

OverviewHistoryProduction advantagesStructureCharacteristicsApplicationsSee alsoExternal linksThe surface emission from a bulk semiconductor at ultra-low temperature and magnetic carrier confinement was reported by Ivars Melngailis in 1965. The first proposal of short cavity VCSEL was done by Kenichi Iga of Tokyo Institute of Technology in 1977. A simple drawing of his idea is shown in his research note. Contrary to the conventional Fabry-Perot edge-emitting semiconductor lasers, his invention comprises a short laser cavity less than 1/10 of the edge-emitting lasers vertical to a wafer s...

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The authors showcase an innovative anti-reflective vertical-cavity surface-emitting laser (AR-VCSEL) that achieves low divergence and maintains a single-mode lasing.

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The chapter focusses on fundamental aspects such as the VCSEL device structure, including the distributed Bragg reflector mirrors, the optical cavity and various emission wavelengths, and the ...

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