

Abstracts

On the Analysis of a Transition to a Layered Ridged Dielectric Waveguide

A.G. Engel, Jr. and L.P.B. Katehi. "On the Analysis of a Transition to a Layered Ridged Dielectric Waveguide." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 983-986.

In sub-mm and THz monolithic circuits, transitions between layered ridged dielectric waveguides and power sources may include short lengths of conductor. An integral equation-mode matching technique is expanded so that such a transition may be analyzed, and results for one-port discontinuities in microstrip on a dielectric ridge and preliminary characterization of an actual transition are presented.

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