

Abstracts

The Method of Lines Applied to Planar Transmission Lines in Circular and Elliptical Waveguides

K. Wu and R. Vahldieck. "The Method of Lines Applied to Planar Transmission Lines in Circular and Elliptical Waveguides." 1989 Transactions on Microwave Theory and Techniques 37.12 (Dec. 1989 [T-MTT] (1989 Symposium Issue)): 1958-1963.

The method of lines (MOL) is utilized to analyze a class of planar transmission lines with circular or semicircular/elliptical metallic shielding. The paper shows how the general MOL principles can be modified such that curved boundary structures can be included. Dispersion diagrams are presented for microstrip and slotline structures with curved metallic shielding as well as for their suspended counterparts in circular and elliptical waveguides.

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