

DP-QPSK modulation technique applied in COHERENT optical networks

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Abstract: This topic focuses on the Double-Polarization Quadrature Phase Shift Keying (DP-QPSK) modulation technique and its application in COHERENT optical network systems. The context of the topic is driven by the need to improve data transmission performance in modern optical networks, requiring a combination of theoretical research and experimentation to address this problem. The objective of the project is to design and deploy a system using DP-QPSK in a COHERENT environment to optimize communication signal quality. Through the research process, the topic is expected to contribute to enhancing the reliability and data transmission speed in coherent optical networks.

Keywords: DP-QPSK, COHERENT Optical Network, Application Research