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The Congressional Record is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The Congressional Record began publication in 1873. Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States (1789-1824), the Register of Debates in Congress (1824-1837), and the Congressional Globe (1833-1873)

This book provides an in-depth introduction to the International Telecommunication Union (ITU) Radio Regulations (RR) and the policies that govern them. Established in 1906, these regulations define the allocation of different frequency bands to different radio services, the mandatory technical parameters to be observed by radio stations, especially transmitters, and the procedures for spectrum use coordination at the international level. The book analyzes the interactions between different national policies and the ITU RR, noting how these interactions influence spectrum policy on the national level, setting up a comparative framework within which to view these regulations and their effects. Beginning with an overview of the history of the origins ITU RR, the book takes a deep dive into the components of spectrum management including radio communication service allocation, wireless technology selection, radio usage rights, and spectrum rights assignment, placing each analysis within the context of the push and pull between national and international regulations. The book concludes with chapters discussing issues affecting the future of spectrum policy, including spectrum policy reform in developing countries, the WRC-19, and IMT-2020. Shedding light on the longest-running treaty documents in the history of modern telecommunications and arguing for reforms that allow it to address the needs of all nations, this book is useful to scholars and students of telecom policy, digital policy, ICT, governance, and development as well as telecom industry practitioners and regulators.

Broadband is the great infrastructure challenge of the early 21st century. Broadband is a foundation for economic growth, job creation, global competitiveness and a better way of life. The number of Americans who have broadband at home has grown from 8 million in 2000 to nearly 200 million last year. But. 100 million Americans do not have broadband at home. In early 2009, Congress directed the FCC to develop a National Broadband Plan to ensure that every American has ¿access to broadband capability.¿ This plan must also include a strategy for achieving affordability and maximizing use of broadband. The plan presented here ensures that the entire broadband ecosystem ¿ networks, devices, content and applications¿ is healthy. Illus.

With the increased functionality demand for mobile speed and access in our everyday lives, broadband wireless networks have emerged as the solution in providing high data rate communications systems to meet these growing needs. Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation presents the latest trends and research on mobile ad hoc networks, vehicular ad hoc networks, and routing algorithms which occur within various mobile networks. This publication smartly combines knowledge and experience from enthusiastic scholars and expert researchers in the area of wideband and broadband wireless networks. Students, professors, researchers, and other professionals in the field will benefit from this book’s practical applications and relevant studies.

This book sets out to provide the theoretical foundations that will enable radio network planners to plan model and optimize radio networks using state-of-the-art findings from around the globe. It adopts a logical approach, beginning with the background to the present status of UMTS radio network technology, before devoting equal coverage to planning, modelling and optimization issues. All key planning areas are covered, including the technical and legal implications of network infrastructure sharing, hierarchical cell structure (HCS) deployment, ultra-high-site deployment and the benefits and limitations of using computer-aided design (CAD) software. Theoretical models for UMTS technology are explained as generic system models, stand-alone services and mixed services. Business modelling theory and methods are put forward, taking in propagation calculations, link-level, UMTS static and UMTS dynamic simulations. The challenges and goals of the automated optimization process are explored in depth using cutting-edge cost function and optimization algorithms. This theory-based resource containing prolific illustrative case studies explains the reasons for UMTS radio networks performance issues and how to use this foundational knowledge to model, plan and optimize present and future systems.

Translates technical jargon into practical businesscommunications solutions This book takes readers from traditional voice, fax, video, anddata services delivered via separate platforms to a single, unifiedplatform delivering all of these services seamlessly via theInternet. With its clear, jargon-free explanations, the authorenables all readers to better understand and assess the growingnumber of voice over Internet protocol (VoIP) and unifiedcommunications (UC) products and services that are available forbusinesses. VoIP and Unified Communications is based on the author's carefulreview and synthesis of more than 7,000 pages of publishedstandards as well as a broad range of datasheets, websites, whitepapers, and webinars. It begins with an introduction to IPtechnology

and then covers such topics as: Packet transmission and switching VoIP signaling and call processing How VoIP and UC are defining the future Interconnections with global services Network management for VoIP and UC This book features a complete chapter dedicated to cost analysesand payback calculations, enabling readers to accurately determinethe short- and long-term financial impact of migrating to variousVoIP and UC products and services. There's also a chapter detailingmajor IP systems hardware and software. Throughout the book,diagrams illustrate how various VoIP and UC components and systemswork. In addition, the author highlights potential problems andthreats to UC services, steering readers away from commonpitfalls. Concise and to the point, this text enables readers—fromnovices to experienced engineers and technical managers—tounderstand how VoIP and UC really work so that everyone canconfidently deal with network engineers, data center gurus, and topmanagement.

