Record Nr. UNINA9910823741103321 Ultra wideband systems: technologies and applications / / edited by **Titolo** Roberto Aiello and Anui Batra Pubbl/distr/stampa Boston, Mass.;; London,: Newnes, 2006 **ISBN** 1-281-03506-8 9786611035068 0-08-054334-0 Edizione [1st edition] Descrizione fisica 1 online resource (341 p.) Collana Communications engineering series. Altri autori (Persone) AjelloR (Roberto) BatraAnui Disciplina 621.384 Broadband communication systems Soggetti Ultra-wideband devices Wireless communication systems 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 Front Cover: Ultra Wideband Systems: Technologies and Applications: Copyright Page; Table of Contents; Preface; Introduction; Chapter 1. History of Ultra Wideband Communication Systems; Chapter 2. UWB Spectrum and Regulations; Chapter 3. Interference and Coexistence; Chapter 4. UWB Antennas: Chapter 5. Direct-Sequence UWB: Chapter 6. Multiband Approach to UWB; Chapter 7. Spectral Keying TM: A Novel Modulation Scheme for UWB Systems; Chapter 8. Multiband OFDM; Chapter 9. MAC Designs for UWB Systems; Chapter 10. Standards for UWB Communications; Chapter 11. Commercial Applications About the ContributorsIndex Sommario/riassunto Ultra wideband technology turns the radio spectrum available to wireless applications from a country road into a high-speed ten lane super freeway, and the destination is the future of wireless technology. UWB is a huge leap forward because it offers wide bandwidth with little interference, allowing multiple UWB signals to share a single channel. This multi-author volume, compiled under the guidance of Dr. Roberto Aiello, introduces the theory and concepts behind ultra wideband (UWB)

systems as well as their applications. Authors include those involved in

creating the UWB standards, researcher