Measurement of Spectral Characteristics of Laser Diodes

a laser is one of its core features. It is however non-trivial to find quantities which fu ly characterize this spectral purity. In this paper we discuss two linewidth definitions which TOPTICA uses to ...

Spectral measurements include emission wavelength, side-mode behavior, polar ization, noise and linewidth. All of these characteristics are temperature-dependent, such that the shift with operating ...

The light-current-voltage (L-I-V) sweep test is a fundamental measurement that determines the operating characteristics of a laser diode (LD). Usually, a "laser diode module" is a ...

This article discusses the characteristics common to laser diodes, such as high coherence, narrow spectral width and high directivity, while also explaining and defining these terms.

This article presents a general look at the electrical, spatial, and spectral characteristics of diode lasers.

Abstract: Precision optical spectral lineshape measurements on semiconductor lasers using Michelson and Fabry-Perot interferometers are presented. Measurements ranging from 30 MHz up to 100 GHz ...

An optical spectrum ana-lyzer (OSA) can be used conveniently to measure the optical spectrum and to characterize the mode structure such as the number of modes and wavelength spacing between ...

In this document we"ll describe a method for measuring the line width of single longitudinal mode lasers. Such lasers have very narrow (few MHz) spectral line widths, long coherence length, ...

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