

Abstracts

A Short History of Microwave Acoustics (Corrections)

J.H. Collins. "A Short History of Microwave Acoustics (Corrections)." 1985 Transactions on Microwave Theory and Techniques 33.2 (Feb. 1985 [T-MTT]): 173-173.

In regard to Section III of the above paper, John Eshbach has brought to my attention that the original experiments on microwave magnetoelastic YIG delay lines were performed by him on disc-shaped geometries and published in 1962. His 1963 paper gave the first details of the electromagnetic --> spin --> acoustic conversion process for a YIG disc, which is shown in Fig. 5 of the above paper for a YIG rod. Premium in space precluded a full description of the entire conversion process for an axially magnetically biased YIG rod which is electromagnetic --> magnetostatic -->spin (exchange) -->acoustic. This was originally proposed by B. Yazgan in her 1966 Ph.D. thesis submitted to Glasgow University and subsequently developed by J. H. Collins and experimentally verified by B. A. Auld et al. Reference to the caption in Fig. 5 of the above paper allows references [3] and [4] to be traced.

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