

Abstracts

Unsplit-field formulations for generalised material independent PML absorbers

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To absorb EM waves propagating in arbitrary anisotropic media consisting of both permittivity and permeability tensors, a generalized material independent PML (GMIPML) absorber based on split-field formulations was recently developed by the author. In this paper, to further enhance the efficiency of the GMIPML, unsplit-field formulations for this absorber are proposed. Validation of the GMIPML based on the unsplit-field formulations is carried out through numerical examples.

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