HSDPA/HSUPA for UMTS. High Speed Radio Access for Mobile Communications

Description: 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 most comprehensive and advanced guide to the HSDPA (High Speed Downlink Packet Access) and HSUPA (High Speed Uplink Packet Access) technologies and standardisation, HSDPA/HSUPA for UMTS:
- Analyses the impact of HSDPA/HSUPA on network dimensioning, discussing co-existence with R99 (Release 99) and GPRS/EDGE (General Packet Radio Services/ Enhanced Data GSM Environment)
- Contains a section on applications and end-to-end (e2e) performance
- Includes a chapter on radio frequency (RF) requirements and terminal design considerations, covering different RF bands, multi-band HSDPA and multi-mode HSDPA+EDGE challenges, power consumption
- Provides numerous illustrations of 3GPP (Third Generation Partnership Project) standards and performance

This title provides excellent coverage of the area for system, element and chip designers, network planners, technical managers with vendors, operators and application developers. It is also ideal for postgraduates and researchers in related areas.

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