Abstracts

Ferrite Phase Shifter Finite Element Analysis Including Losses

G. Forterre, P.H. Giesbers and E. Laroche. "Ferrite Phase Shifter Finite Element Analysis Including Losses." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 407-410.

Transmission lines of arbitrary cross-section loaded by dielectric and gyromagnetic lossy media of arbitrary shape are analyzed. A finite element method using a new transerve fields formulation is used, which leads to an eigenvalue problem. This direct method allows to take into account complex frequency dependent physical parameters. Numerical examples are carried out on a ferrite phase shifter. Attenuation of the guided wave is evaluated.

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