Abstracts

Eigenvalues for a Spherical Cavity with an Impedance Wall (Correspondence)

P. Bhartia and M.A.K. Hamid. "Eigenvalues for a Spherical Cavity with an Impedance Wall (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.1 (Jan. 1971 [T-MTT]): 110-111.

The boundary value solution for the resonance frequencies of a spherical cavity with an impedance wall is presented for the TE and TM cases. It is found that in the TE case with a capacitive cavity surface, a new mode exists and corresponds to the fundamental mode. This is in contrast to the perfectly conducting spherical cavity where a TM mode is the lowest order mode.

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