

VCSELs as Highly Sensitive Stand-Alone Distance Sensors

Thursday, 1 September 2022 12:00 (2 hours)

We investigate the suitability of vertical-cavity surface-emitting lasers (VCSEL) as highly sensitive distance sensors for topography measurement. The concept relies on the light reflected from a moving sample into the VCSEL resonator inducing a measurable change of operating current and emission wavelength to detect motion of a few nm only.

Primary authors: GÜNTHER, Axel (Institute of High Frequency Technologies, Braunschweig, Germany); KORAT, Divyaben (Hannover Centre for Optical Technologies, Hannover, Germany); KOWALSKY, Wolfgang (Institute of High Frequency Technologies, Braunschweig, Germany); ROTH, Bernhard (Hannover Centre for Optical Technologies, Hannover, Germany)

Presenter: GÜNTHER, Axel (Institute of High Frequency Technologies, Braunschweig, Germany)

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