1. Record Nr. UNINA990005876990403321

Autore	Granderoute, Robert
Titolo	Le roman pédagogique de Fénelon a Rousseau / Robert Granderoute
Pubbl/distr/stampa	Genève ; Paris : Slatkine, 1985
ISBN	2-05-100652-0
Descrizione fisica	2 v. ; 23 cm
Disciplina	843.509
Locazione	FLFBC
Collocazione	843.509 GRA 1(1) 843.509 GRA 1(2)
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910830315403321

Autore	Fazel Khaled
Titolo	Multi-carrier and spread spectrum systems : from OFDM and MC-CDMA to LTE and WiMAX / / K. Fazel and S. Kaiser
Pubbl/distr/stampa	Chichester, U.K. : , : Wiley, , c2008 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2008]
ISBN	1-283-20349-9 9786613203496 0-470-71424-7 0-470-71423-9
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (380 p.)
Altri autori (Persone)	KaiserStefan
Disciplina	621.382 621.3845
Soggetti	Spread spectrum communications Multiplexing Livres electroniques.
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 and index.
Nota di contenuto	Foreword. -- Preface (Second Edition). -- Preface (First Edition). -- Acknowledgments. -- Introduction. -- 1. Fundamentals. -- 1.1 Radio Channel Characteristics. -- 1.2 Multi-Carrier Transmission. -- 1.3 Spread Spectrum Techniques. -- 1.4 Multi-Carrier Spread Spectrum. -- 1.5 References. -- 2. MC-CDMA and MC-DS-CDMA. -- 2.1 MC-CDMA. -- 2.2 MC-DS-CDMA. -- 2.3 References. -- 3. Hybrid Multiple Access Schemes. -- 3.1 Introduction. -- 3.2 Multi-Carrier FDMA. -- 3.3 Multi-Carrier TDMA . -- 3.4 Ultra Wide Band Systems. -- 3.5 Comparison of Hybrid Multiple Access Schemes. -- 3.6 References. -- 4. Implementation Issues. -- 4.1 Multi-Carrier Modulation and Demodulation. -- 4.2 Synchronization. -- 4.3 Channel Estimation. -- 4.4 Channel Coding and Decoding. -- 4.5 Signal Constellation, Mapping, De-Mapping, and Equalization. -- 4.6 Adaptive Techniques in Multi-Carrier Transmission. -- 4.7 RF Issues. -- 4.8 References. -- 5. Applications. -- 5.1 Introduction. -- 5.2 3GPP Long Term Evolution (LTE). -- 5.3 WiMAX. -- 5.4 Future Mobile Communications Concepts and Field Trials. -- 5.5 Wireless Local Area Networks. -- 5.6 Interaction Channel for DVB-T: DVB-RCT. -- 6. Additional Techniques for Capacity and Flexibility Enhancement. -- 6.1 Introduction. -- 6.2 MIMO Overview. -- 6.3 Diversity Techniques for Multi-Carrier Transmission. -- 6.4 Spatial Pre-Coding for Multi-Carrier transmission. -- 6.5 Software-Defined Radio. -- References. -- Definitions, Abbreviations, and Symbols. -- Definitions. -- Abbreviations. -- Symbols. -- Index.
Sommario/riassunto	The technological progress in multi-carrier (MC) modulation led orthogonal frequency division multiplexing (OFDM) to become an important part of beyond 3G cellular mobile communication standards, including LTE and WiMAX. In addition, the flexibility offered by the spread spectrum (SS) and time division multiplexing (TDM) techniques motivated many researchers to investigate several MC combined multiple access schemes, such as MC-CDMA, OFDMA and MC-TDMA. These schemes benefit from the advantages of each sub-system and offer high flexibility, high spectral efficiency, simple detection strategies and narrow-band interference rejection capability. Multi-Carrier and Spread Spectrum Systems is one of the first books to describe and analyze the basic concepts of multi-carrier OFDM transmission and its combination with spread spectrum (MC-CDMA). The different architectures and detection strategies as well as baseband-related transceiver components are explained. This includes topics like FEC channel coding and decoding, modulation and demodulation (IFFT/FFT), digital I/Q-generation, time and frequency synchronisation, channel estimation, frequency domain equalization and RF aspects such as phase noise and non-linearity issues. Concrete examples of its applications for cellular mobile communication systems (B3G/4G) are given. Further derivatives of MC-SS (such as OFDMA, SS-MC-MA and DFT-spread OFDM) and their corresponding applications in the LTE, WiMAX, WLAN and DVB-RCT standards are detailed. Capacity and flexibility enhancements of multi-carrier OFDM systems by different MIMO diversity techniques such as space time/frequency coding (STC, SFC) and software defined radio concepts are also described. Written in a highly accessible manner this book provides a unique reference on the topics of multi-carrier and spread spectrum communications, assisting 4G engineers with their implementation. . Fully updated new edition of successful text, including two new chapters on LTE and WiMAX . Describes in detail new applications of

OFDM in mobile communication standards . Examines all multi-carrier spread spectrum schemes, with in-depth analysis, from theory to practice . Introduces the essentials of important wireless standards based on multi-carrier/spread spectrum techniques.