Abstracts

Spectral Iterative Techniques for the Full-Wave 3d Analysis of (M)MIC Structures

W. Wertgen and R.H. Jansen. "Spectral Iterative Techniques for the Full-Wave 3d Analysis of (M)MIC Structures." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 709-712.

As an alternative to conventional moment methods, spectral iterative techniques (SITs) are introduced for the fullwave 3d analysis of (M)MIC structures. A spectral domain integral operator formulation is used in analogy to standard scattering problems. The employed iterative computational techniques avoid the handling of large matrix equations otherwise required in the treatment of complex geometries. Hence, computation time is reduced considerably and the capability of analyzing irregular microstrip structures is obtained for problems exceeding the scope of moment methods.

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