TK311: UMTS Air Interface

Duration

4.0 Days

Course Content

1. Introduction to WCDMA

- 1.1. Main Technologies in WCDMA
- 1.2. Spreading and Despreading
- 1.3. Multipath Radio Channels and Rake Reception
- 1.4. Radio Resource Management

2. Physical Layer

- 2.1. Transport Channels multiplexing
- 2.2. Spreading and Scrambling Principles
- 2.3. User Data Transmission
- 2.4. Air Interface Signaling
- 2.5. Physical Layer Procedures
- 2.6. Terminal Radio Access Capabilities

3. High-Speed Packet Access

- 3.1. Release ’99 WCDMA Packet Data Capabilities
- 3.2. Spectral Efficiency, Code Efficiency and Dynamic Range
- 3.3. High Speed Downlink Packet Access (HSDPA)
- 3.4. High Speed Uplink Packet Access (HSUPA)

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