

ROHM offers laser diodes (LDs) for Light Detection and Ranging (LiDAR). This application note will introduce ROHM's LD line-up and show how to design the drive circuits of ROHM LDs.

Each layer boundary causes a partial reflection of an optical wave. When the wavelength is close to four times the optical thickness of the layers, the many reflected waves tend to interfere constructively, ...

In this Article, we employ a basic model for the diffuse surface instead of making assumptions about the optical propagation or the range, which allows us to dramatically simplify the calculation of the ...

We present a methodology for investigating the deliberate use of optical scattering in tunable diode laser absorption spectroscopy. Diffusely reflecting materials have been investigated as ...

A new strategy based on homogenizing and shaping the laser diode beam with a square-core multimode optical fiber allowed to attain competitive lateral resolutions while keeping one ...

Figure 1.4 Laser diodes with different lateral optical guiding mechanisms: (a) gain guided laser, (b) ridge waveguide laser with weak index guiding, and (c) buried heterostructure laser with strong index guiding.

We have tested the principle of the model by making gas absorption measurements on the 1650-nm methane absorption line using wavelength-modulation spectroscopy, for which ...

To solve this problem, in this paper, we propose a distributed reflector laser diode (DR-LD) monolithically integrated with an EA-MOD, which can provide a high single-mode yield irrespective of ...

When a line-shaped laser beam hits a rough and uneven surface, a larger area is scanned by the beam, which improves the reflection of light toward the sensor and therefore the receive signal of the diffuse ...

We present a methodology for investigating the deliberate use of optical scattering in tunable diode laser absorption spectroscopy. Diffusely ...

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