Abstracts

A New Full-Wave Integral Equation Method for the Analysis of Coplanar Strip Circuit Using the Mixed-Potentials Eigenfunction Expansion Technique

W.-T. Lo and C.-K.C. Tzuang. "A New Full-Wave Integral Equation Method for the Analysis of Coplanar Strip Circuit Using the Mixed-Potentials Eigenfunction Expansion Technique." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1539-1542.

The theoretic results obtained by the new full-wave integral equation formulation using the mixed-potentials eigenfunction expansion technique are presented. In contrast to what commonly known in the literatures the new formulation can analyze a three-dimensional coplanar strip discontinuity structure on a finite-width substrate. In the case of the reduced structure analyzed by the new method the theoretic results for a microstrip discontinuity problem are validated by comparing them with those obtained by the SDA (Spectral-Domain Approach) incorporated by the LINMIC/sup +TM/.

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