Abstracts

A Stretched Coordinate Technique for Numerical Absorption of Evanescent and Propagating Waves in Planar Waveguiding Structures (1995 Vol. I [MWSYM])

M.A. Gribbons, W.P. Pinello and A.C. Cangellaris. "A Stretched Coordinate Technique for Numerical Absorption of Evanescent and Propagating Waves in Planar Waveguiding Structures (1995 Vol. I [MWSYM])." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 31-34.

Berenger's PML technique is modified to allow for the absorption of evanescent waves, as well as propagating waves, in FDTD modeling of wave propagation in planar waveguiding structures. Analytical results are used to illustrate the validity and capability of the proposed modification. Results from FDTD and compact 2D-FDTD simulations demonstrate its performance.

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