

Research on channel estimation in OFDM

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Abstract: This thesis is conducted to study and estimate the characteristics of the transmission channel in an OFDM (Orthogonal Frequency Division Multiplexing) system. This is an important issue for optimizing data transmission performance. The objective of the thesis is to develop an accurate and efficient estimation method for the OFDM transmission channel by combining mathematical theory with experimental simulations. The expected results from this research will contribute to the development of advanced data transmission technology, significantly improving the quality of data transmission services in many practical applications.

Keywords: OFDM, channel estimation, data transmission, simulation, optimization