

# Abstracts

## Variational Solution of Microwave Circuits and Structures (Short Papers)

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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.

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