Abstracts

Scattering from Ferrite Bodies of Revolution Using a Hybrid Approach

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The scattered fields from axisymmetric problems containing anisotropic media are found by a Hybrid Finite Element method. In particular a symmetric formulation for bodies of revolution that incorporates a Finite Element formulation for axially magnetized ferrite materials is presented. The method is applied to a ferrite cylinder with quartz matching layers. A Gaussian beam input is used to predict the Faraday rotation through the ferrite cylinder and display it visually.

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