Low-loss Customization Process for Reconfigurable Optical Add-Drop Multiplexers for Base Stations

In this paper, we propose a low-loss hybrid architecture for a ROADM subsystem that combines the best features of the latest available ROADM designs. A metro network testbed has ...

In this paper, we report on a novel scheme of mode-division ROADM with mode-selective silicon photonic MEMS (micro-electromechanical system) switches.

A low-cost ROADM cluster node with flexible add/drop and scalable to 100s of degree is proposed for next generation optical networks. It disaggregate line and add/drop functions of the...

Scalable and Economically Efficient Design for Elastic optical networks. Network operators diversify service offerings and enhance network efficiency by leveraging bandwidth-variable ...

In this paper, we propose and demonstrate a 32 × 4 optical switch using high-index doped silica glass (HDSG) for ROADM applications.

The main goal of this paper is to analyze the impact of several MB node architectures (namely baseline, common-band and compact MB node architectures) on the total network capacity ...

A reconfigurable optical add-drop multiplexer (ROADM) using special modal field redistribution is proposed and demonstrated to enable the selective access of any mode-/wavelength-channels.

A 96-channel silicon-based on-chip reconfigurable optical add-drop multiplexer (ROADM) is proposed and demonstrated for the first time to satisfy the demands in hybrid ...

In optical communication, a reconfigurable optical add-drop multiplexer (ROADM) is a form of optical add-drop multiplexer that adds the ability to remotely switch traffic from a wavelength-division ...

An approach for realizing low-power, high-port-count optical switching systems, such as OXCs, WXCs, and ROADMs is presented.

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