Abstracts

Propagation in Circular Waveguide Loaded with an Azimuthally Magnetized Ferrite Tube (Short Papers)

O. Parriaux and F.E. Gardiol. "Propagation in Circular Waveguide Loaded with an Azimuthally Magnetized Ferrite Tube (Short Papers)." 1977 Transactions on Microwave Theory and Techniques 25.3 (Mar. 1977 [T-MTT]): 221-224.

A new computer method for the study of radially inhomogeneous guiding structures presenting circular symmetry is utilized to determine propagation properties of a ferrite loaded guide. The nonreciprocal characteristics obtained can be used to design latching rotators and differential phase shifters for polarization orthogonality restoration in high-frequency (above 10 GHz) communication systems with frequency reuse.

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