Comparison of Tracking Resistance and Price Performance of Dense Wavelength Division Multiplexers

Higher spectral efficiency and data rate per channel are the most cost-effective approaches to meet the exponential demand of data traffic in optical fiber network communication system. In this paper, ...

Here, we develop a novel design approach that co-optimizes inverse-designed wavelength division multiplexers and distributed Bragg gratings to ...

Wavelength division multiplexing (WDM) is a technology for increasing the transmission capacity of optical fiber communications by sending multiple data channels simultaneously through a single fiber, ...

Sequential quadratic programming (SQP) and the finite element method (FEM) are employed simultaneously to design on-chip wavelength-division demultiplexers exhibiting ultra-high ...

FWDM, CWDM, and DWDM each offer distinct advantages and disadvantages. this article provides a detailed comparison of these three technologies, highlighting their key differences, ...

This article introduces topology optimization theory into the design of topological photonic crystals, aiming to achieve the inverse design of microwave wavelength division multiplexers.

In this paper, reconfigurability in the dense wavelength division multiplexing system is analyzed with the placement of digital switches by varying the bit rate from 10 to 40 Gbps by adding ...

Here, we develop a novel design approach that co-optimizes inverse-designed wavelength division multiplexers and distributed Bragg gratings to achieve ultra-low crosstalk without compromising ...

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.

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