

Abstracts

Effect of the Magnetic Perturbation on Magnetostatic Surface-Wave Propagation

M. Tsutsumi, T. Bhattacharyya and N. Kumagai. "Effect of the Magnetic Perturbation on Magnetostatic Surface-Wave Propagation." 1976 Transactions on Microwave Theory and Techniques 24.9 (Sep. 1976 [T-MTT]): 591-597.

This paper discusses the propagation of the magnetostatic surface wave in two ferrite slabs (namely, YIG and Ga-YIG) with different magnetic saturations, and considers a weak coupling in between them. The theoretical results are obtained by using the conventional perturbation technique which is subsequently supported by experiment. Further, the time delay in group velocity affected by the magnetic perturbation is treated theoretically.

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