

Abstracts

Analysis of Circular and Rectangular Apertures in a Circular Waveguide

G.B. Eastham and K. Chang. "Analysis of Circular and Rectangular Apertures in a Circular Waveguide." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 263-266.

An analysis has been carried out to determine the discontinuity susceptance of a circular or rectangular aperture in the transverse plane of a circular waveguide. A closed-form solution has been derived with good agreement as compared with experimental results. The results should have many applications in the design of circular waveguide components and cylindrical cavity-backed phased arrays.

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