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Manufacturing Test Setups; 7.3 Radio Calibration; 7.4 Programming; 7.5 Functional and System Testing; 7.6 Failure Patterns; Chapter 8: Installation Test; 8.1 Enterprise WLANs; 8.2 Hot-spots; 8.3 The Site Survey; 8.4 Propagation Analysis and Prediction; 8.5 Maintenance and Monitoring; Chapter 9: Testing MIMO Systems; 9.1 What is MIMO?; 9.2 The IEEE 802.11n PHY; 9.3 A New PLCP/MAC Layer; 9.4 The MIMO Testing Challenge
9.5 Channel Emulation
9.6 Testing 802.11n MIMO Devices; Appendix A: A Standards Guide; A.1 FCC Part 15; A.2 IEEE 802.11; A.3 Wi-Fi® Alliance; A.4 CTIA; A.5 IETF BMWG; Appendix B: Selected Bibliography; Index; A; B; C; D; E; F; G; H; I; J; L; M; N; O; P; Q; R; S; T; U; V; W

Sommario/riassunto

As WLANs (Wireless Local Area Networks) become increasingly common, it's becoming vital to be able to test them for proper performance and to optimize their operation. This book, written by a member of the IEEE committee that develops WLAN standards, is the first book addressing that need. It covers test equipment and methods for the RF (wireless) and physical layers of WLAN, protocols, the application layer, and manufacturing testing. The emphasis throughout is on underlying engineering principles along with modern metrics and methodologies, ensuring this book gives both a solid theoretical b
