Record Nr. UNINA9910784648003321 **Titolo** Wireless networks [[electronic resource]]: from the physical layer to communication, computing, sensing, and control / / edited by Giorgio Franceschetti and Sabatino Stornelli Boston,: Academic Press, c2006 Pubbl/distr/stampa Oxford;; Burlington,: Academic, 2006 **ISBN** 1-281-05051-2 9786611050511 0-08-048179-5 Edizione [1st edition] Descrizione fisica 1 online resource (359 p.) Altri autori (Persone) FranceschettiGiorgio StornelliSabatino Disciplina 004.6/8 Soggetti Wireless LANs Personal communication service systems Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Lectures presented in Capri, Italy, fall of 2004. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; Wireless Networks; Copyright Page; Table of Contents; Foreword; Preface; About the Authors; Chapter 1 Wireless Networks and Their Context; 1.1 Introduction; 1.2 The Scenario; 1.3 The Players; 1.4 Concluding Remarks; Chapter 2 The Wireless Communications Physical Layer: 2.1 Historical Perspectives: 2.2 Digital Communication Basics: 2.2.1 Complex Baseband Representation of Bandpass Signals; 2.2.2 Digital Transmission; 2.2.3 Performance Metrics for Digital Communication; 2.2.4 Some Limits on Performance of Digital Communication Systems; 2.2.5 Optimum Demodulation; 2.2.6 Discussion 2.3 Orthogonal Modulations 2.3.1 Orthogonal Frequency Division Multiplexing: 2.3.2 Orthogonal Code Division Multiplexing: 2.3.3 Binary Stream Modulation; 2.3.4 Orthogonal Modulations with Memory; 2.4

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Sommario/riassunto

Awarded by the International Calabria's Prize!This multidisciplinary volume originates from lectures presented at a short course on wireless communications in Capri, Italy. This globally attended conference has produced an exceptional book written by pioneers in the field. Lecturers at Capri included pillars in the fields of electromagnetics, communications, information technology and mathematics. As communications technology becomes increasingly wireless, an interdisciplinary viewpoint is necessary for professionals to correct problems and avoid others before they occur.

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