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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface. -- Chapter 1. Radio Propagation. -- Chapter 2. Line-of-Sight Microwave Radiolinks. -- Chapter 3. Digital Line-of-Sight Microwave Radiolinks. -- Chapter 4. Forward Error Correction and Advanced Digital Waveforms. -- Chapter 5. Over-the-Horizon Radiolinks. -- Chapter 6. Basic Principles of Satellite Communications. -- Chapter 7. Digital Communications by Satellite. -- Chapter 8. Very Small Aperture Terminals. -- Chapter 9. Radio System Design Above 10 GHz. -- Chapter 10. Mobile Communications: Cellular Radio and Personal Communication Services. -- Chapter 11. Wireless LANs. -- Chapter 12. High-Frequency (HF) Transmission Links. -- Chapter 13. Meteor Burst Communication. -- Chapter 14. Interference Issues in Radio Communications. -- Chapter 15. Radio Terminal Design Considerations. -- Appendix 1: Availability of a line-of-Sight Microwave Link. -- Appendix 2: References Fields and Theoretical References; Converting RF Field Strength to Power. -- Appendix 3: Glossary of Acronyms and Abbreviations. -- Index.
Sommario/riassunto	Step-by-step tutorial to master current design techniques for wireless communication systems The Third Edition of Radio System Design for Telecommunications brings this highly acclaimed book fully up to date with the latest technological advances and new applications. At the

same time, the hallmarks of the previous editions, including the text's popular tutorial presentation, have been retained. Readers therefore get all the tools and guidance they need to master an essential set of current design techniques for radio systems that operate at frequencies of 3 MHz to 100 GHz. Using simple mathematics, the author illustrates design concepts and applications. The book's logical organization, beginning with a discussion of radio propagation problems, enables readers to progressively develop the skills and knowledge needed to advance in the text. Topics that are new to the Third Edition include: . Chapter devoted to wireless LANs (WLANs) as detailed in IEEE 802.11. Subsections covering IEEE 802.15, 802.16, 802.20, and the wireless metropolitan area network (WMAN). WiFi, WiMax, and UWB applications that have recently experienced explosive growth. Broadband radio in telecommunications, as well as offset frequency division multiplex (OFDM), a new technique for transmitting information in an interference environment. The use of very small aperture satellite terminal (VSAT) systems as an economical alternative to public switched telecommunication networks (PSTN) Review questions and problems at the end of each chapter engage readers' newfound skills and knowledge and help them assess whether they are ready to progress to the next chapter. References are provided for readers who want to investigate particular topics in greater depth. Students in wireless telecommunications will find the book's tutorial style ideal for learning all the ins and outs of radio system design, whereas professionals in the industry will want to refer to the Third Edition for its clear explanations of the latest technology and applications.
