

Home Automation Using Bluetooth A Review

Advances in Computing, Communication, Automation and Biomedical Technology aims to bring together leading academic, scientists, researchers, industry representatives, postdoctoral fellows and research scholars around the world to share their knowledge and research expertise, to advances in the areas of Computing, Communication, Electrical, Civil, Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of innovation.

This book discusses data communication and computer networking, communication technologies and the applications of IoT (Internet of Things), big data, cloud computing and healthcare informatics. It explores, examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research.

Linux users can now control their homes remotely! Are you a Linux user who has ever wanted to turn on the lights in your house, or open and close the curtains, while away on holiday? Want to be able to play the same music in every room, controlled from your laptop or mobile phone? Do you want to do these things without an expensive off-the-shelf kit? In Smart Home Automation with Linux, Steven Goodwin will show you how a house can be fully controlled by its occupants, all using open source software. From appliances to kettles to curtains, control your home remotely!

Virtual, hands-on learning labs allow you to apply your technical skills using live hardware and software hosted in the cloud. So Sybex has bundled CompTIA Network+ labs from Practice Labs, the IT Competency Hub, with our popular CompTIA Network+ Study Guide, Fourth Edition. Working in these labs gives you the same experience you need to prepare for the CompTIA Network+ Exam N10-007 that you would face in a real-life network. Used in addition to the book, these labs in are a proven way to prepare for the certification and for work installing, configuring, and troubleshooting today's basic networking hardware peripherals and protocols. Building on the popular Sybex Study Guide approach, CompTIA Network+ Study Guide Exam N10-007 & Online Lab Card Bundle, the 4th edition of the Study Guide provides 100% coverage of the NEW Exam N10-007 objectives. The book contains clear and concise information on the skills you need and practical examples and insights drawn from real-world experience. Inside, networking guru Todd Lammle covers all exam objectives, explains key topics, offers plenty of practical examples, and draws upon his own invaluable 30 years of networking experience to help you learn. The Study Guide prepares you for Exam N10-007, the new CompTIA Network+ Exam: Covers all exam objectives including network technologies, network installation and configuration, network media and topologies, security, and much more. Includes practical examples review questions, as well as access to practice exams and flashcards to reinforce learning. Networking guru and expert author Todd Lammle offers invaluable insights and tips drawn from real-world experience. You will have access to a robust set of online interactive learning tools, including hundreds of sample practice questions, a pre-assessment test, bonus practice exams, and over 100 electronic flashcards. Prepare for the exam and enhance your career with the authorized CompTIA Network+ Study Guide, Fourth Edition. As part of this bundle, readers get hands-on learning labs from IT Competency Hub, Practice Labs to apply your technical skills in realistic environments. And with this edition you also get Practice Labs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to Practice Labs CompTIA Network+ Exam N10-007 Labs with 27 unique lab modules to practice your skills. In today's market, emerging technologies are continually assisting in common workplace practices as companies and organizations search for innovative ways to solve modern issues that arise. Prevalent applications including internet of things, big data, and cloud computing all have noteworthy benefits, but issues remain when separately integrating them into the professional practices. Significant research is needed on converging these systems and leveraging each of their advantages in order to find solutions to real-time problems that still exist. Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing is a pivotal reference source that provides vital research on the relation between these technologies and the impact they collectively have in solving real-world challenges. While highlighting topics such as cloud-based analytics, intelligent algorithms, and information security, this publication explores current issues that remain when attempting to implement these systems as well as the specific applications IoT, big data, and cloud computing have in various professional sectors. This book is ideally designed for academicians, researchers, developers, computer scientists, IT professionals, practitioners, scholars, students, and engineers seeking research on the integration of emerging technologies to solve modern societal issues.

