

Abstracts

Variational Solution of Microwave Circuits and Structures (Short Papers)

S. Tsitsos, N. Karamitsos, B.M. Dillon and A.A.P. Gibson. "Variational Solution of Microwave Circuits and Structures (Short Papers)." 1996 Transactions on Microwave Theory and Techniques 44.3 (Mar. 1996 [T-MTT]): 460-462.

A unified variational formulation for microwave planar transmission lines and lumped-element impedances is developed and applied to an isolated stripline power splitter. Scattering parameters are calculated via the transfinite-element method and the numerical results are corroborated by three-port experimental measurements. The microwave impedance of a thin-film isolation resistor is separately measured and included in the model.

 [Return to main document.](#)