Abstracts

Analysis of Multiple Coupled Microstrip Discontinuities for Microwave and Millimeter Wave Integrated Circuits

A. Hill. "Analysis of Multiple Coupled Microstrip Discontinuities for Microwave and Millimeter Wave Integrated Circuits." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1091-1094.

A novel technique is introduced which allows the analysis of multiple coupled microstrip discontinuities including those structures that are embedded by multiple coupled transmission line sections such as coupled right angle bends. The method, based on the fullwave 3D moment method, is verified by comparing the simulated results of a microstrip coupler to those obtained from an experimentally verified 2D spectral domain technique. In addition, the effect of the coupled line spacing on the S parameters of typically encountered coupled microstrip discontinuities is demonstrated.

❑ Return to main document.