

Abstracts

The Generalized TLM Based Finite-Difference Time-Domain (FD-TD) Method and its Applications to Frequency-Dependent and Anisotropic Media

Z. Chen. "The Generalized TLM Based Finite-Difference Time-Domain (FD-TD) Method and its Applications to Frequency-Dependent and Anisotropic Media." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 435-438.

In this paper, the generalized TLM-based finite-difference time-domain method (FD-TD) is presented for modeling and simulation of frequency-dependent and anisotropic media. The method is the generalized FD-TD form of the TLM symmetrical condensed node and therefore retains the properties of both the FD-TD and TLM methods. It allows the direct use of electromagnetic field quantities in the algorithm and direct treatments of anisotropic media.

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