

Abstracts

The Magnetostatic Waves in Ferrite Film with Losses (Short Papers)

S.A. Vyzulin, A.E. Rosenson and S.A. Shekh. "The Magnetostatic Waves in Ferrite Film with Losses (Short Papers)." 1993 Transactions on Microwave Theory and Techniques 41.6 (Jun./Jul. 1993 [T-MTT]): 1070-1073.

The influence of relaxation processes on dispersion equation solutions for surface and volume magnetostatic waves (MSW) propagating in ferrite film has been theoretically investigated. It has been shown that dissipation is the reason for the appearance of complementary MSW branches in frequency intervals which adjoin to "standard" branches in spectra. The existence of the threshold MSW wave numbers which are restricted above the spectra of possible wave numbers is established. Asymptotic frequencies and frequencies corresponding to the threshold values of wave numbers have been calculated. The features of dissipation effects on boundary locations of MSW existence ranges were calculated. The frequental dispersion of the losses spectra was also calculated.

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