Abstracts

Beam Propagation Analysis of a Tapered Proton-Exchanged Lithium Niobate Optical Waveguide

P.-K. Wei, H.-Y. Liu and W.-S. Wang. "Beam Propagation Analysis of a Tapered Proton-Exchanged Lithium Niobate Optical Waveguide." 1994 Microwave and Guided Wave Letters 4.2 (Feb. 1994 [MGWL]): 40-42.

A simulation of tapered lithium niobate optical waveguide fabricated by the proton-exchanged method is presented. The Fresnel equation with an initial input field distribution is solved numerically using the semivectorial-polarized finite difference method and the Runge-Kutta method. The calculated and experimental results are in good agreement.

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