition algorithms for computer vision applications- Explore the best practices of computer vision development including state of the art algorithms and hands-on example projects. Who This Book Is For- If you are a consumer and hobbyist who has familiarity with the basics of Arduino and wish to learn computer vision programming with Arduino to create intelligent systems, then this book is for you. No knowledge of computer vision programming is required. What You Will Learn- Understand the design blocks and the generic architecture of computer vision systems by learning an efficient approach to modelling- Build up your skill set of computer vision system design using OpenCV by learning fundamentals, camera selection, data acquisition, filtering, processing, feature extraction and recognition for any specific problem- Learn the wired and wireless communication capabilities of Arduino and comprehensive best practices to connect it to the OpenCV environment in a platform-independent way- Discover how to use Arduino to elegantly interact with real life via physical actions- Solidify everything you've learnt by designing and building a computer vision-enabled practical robot from scratch. In details. Most technologies are developed with an inspiration of human capabilities. Most of the time, the hardest to

implement capability is vision. Development of highly capable computer vision applications in an easy way requires a generic approach. In this approach, Arduino is a perfect tool for interaction with the real world. Moreover, the combination of OpenCV and Arduino boosts the level and quality of practical computer vision applications. Computer vision is the next level of sensing the environment. The purpose of this book is to teach you how to develop Arduino-supported computer vision systems that can interact with real life by seeing it. This book will combine the powers of Arduino and computer vision in a generalized, well-defined, and applicable way. The practices and approaches in the book can be used for any related problems and on any platforms. At the end of the book, you should be able to solve any types of real life vision problems with all its components by using the presented approach. Each component will extend your vision with the best practices on the topic. In each chapter, you will find interesting real life practical application examples about the topics in the chapter. To make it grounded, we will build a vision-enabled robot step by step towards the end of the book. You will observe that, even though the contexts of the problems are very different, the approaches to solve them are the same and very easy! Style and approach This book is a step-by-step guide that explains each topic sequentially by using best practices and useful tips to build computer-vision applications with OpenCV and Arduino. All the information in the book is combined in a real life all-in-one example application.

THE COMPLETE IDIOT'S GUIDE TO ELECTRICAL REPAIR

Penguin **The Complete Idiot's Guide® to Electrical Repair** is a basic instruction manual on home wiring and repair. The book covers AC/DC, volts, watts, fuses, and circuit breakers, national and local codes, and caution signs and safety concerns. Learn when it's best to do-it-yourself and when you need to bring in the pros. Also covered are extension cords and multiple strips, switches and receptacles, installing fixtures and adding new circuits, and working around existing wiring.

THE INTERNET OF THINGS

KEY APPLICATIONS AND PROTOCOLS

John Wiley & Sons **An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard.** In-depth coverage of Smart-grid and EV charging use cases. This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources. **Key Features:** Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture, interworking, and nationwide use cases Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications Illustrates the benefits of the smartgrid concept based on real examples, including business cases This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

ELECTRONIC TROUBLESHOOTING, FOURTH EDITION

McGraw Hill Professional **The Most Complete, Current Guide to Troubleshooting and Repairing Electrical and Electronic Devices** "If it's electronic, and there is troubleshooting to be done, then this is the book to reach for!" --Dr. Simon Monk, bestselling author of *30 Arduino Projects for the Evil Genius* and *Hacking Electronics: An Illustrated DIY Guide for Makers and Hobbyists* "...an outstanding book on electronic troubleshooting with clear, concise, and concrete examples that anyone can relate to." --James Karagiannes, Ph.D. Physics, Associate Dean of Engineering and Information Sciences, DeVry University, Chicago Fully updated for the latest technologies, devices, test instruments, and problem-solving methods, the new edition of this practical resource provides you with the comprehensive information you need to troubleshoot today's electrical and electronic equipment. Inside you'll find new and enhanced coverage of: Wireless communications Embedded microprocessor systems Cutting-edge medical diagnostic equipment Advanced networking technologies The book uniquely blends traditional electrical theory and components with modern networking and electronic technology. Chapter-ending questions and problems test your understanding of the topics discussed. Filled with tables, charts, illustrations, graphs, and flowcharts, this is a must-have manual for anyone who works with electronics--at home or on the job. **Electronic Troubleshooting, Fourth Edition, covers:** Electric motors and generators Industrial controls Residential, commercial, and wireless communications Radio and television Digital circuits Combinational and sequential digital circuits Microprocessor-based systems Biomedical equipment Computer networking and network drives Embedded microprocessor systems

