

Abstracts

Resonant Frequencies of Dielectric Resonators Containing Guided Complex Modes (Short Papers)

*C. Chen and K.A. Zaki. "Resonant Frequencies of Dielectric Resonators Containing Guided Complex Modes (Short Papers)." 1988 *Transactions on Microwave Theory and Techniques* 36.10 (Oct. 1988 [T-MTT]): 1455-1457.*

It is shown that unless complex modes are included in the mode matching analysis to determine the resonant frequencies of dielectric-loaded resonators, some resonant frequencies could be missed. Field distributions, mode charts, and mode coefficients of dielectric-loaded resonators in which complex modes exist are presented. Experimental measurements for the verification of the computed results are presented and show good agreement with theory.

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