Abstracts

Scattering and Reception by a Flanged Parallel-Plate Waveguide: TE-Mode Analysis (Short Papers)

T.J. Park and H.J. Eom. "Scattering and Reception by a Flanged Parallel-Plate Waveguide: TE-Mode Analysis (Short Papers)." 1993 Transactions on Microwave Theory and Techniques 41.7 (Aug. 1993 [T-MTT]): 1458-1460.

The TE-mode characteristics of scattering and reception by a flanged parallel-plate waveguide are examined. The Fourier transform is used to represent the scattered fields in the spectral domain. The simultaneous equations for the transmitted field coefficients are solved to obtain the solution in an asymptotic series form. Numerical computations are performed to illustrate the behaviors of the scattered field and the transmission coefficients versus the aperture size.

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