Abstracts

Numerical investigation of the field and current behavior near lossy edges

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Real circuits involve metallic edges with finite conductivity and nonideal dielectrics. Usually it is more or less implicitly assumed that fields and induced currents behave as if conductors and dielectrics were ideal. In this paper, we show that this assumption is partially erroneous and that the presence of real conductors and dielectrics seems to lead to a simpler and more physical picture, where longitudinal currents are shown to be nonsingular.

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