1. Record Nr. UNINA9911020097803321 Autore Holma Harri <1970-> Titolo HSDPA/HSUPA for UMTS: high speed radio access for mobile communications / / edited by Harri Holma and Antti Toskala Chichester, England;; Hoboken, NJ,: John Wiley, c2006 Pubbl/distr/stampa **ISBN** 9786610739714 9781280739712 1280739711 9780470032633 0470032634 9780470032626 0470032626 Descrizione fisica 1 online resource (269 p.) Altri autori (Persone) ToskalaAntti Disciplina 621.3845 Soggetti Mobile communication systems Very high speed integrated circuits Code division multiple access 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 HSDPA/HSUPA for UMTS; Contents; Preface; Acknowledgements; Nota di contenuto Abbreviations; 1 Introduction; 1.1 WCDMA technology and deployment status; 1.2 HSPA standardization and deployment schedule; 1.3 Radio capability evolution with HSPA; 2 HSPA standardization and background; 2.1 3GPP; 2.1.1 HSDPA standardization in 3GPP; 2.1.2 HSUPA standardization in 3GPP; 2.1.3 Further development of HSUPA and HSDPA; 2.1.4 Beyond HSDPA and HSUPA; 2.2 References; 3 HSPA architecture and protocols; 3.1 Radio resource management architecture; 3.1.1 HSDPA and HSUPA user plane protocol architecture 3.1.2 Impact of HSDPA and HSUPA on UTRAN interfaces 3.1.3 Protocol states with HSDPA and HSUPA; 3.2 References; 4 HSDPA principles; 4.1 HSDPA vs Release 99 DCH; 4.2 Key technologies with HSDPA; 4.2.1 High-speed downlink shared channel; 4.2.2 High-speed shared control

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## Sommario/riassunto

From the editors of the highly successful WCDMA for UMTS, this new book provides a comprehensive and up-to-date reference to High Speed Packet Access (HSPA) technologies for WCDMA. The editors cover both HSDPA and HSUPA, including an in-depth description and explanation of 3GPP standards, and expected performance based on simulations and first measurements. The text also discusses the impact of HSDPA and HSUPA on network dimensioning, covers applications and end-to-end performance in detail, and includes a section on radio frequency requirements and terminal design considerations. The

7.3.2 Multiuser diversity gain