Abstracts

A Local Mesh Refinement Algorithm for the Time Domain Finite Difference Method Using Maxwell's Curl Equations (Short Papers)

In this paper we consider an efficient local mesh refinement algorithm subdividing a computational domain to resolve fine dimensions in a TD-FD space-time grid structure. At a discontinuous coarse-fine mesh interface, the boundary conditions for the tangential and normal field components are enforced for a smooth transition of highly nonuniform field quantities.

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