Abstracts

An Inhomogeneous Two-Dimensional Model for the Analysis of Microstrip Discontinuities (Short Papers)

W.K. Gwarek and C. Mroczkowski. "An Inhomogeneous Two-Dimensional Model for the Analysis of Microstrip Discontinuities (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.9 (Sep. 1991 [T-MTT] (Special Issue on Microwave Applications of Superconductivity)): 1655-1658.

The paper proposes a new approach to two-dimensional modeling of microstrip circuits of arbitrary shape. A new model was developed to be used for finite-difference time-domain (FDTD) analysis. A characteristic feature of the new model is its inhomogeneity, i.e., the dependence of the parameters at a particular point in the two-dimensional space on the distance of that point from the strip's edge. Examples of FDTD analysis based on the new model are shown.

❑ Return to main document.