Abstracts

On the Accuracy Obtained when Using Variational Techniques for Asymetrically Loaded Waveguides (Correspondence)

A.V. Vorst and R. Govaerts. "On the Accuracy Obtained when Using Variational Techniques for Asymetrically Loaded Waveguides (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.1 (Jan. 1969 [T-MTT]): 51-52.

The accuracy obtained by using an approximate procedure based on a variational principle is investigated in the case of a dielectric slab placed on the sidewall of a rectangular waveguide. It is shown that the error is much larger than the one obtained for a central loading, because of the coupling between even- and odd-order modes. The accuracy is a function of the compatibility between the field distribution for each mode taken in the expansion and the geometry of the loaded guide.

❑ Return to main document.