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	Nota di contenuto	<ul> <li>WIRELESS NETWORKS; Contents; Preface; 1 Introduction to Wireless Networks; 1.1 Evolution of Wireless Networks; 1.1.1 Early Mobile Telephony; 1.1.2 Analog Cellular Telephony; 1.1.3 Digital Cellular Telephony; 1.1.4 Cordless Phones; 1.1.5 Wireless Data Systems; 1.1.6 Fixed Wireless Links; 1.1.7 Satellite Communication Systems; 1.1.8 Third Generation Cellular Systems and Beyond; 1.2 Challenges; 1.2.1 Wireless Medium Unreliability; 1.2.2 Spectrum Use; 1.2.3 Power Management; 1.2.4 Security; 1.2.5 Location/Routing; 1.2.6 Interfacing with Wired Networks; 1.2.7 Health Concerns; 1.3 Overview</li> <li>1.3.1 Chapter 2: Wireless Communications Principles and Fundamentals1.3.2 Chapter 3: First Generation (1G) Cellular Systems; 1.3.3 Chapter 4: Second Generation (2G) Cellular Systems; 1.3.4 Chapter 5: Third Generation (3G) Cellular Systems; 1.3.5 Chapter 6: Future Trends: Fourth Generation (4G) Systems and Beyond; 1.3.6 Chapter 7: Satellite Networks; 1.3.7 Chapter 8: Fixed Wireless Access Systems; 1.3.8 Chapter 9: Wireless Local Area Networks; 1.3.9 Chapter 10: Wireless ATM and Ad Hoc Routing; 1.3.10 Chapter 11: Personal Area Networks (PANs)</li> <li>1.3.11 Chapter 12: Security Issues in Wireless Systems1.3.12 Chapter 13: Simulation of Wireless Network Systems; 1.3.13 Chapter 14:</li> </ul>

	Economics of Wireless Networks; WWW Resources; References; 2 Wireless Communications Principles and Fundamentals; 2.1 Introduction; 2.1.1 Scope of the Chapter; 2.2 The Electromagnetic Spectrum; 2.2.1 Transmission Bands and their Characteristics; 2.2.2 Spectrum Regulation; 2.3 Wireless Propagation Characteristics and Modeling; 2.3.1 The Physics of Propagation; 2.3.2 Wireless Propagation Modeling; 2.3.3 Bit Error Rate (BER) Modeling of Wireless Channels 2.4 Analog and Digital Data Transmission2.4.1 Voice Coding; 2.5 Modulation Techniques for Wireless Systems; 2.5.1 Analog Modulation; 2.5.2 Digital Modulation; 2.6 Multiple Access for Wireless Systems; 2.6.1 Frequency Division Multiple Access (FDMA); 2.6.2 Time Division Multiple Access (TDMA); 2.6.3 Code Division Multiple Access (CDMA); 2.6.4 ALOHA-Carrier Sense Multiple Access (CSMA); 2.6.5 Polling Protocols; 2.7 Performance Increasing Techniques for Wireless Networks; 2.7.1 Diversity Techniques; 2.7.2 Coding; 2.7.3 Equalization; 2.7.4 Power Control; 2.7.5 Multisubcarrier Modulation 2.8 The Cellular Concept2.8.1 Mobility Issues: Location and Handoff; 2.9 The Ad Hoc and Semi Ad Hoc Concepts; 2.9.1 Network Topology Determination; 2.9.2 Connectivity Maintenance; 2.9.3 Packet Routing; 2.9.4 The Semi Ad Hoc Concept; 2.10 Wireless Services: Circuit and Data (Packet) Mode; 2.10.1 Circuit Switching; 2.10.2 Packet Switching; 2.11 Data Delivery Approaches; 2.11.1 Pull and Hybrid Systems; 2.11.2 Push Systems; 2.11.3 The Adaptive Push System; 2.12 Overview of Basic Techniques and Interactions Between the Different Network Layers; 2.13 Summary; WWW Resources; References Further Reading
Sommario/riassunto	Wireless is a term used to describe telecommunications in which electromagnetic waves (rather than some form of wire) carry the signal over part or all of the communication path and the network is the totality of switches, transmission links and terminals used for the generation, handling and receiving of telecoms traffic.Wireless networks are rapidly evolving, and are playing an increasing role in the lives of people throughout the world and ever-larger numbers of people are relying on the technology directly or indirectly.The area of wireless communications is an extremely ric