

1. Record Nr.	UNINA9910131392103321
Autore	Pischella Mylene
Titolo	Digital communications 2 : digital modulations / / Mylene Pischella, Didier Le Ruyet
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : Wiley, , 2015 ©2015
ISBN	1-119-18998-5 1-119-19003-7 1-119-18999-3
Edizione	[1st edition]
Descrizione fisica	1 online resource (253 p.)
Collana	Networks and Telecommunications Series
Disciplina	621.382
Soggetti	Digital communications Signal processing - Digital techniques
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	Table of Contents; Title; Copyright; Preface; List of Acronyms; Notations; Introduction; 1: Background; 1.1. Introduction; 1.2. Common operations and functions; 1.3. Common transforms; 1.4. Probability background; 1.5. Background on digital signal processing; 2: Baseband Transmissions; 2.1. Introduction; 2.2. Line codes; 2.3. Additive white Gaussian noise channel; 2.4. Optimum reception on the additive white Gaussian noise channel; 2.5. Nyquist criterion; 2.6. Conclusion; 2.7. Exercises; 3: Digital Modulations on Sine Waveforms; 3.1. Introduction 3.2. Passband transmission and equivalent baseband chain3.3. Linear digital modulations on sine waveforms; 3.4. Frequency shift keying; 3.5. Conclusion; 3.6. Exercises; 4: Synchronization and Equalization; 4.1. Introduction; 4.2. Synchronization; 4.3. Equalization; 4.4. Conclusion; 4.5. Exercises; 5: Multi-carrier Modulations; 5.1. Introduction; 5.2. General principles of multi-carrier modulation; 5.3. OFDM; 5.4. FBMC/OQAM; 5.5. Conclusion; 5.6. Exercises; 6. Coded Modulations; 6.1. Lattices; 6.2. Block-coded modulations; 6.3. Trellis-coded modulations; 6.4. Conclusion; Appendices Appendix A: Evaluation of the Power Spectrum Density of a Baseband SignalAppendix B: Polyphase Implementation of FBMC/OQAM;

Bibliography; Index; Summary of Volume 1: Digital Communications 1;
End User License Agreement

Sommario/riassunto

This second volume covers the following blocks in the chain of communication: the modulation baseband and transposed band, synchronization and channel estimation as well as detection. Variants of these blocks, the multicarrier modulation and coded modulations are used in current systems or future.
