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The book systematically introduces the visible light communication (VLC) technology in detail. Basic

concepts and how to realize the system are both illustrated, including the transmitter, channel, and the receiver. In addition, a good many experimental results are presented to help readers further understand the VLC technologies. The upper-layer protocols of visible light communication system

and the technology trends are also discussed. This book can be a good reference work for researchers, engineers, and graduate students in the fields of communications, LED, and optics.
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Trust the best-selling Cert Guide series from Pearson IT Certification to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Cert Guide presents you with an organized test preparation routine using proven series elements and techniques. “Do I Know

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with realistic exam questions in the practice test software CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Cert Guide focuses specifically on the objectives for the CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) exams. Leading instructor Rick McDonald shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise

manner, focusing on increasing your understanding and retention of exam topics. This complete study package includes A test-preparation routine proven to help you pass the exams Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you must know thoroughly An online interactive Flash Cards application to help you drill on key terms by

chapter The powerful Pearson Test Prep Practice Test software, with four full exams comprised of well-reviewed, exam-realistic questions, customization options, and detailed performance reports A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans,

assessment features, and challenging review questions and exercises, this study guide helps you understand the concepts and apply the techniques you need to ensure your exam success. This study guide helps you learn all the topics on the CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) exams, deepening your knowledge of Configuring laptops and mobile devices Configuring wired and wireless networks Installing hardware: RAM, storage drives, power supplies, motherboards,

CPUs, and printers
 Understanding common cloud models and virtualization
 Troubleshooting hardware and network issues
 Performing operating system installations and upgrades
 Managing and configuring security settings
 Troubleshooting Windows, PC security issues, and common mobile OS and application issues
 Implementing workstation backup and recovery methods
 Companion Website: The companion website contains four full practice

exams, an interactive Flash Cards application, Study Planner, Glossary, review exercises, and more. Includes Exclusive Offers for Up to 80% Off Video Training, Practice Tests, and more
[Compact and Broadband Microstrip Antennas](#) Packt Publishing Ltd
 The next frontier for wireless LANs is 802.11ac, a standard that increases throughput beyond one gigabit per second. This concise guide provides in-depth information to help you plan for 802.11ac, with technical details on

design, network operations, deployment, and monitoring. Author Matthew Gast—an industry expert who led the development of 802.11-2012 and security task groups at the Wi-Fi Alliance—explains how 802.11ac will not only increase the speed of your network, but its capacity as well. Whether you need to serve more clients with your current level of throughput, or serve your existing client load with higher throughput, 802.11ac is the solution. This book

gets you started. Understand how the 802.11ac protocol works to improve the speed and capacity of a wireless LAN Explore how beamforming increases speed capacity by improving link margin, and lays the foundation for multi-user MIMO Learn how multi-user MIMO increases capacity by enabling an AP to send data to multiple clients simultaneously Plan when and how to upgrade your network to 802.11ac by evaluating client devices, applications, and network connections

IEEE 802.11 Handbook
John Wiley & Sons
The 2nd Edition of Optical Wireless Communications: System and Channel Modelling with MATLAB® with additional new materials, is a self-contained volume that provides a concise and comprehensive coverage of the theory and technology of optical wireless communication systems (OWC). The delivery method makes the book appropriate for students studying at undergraduate and graduate levels as well as

researchers and professional engineers working in the field of OWC. The book gives a detailed description of OWC, focusing mainly on the infrared and visible bands, for indoor and outdoor applications. A major attraction of the book is the inclusion of Matlab codes and simulations results as well as experimental test-beds for free space optics and visible light communication systems. This valuable resource will aid the readers in understanding the

concept, carrying out extensive analysis, simulations, implementation and evaluation of OWC links. This 2nd edition is structured into nine compact chapters that cover the main aspects of OWC systems: History, current state of the art and challenges
 Fundamental principles
 Optical source and detector and noise sources
 Modulation, equalization, diversity techniques
 Channel models and system performance analysis

Visible light communications
 Terrestrial free space optics communications
 Relay-based free space optics communications
 Matlab codes. A number of Matlab based simulation codes are included in this 2nd edition to assist the readers in mastering the subject and most importantly to encourage them to write their own simulation codes and enhance their knowledge.
CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) Cert Guide

