Abstracts

A Method of Avoiding the Edge Current Divergence in Perturbation Loss Calculations (Short Papers)

L. Lewin. "A Method of Avoiding the Edge Current Divergence in Perturbation Loss Calculations (Short Papers)." 1984 Transactions on Microwave Theory and Techniques 32.7 (Jul. 1984 [T-MTT]): 717-719.

From a consideration of the properties near the edge of a flat finite-thickness strip and an elliptic cross-section strip, it is shown that the divergence that arises in the perturbation method near a sharp edge can be handled by halting the loss calculation at a definite distance just short of the strip edge. This distance can be expressed in terms of the radius of curvature at the tip for a rounded edge, and in terms of the strip thickness for a flat edge.

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