

Abstracts

MRTD applied to complex geometry air-dielectric interfaces in 3D microwave structures

R.L. Robertson, E.M. Tentzeris and L.P.B. Katehi. "MRTD applied to complex geometry air-dielectric interfaces in 3D microwave structures." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1463-1466 vol.4.

The MRTD scheme is applied to the analysis of microwave structures with complex air-dielectric interfaces. A new formulation for modeling air-dielectric interfaces is introduced and applied to different microwave structures. MRTD results are compared to those generated by FDTD, and it is shown that MRTD retains substantial savings in memory.

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