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| Descrizione fisica | 1 online resource (340 p.) |
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| Nota di contenuto | WiMAX RF Systems Engineering; Contents; Preface; Part I Introduction; Chapter 1 Introduction; Chapter 2 OFDM Flavors, ISI, Doppler, Rayleigh, and Fading; Part II Technical Background; Chapter 3 Modulation; Chapter 4 RF Propagations, Measurements, and Models; Chapter 5 Communication Channel Characterization; Part III WiMAX Radio Design; |

Chapter 6 Network Planning Fundamentals; Chapter 7 Point-to-Point Link Design; Chapter 8 Link, Design, Oversubscription, and Delay; Chapter 9 WiMAX Capacity, Frequency Planning, and MIMO Antennas; Chapter 10 Case Study
Chapter 11 Preliminary Design to BenchmarkingPart IV Network and Security; Chapter 12 Fundamentals of WiMAX Network; Chapter 13 WiMAX Security; Part V Comparable Systems; Chapter 14 WiFi Radio Planning; Chapter 15 UMTS and WiMAX Comparison; Chapter 16 Competing with and Complementing WiMAX; Appendix A Erlang B; Appendix B Erlang C; Appendix C Error Functions; Appendix D Mathematical Formula; D.1 Basic RF Design Formulas; Acronyms; About the Author; Index

Sommario/riassunto

Already deployed in over 42 countries, WiMAX is quickly becoming one of the most important technologies for IP-based high-speed communications. This practical book delivers a solid understanding of WiMAX technology and RF network planning and deployment techniques without undue mathematical rigors. You find numerous examples and real-world case studies that illustrate the evolution of the design process. The book provides hands-on details on essential considerations and important aspects of the technology, from link budget, communication channel characterization, and capacity, to frequency planning, channel impairments and point-to-point link design. You also find in-depth discussions on WiMAX security and how WiMAX complements other technologies.
