Abstracts

On the Accuracy of Perfectly Matched Layers Using a Finite Element Formulation

A Perfectly Matched Layer (PML) is applied to a three-dimensional edge-based finite element formulation to calculate the S-parameters of waveguide structures. The PML region is implemented in the finite element code as a non-physical uniaxial anisotropic lossy material. Numerical results demonstrate the accuracy and future potential of such an absorber.

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