

Abstracts

New Method for Computing the Resonant Frequencies of Dielectric Resonators (Short Papers)

T. Itoh and R.S. Rudokas. "New Method for Computing the Resonant Frequencies of Dielectric Resonators (Short Papers)." 1977 Transactions on Microwave Theory and Techniques 25.1 (Jan. 1977 [T-MTT]): 52-54.

A new method is developed for accurately predicting resonant frequencies of dielectric resonators used in microwave circuits. By introducing an appropriate approximation in the field distribution outside the resonator an analytical formulation becomes possible. Two coupled eigenvalue equations thus derived are subsequently solved by a numerical method. The accuracy of the results computed by the present method is demonstrated by comparison with previously published data.

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