

Abstracts

Eigenmodes in a Toroidal Cavity of Elliptic Cross Section (Short Papers)

M.S. Janaki and B. Dasgupta. "Eigenmodes in a Toroidal Cavity of Elliptic Cross Section (Short Papers)." 1996 Transactions on Microwave Theory and Techniques 44.7 (Jul. 1996, Part I [T-MTT]): 1147-1150.

The axisymmetric electromagnetic eigenmodes of a toroidal resonator with elliptic cross section are analyzed by solving the basic equations up to the lowest order in inverse aspect ratio. The effects of toroidicity and ellipticity of the cross section are quite significant for both TE and TM modes.

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