Abstracts

Magnetic Wave Interactions in a Periodically Corrugated YIG Film

S.R. Seshadri. "Magnetic Wave Interactions in a Periodically Corrugated YIG Film." 1979 Transactions on Microwave Theory and Techniques 27.2 (Feb. 1979 [T-MTT]): 199-204.

The magnetic wave interactions in a YIG film having periodically corrugated surfaces are investigated for the ease of magnetization parallel to the propagation direction. By a singular boundary perturbation procedure, the coupled-mode equations governing the nature of the interactions are deduced and analyzed to obtain the characteristics of the interactions. Representative numerical results are presented to reveal the characteristics of the resulting wave filter.

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