Abstracts

Solution of the Finline Step-Discontinuity Problem Using the Generalized Variational Technique

The finline step discontinuity is an essential component in millimeter-wave integrated circuits. The discontinuity problem is formulated using an unknown magnetic current in the transverse junction plane. A numerical solution is obtained by a method termed the Generalized Variational Method, and illustrative examples of scattering parameter calculations are given.

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