

Abstracts

The Representation of Waveguides Containing Small Ferrimagnetic Ellipsoids

L.K. Anderson and H.J. Shaw. "The Representation of Waveguides Containing Small Ferrimagnetic Ellipsoids." 1962 PGMTT National Symposium Program and Digest 62.1 (1962 [MWSYM]): 36-40.

As ferrimagnetic materials having lower and lower intrinsic losses have become available, it has become feasible to build microwave devices in which small ellipsoidal samples are placed in uniform propagating structures. In many such applications, the sample, although small physically, presents a large electrical discontinuity, so that the usual perturbation procedures are no longer adequate to describe the interaction between the sample and the microwave circuit, and a more complete analysis must be made.

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