Abstracts

Electrodynamic coplanar/slotline structure analysis with 3-D components based on a surface/volume integral equation approach

T. Vaupel and V. Hansen. "Electrodynamic coplanar/slotline structure analysis with 3-D components based on a surface/volume integral equation approach." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1681-1684 vol.4.

This paper deals with the electrodynamic analysis of coplanar (M)MIC and submm-wave structures based on a surface/volume integral equation method. The slot areas and additional 3-D components are modeled by magnetic and electric surface currents and polarization volume currents. High accuracy and efficiency is achieved by applying complete analytical solutions for the asymptotic system matrix combined with adaptive database strategies.

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