



# Transmission Techniques for Emergent Multicast and Broadcast Systems

*Mario Marques da Silva, Americo Correia, Rui Dinis, Nuno Souto, Joao Carlos Silva*

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Describing efficient transmission schemes for broadband wireless systems, *Transmission Techniques for Emergent Multicast and Broadcast Systems* examines advances in transmission techniques and receiver designs capable of supporting the emergent wireless needs for multimedia broadcast and multicast service (MBMS) requirements. It summarizes the research and development taking place in wireless communications for multimedia MBMS and addresses the means to improved spectral efficiency to allow for increased user bit rate, as well as increased capacity of the digital cellular radio network.

The text highlights essential requirements for new services, providing a clear understanding of the corresponding fundamentals and theory needed to fulfill such requirements. Although the schemes and transmission and detection techniques presented are applicable to a wide range of digital communication systems, including wireless, cellular, and satellite, the text maintains a focus on multimedia services using multicast and broadcast techniques. It also:

- Reports on important enhancements, including transmission techniques, receiver designs, and multi-resolution schemes for modern broadband wireless systems
- Covers key aspects in the development of emergent services to support the requirements of new services
- Discusses the transition from Wideband Code Division Multiple Access (WCDMA) to block transmission techniques
- Considers advanced receivers such as iterative (turbo) equalization schemes for these techniques

This complete resource includes coverage of Multiple Input–Multiple Output (MIMO), hierarchical

constellations, multi-resolution transmission, macro-diversity principles, and different frequency reuse schemes. It also proposes advances for different propagation and multi-user environments, using both WCDMA and Orthogonal Frequency Division Multiple Access (OFDMA). The text concludes by explaining how to effectively combine these techniques and enhancements for the purpose of implementing the evolved MBMS (E-MBMS).

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