

Abstracts

An anisotropic PML for use with biaxial media

A. Mitchell, J.T. Aberle, D.M. Kokotoff and M.W. Austin. "An anisotropic PML for use with biaxial media." 1999 Transactions on Microwave Theory and Techniques 47.3 (Mar. 1999 [T-MTT]): 374-377.

This paper presents the conditions required for an anisotropic perfectly matched layer for material exhibiting a biaxial permittivity tensor. Such materials are common in optical devices. This derivation does not treat arbitrary orientations, but should be general enough for many common situations. The effectiveness of this absorbing boundary condition is considered using the finite-element method.

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