Smart Home Automation with Linux and Raspberry Pi shows you how to automate your lights, curtains, music, and more, and control everything via a laptop or mobile phone. You'll learn how to use Linux, including Linux on Raspberry Pi, to control appliances and everything from kettles to curtains, including how to hack game consoles and even incorporate LEGO Mindstorms into your smart home schemes. You'll discover the practicalities on wiring a house in terms of both and power and networking, along with the selection and placement of servers. There are also explanations on handling communication to (and from) your computer with speech, SMS, email, and web. Finally, you'll see how your automated appliances can collaborate to become a smart home. Smart Home Automation with Linux was already an excellent resource for home automation, and in this second edition, Steven Goodwin will show you how a house can be fully controlled by its occupants, all using open source software and even open source hardware like Raspberry Pi and Arduino.

As innovators continue to explore and create new developments within the fields of artificial intelligence and computer science, subfields such as machine learning and the internet of things (IoT) have emerged. Now, the internet of everything (IoE), foreseen as a cohesive and intelligent connection of people, processes, data, and things, is theorized to make internet connections more valuable by converting information into wise actions that create unprecedented capabilities, richer experiences, and economic opportunities to all players in the market. Harnessing the Internet of Everything (IoE) for Accelerated Innovation Opportunities discusses the theoretical, design, evaluation, implementation, and use of innovative technologies within the fields of IoE, machine learning, and IoT. Featuring research on topics such as low-power electronics, mobile technology, and artificial intelligence, this book is ideally designed for computer engineers, software developers, investigators, advanced-level students, professors, and professionals seeking coverage on the various contemporary theories, technologies, and tools in IoE engineering.

This SpringerBrief discusses the rise of the smart grid from the perspective of computing and communications. It explains how current and next-generation network technology and methodologies help recognize the potential that the smart grid initiative promises. Chapters provide context on the smart grid before exploring specific challenges related to communication control and energy management. Topics include control in heterogeneous power supply, solutions for backhaul and wide area networks, home energy management systems, and technologies for smart energy management systems. Designed for researchers and professionals working on the smart grid, Communication Challenges and Solutions in the Smart Grid offers context and applications for the common issues of this developing technology.

Advanced-level students interested in networking and communications engineering will also find the brief valuable.

This book includes selected peer-reviewed papers presented at the International Conference on Modeling, Simulation and Optimization, organized by National Institute of Technology, Silchar, Assam, India, during 3–5 August 2020. The book covers topics of modeling, simulation and optimization, including computational modeling and simulation, system modeling and simulation, device/VLSI modeling and simulation, control theory and applications, modeling and simulation of energy system and optimization. The book disseminates various models of diverse systems and includes solutions of emerging challenges of diverse scientific fields.

This book constitutes the proceedings of the 1st International Conference on Advances in Emerging Trends and Technologies (ICAETT 2019), held in Quito, Ecuador, on 29–31 May 2019, jointly organized by Universidad Tecnológica Israel, Universidad Técnica del Norte, and Instituto Tecnológico Superior Rumiñahui, and supported by SNOTRA.

ICAETT 2019 brought together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Technology Trends Electronics Intelligent Systems Machine Vision Communication Security e-Learning e-Business e-Government and e-Participation

This book presents cutting-edge research papers in the field of Underwater System Technology in Malaysia and Asia in general. The topics covered include intelligent robotics, novel sensor technologies, control algorithms, acoustic signal processing, imaging techniques, biomimetic robots, green energy sources, and underwater communication backbones and protocols. The book showcases some of the latest technologies and applications developed to facilitate local marine exploration and exploitation. It also addresses related topics concerning the Sustainable Development Goals (SDG) outlined by the United Nations.

