

Abstracts

On the Resonances of a Dielectric Resonator of Very High Permittivity

J. Van Bladel. "On the Resonances of a Dielectric Resonator of Very High Permittivity." 1975 Transactions on Microwave Theory and Techniques 23.2 (Feb. 1975 [T-MTT]): 199-208.

It is shown that the modes of a dielectric resonator are of two types: confined and nonconfined. Orthogonality properties and variational principles are derived for these modes, and their radiation pattern and quality factor are investigated. The material of the resonator is assumed lossless and of very high permittivity.

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