Abstracts

Finite Difference Analysis of Integrated Optical Channel Waveguides with Arbitrarily Graded Index Profile

A new finite-difference formulation is described for analyzing diffused dielectric channel waveguides with arbitrarily varying two-dimensional index profiles and arbitrary index difference levels. The method allows the calculation of the complete set of hybrid modes, without the nonphysical, spurious solutions. Hybrid mode dispersion curves of integrated optical channel waveguides with graded index profiles of practical interest are presented.

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