

Abstracts

On the Resolution of a Class of Waveguide Discontinuity Problems by the Use of Singular Integral Equations

L. Lewin. "On the Resolution of a Class of Waveguide Discontinuity Problems by the Use of Singular Integral Equations." 1961 Transactions on Microwave Theory and Techniques 9.4 (Jul. 1961 [T-MTT]): 321-332.

It is shown that a considerable number of solutions of rectangular waveguide problems appearing in the literature are all special cases of a general treatment focused around the known solution of a singular integral equation. In terms of this a number of typical results are re-examined. The method is then applied to four new configurations, and the range of application and the limitations are examined.

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