

Abstracts

Stable and efficient ABCs for graded mesh FDTD simulations

A. Lauer and I. Wolff. "Stable and efficient ABCs for graded mesh FDTD simulations." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 461-464.

Well known Absorbing Boundary Conditions show instabilities if used for graded mesh FDTD simulations of structures on high permittivity substrates. This paper proposes a PML like absorber which is unconditionally stable. Reflection factors of less than -70 dB have been achieved for coplanar waveguide termination.

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