

Research on WDM-PON networks

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Abstract: This topic focuses on researching Wavelength Division Multiplexing Passive Optical Network (WDM-PON) to meet the high data transmission demands in practice. The objective of the topic is to explore and optimize transmission performance through the WDM-PON system by integrating new technologies. The research methodology includes both theoretical and experimental approaches, aiming to provide a comprehensive technical solution for modern PON systems. The expected results will significantly contribute to the development of optical transmission technology and enhance service quality in telecommunications networks.

Keywords: WDM-PON, optical transmission, Passive Optical Network (PON), performance optimization, integration of new technology