Adaptive WCDMA: Theory and Practice

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CDMA (Code Division Multiple Access) is one type of multiple access system used in radio communication. Other multiple access methods include TDMA, FDMA, etc. WCDMA (Wideband Code Division Multiple Access) is the main air interface used for third generation mobile communication systems - UMTS (Universal Mobile Telecommunication System) and is characterised by a wider band than CDMA.

WCDMA uses a wider radio band than CDMA, which was used for 2G systems, and has a high transfer rate and increased system capacity and communication quality by statistical multiplexing, etc. WCDMA efficiently utilises the radio spectrum to provide a maximum data rate of 2 Mbit/s.
Third generation mobile communication systems are scheduled for operational startup in Japan and Europe in 2001-2002. Applying high-speed data transfer and state-of-the-art radio terminal technology, third generations systems enable multimedia and are currently in the process of being standardised under 3GPP. Among the three types of system to be standardised (i.e. WCDMA, MC-CDMA, UTRA TDD), Japan and Europe will adopt WCDMA in a strategy to take the lead through superior service.

This volume will cover the latest theoretical principles of WCDMA and explain why these principles are used in the standards. Starting with a general overview, the more advanced material is then gradually introduced providing an excellent roadmap for the reader.
* Presents comprehensive coverage of the theoretical and practical aspects of WCDMA
* Provides a detailed roadmap by presenting the material step-by-step for readers from differing backgrounds
* Systematically presents the latest results in the field
Ideal for Engineers, academics and postgraduate students involved in research and development, engineers involved in management and administration.

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