

Abstracts

Analysis of Open Dielectric Waveguides Using Mode-Matching Technique and Variational Methods (Jan. 1980 [T-MTT])

R. Mittra, Y.-L. Hou and V. Jamnejad. "Analysis of Open Dielectric Waveguides Using Mode-Matching Technique and Variational Methods (Jan. 1980 [T-MTT])." 1980 Transactions on Microwave Theory and Techniques 28.1 (Jan. 1980 [T-MTT]): 36-43.

The mode-matching technique is employed for computing the propagation constants and field distributions of an inverted strip dielectric waveguide. The results derived in this manner are further improved by using variational formulas expressly designed for open dielectric waveguides. Illustrative numerical results are presented and compared with an experimental measurement as well as those based on approximate methods found in the literature.

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