DISEASES OF EAR, NOSE & THROAT

WITH HEAD & NECK SURGERY

JP Medical Ltd This book is a complete guide to the diagnosis and management of ENT diseases for undergraduate medical students and trainees in otolaryngology. Divided into nine sections, the text begins with an overview of the anatomy and physiology of each part of the otolaryngologic system and explains bacteria, antibiotics, fungi and viruses, and HIV. The following sections cover numerous diseases and disorders in each otolaryngologic region - ear, nose and sinuses, oral cavity and salivary glands, pharynx and oesophagus, larynx, trachea and bronchus; and neck. The final chapters discuss surgical procedures, imaging, radio- and chemotherapy, anaesthesia, and laser surgery. The second edition has been fully revised to provide students with the latest information, and features many new topics, including a clinical highlights section to assist preparation for examinations, and a comprehensive appendix of 101 clinical secrets, problem-oriented clinical cases, and miscellaneous key points. The book is accompanied by a complimentary online resource featuring the full text as an ebook, MCQs with image-based questions, live surgery videos, and animation. Key points Fully revised, second edition providing comprehensive guide to ENT diseases Includes clinical highlights section and comprehensive appendix to assist with exam preparation Accompanied by free online resource featuring ebook, MCQs, and surgical videos Previous edition (9789350259436) published in 2012

PROGRAMMABLE LOGIC CONTROLLERS WITH CONTROLLOGIX

Cengage Learning **PROGRAMMING CONTROLLOGIX PROGRAMMABLE AUTOMATION CONTROLLERS** covers ControlLogix Programmable Logic Controllers (PLCs) and their programming and integration. The book's strength is its breadth and depth of coverage, taking the reader from an overview of the PLC through ladder logic, structured text, sequential function chart, and function block programming. **PROGRAMMABLE LOGIC CONTROLLERS WITH CONTROLLOGIX** also covers industrial sensors, PLC modules and wiring, as well as motion control using ControlLogix through two-axis coordinated motion (linear and circular) is also covered. To aid in learning, the book features a DVD with Camtasia learning videos and explanations of setup of RSLinx, project development, tag creation, configuration, instructions and much more. Appendixes cover configuring remote I/O, producer/consumer communication, messaging, and motion configuration and programming. Students learn more and more easily because of the breadth of practical coverage, numerous examples and extensive exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

INFORMATION TECHNOLOGY FOR MANAGERS

Cengage Learning Now today's managers can prepare to successfully oversee and understand information systems with Reynold's **INFORMATION TECHNOLOGY FOR MANAGERS, 2E**. This practical, insightful book prepares current and future managers to understand the critical business implications of information technology. A wealth of actual contemporary examples demonstrate how successful managers can apply information technology to improve their organizations. A new chapter on IT security, hands-on scenarios and practical cases give readers an opportunity to apply what they're learning. This edition's solid framework helps define the manager's important role in information technology and in working effectively with all members of the organization to achieve results. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

REAL-TIME CONCEPTS FOR EMBEDDED SYSTEMS

CRC Press '... a very good balance between the theory and practice of real-time embedded system designs.' —Jun-ichiro Itojun Hagino, Ph.D., Research Laboratory, Internet Initiative Japan Inc., IETF IPv6 Operations Working Group (v6ops) co-chair 'A cl

COMPUTER SECURITY FUNDAMENTALS

Que Publishing One-volume coverage of all the core concepts, terminology, issues, and practical skills modern computer security professionals need to know * *The most up-to-date computer security concepts text on the market. *Strong coverage and comprehensive analysis of key attacks, including denial of service, malware, and viruses. *Covers oft-neglected subject areas such as cyberterrorism, computer fraud, and industrial espionage. *Contains end-of-chapter exercises, projects, review questions, and plenty of realworld tips. Computer Security Fundamentals, Second Edition is designed to be the ideal one volume gateway into the entire field of computer security. It brings together thoroughly updated coverage of all basic concepts, terminology, and issues, along with the practical skills essential to security. Drawing on his extensive experience as both an IT professional and instructor, Chuck Easttom thoroughly covers core topics such as vulnerability assessment, virus attacks, buffer overflow, hacking, spyware, network defense, firewalls, VPNs, Intrusion Detection Systems, and passwords. Unlike many other authors, however, he also fully addresses more specialized issues, including cyber terrorism, industrial espionage and encryption - including public/private key systems, digital signatures, and certificates. This edition has been extensively updated to address the latest issues and technologies, including cyberbullying/cyberstalking, session hijacking, steganography, and more. Its examples have been updated to reflect the current state-of-the-art in both attacks and defense. End-of-chapter exercises, projects, and review questions guide readers in applying the knowledge they've gained, and Easttom offers many tips that readers would otherwise have to discover through hard experience.

