

Abstracts

FDTD Analysis of Magnetized Ferrites: A More Efficient Algorithm

*M. Okoniewski and E. Okoniewska. "FDTD Analysis of Magnetized Ferrites: A More Efficient Algorithm." 1994 *Microwave and Guided Wave Letters* 4.6 (Jun. 1994 [MGWL]): 169-171.*

A more efficient FDTD algorithm is introduced for the analysis of structures involving magnetized ferrites. A critical issue of time and space synchronism ensuring second order accuracy is discussed, and a method to provide it based on extrapolation rather than interpolation used by previous authors is presented. Numerical examples validating the method are given.

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