

# Abstracts

## Investigating nonlinear propagation in dielectric slab waveguides

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*Jian-Guo Ma. "Investigating nonlinear propagation in dielectric slab waveguides." 1997 Transactions on Microwave Theory and Techniques 45.2 (Feb. 1997 [T-MTT]): 304-306.*

A numerical method is employed to analyze the TE-wave propagation in Kerr-like nonlinear dielectric waveguides in which a nonlinear film is sandwiched between two linear media. The dispersion curves dependent on the magnitude of the electric field are obtained. All the results can be used in future investigations of devices composed of nonlinear dielectric slab structures.

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