

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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