World Scientific
 A new edition of the most comprehensive and up-to-date overview of the features of the 802.11n and 802.11ac WLAN standards.
CWSP Certified Wireless Security Professional Official Study Guide
 Cambridge University Press
 As we all know by now, wireless networks offer many advantages over fixed (or wired) networks. Foremost on that list is mobility, since going wireless frees you from the tether of an Ethernet

cable at a desk. But that's just the tip of the cable-free iceberg. Wireless networks are also more flexible, faster and easier for you to use, and more affordable to deploy and maintain. The de facto standard for wireless networking is the 802.11 protocol, which includes Wi-Fi (the wireless standard known as 802.11b) and its faster cousin, 802.11g. With easy-to-install 802.11 network hardware available everywhere you turn, the choice seems simple, and many people

dive into wireless computing with less thought and planning than they'd give to a wired network. But it's wise to be familiar with both the capabilities and risks associated with the 802.11 protocols. And 802.11 Wireless Networks: The Definitive Guide, 2nd Edition is the perfect place to start. This updated edition covers everything you'll ever need to know about wireless technology. Designed with the system administrator or serious home user in mind, it's a

no-nonsense guide for setting up 802.11 on Windows and Linux. Among the wide range of topics covered are discussions on: deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network monitoring essentials wireless card configuration security issues unique to wireless networks With wireless technology, the advantages to its users

are indeed plentiful. Companies no longer have to deal with the hassle and expense of wiring buildings, and households with several computers can avoid fights over who's online. And now, with 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, you can integrate wireless technology into your current infrastructure with the utmost confidence. [ODROID-C1+ User Manual](#) Springer
The must-have guide to the CWTS exam, updated

for 2017 CWTS Certified Wireless Technology Specialist Study Guide is your number-one resource for comprehensive exam preparation. Updated to study in 2017 and beyond, this book takes a multi-modal approach to ensure your complete confidence and ability for the big day: full coverage of all CWTS exam objectives reinforces your conceptual knowledge, hands-on exercises help hone your practical skills, and the Sybex online learning environment

provides flashcards, a glossary, and review questions to help you test your understanding along the way. An objective map and pre-assessment test allow for more efficient preparation by showing you what you already know and what you need to review—and the companion website's complete practice exams give you a "dry run" so you can pinpoint weak areas while there's still time to improve. If you're serious about earning your CWTS certification, this book is your ideal

companion for complete and thorough preparation. Learn critical concepts and apply essential skills in areas like hardware and software, radio frequency fundamentals, surveying and installation, support, troubleshooting, security, and more. This guide gives you everything you need to approach the exam with confidence. Master 100 percent of the CWTS exam objectives Use effective planning tools to get the most out of your study time Practice your skills with hands-on exercises and

real-world scenarios Access online study aids that let you review any time, any place The CWTS certification gets your foot in the door of a growing industry, and is a stepping stone to the industry standard CWNP certification. The exam will test your abilities in all fundamental areas of Wi-Fi technology, so it's important that your study plan be complete and up-to-date. CWTS Certified Wireless Technology Specialist Study Guide is your ideal solution for comprehensive

preparation. CWNA Certified Wireless Network Administrator Study Guide Cambridge University Press This book discusses the latest channel coding techniques, MIMO systems, and 5G channel coding evolution. It provides a comprehensive overview of channel coding, covering modern techniques such as turbo codes, low-density parity-check (LDPC) codes, space-time coding, polar codes, LT codes, and Raptor codes as well as the traditional codes such

as cyclic codes, BCH, RS codes, and convolutional codes. It also explores MIMO communications, which is an effective method for high-speed or high-reliability wireless communications. It also examines the evolution of 5G channel coding techniques. Each of the 13 chapters features numerous illustrative examples for easy understanding of the coding techniques, and MATLAB-based programs are integrated in the text to enhance readers' grasp of the underlying theories.

Further, PC-based MATLAB m-files for illustrative examples are included for students and researchers involved in advanced and current concepts of coding theory. *Implementing CIFS* John Wiley & Sons
Learn the Raspberry Pi 3 from the experts!
Raspberry Pi User Guide, 4th Edition is the "unofficial official" guide to everything Raspberry Pi 3. Written by the Pi's creator and a leading Pi guru, this book goes straight to the source to bring you the ultimate

Raspberry Pi 3 manual. This new fourth edition has been updated to cover the Raspberry Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and then expand those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape

your Raspberry Pi into whatever you want it to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous popularity has spawned an entire industry of add-ons, parts, hacks, ideas, and inventions. The movement is growing, and pushing the boundaries of possibility along with it—are you ready to be a part of it? This book is your ideal

companion for claiming your piece of the Pi. Get all set up with software, and connect to other devices Understand Linux System Admin nomenclature and conventions Write your own programs using Python and Scratch Extend the Pi's capabilities with add-ons like Wi-Fi dongles, a touch screen, and more The credit-card sized Raspberry Pi has become a global phenomenon. Created by the Raspberry Pi Foundation to get kids interested in

programming, this tiny computer kick-started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your Raspberry Pi 3 take you? The Raspberry Pi User Guide, 3rd Edition is your ultimate roadmap to discovery. *Advanced Wireless LAN* Cambridge University Press Microstrip patch antennas have become the favorite of antenna designers because of its versatility and advantages of planar profile, ease of fabrication, compatibility

with integrated circuit technology, and conformability with a shaped surface. As there is currently an urgent need for graduate students and practicing engineers to gain an in-depth understanding of this subject, this book was written with this purpose in mind. The authors are IEEE Fellows who have made significant contributions to their fields of expertise. Professor K F Lee was the recipient of the 2009 John Kraus Antenna Award of the IEEE Antennas and

