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""2.6 Cellular Architecture""""2.6.1 Frequency Re-Use""; ""2.6.2 System Capacity and Interference""; ""2.6.3 Percentage Area Coverage""; ""3 Adaptive Subcarrier Bandwidth""; ""3.1 Adaptive Subcarrier Bandwidth in TDM-OFDM""; ""3.1.1 System Description""; ""3.1.2 Analytical Model""; ""3.1.3 Algorithm for Adaptive Bandwidth for Subcarriers""; ""3.1.4 Results and Discussion""; ""3.1.5 Conclusion""; ""3.2 OFDMA Framework""; ""3.2.1 Analytical Model""; ""3.2.2 Results and Discussion""; ""3.2.3 Conclusion""; ""3.3 Summary""; ""4 Variable Guard Interval""; ""4.1 Introduction"" ""4.2 System Description""""4.3 Required GI""; ""4.4 Performance and Discussion""; ""4.5 Conclusion""; ""5 Hybrid Multicarrier Spread Spectrum""; ""5.1 Subcarrier Hopping Multicarrier Spread Spectrum""; ""5.1.1 Introduction""; ""5.1.2 System Description""; ""5.1.3 Analytical Model""; ""5.1.4 Simulation Results and Discussion""; ""5.1.5 Conclusion""; ""5.2 MC-SS with Receiver Impairments""; ""5.2.1 Introduction""; ""5.2.2 System Description""; ""5.2.3 Simulation Environment, Results and Discussion""; ""5.2.4 Conclusion""; ""5.3 Summary"" ""6 Coordinated Subcarrier and Band Hopping in OFDMA Systems""""6.1 Introduction""; ""6.2 Multiple Access (or Channelization) Approach""; ""6.3 User Grouping""; ""6.4 Subcarrier and Band Hopping Strategies""; ""6.5 Transceiver Structure""; ""6.6 Hopping Sequence Design""; ""6.6.1 Facts in Downlink""; ""6.6.2 Design Goal""; ""6.6.3 Assumptions""; ""6.6.4 Physical Considerations""; ""6.6.5 Sequence Design Preliminaries""; ""6.6.6 Slow Band Hopping (SBH)""; ""6.6.7 Fast Band Hopping (FBH)""; ""6.6.8 Sub Carrier Hopping (SCH)""; ""6.6.9 Implementation of Hopping Mechanism"" ""6.7 System Level Simulation""

Sommario/riassunto

This book will answer questions such as, how individual techniques relate to each other, how can we benefit the gains by suitable combinations of different technologies and how to choose different technological solutions in different scenarios, etc.
