Abstracts

Transverse Electric Field Distributions in Ferrite Loaded Waveguides (Correspondence)

D.J. Angelakos. "Transverse Electric Field Distributions in Ferrite Loaded Waveguides (Correspondence)." 1959 Transactions on Microwave Theory and Techniques 7.3 (Jul. 1959 [T-MTT]): 390-391.

The transverse electric field distribution in dielectric and ferrite loaded waveguides has been measured by several investigators. Knowledge of the actual field distribution within the waveguide is needed in the design of field displacement isolators, phase-shifters, and similar microwave devices. In making such measurements, care must be taken to choose lengths of samples of ferrites or dielectrics sufficiently long enough so that the distribution in one transverse plane will he the same (except for an attenuation effect) as in another transverse plane.

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