

Abstracts

Full wave network representation for rectangular, circular, and elliptical to elliptical waveguide junctions

B. Gimeno and M. Guglielmi. "Full wave network representation for rectangular, circular, and elliptical to elliptical waveguide junctions." 1997 Transactions on Microwave Theory and Techniques 45.3 (Mar. 1997 [T-MTT]): 376-384.

In this paper, two contributions to the study of the elliptical waveguides are given: an efficient technique to obtain the modal spectrum for elliptical waveguides and the analysis of the junctions between rectangular, circular, or elliptical to elliptical waveguides. In addition to theoretical results, experimental results are also presented finding good agreement between prediction and measurement.

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