Abstracts

Whispering-Gallery Modes and Permeability Tensor Measurements in Magnetized Ferrite Resonators

J. Krupka, P. Blondy, D. Cros, P. Guillon and R.G. Geyer. "Whispering-Gallery Modes and Permeability Tensor Measurements in Magnetized Ferrite Resonators." 1996 Transactions on Microwave Theory and Techniques 44.7 (Jul. 1996, Part I [T-MTT]): 1097-1102.

Whispering-gallery modes in axially magnetized ferrite disk samples have been studied using rigorous Rayleigh-Ritz and finite-element analyses. The influence of radial magnetization on the resonant frequencies of both WGE and WGH modes was investigated, both theoretically and experimentally. Permeability tensor components of biased ferrites were determined from measurements of the resonant frequencies of the WGH/sub n00/ and the WGE/sub n00/ mode families.

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