

Routing techniques in optical networks

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Abstract: This topic focuses on the important issue of routing techniques in modern optical networks, aiming to address the demand for fast and efficient data transmission. The objective is to design and implement a routing system that optimizes communication between nodes in an optical network. The research methodology includes synthesizing theoretical knowledge of optical transmission techniques and conducting experiments by building models and testing with real-world usage scenarios. The expected outcome is to provide an advanced routing solution that meets the requirements of optical networks in the digital era.

Keywords: routing, optical network, transmission technology, communication system, optimization