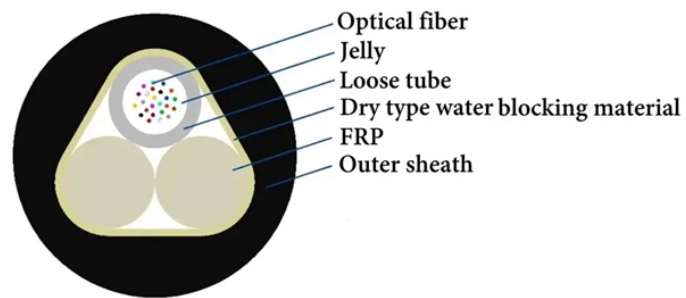


## Laser Diode Frequency Hopping



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Mode hopping in diode lasers refers to abrupt shifts between discrete longitudinal modes of oscillation due to changes in temperature, current, or external feedback.



While the laser diode was mode hopping, the overall intensity fluctuated slightly. This gave rise to an ac component of the intensity that was measurable with the photodiode.



In conclusion, a wide mode-hopping free and narrow linewidth tunable laser source is designed, which is based on a classical Littman-Metcalf configuration. Meanwhile, the tuning ...



The novel technique of generating THz waves using photomixing with a single tunable laser diode was applied to the frequency-hopping spread spectrum (FHSS) system for secure THz ...



Mode hopping is the phenomenon that a laser exhibits sudden jumps of optical frequency, associated with transitions between different modes of its resonator.



We report on converting the multimode hopping oscillation (MHO) in long-wavelength semiconductor laser into single-mode oscillation (SMO) by applying external optical feedback (OFB). We ...



The parameters directly affecting the mode hops are the laser case temperature and injection current. This paper will present spectral characteristics of laser diodes and how to control laser diode ...



in HeNe lasers and others. This highly divergent beam is almost always collimated by a short focal length lens such as a microscope objective. In the typical commercial semiconductor laser (or laser ...



Abstract We report an attempt of passive frequency stabilization of an external cavity diode laser (ECDL) by placing it in a pressure-proof housing. We have performed a series of measurements in order to ...



Mode hopping is a critical performance limitation of external cavity diode lasers (ECDLs). We developed a method to suppress the mode hops by shifting the internal cavity longitudinal mode...

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