A timely overview of a complete spectrum of technologies specifically designed for public safety communications as well as their deployment as management In our increasingly disaster-prone world, the need to upgrade and better coordinate our public safety networks combined with successful communications is more critical than ever. Fundamentals of Public Safety Networks and Critical Communications Systems fills a gap in the literature by providing a book that reviews a comprehensive set of technologies, from most popular to the most advanced communications technologies that can be applied to public safety networks and mission-critical communications systems. The book explores the technical and economic feasibility, design, application, and sustainable operation management of these vital networks and systems. Written by a noted expert in the field, the book provides extensive coverage of systems, services, end-user devices, and applications of public-safety services and technologies. The author explores the potential for advanced public safety systems, and this comprehensive text covers all aspects of the public safety and critical communications network field. This important book: Provides an introduction to and discussion of the common characteristics of our critical communications systems Presents a review of narrowband technologies such as Project 25, TETRA, and DMR as well as the broadband technologies such as the LTE technology Focuses on the emerging technologies that can be adopted to improve our vital communications systems Discusses deployment of such technologies, including economics and finance, planning and project management Provides, in detail, the issues and solutions related to the management of such communications networks Offers a complete list of standards documents Written for professionals in the industry, academics, and government and regulatory agencies, Fundamentals of Public Safety Networks and Critical Communications Systems offers a review of the most significant safety technologies, explores the application for advanced technologies, and examines the most current research.

The Best Damn Cisco Internetworking Book Period shows readers everything they need to know about all Cisco internetworking topics. The book provides an understanding of Cisco's current VoIP solutions and the means to put them to work, showing how to configure all of Cisco's core VoIP products—among them Cisco CallManager software, Cisco 7910 series phones, and server-based IP PBXs. It discusses IPv6 Protocols, as well as IP Quality of Service (QoS) and how it applies to Enterprise and Internet Service Provider (ISP) environments. In addition, Cisco wireless technologies are covered in detail. Cisco has placed a high priority on security and here readers will find complete coverage of all the Cisco Security products such as the PIX firewall suite of products, Network Address Translation (NAT), Cisco VPN Concentrator and IPSec, Cisco Authentication, Authorization, and Accounting (AAA), Content Services Switch (CSS), and the Cisco Secure Network Intrusion Detection System. This book is sure to become a dog eared reference for all Cisco engineers and administrators. - The one book that covers all major Cisco Internetworking concepts and configurations. - The only book to cross reference Cisco internetworking topics: Voice Over IP, Remote Access, Wireless, AVVID, and QoS. In addition, new technologies are covered in depth: AVVID, SIP, MGCP, and more. - A 1-stop reference for Cisco professionals needing coverage of core Cisco exam topics.

Advances in medical technology increase both the efficacy and efficiency of medical practice, and mobile technologies enable modern doctors and nurses to treat patients remotely from anywhere in the world. This technology raises issues of quality of care and medical ethics, which must be addressed. E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications explores recent advances in mobile medicine and how this technology impacts modern medical care. Three volumes of comprehensive coverage on crucial topics in wireless technologies for enhanced medical care make this multi-volume publication a critical reference source for doctors, nurse practitioners, hospital administrators, and researchers and academics in all areas of the medical field. This seminal publication features comprehensive chapters on all aspects of e-health and telemedicine, including implementation strategies; use cases in cardiology, infectious diseases, and cytology, among others; care of individuals with autism spectrum disorders; and medical image analysis.

In the era of technological ubiquity and online interaction, the importance of proper computer training cannot be understated. Following established standards and practices boosts the value of communication in digital environments for all users. The Handbook of Research on Interactive Information Quality in Expanding Social Network Communications examines the strategic elements involved in ICT training within the context of online networks. Combining scientific, theoretical, and practical perspectives on the importance of communicability in such networks, this book is an essential reference source for researchers, students, teachers, designers, ICT specialists, engineers, and computer programmers interested in social networking technologies.

Enable enterprise-wide information access using Cisco wireless networks Wireless networks are rapidly becoming a viable alternative to traditional wired LANs (Local Area Networks), mainly because of the convenience they provide. By implementing a wireless network, companies eliminate the need and expense of installing fixed cables, outlet ports or patch panels. Building a Cisco Wireless LAN is for individuals designing and supporting a Cisco wireless LAN. The book contains detailed information on the process for the thorough and accurate network design for the Cisco 340, 350, and UBR 7200 series. The contains detailed information on the configuration and troubleshooting of a Cisco WLAN installation. The book offers an introduction to wireless technology from the fundamental principles to the actual implementation. The first book for Cisco LAN users looking to upgrade to a wireless network Ideal for Network administrators looking into wireless network technology for the first time

Today's smartphones utilize a rapidly developing range of sophisticated applications, pushing the limits of mobile processing power. The increased demand for cell phone applications has necessitated the rise of mobile cloud computing, a technological research arena which combines cloud computing, mobile computing, and

wireless networks to maximize the computational and data storage capabilities of mobile devices. Enabling Real-Time Mobile Cloud Computing through Emerging Technologies is an authoritative and accessible resource that incorporates surveys, tutorials, and the latest scholarly research on cellular technologies to explore the latest developments in mobile and wireless computing technologies. With its exhaustive coverage of emerging techniques, protocols, and computational structures, this reference work is an ideal tool for students, instructors, and researchers in the field of telecommunications. This reference work features astute articles on a wide range of current research topics including, but not limited to, architectural communication components (cloudlets), infrastructural components, secure mobile cloud computing, medical cloud computing, network latency, and emerging open source structures that optimize and accelerate smartphones.

