

Abstracts

Variational Bound Analysis of a Discontinuity in Nonradiative Dielectric Waveguide (Short Papers)

J.C. Olivier and J.A.G. Malherbe. "Variational Bound Analysis of a Discontinuity in Nonradiative Dielectric Waveguide (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.6 (Jun. 1988 [T-MTT]): 1105-1107.

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 a rectangular, air-filled discontinuity in the dielectric center strip. Closed-form equations are obtained that can be used directly in the design of networks using reactive components, such as filters. Measured data agree well with the theoretical calculations.

 [Return to main document.](#)