Abstracts

Calculated and measured characteristics of a microstrip line fabricated on a Y-type hexaferrite substrate

Hoton How, Xu Zuo, E. Hokanson, L.C. Kempel and C. Vittoria. "Calculated and measured characteristics of a microstrip line fabricated on a Y-type hexaferrite substrate." 2002 Transactions on Microwave Theory and Techniques 50.5 (May 2002 [T-MTT]): 1280-1288.

Numerical calculations have been applied to a microstrip line fabricated on a Y-type hexaferrite substrate using the Green's function technique. The formulation allows the ferrite substrate to be magnetized along an arbitrary direction. Current potentials have been used to construct the Galerkin elements and the resultant calculational scheme is applicable even when ferrimagnetic resonance is approached. Calculations compared reasonably well with measurements.

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