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3.2.3 Principles of DS-CDMA and IS-95; 3.3 Radio Access Technologies in Wideband CDMA; 3.3.1 W-CDMA
3.3.2 Spreading Codes and Asynchronous Operation3.3.3 Orthogonal Multi-SF Downlink; 3.3.4 Turbo Codes; 3.3.5 Coherent Rake Combining; 3.3.6 Transmission Power Control; 3.4 High-speed Transmission Technologies in HSDPA; 3.4.1 Adaptive Modulation and Coding; 3.4.2 Hybrid ARQ; 3.4.3 Fast Cell Selection; 3.5 Radio Access Technologies for Next-generation Systems; 3.5.1 Technical Requirements; 3.5.2 Potential Solutions for Downlink Transmission; 3.5.3 Potential Solutions for Uplink Transmission; 3.6 Broadband Radio Access Schemes for XG Systems; 3.6.1 VSF-OFCDM for Downlink Transmission
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5.4.3 Intertechnology Handover

Sommario/riassunto

What will the future of wireless communications look like? What drives mobile communications systems beyond 3G? In Next Generation Mobile Systems the authors answer these questions and others surrounding the new technologies. The book examines the current research issues driving the wireless world and provides an inclusive overview of how established technologies will evolve to suit next generation mobile systems. While the term '4G' already dominates research in industry and academia, there are still numerous hurdles to take before this ambitious concept can become