Build a versatile home automation system from scratch. There are many ways of controlling home appliances with your smartphones, voice, gestures, etc. This book dives into the many options for communicating with appliances wirelessly and we'll discuss and implement the leading protocols in the field. In first few chapters, you will develop a basic understanding of the Raspberry Pi and how one can control it wirelessly from anywhere in the world. Then you'll get to know about the local server for your home automation projects and control the Raspberry Pi GPIOs using smartphone and web apps. Every appliance will be able to talk to each other, as well, with the help of mesh networking, which you'll learn to implement. The user interface is also an important aspect of handling all the appliances, so you'll create your own user dashboard using OpenHAB. From there, you can monitor all the appliances and sensor data in one environment. Next, implement your own custom voice assistant to control your appliances and perform basic tasks like playing music, checking weather, etc. You'll also integrate a smart door bell into your system using image processing so that you can restrict an unknown person's entry. Finally, we'll combine all the knowledge that we have learned to make a fully versatile home automation project controlled using voice, gestures, and image processing. Throughout this whole project, Raspberry Pi will be your master server or node and other devices will be connected wirelessly using wi-fi/Bluetooth modules. Create a smart home with fully custom interfaces to do exactly what you need! What You'll Learn Create a user interface using openHAB Implement the MQTT protocol Install Alexa and Google Home API to control appliances wirelessly Who This Book Is For Enthusiasts with a working knowledge of the Raspberry Pi, electronic engineering, and Python programming. This book will also interest hobbyists and students from Computer Science or related disciplines.

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.

The theme of conference is Emerging Technologies for Sustainability. Sustainability tends to be problem driven and oriented towards guiding decision making. The goal is to raise the global standard of living without increasing the use of resources beyond global sustainable levels. The conference is intended to act as a platform for researchers to share and gain knowledge, showcase their research findings and propose new solutions in policy formulation, design, processing and application of green materials, material selection, analysis, green manufacturing, testing and synthesis, thereby contributing to the creation of a more sustainable world.

The proceedings gather a selection of refereed papers presented at the 7th International Conference on Kansei Engineering and Emotion Research 2018 (KEER 2018), which was held in Kuching, Malaysia from 19 to 22 March 2018. The contributions address the latest advances in and innovative applications of Kansei Engineering and Emotion Research. The subjects include: Kansei, Emotion and Games Kansei, Emotion and Computing Kansei, Emotion and Wellbeing / Quality of Life Kansei, Emotion and Design Kansei, Emotion and Health / Ergonomics Kansei, Emotion and Multidisciplinary Fields Kansei, Emotion and Culture Kansei, Emotion and Social computing Kansei, Emotion and Evaluation Kansei, Emotion and User Experience The book offers a valuable resource for all graduate students, experienced researchers and industrial practitioners interested in the fields of user experience/usability, engineering design, human factors, quality management, product development and design.

This book constitutes the refereed conference proceedings of the 11th International Conference on Multi-disciplinary Trends in Artificial Intelligence, MIWAI 2017, held in Gadong, Brunei, in November 2017. The 40 revised full papers presented were carefully reviewed and selected from 82 submissions. They are organized in the following topical sections: knowledge representation and reasoning; data mining and machine learning; deep learning and its applications; document analysis; intelligent information systems; swarm intelligence.

This book investigates how we as citizens of Society 5.0 borrow the disruptive technologies like Blockchain, IoT, cloud and software-defined networking from Industry 4.0, with its automation and digitization of manufacturing verticals, to change the way we think and act in cyberspace incorporated within everyday life. The technologies are explored in Non-IT sectors, their implementation challenges put on the table, and new directions of thought flagged off. Disruptive Technologies for Society 5.0: Exploration of New Ideas, Techniques, and Tools is a pathbreaking book on current research, with case studies to comprehend their importance, in technologies that disrupt the de facto. This book is intended for researchers and academicians and will enable them to explore new ideas, techniques, and tools.

This book features selected research papers presented at the First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019), organized by Northwest Group of Institutions, Punjab, India, Southern Federal University, Russia, and IAC Educational Trust, India along with KEC, Ghaziabad and ITS, College Ghaziabad as an academic partner and held on 12–13 October 2019. It includes innovative work from researchers, leading innovators and professionals in the area of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues. CSIT (APTİKOM Journal on Computer Science and Information Technologies) Published by APTİKOM & Organized by Aptikom Publisher and Pandawan. CSIT is published three a year, every March, July, and November.

