Abstracts

Optical Feedback Effects Upon Laser Diode Oscillation Field Spectrum

F. Favre, D.L. Guen and J.C. Simon. "Optical Feedback Effects Upon Laser Diode Oscillation Field Spectrum." 1982 Transactions on Microwave Theory and Techniques 30.10 (Oct. 1982 [T-MTT] (Special Issue on Optical Guided Wave Technology)): 1700-1705.

Optical feedback effects on spectral properties of a semiconductor laser diode coupled to a single-mode fiber cavity are investigated. Linewidth reduction from 6 MHz to less than 30 kHz and frequency stability improvement with increasing feedback are reported. Experiments are in good agreement with theory for short fiber cavities.

❑ Return to main document.