

Abstracts

Coupling Errors in Cavity-Resonance Measurements on MIC Dielectrics (Short Papers)

P.H. Ladbrooke, M.H.N. Potok and E.H. England. "Coupling Errors in Cavity-Resonance Measurements on MIC Dielectrics (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.8 (Aug. 1973 [T-MTT]): 560-562.

Measurements on MIC dielectrics have been made by applying the theory of resonant cavities to either wholly or partly metallized substrates. Two different schemes of coupling are employed, depending upon the metallization. Errors occur in the derived value of epsilon, due to the coupling, and are of opposite sense for the two methods discussed. They may be averaged to improve the overall measurement precision (0.5 percent).

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