

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

---

*M.R. Lyons, A.C. Polycarpou and C.A. Balanis. "On the Accuracy of Perfectly Matched Layers Using a Finite Element Formulation." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. 1 [MWSYM]): 205-208.*

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.

 [Return to main document.](#)