Abstracts

Finite Element Analysis of Lossy Waveguides-Application to Microstrip Lines on Semiconductor Substrate

M. Aubourg, J.-P. Villotte, F. Godon and Y. Garault. "Finite Element Analysis of Lossy Waveguides-Application to Microstrip Lines on Semiconductor Substrate." 1983 Transactions on Microwave Theory and Techniques 31.4 (Apr. 1983 [T-MTT]): 326-331.

The development of Maxwell's equations is made considering the electromagnetic fields as vector distributions. With the aid of the finite element method, an analysis of lossy shielded inhomogenous waveguides of arbitrary shape is described. To solve the complex matrix system an iterative procedure is presented. The method is applied to study the propagation on MIS or Schottky contact microstrip lines.

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