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Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband.

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Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband. You'll learn which choices are now available to an organization, how to evaluate them and how to develop strategies that achieve the best balance among cost, security and performance factors for voice, data, and image communication.

This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of

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great interest to practising engineers.

Whether you are an executive or sales manager in a networking company, a data communications engineer, or a telecommunications professional, you must have a thorough working knowledge of the ever growing and interrelated array of telecom and data communications technologies. From protocols and operation of the Internet (IP, TCP, HTTP, ...) and its access systems such as ADSL, and GSM... to the basics of transmission and switching, this newly revised resource delivers an up-to-date introduction to a broad range of networking technologies, clearly explaining the networking essentials you need to know to be a successful networking professional. Moreover, the book explores the future developments in optical, wireless and digital broadcast communications.

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Introduction to Telecommunications focuses on the technical and business aspects of a wide variety of technologies, encouraging readers to think about telecommunications systems in ways that will serve them well as the technology continues to evolve. In-depth coverage of current data and voice communications technologies is featured, along with extensive discussion of emerging technologies such as converged data/voice networks and more. Ideal for electronics and industrial technology students, Introduction to Telecommunications uses numerous real-world examples to explain technical concepts and illustrate how they are being applied today. Ample pedagogy - including chapter-opening objectives, key terms lists, review questions and exercises, plus a comprehensive glossary - is also included to guide readers to an

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understanding of how telecommunications technologies interact with business in today's Information Age.

Telecommunications is fundamental to modern society, with nearly everyone on the planet having access to a mobile phone, Wi-Fi, or satellite and terrestrial broadcast systems. This book is a concise analysis of both the basics of telecommunications as well as numerous advanced systems. It begins with a discussion of why we perform modulation of a carrier signal, continuing with a study of noise affecting all telecommunications links, be they digital or analogue in form. Digital communications techniques are examined in Modern Telecommunications: Basic Principles and Practices. Such an examination is crucial since radio, television, and satellite broadcasts are transmitted using a digital



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format. Analogue modulations are also considered. The logic behind such an investigation is because, whereas most broadcast systems are moving towards digital transmission, analogue techniques are still very much prevalent (most notably with AM and FM broadcasts). A topic that is often neglected in text books on telecommunications but is at the forefront of Modern Telecommunications concerns transmission lines. This is an important area of work since every length of coaxial cable used to convey signals from an antenna to a receiver is a transmission line. It is vitally important that a transmission line linking a transmitter to the antenna is matched and this topic is explored in great detail in several chapters dealing with Smith charts. Explains the background behind digital TV and radio as well as the legacy of analogue transmissions. Presents materials in a way that minimizes

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mathematics, making the topic more approachable and interesting to users. Provides a look at familiar systems that readers encounter in their everyday life (including mobile phones, Wi-Fi hotspots, satellites, digital TV, etc.). Demonstrates techniques and topics through end-of-chapter problems. Presents materials in an introductory form, making the information easily understandable and suitable for an undergraduate option course.

Following on from the successful first edition (March 2012), this book gives a clear explanation of what LTE does and how it works. The content is expressed at a systems level, offering readers the opportunity to grasp the key factors that make LTE the hot topic amongst vendors and operators across the globe. The book assumes no more than a basic knowledge of mobile telecommunication systems, and

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the reader is not expected to have any previous knowledge of the complex mathematical operations that underpin LTE. This second edition introduces new material for the current state of the industry, such as the new features of LTE in Releases 11 and 12, notably coordinated multipoint transmission and proximity services; the main short- and long-term solutions for LTE voice calls, namely circuit switched fallback and the IP multimedia subsystem; and the evolution and current state of the LTE market. It also extends some of the material from the first edition, such as inter-operation with other technologies such as GSM, UMTS, wireless local area networks and cdma2000; additional features of LTE Advanced, notably heterogeneous networks and traffic offloading; data transport in the evolved packet core; coverage and capacity estimation for LTE;

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and a more rigorous treatment of modulation, demodulation and OFDMA. The author breaks down the system into logical blocks, by initially introducing the architecture of LTE, explaining the techniques used for radio transmission and reception and the overall operation of the system, and concluding with more specialized topics such as LTE voice calls and the later releases of the specifications. This methodical approach enables readers to move on to tackle the specifications and the more advanced texts with confidence.

Telecommunications Essentials, Second Edition, provides a comprehensive overview of the rapidly evolving world of telecommunications. Providing an in-depth, one-stop reference for anyone wanting to get up to speed on the \$1.2 trillion telecommunications industry, this book not only covers the basic building

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**2nd Edition** introduces the most current information on new technologies. This edition features new sections on IP telephony, VPNs, NGN architectures, broadband access alternatives, and broadband wireless applications, and it describes the technological and political forces at play in the world of telecommunications around the globe. Topics include Communications fundamentals, from traditional transmission media, to establishing communications channels, to the PSTN Data networking and the Internet, including the basics of data communications, local area networking, wide area networking, and the Internet and IP infrastructures Next-generation networks, including the applications, characteristics, and requirements of the new generation of networks that are being built to quickly and reliably carry the ever-

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increasing network traffic, focusing on IP services, network infrastructure, optical networking, and broadband access alternatives Wireless networking, including the basics of wireless networking and the technologies involved in WWANs, WMANs, WLANs, and WPANs

Today's networks are required to support an increasing array of real-time communication methods. Video chat, real-time messaging, and always-connected resources put demands on networks that were previously unimagined. The Second Edition of Fundamentals of Communications and Networking helps readers better understand today's networks and the way they support the evolving requirements of different types of organizations. It discusses the critical issues of designing a network that will

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meet an organization's performance needs and discusses how businesses use networks to solve business problems.

Using numerous examples and exercises, this text incorporates hands-on activities to prepare readers to fully understand and design modern networks and their requirements. Key Features of the Second Edition: - Introduces network basics by describing how networks work - Discusses how networks support the increasing demands of advanced communications - Illustrates how to map the right technology to an organization's needs and business goals - Outlines how businesses use networks to solve business problems, both technically and operationally.

This Book, Telecommunication Switching And Networks Is Intended To Serve As A Textbook For Undergraduate Course Of Information Technology, Electronics And

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Communication Engineering, And  
Telecommunication Engineering.  
Telecommunication Switching Is  
Fastgrowing Field And Enormous  
Research And Development Are  
Undertaken By Various Organisations  
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Depth Knowledge On Telecommunication  
Switching And A Good Background For  
Advanced Studies In Communication  
Networks. For Best Understanding, More  
Diagrams (202), Tables (35) And Related  
Websites, Which Provide Sufficient  
Information Have Been Added.

Contains a compendium of the most  
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access. Comprehensive reference for designing, building, purchasing, using or maintaining all kinds of telecommunications systems. Central source of information on transmission, switching, traffic engineering, numbering, signaling, noise, modulation and forward error correction.

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