Abstracts

Behavior of the Magnetostatic Wave in a Periodically Corrugated YIG Slab (Short Papers)

M. Tsutsumi, Y. Sakaguchi and N. Kumagai. "Behavior of the Magnetostatic Wave in a Periodically Corrugated YIG Slab (Short Papers)." 1977 Transactions on Microwave Theory and Techniques 25.3 (Mar. 1977 [T-MTT]): 224-228.

An analysis for the propagation characteristics of the magnetostatic wave in a YIG slab having periodically corrugated surfaces is presented. The Brillouin diagrams, close to the intersection point (omega,K) of m = 0 and m = -1 space harmonics, are obtained for different slab thicknesses, and the nonexistence of leaky wave modes has been established. Some discussions concerning the internal dc magnetic field and the propagation loss are also presented.

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