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Nota di contenuto

Cover Page; Wireless Communications and Networking; Copyright Page; Table of Contents; About the Author; Preface; Chapter 1. An Overview of Wireless Systems; 1.1 Introduction; 1.2 First- and Second-Generation Cellular Systems; 1.3 Cellular Communications from 1G to 3G; 1.4 Road Map for Higher Data Rate Capability in 3G; 1.5 Wireless 4G Systems; 1.6 Future Wireless Networks; 1.7 Standardization Activities for Cellular Systems; 1.8 Summary; Problems; References; Chapter 2. Teletraffic Engineering; 2.1 Introduction; 2.2 Service Level; 2.3 Traffic Usage; 2.4 Traffic Measurement Units; 2.5 Call Capacity; 2.6 Definitions of Terms; 2.7 Data Collection; 2.8 Office Engineering Considerations; 2.9 Traffic Types; 2.10 Blocking Formulas; 2.11 Summary; Problems; References; Chapter 3. Radio Propagation and Propagation Path-Loss Models; 3.1 Introduction; 3.2 Free-Space Attenuation; 3.3 Attenuation over Reflecting Surface; 3.4 Effect of Earth's Curvature; 3.5 Radio Wave Propagation; 3.6 Characteristics of a Wireless Channel; 3.7 Signal Fading Statistics; 3.8 Level Crossing Rate and Average Fade Duration; 3.9 Propagation Path-Loss Models; 3.10 Indoor Path-Loss Models; 3.11 Fade Margin; 3.12 Link Margin; 3.13 Summary; Problems; References; Chapter 4. An Overview of Digital Communication and Transmission; 4.1 Introduction; 4.2 Baseband Systems; 4.3 Messages, Characters, and Symbols; 4.4 Sampling Process; 4.5 Voice Communication; 4.6 Pulse Amplitude Modulation (PAM); 4.7 Pulse Code Modulation; 4.8 Shannon Limit; 4.9 Modulation; 4.10 Performance Parameters of Coding and Modulation Scheme; 4.11 Power Limited and Bandwidth-Limited Channel; 4.12 Nyquist Bandwidth; 4.13 OSI Model; 4.14 Data Communication Services; 4.15 Multiplexing; 4.16 Transmission Media; 4.17 Transmission Impairments; 4.18 Summary; Problems; References; Chapter 5. Fundamentals of Cellular Communications; 5.1 Introduction; 5.2 Cellular Systems; 5.3 Hexagonal Cell Geometry; 5.4 Cochannel Interference Ratio; 5.5 Cellular System Design in Worst-Case Scenario with an Omnidirectional Antenna; 5.6 Cochannel Interference Reduction; 5.7 Directional Antennas in Seven-Cell Reuse Pattern; 5.8 Cell Splitting; 5.9 Adjacent Channel Interference (ACI); 5.10 Segmentation; 5.11 Summary; Problems; References; Chapter 6. Multiple Access Techniques; 6.1 Introduction; 6.2 Narrowband Channelized Systems; 6.3 Spectral Efficiency; 6.4 Wideband Systems; 6.5 Comparisons of FDMA, TDMA, and DS-CDMA; 6.6 Capacity of a DS-CDMA System; 6.7 Comparison of DS-CDMA vs. TDMA System Capacity; 6.8 Frequency Hopping Spread Spectrum with M-ary Frequency Shift Keying; 6.9 Orthogonal Frequency Division Multiplexing (OFDM); 6.10 Multicarrier DS-CDMA (MC-DS-CDMA); 6.11 Random Access Methods; 6.12 Idle Signal Casting Multiple Access; 6.13 Packet Reservation Multiple Access; 6.14 Error Control Schemes for Link Layer; 6.15 Summary; Problems; References; Chapter 7. Architecture of a Wireless Wide-Area Network (WWAN)

Sommario/riassunto

This book provides comprehensive coverage of mobile data networking and mobile communications under a single cover for diverse audiences including managers, practicing engineers, and students who need to understand this industry. In the last two decades, many books have been written on the subject of wireless communications and networking. However, mobile data networking and mobile communications were not fully addressed in a unified fashion. This book fills that gap in the literature and is written to provide essentials of wireless communications and wireless networking, including Wireless Pe

