

We have studied the effects of radiation on the performance characteristics of laser diodes. The laser diodes were exposed to radiation of continuous electron beams at the Lehigh University Van de ...

The effects of ionizing and neutron radiation on the characteristics and performance of laser diodes are reviewed, and the formation mechanisms for nonradiative recombination centers, the primary type of ...

In this paper, MATLAB PDE-tool is used to analyze transient temperature distribution of laser diode (LD) end-pumped Nd:YAG rod. The decisive factors affecting the crystal temperature ...

Laser diodes are semiconductor lasers with a current-carrying p-n junction as the gain medium. They are the most important type of electrically pumped lasers.

This paper discusses radiation effects in light-emitting diodes (LEDs) and laser diodes in the visible and near infrared region.

This paper discusses displacement damage effects in advanced LEDs and laser diodes, along with design details that affect their radiation response. High-energy protons -- 50 MeV -- were used for all ...

Effects of radiation on laser diodes. The effects of ionizing and neutron radiation on the characteristics and performance of laser diodes are reviewed, and the formation mechanisms for nonradiative ...

However, the performance and reliability of laser diodes can be significantly compromised by a phenomenon known as optical feedback. Understanding what optical feedback is and why it ...

the performance of uncooled semiconductor LD was experimentally studied. These results investigated the effect of temperature on several essential parameters in order to define the quality of...

We perform experiments for investigating the irradiation effects on laser diodes with distributed feedback operating at 1550 nm output wavelength with 2 mW output power.

Semiconductor laser diodes (LDs), with merits of little volume, lightweight, low power consumption, ease of modulation, and high data rates, are great candidates for space laser ...

Web: <https://www.tlaetsoglobal.co.za>