

Simulation study of OFDM technique in WiMAX

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Abstract: In the context of the growing interest in high-speed mobile networks, this topic focuses on researching and simulating the Orthogonal Frequency Division Multiplexing (OFDM) technique in WiMAX systems. The objective is to develop an effective simulation solution to evaluate the performance of OFDM in wireless transmission environments. The method combines theoretical research and experimentation to analyze the challenges and opportunities in OFDM applications. The expected results will contribute to the understanding of WiMAX mobile network performance, supporting the development of advanced technology.

Keywords: OFDM, WiMAX, technical simulation, wireless transmission performance, mobile system