

Abstracts

FDTD improvement by dielectric subgrid resolution

G. Marrocco, M. Sabbadini and F. Bardati. "FDTD improvement by dielectric subgrid resolution." 1998 Transactions on Microwave Theory and Techniques 46.12 (Dec. 1998, Part I [T-MTT]): 2166-2169.

Material inhomogeneities are taken into account in the standard finite-difference time domain method by staircase modeling of medium boundaries. Resolution is, therefore, limited by Yee's cell sizes. In this paper, a new scheme is proposed, which improves material resolution without increasing the demand of computer resources.

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