Abstracts

Finite Element Solution of Longitudinally Magnetized Elliptical Gyromagnetic Waveguides

A.A.P. Gibson and J. Helszajn. "Finite Element Solution of Longitudinally Magnetized Elliptical Gyromagnetic Waveguides." 1989 Transactions on Microwave Theory and Techniques 37.6 (Jun. 1989, Part I [T-MTT]): 999-1005.

One of the most common methods employed in the study of waveguides with irregular electric or magnetic walls is the finite element approach. This method is based on the minimization of a functional, the solution of which satisfies the boundary value problem. It is utilized in this paper to study the elliptical gyromagnetic waveguide with either an electric or a magnetic wall. The functionals for the four possible planar solutions are separately summarized.

❑ Return to main document.