Abstracts

Mode Conversion and Leaky-Wave Excitation at Open-End Coupled Microstrip Discontinuities (1995 Vol. I [MWSYM])

J. Cina and L. Carin. "Mode Conversion and Leaky-Wave Excitation at Open-End Coupled Microstrip Discontinuities (1995 Vol. I [MWSYM])." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 225-228.

The method of moments (MoM) is used to study mode conversion and leaky-wave excitation at an asymmetric coupled-microstrip discontinuity. The results show that signtilcant mode conversion can occur at such discontinuities and that fundamental leiky-wave modes can be excited strongly. Numerical issues with regard to the MoM analysis of such discontinuities are addressed as well, and it is shown that inclusion of a complete-domain basis function for the fundamental leaky mode improves numerical stability dramatically.

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