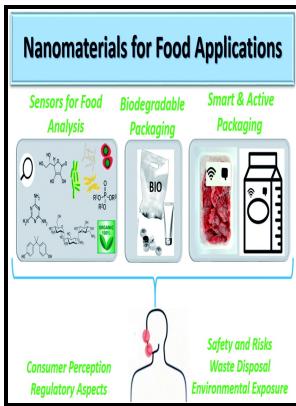


Quantum-well laser array packaging - nanoscale packaging techniques

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Description: -

- High power lasers
- Nanoscience
- Quantum wells
- Microelectronic packaging
- Quantum-well laser array packaging - nanoscale packaging techniques

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ShieldSquare

The structural features of this laser include current-blocking regions near the facets and a long cavity length to obtain higher power, as well as a cBN heatsink and a 70 micrometers - thick laser chip to improve thermal crosstalk between laser elements.

Photoluminescence (PL) Techniques

This array consists of six lasers.

Laser Diode Technology and Applications III

Some drawbacks of the known coupling techniques, for coupling between lasers and waveguides or lasers and fibers are: expensive and time consuming packaging, complicated alignment, coupling losses reduced reliability and performance.

Untitled Document

The vertical alignment, x direction, of the active layer 51 and the external waveguide core can be obtained by the very precise control of the layer thickness of the external waveguide to adjust the active layer 51, i. The laser diode array of claim 39 wherein said In, Ga and Al Group III atoms in said quantum well layers have been mixed to different degrees, said active region thereby comprising adjacent InGaAlP and InGaAlAs quantum well layers of varying composition in different spaced apart regions of said array. C and D reprinted from a study by Han et al.

Quantum

Laser Doppler Anemometry LDA is well established in fluid dynamic research. This allows to production of a waveguide core 102. The single-stage driver circuit is matched to both the low impedance of the laser and the 50 Omega microwave input by the inclusion of reactive components.

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