

OFDM technique in optical communication systems

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Abstract: This topic focuses on analyzing and applying Orthogonal Frequency Division Multiplexing (OFDM) techniques in optical transmission systems. The context is the rapid development of optical transmission technology, which demands an effective solution for large data transmission. The objective is to build and evaluate the performance of OFDM systems based on experiments. The research methodology includes theorizing signal transmission methods and implementing applications on modern optical network platforms. The expected result is to provide an optimal solution for optical data transmission, contributing to the development of information technology.

Keywords: OFDM, optical communication system, transmission technique, experimental application