

## TE-mode propagation properties of the coupled planar Kerr-like nonlinear waveguides

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Jian-Guo Ma. "TE-mode propagation properties of the coupled planar Kerr-like nonlinear waveguides." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1985-1988 vol.3.

For the first time, a closed form expression of coupled Kerr-like nonlinear planar waveguides is derived for both guided and surface waves. The wave propagation properties along the Kerr-like nonlinear waveguides are investigated analytically. The results show that the propagation properties depend on the permitted transmission powers and the initial excitation conditions. All the possible solutions can co-exist in the waveguide structures without mode-coupling.

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