

Modeling of a fast-flowing CO₂ laser with longitudinal discharge in a tube of variable cross section

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Abstract

A mathematical model of axial-flow gas laser in a tube of variable cross section is proposed. The dependence of the energy characteristics of the laser on the discharge tube geometry is studied. It is shown that the output radiation power and electrooptical efficiency may be increased by means of a conical tube tapering along the flow. © 1996 MAEe Cyrillic signK Hayka/Interperiodica Publishing.
