

Abstracts

The E-Plane Taper Junction in Rectangular Waveguide

L. Lewin. "The E-Plane Taper Junction in Rectangular Waveguide." 1979 Transactions on Microwave Theory and Techniques 27.6 (Jun. 1979 [T-MTT]): 560-563.

This paper compares formulas for reflection in rectangular waveguide from an E-plane junction with radial guide. There is a major discrepancy between results for the junction parameters from earlier results of the author and those in the Waveguide Handbook. The two sets of results are discussed; the Handbook result is apparently in error, but the formulas do not seem capable of reconciliation. Limitations and slight improvements on the author's earlier result are given, together with supporting measurements taken at X band.

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