

Research on OFDM and some applications

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Abstract: In the context of the rapid development of information technology, it is necessary to thoroughly study OFDM (Orthogonal Frequency Division Multiplexing) to understand the mechanism of efficient data transmission. This topic aims to build an OFDM transmission system and apply it to practical fields such as digital satellite television and high-speed fiber optic networks. The research method includes synthesizing OFDM theory combined with practical experiments on simulation platforms and real equipment. The expected results will provide new solutions for data transmission problems in noisy environments, while contributing to the development of advanced communication technology.

Keywords: OFDM, data transmission, digital television applications