Security for Multihop Wireless Networks provides broad coverage of the security issues facing multihop wireless networks. Presenting the work of a different group of expert contributors in each chapter, it explores security in mobile ad hoc networks, wireless sensor networks, wireless mesh networks, and personal area networks. Detailing technologies and processes that can help you secure your wireless networks, the book covers cryptographic coprocessors, encryption, authentication, key management, attacks and countermeasures, secure routing, secure medium access control, intrusion detection, epidemics, security performance analysis, and security issues in applications. It identifies vulnerabilities in the physical, MAC, network, transport, and application layers and details proven methods for strengthening security mechanisms in each layer. The text explains how to deal with black hole attacks in mobile ad hoc networks and describes how to detect misbehaving nodes in vehicular ad hoc networks. It identifies a pragmatic and energy efficient security layer for wireless sensor networks and covers the taxonomy of security protocols for wireless sensor communications. Exploring recent trends in the research and development of multihop network security, the book outlines possible defenses against packet-dropping attacks in wireless multihop ad hoc networks.Complete with expectations for the future in related areas, this is an ideal reference for researchers, industry professionals, and academics. Its comprehensive coverage also makes it suitable for use as a textbook in graduate-level electrical engineering programs.

This book outlines the development currently underway in the technology of new media and looks further to examine the unforeseen effects of this phenomenon on our culture, our philosophies, and our spiritual outlook. The digital revolution is something fundamentally different from simply the introduction of yet another medium to our culture: it marks a paradigm shift in our relation to all media, to all our senses, all our expressions. The new media are transforming our definitions of culture and knowledge and transcending barriers in ways that will have lasting implications for generations to come.

Using simple language, this text explains the properties of light, its interaction with matter, and how it is used to develop optical components such as filters and multiplexers that have applications in optical communications. The text also introduces the evolving dense wavelength division multiplexing (DWDM) technology and communications systems.

Green communications is a very hot topic. As mobile networks evolve in terms of higher rates/throughput, a consequent impact on operating costs is due to (aggregate) network energy consumption. As such, design on 4G networks and beyond have increasingly started to focus on `energy efficiency' or so-called 'green' networks. Many techniques and solutions have been proposed to enhance the energy efficiency of mobile networks, yet no book has provided an in-depth analysis of the energy consumption issues in mobile networks nor has detailed theories, tools and solutions for solving the energy efficiency problems. This book presents the techniques and solutions for enhancing energy efficiency of future mobile networks, and consists of three major parts. The first part presents a general description of mobile network evolution in terms of both capacity and energy efficiency. The second part discusses the advanced techniques to green mobile networks. The third part discusses the solutions that enhance mobile network energy efficiency as well as provides future directions. Whilst the reader is expected to have basic knowledge of wireless communications, the authors present a brief introduction of the evolution of mobile networks, providing the knowledge base for understanding the content of the book. In addition, complicated network problems are illustrated using simple examples. This will help the reader understand the concept and intuition of various techniques and solutions. Incorporates the latest research results from both academia and industry, providing an up-to-date overview of existing technologies and solutions on making mobile networks greener Consists of three sections with a gradually increasing technical depth on green mobile networks, providing the reader with a systematic view of the research area, and helping those with different technical backgrounds to better understand the content Covers existing enabling technologies for green mobile networking, including an innovative discussion of state-of-the-art solutions and algorithms

Expert authors draw on fundamental theory to explain the core principles and key design considerations for developing cognitive radio systems.

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

This book reports the latest advances on the design and development of mobile computing systems, describing their applications in the context of modeling, analysis and efficient resource management. It explores the challenges on mobile computing and resource management paradigms, including research efforts and approaches recently carried out in response to them to address future open-ended issues. The book includes 26 rigorously refereed chapters written by leading international researchers, providing the readers with technical and scientific information about various aspects of mobile computing, from basic concepts to advanced findings, reporting the state-of-the-art on resource management in such environments. It is mainly intended as a reference guide for researchers and practitioners involved in the design, development and applications of mobile computing systems, seeking solutions to related issues. It also represents a useful textbook for advanced undergraduate and graduate courses, addressing special topics such as: mobile and ad-hoc wireless networks; peer-to-peer systems for mobile computing; novel resource management techniques in cognitive radio networks; and power management in mobile computing systems.

"This book presents state-of-the-art research, developments, and integration activities in combined platforms of heterogeneous wireless networks"--Provided by publisher.