Abstracts

Modeling of Arbitrarily Shaped Signal Lines and Discontinuities (Short Papers)

B.J. Rubin. "Modeling of Arbitrarily Shaped Signal Lines and Discontinuities (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.6 (Jun. 1989, Part I [T-MTT]): 1057-1060.

The propagation characteristics for signal lines and discontinuities embedded in a homogeneous medium and having any shape composed of steps along the Cartesian coordinates are obtained through an extension of the author's work on scattering from periodic apertures. The approach is specifically applied to high-performance computer packages, where previously employed capacitance and inductance techniques may not be appropriate. Numerical results are given for representative structures that involve signal lines, mesh planes, vias, and crossing and coupled lines.

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