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Sommario/riassunto

Now in its fifth edition, the bestselling book on UMTS has been updated to cover 3GPP WCDMA and High Speed Packet Access (HSPA) from Release 99 to Release 9. Written by leading experts in the field, the book explains HSPA performance based on simulations and field experience, and illustrates the benefits of HSPA evolution (HSPA+) both from the operators and from the end user's perspective. It continues to provide updated descriptions of the 3GPP standard including the physical layer, radio protocols on layers 1-3 and a system architecture description. The challenges and solutions regarding terminal RF design are also discussed, including the benefits of HSPA+ power saving features. There is also the addition of a new chapter on femto cells as part of the updates to this fifth edition. Key updates include: . HSPA evolution (HSPA+);. Multicarrier HSPA solutions;. HSPA femto cells (home base stations);. TD-SCDMA system description;. Terminal power consumption optimization.. Updated description of LTE.