Abstracts

A New Stable and Very Dispersive Boundary Condition for the FD-TD Method

P.-Y. Zhao, J. Litva and K.-L. Wu. "A New Stable and Very Dispersive Boundary Condition for the FD-TD Method." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. I [MWSYM]): 35-38.

In this paper, we present a new stable and very dispersive boundary condition for the finite difference time domain (FD-TD) method. Compared with existing absorbing boundary conditions (ABC's), the new boundary condition has a similar computational complexity but much better absorbing performance. As well, the new boundary condition is more stable than presently existing ABC's.

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