

1. Record Nr.	UNINA9910813080403321
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Titolo	Optimizing and testing WLANs : proven techniques for maximum performance // by Tom Alexander
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier Newnes, c2007
ISBN	1-281-03654-4 9786611036546 0-08-055112-2
Edizione	[1st edition]
Descrizione fisica	1 online resource (268 p.)
Collana	Communications engineering series
Disciplina	004.6/8
Soggetti	Wireless LANs - Security measures Local area networks (Computer networks) - Security measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 245-248) and index.
Nota di contenuto	Front cover; Optimizing and Testing WLANs; Copyright page; Contents; Preface; Introduction; Chapter 1: IEEE 802.11 WLAN Systems; 1.1 IEEE 802.11 Wireless Local Area Networks; 1.2 WLAN Standards Today; 1.3 Inside WLAN Devices; 1.4 The RF Layer; Chapter 2: Metrology, Test Instruments, and Processes; 2.1 Metrology: the Science of Measurement; 2.2 The Nomenclature of Measurement; 2.3 Measurement Quality Factors; 2.4 The WLAN Engineer's Toolbox; 2.5 Test Setups and Test Processes; 2.6 Repeatability; Chapter 3: WLAN Test Environments; 3.1 Wired vs. Wireless; 3.2 Types of Environments 3.3 Outdoor and Indoor OTA3.4 Chambered OTA Testing; 3.5 Conducted Test Setups; 3.6 Repeatability; Chapter 4: Physical Layer Measurements; 4.1 Types of PHY Layer Measurements; 4.2 Transmitter Tests; 4.3 Receiver Tests; 4.4 Electromagnetic Compatibility Testing; 4.5 System Performance Tests; 4.6 Getting the DUT to Respond; Chapter 5: Protocol Testing; 5.1 An Introduction to Protocol Testing; 5.2 Conformance and Functional Testing; 5.3 Interoperability Testing; 5.4 Performance Testing; 5.5 Standardized Benchmark Testing; Chapter 6: Application-Level Measurements; 6.1 System-level Measurements 6.2 Application Traffic Mixes6.3 VoIP Testing; 6.4 Video and Multimedia; 6.5 Relevance and Repeatability; Chapter 7: WLAN Manufacturing Test; 7.1 The WLAN Manufacturing Flow; 7.2

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
