Abstracts

Enhanced PML-like ABCs for layered media transmission line termination

A. Lauer, A. Wien, P. Waldow and I. Wolff. "Enhanced PML-like ABCs for layered media transmission line termination." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 739-742 vol.2.

An equivalent circuit (EC) based analytical way is shown to optimize the discrete conductivity profile of PML-like Absorbing Boundary Conditions for layered media transmission line termination. for validation, a two cell microstrip transmission line (Substrate /spl epsiv//sub r/+12.9) absorber is presented with S/sub 11/<-60 dB in a 3D FDTD simulation, which is in excellent agreement with the Equivalent Circuit model's prediction. Therefore a significant reduction of the ABC computation time can be achieved.

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