

عنوان مقاله:

Closed Loop Control for Micromachined Tunable Vertical Cavity Laser Diode

محل انتشار:

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خلاصه مقاله:

Micromachined tunable VCSELs are particularly useful for wavelength division multiplexing applications because of their large continuous wavelength tuning range. In this paper we describe the effect of closed loop control on these devices. The use of closed loop control highly improves the device performance without any structure changing. The results show that the overshoot has been eliminated, the tuning range has widely increased and the voltage displacement function has been linearized.

کلمات کلیدی:

Tunable vertical cavity laser diode, PI controller, MEMS

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