

Comparison of Fiber Optic Channel Intelligence and Delay Performance



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Optical fiber communications can already provide the high capacity required for most applications, however, there is a need for increased scalability and adaptability to changing user ...



Our results show that, even with large inherent time delays, the measurement precision and sensitivity remain comparable to those of biased weak measurement, enabling detection of time ...



This method provides a powerful technique for monitoring the performance of optical channels without requiring synchronous sampling. Furthermore, the results of the ANN modeled in this paper compare ...



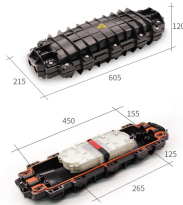
Optical fibers are widely used in fiber optics, which permits transmission over longer distances and at higher bandwidth (data rates) than other forms of communication. Optical fibers may be connected to ...



Abstract—Fast and accurate waveform simulation is critical for characterizing optical fiber channel behavior, developing digital signal processing (DSP) algorithms, optimizing optical network ...



in Bai, Jian Zhao, Weisheng Hu, and Jinlong Wei
Abstract—This study focuses on addressing the signal monitoring challenges encountered by optical fiber communication systems involving complicated ...



This review study explores the developments, issues, and prospects of fiber optic communication technologies that comprise current highspeed low delay networks, and the latest technologies like ...



We compare and study three data-driven channel modeling methods based on deep learning in fiber optic communication systems. TTHNet performing the best among th.



Amidst improved parameters in an optical communications system, fiber optic links are inundated with challenges of validating network key performance indices of throughput, latency, and packet jitter and ...



On the other hand, EL techniques improved the accuracy in detecting fiber optic faults. Thus, this research comprehensively assesses accuracy and delay metrics for various classifiers and ...



Due to their ability to carry large amounts of information and their dielectric nature, optical fiber is often favored for data transfer to other communication media.



Therefore, this study seeks to analyze the key performance requirements (latency, throughput, packet jitter, and frame loss rate) in optical communications links for optimal network performance and end ...

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