Abstracts

Beam Propagation Analysis of the Nonlinear Tapered Optical Waveguide

A study of the transient behavior of nonlinear tapered optical waveguide is presented. The Fresnel equation with an input Gaussian field distribution is solved numerically using a combination of the semivectorial-polarized finite difference method and the Runge-Kutta method. The calculated results show that the tapered nonlinear waveguides have better waveguiding characteristics in potential applications.

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