Syropy AI Connectivity

Parameters of Traveling Wave Semiconductor Optical Amplifier

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Semiconductor Optical Amplifiers

---Non-resonant traveling-wave amplifiers (TWA) It is the same as FPA except that the end facets are either antireflection coated or cleaved at an angle so that internal reflection does not take place and

Novel measurement of traveling-wave semiconductor optical amplifier

A novel technique is presented in obtaining the performance characteristics of traveling-wave semiconductor optical amplifier (TWA) with tensile-strained-barrier multiple-quantum-well structure.

(PDF) Gain Saturation and Propagation Characteristics

Abstract A model is developed to investigate the propagation characteristics and gain saturation performances of tapered-waveguide traveling-wave semiconductor

Traveling-wave semiconductor laser amplifiers for optical

The state of the art and future possibilities for semiconductor laser amplifiers (SLAs) are reviewed. Design criteria for improving SLA characteristics are clarified from the viewpoint of both material gain

Enhancement of traveling wave semiconductor optical amplifier

Traveling wave Semi-conductor optical amplifiers a can be implemented in most optical systems to add distinct improvements , . Recently, traveling wave semiconductor optical amplifier (TW-SOAs)

Semiconductor Optical Amplifiers

When the light enters FPA it gets amplified as it reflects back and forth between the mirrors until emitted at a higher intensity. It is sensitive to temperature and input optical frequency.

Circuit model for traveling wave semiconductor laser amplifiers

A circuit model of a traveling wave semiconductor laser amplifier is presented for the circuit level simulation of single device or Optoelectronics Integrated Circuit (OEIC) included amplifiers. To

Gain, saturation and noise figure of a travelling wave semiconductor

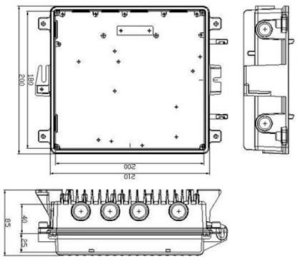
Abstract.The aim of thispaper is thecalculation of the gain and the noise figure of a travelling wave optical amplifier (TWOA) in a situation where the saturation level is appreciable.

Carrier-density modulation effects in a traveling-wave semiconductor

A communications theory equivalent model suitable for analyzing carrier-density modulation effects within a traveling-wave semiconductor optical amplifier is derived by linearizing

1. 5. mu. m GaInAsP traveling-wave semiconductor laser amplifier

The experimental results are confirmed to be in good agreement with the theoretical predictions based on the mulitmode traveling-wave rate equation in conjunction with the photon statistic master



Design of Half Adder Using Travelling Wave Semiconductor Optical Amplifier

The use of a Travelling Wave Semiconductor Optical Amplifier to create an all-optical half adder that satisfies the half adder's truth table. Without the need to convert to electrical impulses, SOA serves

Four-wave mixing in GaAs/AlGaAs semiconductor lasers

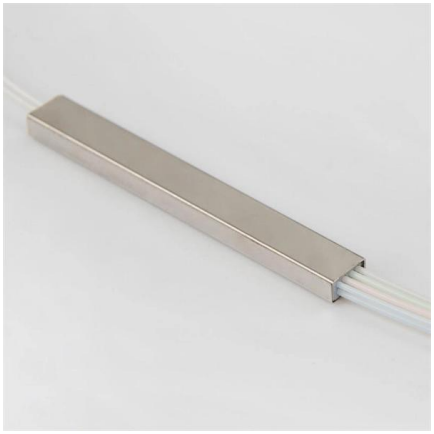
The paper describes a scheme for frequency conversion of optical data signals with use of NDFWM in travelling wave semiconductor laser amplifiers. The frequency conversion range is limited by the

Single Wide Band Traveling Wave Semiconductor

This paper has presented a proposed model to generate inverted and non-inverted wavelength conversion by using single wide band traveling wave

Dynamic Simulations of Semiconductor Optical Amplifier by Analytical

Abstract Traveling-wave equation of the semiconductor optical amplifier is solved analytically in order to study the dynamical properties of the power output in terms of the input parameters that can

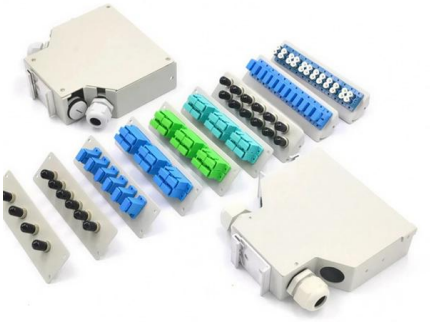


(PDF) Dynamic Simulations of Semiconductor Optical

Traveling-wave equation of the semiconductor optical amplifier is solved analytically in order to study the dynamical properties of the power output

Travelling-wave model of semiconductor optical amplifier based non

A travelling-wave model of a semiconductor optical amplifier based non-linear loop mirror is developed to investigate the importance of travelling-wave effects and gain/phase dynamics in

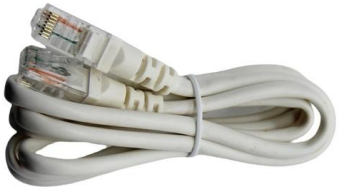


Enhancement of traveling wave semiconductor optical amplifier

In this study, the high performance of dense wavelength division multiplexing (DWDM) by using a traveling wave semiconductor optical amplifier (TW-SOA) at a channel spacing of 100 GHz is

1.5 μm GaInAsP traveling-wave semiconductor laser amplifier

The experimental results are confirmed to be in good agreement with the theoretical predictions based on the multimode traveling-wave rate equations in conjunction with the photon statistic master



A photonic integrated continuous-travelling-wave parametric amplifier

Here we demonstrate a photonic-integrated-circuit-based travelling-wave optical parametric amplifier with net signal gain in the continuous-wave regime.

(PDF) Dynamic Simulations of Semiconductor Optical

A theoretical model is presented to analyze the noise transfer characteristics of a semiconductor optical amplifier (SOA) under excitation of a

All-optical phase modulation in a traveling wave semiconductor laser

Abstract-A novel all-optical phase modulation and wavelength conversion has been demonstrated in a traveling wave semiconductor laser amplifier. Even though the optical gain modulation caused by

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