Abstracts

Analysis of circular stripline resonators on normally biased ferrite substrates

V. Losada, R.R. Boix and M. Horno. "Analysis of circular stripline resonators on normally biased ferrite substrates." 1998 Microwave and Guided Wave Letters 8.6 (Jun. 1998 [MGWL]): 226-228.

Galerkin's method in the Hankel transform domain is used for determining the resonant frequencies of stripline circular resonators on normally biased ferrite substrates. The numerical results obtained show that the resonant frequencies of the resonators can be tuned by varying the magnitude of the applied bias magnetic field. However, there is a cutoff frequency band in which resonances are not allowed owing to the excitation of an infinite number of magnetostatic volume-wave modes along the ferrite substrates supporting the resonators.

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