

Some methods for calculating high-speed optical information parameters

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Abstract: In practice, evaluating the performance of optical data transmission systems is becoming increasingly critical. This topic focuses on methods for calculating high-speed optical information parameters to improve service quality and optimize optical transmission technology. The main objective is to combine theoretical research with experimentation to build an optical performance analysis system. The applied methods include both algorithmic solutions and practical testing on modern communication devices. The topic aims to provide a useful tool for developers of optical transmission systems, thereby making a significant contribution to the high-speed telecommunications industry.

Keywords: optical information, performance analysis, algorithm, practical testing, transmission system