Abstracts

Fullwave Analysis of Planar Microwave Circuits by Integral Equation Methods and Bilinear Transformations (Short Papers)

A. Janhsen, B. Schiek and V. Hansen. "Fullwave Analysis of Planar Microwave Circuits by Integral Equation Methods and Bilinear Transformations (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.7 (Jul. 1992 [T-MTT] (Special Issue on Process-Oriented Microwave CAD and Modeling)): 1581-1584.

Planar microwave circuits are simulated by a mixed space-spectral domain integral method which allows the consideration of space-varying impedances. For an efficient computation of scattering parameters of circuits containing lumped elements within this full wave analysis, a bilinear transformation is used. Furthermore, by this so-called Mobius transformation it is possible to decide whether an impedance region of finite size can be interpreted as a lumped element or not.

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