

Numerical Conformal Transformation of Three-Magnetic-Wall Structures (Short Papers)

E. Costamagna. "Numerical Conformal Transformation of Three-Magnetic-Wall Structures (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.8 (Aug. 1989 [T-MTT]): 1263-1266.

The traditional conformal transformation approach for capacitance and impedance evaluation in TEM transmission lines leads to the mapping of the line structure into a rectangular geometry. This approach is not suitable to cope with general two-conductor, three-magnetic-wall line structures, and this paper describes how conformal transformations may transform these structures into less complicated geometries, which either can be solved or have been solved previously by numerical techniques.

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