

Abstracts

A Method of Analysis of TE₁₁-to-HE₁₁/Mode Converters

L.C. da Silva. "A Method of Analysis of TE₁₁-to-HE₁₁/ Mode Converters." 1988 Transactions on Microwave Theory and Techniques 36.3 (Mar. 1988 [T-MTT]): 480-488.

An efficient method for the determination of the scattering matrix of TE₁₁-to-HE₁₁/corrugated cylindrical waveguide mode converters has been developed based on the representation of the fields inside the corrugations by a small number of radial waveguide modes. Numerical results show that the method, when compared to the usual mode-matching techniques, reduces the computation time, without loss of accuracy.

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