

Abstracts

On the Application of Finite Methods in Time Domain to Anisotropic Dielectric Waveguides

S.G. Garcia, T.M. Hung-Bao, R. Gomez Martin and B.G. Olmedo. "On the Application of Finite Methods in Time Domain to Anisotropic Dielectric Waveguides." 1996 Transactions on Microwave Theory and Techniques 44.12 (Dec. 1996, Part I [T-MTT]): 2195-2206.

This paper presents some general ideas for the construction of explicit finite algorithms to study wave propagation in dielectric anisotropic waveguides. The goal is to facilitate the development of different finite schemes through the extension of the finite-difference time-domain (FDTD) method to study anisotropic media. Some of these schemes are particularized and applied to the simulation of the propagation of electromagnetic waves through planar dielectric anisotropic waveguides.

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