Propagation Society. Channel Coding Techniques for Wireless Communications John Wiley & Sons Advanced Antenna Systems for 5G Network Deployments: Bridging the Gap between Theory and Practice provides a comprehensive understanding of the field of advanced antenna systems (AAS) and how they can be deployed in 5G networks. The book gives a thorough understanding of the basic technology components, the state-of-

the-art multi-antenna solutions, what support 3GPP has standardized together with the reasoning, AAS performance in real networks, and how AAS can be used to enhance network deployments. - Explains how AAS features impact network performance and how AAS can be effectively used in a 5G network, based on either NR and/or LTE - Shows what AAS configurations and features to use in different network deployment scenarios,

focusing on mobile broadband, but also including fixed wireless access - Presents the latest developments in multi-antenna technologies, including Beamforming, MIMO and cell shaping, along with the potential of different technologies in a commercial network context - Provides a deep understanding of the differences between mid-band and mm-Wave solutions
Learning Embedded Android N Programming
Springer Nature

The #1 selling Wi-Fi networking reference guide in the world The CWNA: Certified Wireless Network Administrator Study Guide is the ultimate preparation resource for the CWNA exam. Fully updated to align with the latest version of the exam, this book features expert coverage of all exam objectives to help you pass the exam. But passing the exam is just a first step. For over 16 years, the CWNA Study Guide has helped individuals jump-start

their wireless networking careers. Wireless networking professionals across the globe use this book as their workplace reference guide for enterprise Wi-Fi technology. Owning this book provides you with a foundation of knowledge for important Wi-Fi networking topics, including: Radio frequency (RF) fundamentals 802.11 MAC and medium access Wireless LAN topologies and architecture WLAN design, troubleshooting and validation Wi-Fi

networking security. The book authors have over 40 years of combined Wi-Fi networking expertise and provide real-world insights that you can leverage in your wireless networking career. Each of the book's 20 chapters breaks down complex topics into easy to understand nuggets of useful information. Each chapter has review questions that help you gauge your progress along the way. Additionally, hands-on exercises allow you to practice applying CWNA

concepts to real-world scenarios. You also get a year of free access to the Sybex online interactive learning environment, which features additional resources and study aids, including bonus practice exam questions. The CWNA certification is a de facto standard for anyone working with wireless technology. It shows employers that you have demonstrated competence in critical areas, and have the knowledge and skills to perform essential duties that keep their wireless

networks functioning and safe. The CWNA: Certified Wireless Network Administrator Study Guide gives you everything you need to pass the exam with flying colors. [Silicon Systems for Wireless LAN Course](#) Technology A comprehensive overview of the 5G landscape covering technology options, most likely use cases and potential system architectures. *Fundamentals of 5G Wireless Communications* Hardkernel, Ltd

A valuable guide for new and experienced readers, featuring the complex and massive world of IoT and IoT-based solutions.

CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Pearson uCertify Course and Labs Access Code Card John Wiley & Sons

A hands-on guide to planning, designing, installing and configuring wireless LANs that prepares students for the Certified Wireless Network Administrator (CWNA) certification. This second edition offers in-depth

coverage of wireless networks with extensive step-by-step coverage of IEEE 802.11b/a/g/pre-n implementation, design, security, and troubleshooting. Material is reinforced with hands-on projects at the end of each chapter from two of the principal wireless LAN vendors, Cisco and Linksys, giving the flexibility for this course to be taught in either a classroom or as an online course.

Energy and Bandwidth-Efficient Wireless Transmission

Hardkernel, Ltd

The past two decades have witnessed startling advances in wireless LAN technologies that were stimulated by its increasing popularity in the home due to ease of installation, and in commercial complexes offering wireless access to their customers. This book presents some of the latest development status of wireless LAN, covering the topics on physical layer, MAC layer, QoS and systems. It provides an opportunity for both practitioners and

researchers to explore the problems that arise in the rapidly developed technologies in wireless LAN.

