

Application of OFDM technique in RoF system

Duong Thi Hong

Abstract: This topic aims to research and apply the Orthogonal Frequency Division Multiplexing (OFDM) method to Radio over Fiber (RoF) transmission systems. The context for selecting this topic is based on the strong growth of wireless communication technology combined with optical transmission networks. The objective is to build an optimal solution for high-speed and stable data transmission in RoF systems. The research method includes theoretical analysis of OFDM, design of practical experimental models, and implementation of applications in optical transmission systems. Through this, the topic expects to achieve optimal transmission performance, contributing to the development of modern optical transmission technology.

Keywords: OFDM, RoF, Optical transmission, Wireless technology, Research and application