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Vieri Vanghi, Aleksandar Damnjanovic, Branimir Vojcic

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cdma2000 in depth: architecture, protocols, design, and operation

This is a complete guide to the architecture and operation of cdma2000 networks. Three leading experts begin by reviewing the theory of CDMA communications, then systematically discuss every component of a cdma2000 network, including radio access networks, packet core networks, mobile stations, and their reference points. The authors present in-depth coverage of the cdma2000 air interface protocols between mobile and base stations; physical layer design; media access control; layer 3 signaling; handoffs; power control; radio resource management for mixed voice and data services; radio access network performance; and end-to-end call flows for circuit switched voice, packet data, and concurrent services. Coverage includes:

- CDMA and spread spectrum fundamentals: modulation/demodulation, forward error correction, turbo coding, and diversity
- Applications and services, including conversational voice, Web browsing, file transfer, WAP, video streaming, and VoIP
- Evolution of integrated data and voice services (1xEV-DV)
- Handoff principles and types, including idle, access, soft, and hard handoffs
- Reverse and forward link power control principles, algorithms, and implementation aspects
- Algorithms and implementation aspects for radio resource management
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