Record Nr. UNINA9910876708303321 LTE for UMTS-OFDMA and SC-FDMA based radio access / / edited by **Titolo** Harri Holma, Antti Toskala Pubbl/distr/stampa Chichester, West Sussex, U.K.; Hoboken, NJ,: Wiley, 2009 **ISBN** 1-282-12367-X 9786612123672 0-470-74548-7 0-470-74547-9 Descrizione fisica 1 online resource (461 p.) Altri autori (Persone) HolmaHarri <1970-> ToskalaAntti 621.3845/6 Disciplina 621.38456 Universal Mobile Telecommunications System Soggetti Wireless communication systems - Standards Mobile communication systems - Standards Global system for mobile communications Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia LTE for UMTS - OFDMA and SC-FDMA Based Radio Access; Preface; Nota di contenuto Acknowledgements; List of Abbreviations; 1 Introduction; 1.1 Mobile Voice Subscriber Growth; 1.2 Mobile Data Usage Growth; 1.3 Wireline Technologies Evolution; 1.4 Motivation and Targets for LTE; 1.5 Overview of LTE; 1.6 3GPP Family of Technologies; 1.7 Wireless Spectrum; 1.8 New Spectrum Identified by WRC-07; 1.9 LTE-Advanced; 2 LTE Standardization; 2.1 Introduction; 2.2 Overview of 3GPP Releases and Process; 2.3 LTE Targets; 2.4 LTE Standardization Phases; 2.5 Evolution Beyond Release 8; 2.6 LTE-Advanced for IMT-Advanced 2.7 LTE Specifications and 3GPP StructureReferences; 3 System Architecture Based on 3GPP SAE; 3.1 System Architecture Evolution in 3GPP SAE: 3.2 Basic System Architecture Configuration with only E-

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Sommario/riassunto

From the editors of the highly successful WCDMA for UMTS, this new book gives a complete and up-to-date overview of Long Term Evolution (LTE) in a systematic and clear manner. It starts with an indepth explanation of the background and standardization process before moving on to examine the system architecture evolution (SAE). The basics of air interface modulation choices are introduced and key subjects such as 3GPP LTE physical layer and protocol solutions are described. Mobility aspects and radio resource management together with radio and end-to-end performance are assessed. The vo