

This paper is devoted to a detailed study of a cladding-pumped Er<sup>3+</sup>/Yb<sup>3+</sup> co-doped fiber amplifier (EYDFA) through numerical simulations aiming to identify a configuration, before ...

Two double-cladding fibers, one doped with Er only and the other one co-doped with Er and Yb, are designed, fabricated and characterized. Using the experimentally extracted parameters, we simulate ...

The proposed model allows one to calculate both the power and spectral characteristics of ytterbium-erbium doped fiber amplifiers, and the nonstationary dynamics of the population ...

The pump spectral propriety of three types of commercial 915 and 976 nm LDs on single frequency Erbium-Ytterbium co-doped fiber amplifier (EYDFA) is theoretical and experimental analyzed.

Accordingly the authors embarked on a study of how to minimize nonlinearity in EDFs for high-power amplifiers without suffering degradation in amplifier efficiency. This paper reports on techniques for ...

A comprehensive numerical analysis and optimization of a high-power, fully monolithic, single frequency co-doped erbium-ytterbium fiber amplifier designed for free-space optics ...

A combination of erbium (Er), ytterbium (Yb), and neodymium (Nd), in fiber amplifiers, is examined. This combination extends the pumping wavelength spectrum by creating a new pumping path.

The performance of a high-power Amplifier designed with Erbium ytterbium co-doped fiber, which is pumped by a 940 nm pump laser, is analyzed and validated experimentally.

Highlighting advancements from the 1990s to recent developments, the authors present theoretical models detailing the energy transfer mechanisms between erbium and ytterbium ions and ...

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