

Abstracts

Theoretical and Experimental Study of the Resonant Frequency of a Cylindrical Dielectric Resonator (Short Papers)

D. Maystre, P. Vincent and J.C. Mage. "Theoretical and Experimental Study of the Resonant Frequency of a Cylindrical Dielectric Resonator (Short Papers)." 1983 Transactions on Microwave Theory and Techniques 31.10 (Oct. 1983 [T-MTT]): 844-848.

A rigorous modal method is described for calculating the resonant frequencies of a circular cylindrical dielectric rod placed between two perfectly conducting plates. Comparisons of the numerical results with those obtained from another rigorous theory developed at the same time by one of the authors show an accuracy better than 10^{-4} . Comparison with experimental data shows generally a very good agreement.

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