Abstracts

Efficient analysis of waveguide-to-microstrip and waveguide-to-coplanar line transitions

L. Greda and R. Pregla. "Efficient analysis of waveguide-to-microstrip and waveguide-to-coplanar line transitions." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1241-1244 vol.2.

A general procedure using the Method of Lines (MoL) for the analysis of waveguide-to-microstrip and waveguide-to-coplanar line transitions is described. Using two crossed two-dimensional discretization line systems instead of a full three-dimensional discretization allows to reduce the numerical effort. This concept is combined with the concept of impedance/admittance transformation. The described relations are also useful for other applications. The proposed algorithm is validated by comparison to measured and theoretical results.

❑ Return to main document.