

Abstracts

The Circular Waveguide Step-Discontinuity Mode Transducer (Short Papers)

W.J. English. "The Circular Waveguide Step-Discontinuity Mode Transducer (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.10 (Oct. 1973 [T-MTT]): 633-636.

Power conversion coefficients and the launch phase of propagating modes excited by a symmetric step-discontinuity in circular waveguide are accurately predicted by a modal analysis of the discontinuity which includes only a few evanescent modes. The relative power in transmitted and reflected propagating modes is presented as a function of normalized frequency for two step-discontinuity ratios to indicate typical solution results.

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