

Abstracts

Modes in Dielectric-Loaded Waveguides and Resonators

K.A. Zaki and A.E. Atia. "Modes in Dielectric-Loaded Waveguides and Resonators." 1983 *Transactions on Microwave Theory and Techniques* 31.12 (Dec. 1983 [T-MTT] (1983 Symposium Issue)): 1039-1045.

Analysis of nonaxially symmetric modes in circular wave-guides partially filled with high-dielectric constant material is presented. A method for the accurate determination of resonant frequencies of any mode excited in dielectrically loaded waveguide cavities is described. The method is used to construct mode charts for dielectric resonators. Comparison of the resonant frequency calculations for several cases agrees closely with measurements.

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