

Dense Wavelength Division Multiplexing (DWDM) technology

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Abstract: The topic focuses on researching and applying Dense Wavelength Division Multiplexing (DWDM) technology with high wavelength density to optimize data transmission capacity in modern telecommunications networks. The objective is to address current bandwidth limitations and enhance transmission system performance. Through a combination of theoretical research and experimentation, the topic proposes advanced DWDM deployment methods, contributing to improved service quality and expanding the future applicability of this technology. The expected outcome is to provide an effective solution for increasing optical transmission bandwidth.

Keywords: DWDM, High wavelength density, Telecommunications network upgrade