Abstracts

Interaction of Signals in Ferromagnetic Microwave Limiters

P.R. Emtage and S.N. Stitzer. "Interaction of Signals in Ferromagnetic Microwave Limiters." 1977 Transactions on Microwave Theory and Techniques 25.3 (Mar. 1977 [T-MTT]): 210-213.

A weak secondary signal is partially absorbed in a ferromagnetic microwave limiter that is saturated by a strong primary signal; the absorption is greatest when the two signals are close in frequency. The width of this absorption is determined here, and is found to be proportional to the spin wave linewidth and to the square root of the excess power in the primary signal. The theory of this effect is presented and is found to agree well with experiment.

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