

Research on optical OFDM technology in RoF

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Abstract: This topic focuses on researching Orthogonal Frequency Division Multiplexing (OFDM) technology applied to optical radio frequency (RoF) transmission systems. The reason for choosing this topic stems from the need to increase bandwidth and improve data transmission performance in multi-directional transmission systems. The objective is to develop a method for optimizing optical OFDM signals to enhance the quality of transmission services. The research method combines theory with experimentation, evaluating effectiveness through application trials on a modern RoF platform. The expected results will provide useful solutions for the development of optical transmission systems and contribute to technological advancements in this field.

Keywords: OFDM, RoF, Optical transmission, Signal optimization, Applied research