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Fading; 2.8.5 Fast Fading; 2.8.6 Slow Fading; 2.9 Signal Fading Statistics; 2.9.1 Rician Distribution; 2.9.2 Rayleigh Distribution; 2.9.3 Log-Normal Distribution; 2.10 Interference; 2.10.1 Inter-Symbol Interference; 2.10.2 Co-Channel Interference; 2.10.3 Adjacent Channel Interference; 2.11 Noise; 2.11.1 Noise in a Two-Port Circuit; 2.11.2 Thermal Noise; 2.11.3 White Noise; 2.11.4 Flicker Noise; 2.11.5 Phase Noise; 2.11.6 Burst Noise; 2.11.7 Shot Noise; 2.11.8 Avalanche Noise; 2.11.9 Noise Figure (NF); Further Reading
3 Design Solutions Analysis for Mobile Handsets3.1 Introduction; 3.2 Diversity; 3.2.1 Time Diversity; 3.2.2 Frequency Diversity; 3.2.3 Space Diversity; 3.3 Channel Estimation and Equalization; 3.3.1 Study of Channel Characteristics - Channel Estimation; 3.3.2 Equalization; 3.3.3 Equalizer Implementation; 3.3.4 Signal Model; 3.3.5 Types of Equalizers; 3.4 Different Techniques for Interference Mitigation; 3.4.1 Frequency Hopping; 3.4.2 Discontinuous Transmission (DTX); 3.4.3 Cell Sectorization; 3.4.4 Use of Adaptive Multi-Rate (AMR) Codec; 3.4.5 MIMO; 3.5 Channel Coding; 3.5.1 Block Codes
3.5.2 Convolution Codes3.5.3 Turbo Codes; 3.6 Automatic Repeat Request (ARQ) and Incremental Redundancy; 3.7 Interleaving; 3.8 Modulation; 3.8.1 Analog Modulation; 3.8.2 Digital Modulation; 3.9 Bit Rate, Baud Rate, and Symbol Rate; 3.10 Inband Signaling; Further Reading; 4 Mobile RF Transmitter and Receiver Design Solutions; 4.1 Introduction to RF Transceiver; 4.2 Mixer Implementations; 4.2.1 Design Parameters; 4.3 Receiver Front-End Architecture; 4.3.1 Different Types of RF Down Conversion Techniques; 4.3.2 Homodyne Receiver; 4.3.3 Low-IF Receiver; 4.3.4 Wideband-IF Receiver
4.4 Receiver Performance Evaluation Parameters

Sommario/riassunto

The evolution of mobile communication standards presents numerous challenges in mobile handset design. Designers must continue to turn out handsets that maintain high device performance and air interface compatibility, while at the same time shrink power consumption, form factors, and costs. Mobile Handset Design is uniquely written to equip professionals and students with a complete understanding of how a mobile phone works, and teaches the skills to design the latest mobile handsets. Das walks readers through mobile phone operating principles, system infrastructure, TDMA-FDMA-CD

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