

Vertical-cavity surface-emitting lasers III - 25-26 January, 1999, San Jose, California

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- Bacon, Francis,
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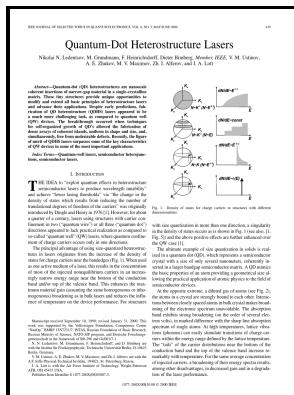
United States

History: World

United States.

History - Military / War

Naval Organization And Administration



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Vertical

The emission wavelength is in the 850 nm range. The coupling between the two monolithically grown cavities leads to two distinct Fabry-Perot modes whose separation and localization are designed in such a way that the interaction between the two modes leads to dual laser emission. Department of Defense responsible for the development of new technologies USA Advanced Research Projects Agency Defense advanced research projects agency Etats-Unis Spojené státy americké.

Vertical

This approach has resulted in over a milliwatt of single transverse mode power at room temperature, and several hundred microwatts of single transverse mode power at 70 degree s C. Therefore, a extensive reliability program is needed to measure both the wear-out lifetime and the random failure rate of the devices.

Vertical

Naval forces & warfare
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Life times of the devices are several million hours under normal operating conditions. These results have been achieved using a new structure in which an 850 nm VCSEL optical pump is integrated with the 1300 nm VCSEL. The laser emission after optical excitation with femtosecond pulses yields a pulse width of 3.

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Defect nucleation and propagation are inhibited in such growth. The 2D independently addressable selectively oxidized GaAs laser array is arranged in an 8 X 8 matrix with a device pitch of 250 micrometers and each laser is supplied with two individual top contacts.



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Solid state lasers VIII : 25

Selling the Russians the rope? The cascade laser is formed by a periodic structure of stacked double- heterostructure diodes electrically connected by low- resistance tunnel junctions.

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