

Abstracts

Successful applications of PML-ABC to the symplectic FDTD scheme with 4th-order accuracy in time and space

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Successful applications of the perfectly matched layer (PML)-absorbing boundary condition (ABC) to the symplectic finite-difference time-domain (FDTD) scheme are demonstrated. The scheme employs the 4th-order symplectic integrator propagator. The scheme is highly accurate and memory savable. This demonstration opens the door to the practical application of the scheme.

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