

Research on channel estimation in OFDM

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Abstract: This topic focuses on researching and estimating channel quality through the OFDM (Orthogonal Frequency Division Multiplexing) method. The practical context requires an effective solution to reduce interference and improve the reliability of communication systems. The objective is to build a channel estimation model based on data collected from OFDM signals, while conducting verification through experimental validation. The research method includes theoretical analysis combined with experimentation to evaluate the performance of estimation algorithms. The expected result is to provide a reliable solution for OFDM channel estimation, contributing to the development of modern communication technology.

Keywords: OFDM, channel estimation, communication, experimental testing, digital