

Abstracts

A Quasi-Static Analysis of Open-Ended Coaxial Lines (Short Papers)

D.K. Misra. "A Quasi-Static Analysis of Open-Ended Coaxial Lines (Short Papers)." 1987 Transactions on Microwave Theory and Techniques 35.10 (Oct. 1987 [T-MTT]): 925-928.

A quasi-static analysis of an open-ended coaxial line terminated by a semi-infinite medium on ground plane is presented in this paper. The analysis is based on a variation formulation of the problem. A comparison of results obtained by this method with the experimental and the other theoretical approaches shows an excellent agreement. This analysis is expected to be helpful in the inverse problem of calculating the permittivity of materials in vivo for a given input impedance of the coaxial line.

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