Raspberry Pi User Guide
Springer

Examine the challenges of 4G in the light of impending and crucial future communication needs, and review the lessons learned from an implementation and system operation perspective with an eye towards the next generation – 5G. You'll investigate key changes and additions to 5G in

terms of use cases. You'll also learn about the applications for and explorations of the technology. Among all of the technological disruptions, two stand out in particular – mmWave and spectrum sharing technologies. Rolling Out 5G features detailed coverage of these two critical topics, and for the first time among 5G learning resources presents a holistic perspective on key ingredients for mobile communication in a 5G world. The authors

represent highly experienced experts with valuable know-how in the field of wireless communications related research projects defining future technological trends. This unique group of talents will be able to consider the 5G technology evolution from all angles mentioned: long-term research, standardization and regulation, product design and marketization. This approach allows this much-needed book to capture the views of all key decision making

stake-holders involved in the 5G definition process, and to serve readers in their roles connected with wireless communication's next generation of products and services. What You'll Learn See how 5G is expected to overcome 4G insufficiencies and challenges Examine expected 5G features, including usage of millimeter wave communication and licensed shared access Review key milestones of the next generation wireless communication

technology including key standardization and regulation bodies Study new technologies and upcoming changes in feature sets and client expectations. Who This Book Is For Engineers of mobile device and infrastructure manufacturing industries, development engineers of semiconductor manufacturing industries, and engineers with a general interest in the field. Mobile network operators, along with students and business professionals in the

telecommunications domain will also find the topic of interest.

5G and Beyond John Wiley & Sons

The first generation 802.11 wireless market, once struggling to expand, has spread from largely vertical applications such as healthcare, point of sale, and inventory management to become much more broad as a general networking technology being deployed in offices, schools, hotel guest rooms, airport departure

areas, airplane cabins, entertainment venues, coffee shops, restaurants, and homes. This has led to the tremendous growth of new sources of IEEE 802.11 devices. IEEE 802.11 equipment is now moving into its second stage, where the wireless LAN is being treated as a large wireless communication system. As a system, there is more to consider than simply the communication over the air between a single access point and the associated mobile devices. This has led to

innovative changes in the equipment that makes up a wireless LAN. The IEEE 802.11 Handbook: A Designer's Companion, Second Edition is for the system network architects, hardware engineers and software engineers at the heart of this second stage in the evolution of 802.11 wireless LANs and for those designers that will take 802.11 to the next stage. *CWNA Guide to Wireless LANs* John Wiley & Sons This is the eBook version of the print title. Note that

the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) exam success with this CompTIA Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Practice

with realistic exam questions. Get practical guidance for next steps and more advanced certifications. CompTIA A+ Cert Guide Core 1 (220-1001) and Core 2 (220-1002), Fifth Edition is a best-of-breed exam study guide. Leading IT certification instructor Rick McDonald shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise

manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools

and resources to help you craft your final study plan. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The CompTIA study guide helps you master all the topics on the A+ Core 1 (220-1001) and Core 2 (220-1002) exams, including: Core 1 (220-1001): Mobile devices, networking,

hardware, virtualization and cloud computing, and hardware and network troubleshooting Core 2 (220-1002): Operating systems, security, software troubleshooting, and operational procedures Extensive improvements in this edition include: new content on Windows 10, Chrome OS, security, scripting, and remote access; expanded coverage of troubleshooting, operational procedures, laptop teardown, subassembly

replacement, and virtualization; new coverage of Linux and macOS troubleshooting; new MacBook coverage; updated coverage of processors, BIOSes (including UEFI); USB 3.1 and USB-Type C; mobile device teardown; hardware upgrades; dealing with prohibited content/activity; Windows features and upgrade paths; and network and cloud computing.

Rolling Out 5G Apress
The increasing demand for wireless communications has

revolutionised the lifestyle of today's society and one of the key components of wireless technology is antenna design. Broadband planar antennas are the newest generation of antennas boasting the attractive features required, such as broad operating bandwidth, low profile, light weight, low cost and ease of integration into arrays or Radio Frequency (RF) circuits, to make them ideal components of modern communications systems. Research into small and broadband

antennas has been spurred by the rapid development of portable wireless communication devices such as cell phones, laptops and personal digital assistants. This all-encompassing volume, *Broadband Planar Antennas: Design and Applications*, systematically describes the techniques for all planar antennas from microstrip patch antennas, suspended

plate antennas and planar inverted-L/F antennas to planar dipole antennas. Also discussed are some of the most recent outcomes such as broadband antenna issues in promising ultra-wideband applications. Clearly describes the fundamentals of planar antennas and categorises them according to their radiation characteristics. Introduces the advanced progress in broadband

planar antennas for modern wireless communications. Includes a wealth of case studies, design guidelines, figures and tables. This text is essential reading for antenna, RF and microwave engineers and manufacturers within the telecommunications industry. Its highly accessible approach will also appeal to researchers, postgraduate students and academic lecturers.

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