Abstracts

A Dynamic Model for Microstrip--Slotline Transition and Related Structures (1987 Vol. II [MWSYM])

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An analysis of microstrip to slotline transition is presented, The method of moments is applied to the coupled integral equations. In the formulation, the Green's function for the grounded dielectic substrate is used, which takes into account all the radiation, surface wave and substrate effects. Meanwhile, all the mutual coupling effects are included in the method of moments solution. Certain related structures, such as slotline and rnicrostrip discontinuities, a slot fed by a microstripline and a printed strip dipole fed by a slotline, can also be solved with this analysis. The present approach may find applications to other related transitions in MIC design.

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