Abstracts

Propagation Characteristics of TE-Waves Guided by Thin Films Bounded by Nonlinear Media (Apr. 1995, Part I [T-MTT])

J.-G. Ma and I. Wolff. "Propagation Characteristics of TE-Waves Guided by Thin Films Bounded by Nonlinear Media (Apr. 1995, Part I [T-MTT])." 1995 Transactions on Microwave Theory and Techniques 43.4 (Apr. 1995, Part I [T-MTT]): 790-795.

The behavior of nonlinear TE-waves guided by a-symmetrical dielectric slab waveguides, having a generalized nonlinear substrate with a permittivity of the form epsilon~|arrow over E|/sup delta/, is analyzed. Using an analytical solution for the electromagnetic fields in this nonlinear media, the dispersion relations, electric field profiles, and cutoff frequencies are illustrated and discussed.

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