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Verizon Communications Inc. today introduced On Site LTE, a hardware-software bundle that can be used to set up a miniature 4G network in locations such as factories. Enterprises are deploying a gr

Get a firm and thorough grasp on the cutting-edge suite of standards and technologies that is 4G. This forward-looking book explains how wired and wireless network technology, telecommunications and Web services, communications standards like IP, and consumer electronics are converging to create 4G. Personalization is one concept driving the market for 4G applications and services, and this book guides you through the user-centric scenarios creating these applications and services.

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E-Government: Information, Technology, and Transformation provides a comprehensive overview of the wide domain of e-government, featuring contributions and perspectives from several disciplines. E-Government has strong roots in Information Systems, Public Administration, and Political Science -- all represented in this volume. Major sections of coverage include: --Foundations, standards of inquiry, and principles of system design --Organization, management, and transformation --Policy, governance, and participation --Infrastructure, interoperability, and services. The timeliness and high caliber of scholarly contributions from around the world make this volume a capstone of contemporary e-government research.

Satellite Communications and Navigation Systems publishes the proceedings of the 2006 Tyrrhenian International Workshop on Digital Communications. The book focuses on the integration of communication and navigation systems in satellites.

This book discusses a broad range of cyber security issues, addressing

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global concerns regarding cyber security in the modern era. The growth of Information and Communication Technology (ICT) and the prevalence of mobile devices make cyber security a highly topical and relevant issue. The transition from 4G to 5G mobile communication, while bringing convenience, also means cyber threats are growing exponentially. This book discusses a variety of problems and solutions including:

- Internet of things and Machine to Machine Communication;
- Infected networks such as Botnets;
- Social media and networking;
- Cyber Security for Smart Devices and Smart Grid
- Blockchain Technology and
- Artificial Intelligence for Cyber Security

Given its scope, the book offers a valuable asset for cyber security researchers, as well as industry professionals, academics, and students.

This book reveals the state-of-the-art in wireless ad-hoc networking. It addresses many complex and open problems for researchers in the field of ad hoc networks. It further discusses some of the key research topics that are expected to promote and accelerate the commercial application of these networks (e.g., MAC, routing, QoS, optimization issues, service discovery, traffic models, mobility, handovers, security). It also presents "killer applications".

The Only Resource to Cover Wireless, Wireline, and Optical Networks in One Volume Mobile and stationary next-generation networks that access the photonic core are destined to become as ubiquitous as traditional telephone networks. These networks must efficiently provide adequate network quality to multimedia applications with high bandwidth and strict quality-of-service requirements, as well as seamlessly integrate mobile and fixed architectures. Today's engineering students must be properly prepared to meet the challenges of next-generation network development and deployment. Featuring contributions from top industrial experts and academic professors, this authoritative work provides a comprehensive introduction to next-generation networks. It explains wireless networks such as wireless local area networks (WLAN), wireless personal area networks (WPAN), wireless access, 3G/4G cellular, and RF transmission, as well as optical networks like long-haul and metropolitan networks, optical fiber, photonic devices, and VLSI chips. Rather than focusing on heavy math or physical details, this resource explores how the technology is being used. It describes access and transport network layer technologies while also discussing the network and services aspects. Chapter coverage includes:

- Fiber-wireless networks: technologies, architectures, and future challenges
- Packet backhaul network
- Point-to-point microwave backhaul
- Fourth-generation broadband: paving the road to Gbit/s with copper
- Dynamic bandwidth allocation in EPON and GPON
- Next-generation ethernet passive optical networks: 10G-EPON
- Power line communications and smart grids
- Signaling for multimedia conferencing in 4G: architecture, evaluation, and issues
- Self-coexistence and security in cognitive radio networks
- Mobile WiMAX
- UWB personal area

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networks—MIMO extensions Next-generation integrated metropolitan-access network:technology integration and wireless convergence Resilient burst ring: a novel technology for the next-generation metropolitan area networks Filled with illustrations and practical examples from industry, this book will be invaluable to engineers and researchers in industry and academia, as well as senior undergraduate and graduate students, marketing and management staff, photonics physicists, and chip designers.

Based on cutting-edge research projects in the field, this book (part of a comprehensive 4-volume series) provides the latest details and covers the most impactful aspects of mobile, wireless, and broadband communications development. These books present key systems and enabling technologies in a clear and accessible manner, offering you a detailed roadmap the future evolution of next generation communications. Other volumes cover Networks, Services and Applications; Reconfigurability; and Ad Hoc Networks.

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