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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	WIRELESS AND MOBILE DATA NETWORKS; CONTENTS; PREFACE; ACKNOWLEDGMENTS; 1. WIRELESS DATA-INTRODUCTION; 1.1. Wireless Voice; 1.1.1. Fixed Minimum Bandwidth; 1.1.2. Vague Definition of Service Quality; 1.1.3. Delay Requirements; 1.2. Wireless Local Area Networks (WLANs); 1.2.1. Ad Hoc WLAN; 1.2.2. Infrastructure WLAN; 1.3. Wide Area Cellular Networks; 1.4. Fixed Wireless Networks; 1.5. Personal Area Networks; 1.6. Satellite-Based Data Networks; 1.7. Mobile IP; 1.8. The Wireless Spectrum; 1.8.1. Licensed and License-Free Bands; 1.8.2. Low-Power Wireless Data Systems; 1.8.3. Ultra-Wide Band (UWB) 1.8.4. The ISM Band 1.8.5. U-NII Spectrum; 1.8.6. Cellular Systems' Spectrum; 1.8.7. Fixed Wireless Systems; 1.8.8. Wireless Metropolitan Area Networks (WMAN); 1.8.9. Satellite Data Communications; References; 2. REFERENCE ARCHITECTURES FOR WIRELESS DATA NETWORKS; 2.1. Bluetooth™; 2.1.1. Bluetooth Radio; 2.1.2. Baseband

Layer; 2.1.3. Link Management Protocol (LMP); 2.1.4. Logical Link Control and Adaptation Protocol Layer (L2CAP); 2.1.5. Bluetooth Profiles; 2.1.5.1. Generic Access Profile (GAP); 2.1.5.2. Service Discovery Application Profile (SDAP); 2.2. IEEE 802.11  
2.2.1. Physical Layer (PHY)2.2.1.1. Physical Medium Dependent (PMD) Sublayer; 2.2.1.2. Physical Layer Convergence Protocol (PLCP); 2.2.2. Medium Access Control (MAC) Sublayer; 2.2.2.1. Contention Windows; 2.2.3. Layer and Station Management Planes; 2.3. HIPERLAN/2; 2.3.1. Physical Layer; 2.3.1.1. Link Adaptation; 2.3.2. Data Link Control Layer; 2.3.2.1. MAC; 2.3.2.2. Radio Link Control (RLC); 2.3.2.3. Dynamic Frequency Selection (DFS); 2.3.2.4. Error Control (EC); 2.3.3. Convergence Layer (CL); 2.4. Broadband Wireless Access Networks; 2.4.1. The User Plane; 2.4.2. MAC Layer  
2.4.2.1. Convergence Sublayer (CS)2.4.2.2. MAC Common Part Sublayer (CPS); 2.4.2.3. Privacy Sublayer; 2.4.3. PHY; 2.4.4. IEEE 802.16a; 2.4.5. Mobile Broadband Wireless Access (MBWA) Network; 2.5. Cellular Data Networks; 2.5.1. North American and European Cellular Networks; 2.5.2. Voice-Grade Modems; 2.5.3. Relative Look at Cellular Network Generations; 2.5.4. Core Network; 2.6. Summary; References; 3. COMPONENTS OF A WIRELESS LAN; 3.1. Local Area Networks (LANs); 3.1.1. LAN Interconnection (Topology); 3.1.2. Addressing Mechanisms; 3.1.3. Medium Specification; 3.1.4. Physical Layer Mechanisms 3.1.5. Data Link Control Layer3.1.6. Traffic Differentiation; 3.1.7. WAN/LAN Connection; 3.2. Wireless LAN Components; 3.2.1. Physical Layer Components; 3.2.1.1. Station Types; 3.2.1.2. Channel Media; 3.2.1.3. Physical Link; 3.2.1.4. Signal Conditioning; 3.2.1.5. Interference-Reduction Mechanisms; 3.2.1.6. Modulation of Signals; 3.2.1.7. Data Transmission; 3.2.1.8. Convergence Procedures; 3.2.1.9. Rate Selection Capability; 3.2.1.10. Synchronization, Flow and Error-Control Capabilities; 3.2.1.11. Physical Layer Management; 3.2.2. Medium Access Control (MAC) Layer Components  
3.2.2.1. Network Configurations

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## Sommario/riassunto

Wireless and Mobile Data Networks provides a single point of knowledge about wireless data technologies, including:  
Comprehensive easy-to understand resource on wireless data technologies\* Includes wireless media, data transmission via cellular networks, and network security\* Provides a single point of knowledge about wireless data\* Focuses on wireless data networks, wireless channels, wireless local networks, wide area cellular networks and wireless network securityAn Instructor Support FTP site is available from the Wiley editorial department.

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