

Abstracts

Excitation of Spin Waves by Wire Arrays (Comments)

R. LaRosa, C.F. Vasile, I. Kaufman and R.F. Soohoo. "Excitation of Spin Waves by Wire Arrays (Comments)." 1966 Transactions on Microwave Theory and Techniques 14.10 (Oct. 1966 [T-MTT]): 495-496.

Kaufman and Soohoo have suggested that spin waves involving exchange forces can be excited by means of a fine wire at the end of a YIG crystal. It would be very desirable to do this, for then the entire crystal might be kept at a low enough dc field to avoid coupling to acoustic waves. We have made a detailed analysis of an array of flat wires immersed in an infinite YIG medium and also printed on the air-YIG interface of a semi-infinite YIG medium. The dc magnetic field has been taken both perpendicular to the plane of the array and parallel to the array conductors.

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