

Research on some ICI noise reduction methods using OFDM technique

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Abstract: This topic focuses on researching and applying methods to reduce Inter-Carrier Interference (ICI) in OFDM transmission systems. In a practical context, ICI is considered a significant challenge to OFDM communication performance. The objective of this topic is to develop and test technical solutions aimed at minimizing ICI effects to improve transmitted data quality. The research methodology combines theory and experimentation, thereby building a model and deploying an OFDM system with optimal performance. The expected results will make an important contribution to enhancing the applicability of OFDM technology in modern transmission systems.

Keywords: OFDM, ICI, Interference reduction, Digital broadcasting, Digital