A detailed, practical review of state-of-the-art implementations of memory in IoT hardware As the Internet of Things (IoT) technology continues to evolve and become increasingly common across an array of specialized and consumer product applications, the demand on engineers to design new generations of flexible, low-cost, low power embedded memories into IoT hardware becomes ever greater. This book helps them meet that demand. Coauthored by a leading international expert and multiple patent holder, this book gets engineers up to speed on state-of-the-art implementations of memory in IoT hardware. Memories for the Intelligent Internet of Things covers an array of common and cutting-edge IoT embedded memory implementations. Ultra-low-power memories for IoT devices-including plastic and polymer circuitry for specialized applications, such as medical electronics-are described. The authors explore microcontrollers with embedded memory used for smart control of a multitude of Internet devices. They also consider neuromorphic memories made in Ferroelectric RAM (FeRAM), Resistance RAM (ReRAM), and Magnetic RAM (MRAM) technologies to implement artificial intelligence (AI) for the collection, processing, and presentation of large quantities of data generated by IoT hardware. Throughout the focus is on memory technologies which are complementary metal oxide semiconductor (CMOS) compatible, including embedded floating gate and charge trapping EEPROM/Flash along with FeRAMs, FeFETs, MRAMs and ReRAMs. Provides a timely, highly practical look at state-of-the-art IoT memory implementations for an array of product applications Synthesizes basic science with original analysis of memory technologies for Internet of Things (IoT) based on the authors' extensive experience in the field Focuses on practical and timely applications throughout Features numerous illustrations, tables, application requirements, and photographs Considers memory related security issues in IoT devices Memories for the Intelligent Internet of Things is a valuable working resource for electrical engineers and engineering managers working in the electronics system and semiconductor industries. It is also an indispensable reference/text for graduate and advanced undergraduate students interested in the latest developments in integrated circuit devices and systems.

This book presents selected proceedings of ICCI-2017, discussing theories, applications and future directions in the field of computational intelligence (CI). ICCI-2017 brought together international researchers presenting innovative work on self-adaptive systems and methods. This volume covers the current state of the field and explores new, open research directions. The book serves as a guide for readers working to develop and validate real-time problems and related applications using computational intelligence. It focuses on systems that deal with raw data intelligently, generate qualitative information that improves decision-making, and behave as smart systems, making it a valuable resource for researchers and professionals alike.

This book is divided into projects that are explained in a step-by-step format, with practical instructions that are easy to follow. If you want to build your own home automation systems wirelessly using the Arduino platform, this is the book for you. You will need to have some basic experience in Arduino and general programming languages, such as C and C++ to understand the projects in this book.

Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering includes selected papers form the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

This volume constitutes the refereed proceedings of the Second International Conference on Computational Intelligence, Security and Internet of Things, ICCISIoT 2019, held in Agartala, India, in December 2019. The 31 full papers and 6 short papers were carefully reviewed

and selected from 153 submissions. The papers are organised according to the following topics: Computational Intelligence, Security, Internet of Things. Papers from the extended track are also presented in the volume.

This book presents state-of-the-art research on security and privacy- preserving for IoT and 5G networks and applications. The accepted book chapters covered many themes, including traceability and tamper detection in IoT enabled waste management networks, secure Healthcare IoT Systems, data transfer accomplished by trustworthy nodes in cognitive radio, DDoS Attack Detection in Vehicular Ad-hoc Network (VANET) for 5G Networks, Mobile Edge-Cloud Computing, biometric authentication systems for IoT applications, and many other applications. It aspires to provide a relevant reference for students, researchers, engineers, and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on security and privacy- preserving for IoT and 5G networks.

This book presents the proceedings of the 1st International Conference on Artificial Intelligence and Computer Visions (AICV 2020), which took place in Cairo, Egypt, from April 8 to 10, 2020. This international conference, which highlighted essential research and developments in the fields of artificial intelligence and computer visions, was organized by the Scientific Research Group in Egypt (SRGE). The book is divided into sections, covering the following topics: swarm-based optimization mining and data analysis, deep learning and applications, machine learning and applications, image processing and computer vision, intelligent systems and applications, and intelligent networks.

