

Abstracts

High-Permittivity Dielectrics in Waveguides and Resonators

J. Van Bladel. "High-Permittivity Dielectrics in Waveguides and Resonators." 1974 *Transactions on Microwave Theory and Techniques* 22.1 (Jan. 1974 [T-MTT]): 32-37.

Resonators and waveguides containing a region of high dielectric constant are considered. The dielectric constant is first assumed to be infinite, but is later given a high, but finite value. Perturbation formulas are derived for the resulting shift in either the resonant frequency of the resonator or the wavenumber of the waveguide mode.

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