Abstracts

FDTD treatment of partially magnetized ferrites with a new permeability tensor model

T. Monediere, K. Berthou-Pichavant, F. Marty, P. Gelin and F. Jecko. "FDTD treatment of partially magnetized ferrites with a new permeability tensor model." 1998 Transactions on Microwave Theory and Techniques 46.7 (Jul. 1998 [T-MTT]): 983-987.

This paper outlines the finite-difference time-domain (FDTD) treatment of partially magnetized ferrites characterized by a permeability tensor model, which was recently published. Its causal aspect makes this tensor well adapted to time-domain simulations. Validation is demonstrated for a resonant ferrite structure, Numerical and analytical results are compared, showing good agreement.

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