Abstracts

Magnetostatic Forward Volume Wave Propagation--Finite Width (Short Papers)

I.J. Weinberg and J.C. Sethares. "Magnetostatic Forward Volume Wave Propagation--Finite Width (Short Papers)." 1984 Transactions on Microwave Theory and Techniques 32.4 (Apr. 1984 [T-MTT]): 463-464.

The infinite radiation resistance encountered at the low end of the magnetostatic forward volume wave frequency band for a YIG layer of finite width is avoided by employing a physically justifiable low frequency cutoff value higher than that for which radiation resistance would be infinite. Radiation reactance and insertion loss then can be calculated and are found to be relatively insensitive to the choice of the cutoff frequency, except for frequencies very close to cutoff. Beam spreading considerations determine the cutoff frequency.

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