COMPUTER AND NETWORK SECURITY ESSENTIALS

Springer This book introduces readers to the tools needed to protect IT resources and communicate with security

specialists when there is a security problem. The book covers a wide range of security topics including Cryptographic Technologies, Network Security, Security Management, Information Assurance, Security Applications, Computer Security, Hardware Security, and Biometrics and Forensics. It introduces the concepts, techniques, methods, approaches, and trends needed by security specialists to improve their security skills and capabilities. Further, it provides a glimpse into future directions where security techniques, policies, applications, and theories are headed. The book represents a collection of carefully selected and reviewed chapters written by diverse security experts in the listed fields and edited by prominent security researchers. Complementary slides are available for download on the book's website at Springer.com.

ASSISTIVE TECHNOLOGY FOR THE HEARING-IMPAIRED, DEAF AND DEAFBLIND

Springer Science & Business Media Affirmative legislative action in many countries now requires that public spaces and services be made accessible to disabled people. Although this is often interpreted as access for people with mobility impairments, such legislation also covers those who are hearing or vision impaired. In these cases, it is often the provision of advanced technological devices and aids which enables people with sensory impairments to enjoy the theatre, cinema or a public meeting to the full. Assistive Technology for the Hearing-impaired, Deaf and Deafblind shows the student of rehabilitation technology how this growing technical provision can be used to support those with varying reductions in auditory ability and the deafblind in modern society. Features: instruction in the physiology of the ear together with methods of measurement of hearing levels and loss; the principles of electrical engineering used in assistive technology for the hearing impaired; description and demonstration of electrical engineering used in hearing aids and other communications enhancement technologies; explanation of many devices designed for everyday living in terms of generic electrical engineering; sections of practical projects and investigations which will give the reader ideas for student work and for self teaching. The contributors are internationally recognised experts from the fields of audiology, electrical engineering, signal processing, telephony and assistive technology. Their combined expertise makes Assistive Technology for the Hearing-impaired, Deaf and Deafblind an excellent text for advanced students in assistive and rehabilitation technology and to professional engineers and medics working in assistive technology who wish to maintain an up-to-date knowledge of current engineering advances.

PLANNING AND INSTALLING PHOTOVOLTAIC SYSTEMS

A GUIDE FOR INSTALLERS, ARCHITECTS AND ENGINEERS

Earthscan Growth in photovoltaic (PV) manufacturing worldwide continues its upward trajectory. This bestselling guide has become the essential tool for installers, engineers and architects, detailing every subject necessary for successful project implementation, from the technical design to the legal and marketing issues of PV installation. Beginning with resource assessment and an outline of the core components, this guide comprehensively covers system design, economic analysis, installation, operation and maintenance of PV systems. The second edition has been fully updated to reflect the state of the art in technology and concepts, including: new chapters on marketing and the history of PV; new information on the photovoltaic market; new material on lightning protection; a new section on building integrated systems; and new graphics, data and photos. Published with Intelligent Energy

EDUCATION FOR A DIGITAL WORLD

ADVICE, GUIDELINES, AND EFFECTIVE PRACTICE FROM AROUND THE GLOBE

This is a comprehensive collection of proven strategies and tools for effective online teaching, based on the principles of learning as a social process. It offers practical, contemporary guidance to support e-learning decision-making, instructional choices, as well as program and course planning, and development.

HOUSEBUILDER'S BIBLE

GERMAN REICH 1938-AUGUST 1939

Walter de Gruyter GmbH & Co KG This source edition on the persecution and murder of the European Jews by Nazi Germany presents in a total of 16 volumes a thematically comprehensive selection of documents on the Holocaust. The work illustrates the contemporary contexts, the dynamics, and the intermediate stages of the political and social processes that led to this unprecedented mass crime. It can be used as an academic aid or be read as a written monument to the murdered Jews of Europe: by teachers, researchers, students, and all other interested parties. The edition comprises authentic testimony by persecutors, victims, and onlookers. These testimonies are furnished with academic annotations and the vast majority of them are published here for the first time in English. Volume 2 documents the persecution of the Jews in the German Reich between January 1938 and the end of August 1939. In the months between the Anschluss of Austria and the beginning of the Second World War, the Nazi leadership imposed a state of siege on the Jews in the form of 'Aryanization', organized expulsion, and the pogroms of November 1938.

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ENCYCLOPEDIA OF EDUCATION AND INFORMATION TECHNOLOGIES

Springer This encyclopedia aims to offer researchers an indication of the breadth and importance of information systems in education, including the way IT is being used, and could be used to enable learning and teaching. The

encyclopedia covers all aspects of the interaction between education and information technologies, including IT in kindergartens, primary and secondary schools, universities, training colleges, industry training, distance education and further education. It also covers teaching and computing, the use of IT in many different subject areas, the use of IT in educational administration, and national policies of IT and education.