Research on optical packet switching

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Abstract: This topic focuses on researching and evaluating the performance of modern optical packet switching methods in information transmission networks. The practical context shows that the demand for improving data transmission service quality requires sophisticated switching solutions. The objective of the topic is to analyze and compare the superior features of switching technologies, thereby building an optical packet switching system that optimizes network performance. The research method includes synthesizing existing literature combined with experimental implementation to verify effectiveness. The expected result is to provide knowledge and theoretical foundations for transmission network developers, contributing to enhancing data traffic processing capacity in optical systems.

Keywords: optical packet switching, optical technology, information transmission network