This volume contains 95 papers presented at FICTA 2014: Third International Conference on Frontiers in Intelligent Computing: Theory and Applications. The conference was held during 14-15, November, 2014 at Bhubaneswar, Odisha, India. This volume contains papers mainly focused on Data Warehousing and Mining, Machine Learning, Mobile and Ubiquitous Computing, AI, E-commerce & Distributed Computing and Soft Computing, Evolutionary Computing, Bio-inspired Computing and its Applications. A Beginners Guide to Data Agglomeration and Intelligent Sensing provides an overview of the Sensor Cloud Platform, Converge-casting, and Data Aggregation in support of intelligent sensing and relaying of information. The book begins with a brief introduction on sensors and transducers, giving readers insight into the various types of sensors and how one can work with them. In addition, it gives several real-life examples to help readers properly understand concepts. An overview of concepts such as wireless sensor networks, cloud platforms, and device-to-cloud and sensor cloud architecture are explained briefly, as is data gathering in wireless sensor networks and aggregation procedures. Final sections explore how to process gathered data and relay the data in an intelligent way, including concepts such as supervised and unsupervised learning, software defined networks, sensor data mining and smart systems. Presents the latest advances in data agglomeration for intelligent sensing. Discusses the basic concepts of sensors, real-life applications of sensors and systems, the protocols and applications of wireless sensor networks, the methodology of sensor data accumulation, and real-life applications of Intelligent Sensor Networks. Provides readers with an easy-to-learn and understand introduction to the concepts of the cloud platform, Sensor Cloud and Machine Learning. Provides a detailed analysis of the standards and technologies enabling applications for the wireless Internet of Things. The Wireless Internet of Things: A Guide to the Lower Layers presents a practitioner's perspective toward the Internet of Things (IoT) focusing on over-the-air interfaces used by applications such as home automation, sensor networks, smart grid, and healthcare. The author—a noted expert in the field—examines IoT as a protocol-stack detailing the physical layer of the wireless links, as both a radio and a modem, and the media access control (MAC) that enables communication in congested bands. Focusing on low-power wireless personal area networks (WPANs) the text outlines the physical and MAC layer standards used by ZigBee, Bluetooth LE, Z-Wave, and Thread. The text deconstructs these standards and provides background including relevant communication theory, modulation schemes, and access methods. The author includes a discussion on Wi-Fi and gateways, and explores their role in IoT. He introduces radio topologies used in software-defined radio implementations for the WPANs. The book also discusses channel modelling and link budget analysis for WPANs in IoT. This important text: Introduces IEEE 802.15.4, ITU-T G.9959, and Bluetooth LE as physical layer technology standards enabling wireless IoT. Takes a layered approach in order to cultivate an appreciation for the various standards that enable interoperability. Provides clarity on wireless standards with particular focus on actual implementation. Written for IoT application and platform developers as well as digital signal processing, network, and wireless communication engineers; The Wireless Internet of Things: A Guide to the Lower Layers offers an inclusive overview of the complex field of wireless IoT, exploring its beneficial applications that are proliferating in a variety of industries.

Provides instructions for building thirty-three projects that interact with the physical world, including a stuffed monkey video game controller and a battery powered GPS that reports its location over Bluetooth.

