Abstracts

Analysis of an Elliptical Conducting Rod Between Parallel Ground Planes by Conformal Mapping

B.N. Das and K.V.S. Rao. "Analysis of an Elliptical Conducting Rod Between Parallel Ground Planes by Conformal Mapping." 1982 Transactions on Microwave Theory and Techniques 30.7 (Jul. 1982 [T-MTT] (Joint Special Issue on GaAs IC's)): 1079-1085.

The paper presents a conformal mapping analysis of an elliptic conducting rod between parallel ground planes, where one of the principal axes of the rod is parallel to but not necessarily centered between the ground planes. The conditions under which this analysis can be applied to the cases of planar and circular conductors between ground planes are obtained. Also, the formulation is extended to the special case of the conductor above a single ground plane.

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