

# Abstracts

## A Method for Rapidly Orienting Single-Crystal Garnet Spheres (Correspondence)

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*R.E. Willoughby and J. Brown, Jr.. "A Method for Rapidly Orienting Single-Crystal Garnet Spheres (Correspondence)." 1964 Transactions on Microwave Theory and Techniques 12.3 (May 1964 [T-MTT]): 385-386.*

In today's rapidly expanding microwave technology, more and more devices utilizing spheres of single crystal yttrium iron garnet (or hybrid variations of YIG) are being developed. The most common of these are the gyromagnetic coupler-type power limiter and the tunable YIG filter. In each of these applications, a sphere of single crystal YIG is used as the coupling element between two otherwise isolated transmission lines, and is biased to ferromagnetic resonance by means of an applied dc magnetic field perpendicular to the orthogonal RF magnetic field components at the sphere.

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