

Abstracts

Variational Bound Analysis of a Discontinuity in Nonradiative Dielectric Waveguide

J.C. Olivier and J.A.G. Malherbe. "Variational Bound Analysis of a Discontinuity in Nonradiative Dielectric Waveguide." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 789-790.

This paper describes the application of the variational bound method to Nonradiative Dielectric waveguide, for the analysis of scattering by a dielectric obstacle, in this case an airfilled discontinuity in the dielectric centre strip. Closed form equations are obtained that can be used directly in the design of networks using reactive components, such as filters. Measured data agrees well with the theoretical calculations.

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