# Abstracts

## FEM analysis of nonreciprocity of a coplanar waveguide with a transversely magnetised ferrite layer

*L. Zhou and L.E. Davis. "FEM analysis of nonreciprocity of a coplanar waveguide with a transversely magnetised ferrite layer." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 1109-1112.*

In this paper a study of the phase shift and characteristic impedance of a coplanar waveguide with a dielectric substrate and a ferrite superstrate is carried out using a finite element method. The results show that selecting an appropriate ratio of the ferrite layer thickness to slot width and the width of the central strip to slot width can result in larger nonreciprocity and characteristic impedance values of 40-60/spl Omega/.

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