Abstracts

Etched Mirror and Groove-Coupled GaInAsP/InP Laser Devices for Integrated Optics

L.A. Coldren, K. Furuya, B.I. Miller and J.A. Rentschler. "Etched Mirror and Groove-Coupled GaInAsP/InP Laser Devices for Integrated Optics." 1982 Transactions on Microwave Theory and Techniques 30.10 (Oct. 1982 [T-MTT] (Special Issue on Optical Guided Wave Technology)): 1667-1676.

Recent advances in wet and dry etching techniques for CaInAsP/InP laser structures allow the reproducible fabrication of planar and vertical walled facets and grooves. These elements provide efficient mirrors and interstage couplers that may provide the basis for a new generation of monolithic integrated optical devices. Initial experimental results on etched facet lasers and groove-coupled two-section lasers verify theoretical expectations.

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