

Abstracts

Efficient Implementation of the Spectral Domain Method Including Pre-Calculated Corner Basis Functions (1993 Vol. II [MWSYM])

S.A. Meade and C.J. Railton. "Efficient Implementation of the Spectral Domain Method Including Pre-Calculated Corner Basis Functions (1993 Vol. II [MWSYM])." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 991-994.

A general implementation of the spectral domain method, formulated for planar microstrip circuits of arbitrary metallisation pattern is presented. The inclusion of a priori knowledge of the edge and corner singularities in the set of basis functions results in a large decrease in the order of the problem to be solved. Libraries of basis functions allow the rapid rigorous analysis of realistically complex circuits. Calculated S-parameters are given for three microstrip lowpass filters and compared to results from both measured and other techniques.

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