

Dispersion Compensation in Wavelength Division Multiplexing Systems

As transmission speeds rise, implementing effective chromatic dispersion management becomes crucial to maintain signal integrity. This paper explores the types of dispersion and ...

In this study, an optical link of length 216 km (SMF of 180 km and DCF of 36 km) has been analyzed for 8 channel Wavelength Division Multiplexing (WDM) network using Dispersion ...

To evaluate the performance of our proposed system, we conducted experiments demonstrating parallel signal transmission using up to 15 wavelength channels within the C-band.

Here we propose a scalable on-chip parallel IM-DD data transmission system enabled by a single-soliton Kerr microcomb and a reconfigurable ...

This document summarizes a research paper that analyzes different dispersion compensation techniques for a 40 channel x 10 Gbps wavelength division multiplexing passive optical network ...

Through theoretical analysis of the dispersion compensation mechanism, a single-pulse and multi-channel simulation model is constructed by combining with the OptiSystem platform.

Here we propose a scalable on-chip parallel IM-DD data transmission system enabled by a single-soliton Kerr microcomb and a reconfigurable microring resonator-based CD compensator. We ...

Published in: 2020 4th International Conference on Intelligent Computing and Control Systems (ICICCS)
Article #: Date of Conference: 13-15 May 2020 Date Added to IEEE Xplore: 19 June 2020

In this work, a method for on-chip multichannel dispersion compensation with simultaneous wavelength division multiplexing and demultiplexing is presented and investigated.

We demonstrate wavelength-division-multiplexed data transmission and dispersion compensation of 25 Gb/s × 9 on-off-keying signals over a 20-km singlemode fiber using an integrated single-soliton ...

In this work, a method for on-chip multichannel dispersion compensation with simultaneous wavelength division multiplexing and ...



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