

Abstracts

The Excitation of Dielectric Resonators of Very High Permittivity

J. Van Bladel. "The Excitation of Dielectric Resonators of Very High Permittivity." 1975 Transactions on Microwave Theory and Techniques 23.2 (Feb. 1975 [T-MTT]): 208-217.

The response of a dielectric resonator excited by either interior volume sources or incident exterior waves is investigated. Special attention is devoted to phenomena at resonance, and in particular to the induced electric and magnetic dipoles. Simple formulas are obtained for the scattering cross section. The material of the resonator is assumed lossless and of very high permittivity.

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