Prepare for the Network+ certification and a new career in network installation and administration. In the newly revised Fifth Edition of CompTIA Network+ Study Guide Exam N10-008, bestselling author and network expert Todd Lammle delivers thorough coverage of how to install, configure, and troubleshoot today's basic networking hardware peripherals and protocols. This book will prepare you to succeed on the sought-after CompTIA Network+ certification exam, impress interviewers in the network industry, and excel in your first role as a junior network administrator, support technician, or related position. The accomplished author draws on his 30 years of networking experience to walk you through the ins and outs of the five functional domains covered by the Network+ Exam N10-008: Networking fundamentals, implementations, operations, security, and troubleshooting. You'll also get: Complete, domain-specific coverage of the updated Network+ Exam N10-008. Preparation to obtain a leading network certification enjoyed by over 350,000 networking professionals. Access to a superior set of online study tools, including practice exams, flashcards, and glossary of key terms. Perfect for anyone preparing for the latest version of the CompTIA Network+ Exam N10-008, the Fifth Edition of CompTIA Network+ Study Guide Exam N10-008 is a must-have resource for network administrators seeking to enhance their skillset with foundational skills endorsed by industry and thought leaders from around the world.

The only official, comprehensive reference guide to the CISSP. Thoroughly updated for 2021 and beyond, this is the authoritative common body of knowledge (CBK) from (ISC)2 for information security professionals charged with designing, engineering, implementing, and managing the overall information security program to protect organizations from increasingly sophisticated attacks. Vendor neutral and backed by (ISC)2, the CISSP credential meets the stringent requirements of ISO/IEC Standard 17024. This CBK covers the current eight domains of CISSP with the necessary depth to apply them to the daily practice of information security. Revised and updated by a team of subject matter experts, this comprehensive reference covers all of the more than 300 CISSP objectives and sub-objectives in a structured format with: Common and good practices for each objective. Common vocabulary and definitions. References to widely accepted computing standards. Highlights of successful approaches through case studies. Whether you've earned your CISSP credential or are looking for a valuable resource to help advance your security career,

this comprehensive guide offers everything you need to apply the knowledge of the most recognized body of influence in information security

Abstract: Home automation systems have gained popularity in recent years, paralleling the advances in the concept of the Internet of Things. The current project presents the implementation of an inexpensive home automation system, within the framework of assistive technology. The system implementation is based on the Arduino microcontroller, with Bluetooth communications capability, and it is designed for use by the elderly and people with disabilities. The system is user-friendly, with an intuitive interface implemented on an Android-based smart phone. Demonstrations show that the system facilitates control of home appliances, lights, heating, cooling systems and security devices by the intended users, i.e. the elderly and the disabled.

This two-volume set of LNCS 11643 and LNCS 11644 constitutes - in conjunction with the volume LNAI 11645 - the refereed proceedings of the 15th International Conference on Intelligent Computing, ICIC 2019, held in Nanchang, China, in August 2019. The 217 full papers of the three proceedings volumes were carefully reviewed and selected from 609 submissions. The ICIC theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. The theme for this conference is "Advanced Intelligent Computing Methodologies and Applications." Papers related to this theme are especially solicited, including theories, methodologies, and applications in science and technology.

This book explores five fundamental mechanisms to build secure Wireless Sensor Networks (WSNs). It presents security issues related to a single node which deals with the authentication and communication confidentiality with other nodes. It also focuses on network security, providing solutions for the node capture attack and the clone attack. It examines a number of areas and problems to which WSNs are applied continuously, including: supporting rescue operations, building surveillance, fire prevention, battlefield monitoring and more. However, known and unknown threats still affect WSNs and in many applications of this new technology the security of the network is a fundamental issue for confidentiality, integrity, authenticity and availability. The last section of the book addresses security for a common WSN service. Case studies are provided throughout. *Secure Wireless Sensor Networks: Threats and Solutions* targets advanced-level students and researchers in computer science and electrical engineering as a secondary text book. Professionals working in the wireless sensor networks field will also find this book useful as a reference.

This book constitutes the thoroughly refereed proceedings of the 23rd International Conference on Computer Networks, CN 2016, held in Brunów, Poland, in June 2016. The 32 full papers and the 4 short papers presented were carefully reviewed and selected from 72 submissions. They are organized in topical sections on computer networks architectures and protocols, teleinformatics and telecommunications, new technologies, queueing theory, and innovative applications.

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