

Abstracts

Hybridizing FD-TD Analysis with Unconditionally Stable FEM for Objects of Curved Boundary

R.-B. Wu and T. Itoh. "Hybridizing FD-TD Analysis with Unconditionally Stable FEM for Objects of Curved Boundary." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 833-836.

A novel unconditionally stable finite element scheme is incorporated to the conventional FD-TD analysis for solving the Maxwell's equations associated with objects with curved boundary. It is applied to electromagnetic scattering of two dimensional arbitrarily shaped dielectric cylinders to demonstrate its advantages in accuracy, stability, computational efficiency, and programming ease.

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