



Introduction to Wireless Systems, 2nd Edition; Technologies, Systems, Services and Market Growth

Lawrence Harte

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This book provides an overview of key wireless technologies, industries, systems and services. Wireless systems are communications networks that are installed and operated for information exchange between data communication devices that use wireless transmission. Although wireless networks can transfer any type of media (voice, data or video), the type of network, services used and optional configurations can dramatically affect the performance of information services. This book provides descriptions of the key types of wireless systems along with explanations of their functional parts. You will discover how mobile radios (subscriber stations), base stations, wireless networks and gateways work together to provide communication services. You will discover the fundamentals of wireless technologies and their terminology are described along with how the radio frequency spectrum is divided, the basics of radio frequency transmission and modulation, antennas and radio networks. You will learn about the different types of mobile telephone systems including cellular telephone, land mobile radio (LMR), cordless telephony and wireless PBX (WPBX). Explained are the key types of wireless personal area networks (WPANs) including Bluetooth and UWB. Discover how wireless LANs such as 802.11 WLAN are evolving to offer ultra broadband data transmission speeds. Learn how and why broadcast television, radio broadcast and wireless cable TV systems are transitioning from in way analog systems to two-way digital multimedia communication systems. Descriptions of paging systems are provided and you will discover how paging systems are evolving from one-way numeric messaging to two-way interactive information services. The key types of satellite systems are covered including GEO, MEO and LEO systems. An overview of fixed wireless systems including point to point microwave, wireless cable, and broadband wireless is included. Discover how WiMax systems operate and how it can provide data transmission speeds up to 155 Mbps at distances of 15 km or more. You will lean about the common types of wireless services and their approximate service costs along with the market numbers and trends for wireless industries. Some of the important topics featured are: . Functional parts of wireless networks . Descriptions of radios, base stations, mobile networks and gateways. . The market numbers and trends for wireless industries . Personal area wireless systems including Bluetooth and UWB . Mobile telephone systems from 1G, 2G, 2.5G to 3G . Private and public land mobile radio systems . Cordless and wireless office (WPBX) telephone systems. . Broadband wireless Wi-Fi and WiMax networks . Broadcast television, radio, wireless cable TV and satellite systems . Wireless service types

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