

Research on DWDM technology

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Abstract: This topic aims to study Densely Wavelength Division Multiplexing (DWDM), an important technology in modern optical transmission. The reason for choosing this topic is based on the necessity of DWDM in upgrading and expanding data transmission networks to meet the increasing demand for bandwidth. The objective is to analyze the operating mechanism, performance, and challenges related to DWDM. The method combines theory and experimentation to evaluate the performance of DWDM systems under different conditions. The topic is expected to provide recommendations on how to deploy and optimize DWDM technology in practice, contributing to the development of sustainable optical transmission infrastructure.

Keywords: DWDM, Optical transmission technology, Network upgrade