Abstracts

Direct and Inverse Resonance Problems for Shielded Composite Objects Treated by Means of the Null-Field Method

W. Zheng. "Direct and Inverse Resonance Problems for Shielded Composite Objects Treated by Means of the Null-Field Method." 1989 Transactions on Microwave Theory and Techniques 37.11 (Nov. 1989 [T-MTT]): 1732-1739.

Resonances of a composite object shielded by a perfect conductor are investigated using the null-field method. Computed resonance frequencies and quality factors of shielded homogeneous and composite resonators are reported and compared with previously published results whenever possible. Conversely, in the inverse sense, the permittivities and geometric parameters of shielded composite objects are computed from calculated or measured complex frequencies.

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