

Abstracts

On a Direct Use of Edge Condition in Modal Analysis (Short Papers)

C. Vassallo. "On a Direct Use of Edge Condition in Modal Analysis (Short Papers)." 1976 *Transactions on Microwave Theory and Techniques* 24.4 (Apr. 1976 [T-MTT]): 208-212.

The edge condition allows us to know the asymptotic decrease of modal amplitudes in some discontinuity problems in waveguides. One may take a direct account of this information in modal analysis and gain a significant improvement of the calculation when the field singularity at edge is important. The accuracy and the validity of this method are studied in two cases: the diaphragm and the junction between an empty waveguide and a partially dielectric-filled waveguide.

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