

Distributed Raman amplification became a practical solution at the end of the 1990s with the development of compact, high-power laser diodes delivering the amount of pump power required for ...

600Gb/s-PM-64QAM coherent transmission performances over 101km SMF with distributed Raman amplification of different pumping schemes are investigated. While for

The objective of this work is to investigate and compare the impact of forward, backward and bidirectional pumping methods in repeater less distributed Raman fiber amplifier system and to ...

Abstract--In this paper, we experimentally and theoretically show the improvement in noise characteristics in a distributed Raman amplifier (DRA) system for wavelength division multiplexing ...

Performance of distributed Raman amplification (DRA) system with dual order forward (FW) pumping is analyzed with the consideration of both pump relative intensity noise (RIN) to signal phase noise ...

For a short-reach metro network or DCI application with high-data-rate transceivers, the distributed Raman amplifier delivered the best transmission performance, compared with any other amplification ...

Our research is intended to provide a comprehensive analysis of the system performance impact of dual-order FW Raman pumping, including signal intensity and phase noise induced by the RINs of ...

The Raman amplifier relies upon forward or backward stimulated Raman scattering. Typically, the pump source is selected to have a wavelength of around 100 nm below the wavelength ...

In this paper, Raman amplifier using bidirectional pumping scheme is proposed. A flat gain spectrum along with improved noise figure is attained using this setup. The performance is ...

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