

Abstracts

Design of Cylindrical Dielectric Resonators in Inhomogeneous Media

R.R. Bonetti and A.E. Atia. "Design of Cylindrical Dielectric Resonators in Inhomogeneous Media." 1981 Transactions on Microwave Theory and Techniques 29.4 (Apr. 1981 [T-MTT]): 323-326.

An iterative analytical method is presented for computing resonant frequencies of dielectric cylindrical resonators in inhomogeneous media. Normalized design charts are presented including a wide range of practical geometrical and physical parameters. Numerical results, when compared to three independent sets of experimental data, show an accuracy of better than 1 percent.

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