## 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 VSCEL resonator inducing a measurable change of operating current and emission wavelength to detect motion of a few nm only.

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