# Abstracts

## A Hybrid Method for Paraxial Beam Propagation in Multimode Waveguides

*E.F. Kuester and D.C. Chang. "A Hybrid Method for Paraxial Beam Propagation in Multimode Waveguides." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 456-458.*

A hybrid (non-ray, non-modal) method for computing the fields of a paraxial beam propagating in a multimode waveguide (parallel-plate or dielectric slab) at large axial distances is presented. The method is based on the Fourier and Fresnel self-imaging properties of these waveguides, and is capable of high accuracy. The method is much more efficient than ray or mode approaches, while giving complete field information which coupled-power equations do not provide.

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