# Abstracts

## Circuit Parameters for Single and Coupled Microstrip Lines by a Rigorous Full-Wave Space-Domain Analysis (Short Papers)

*N. Fache and D. De Zutter. "Circuit Parameters for Single and Coupled Microstrip Lines by a Rigorous Full-Wave Space-Domain Analysis (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.2 (Feb. 1989 [T-MTT] (Special Issue on Quasi-Planar Millimeter-Wave Components and Subsystems)): 421-425.*

A rigorous full-wave analysis is applied to determine the dispersion characteristics and the impedance matrix of coplanar microstrip lines. It is shown that the impedance definition based on the propagating power and the Iongitudinal current is the most appropriate one. Examples are given for the single strip, for two coupled strips, either symmetric or asymmetric, and for a three-strip configuration. Some attention is also devoted to the current profiles associated with each eigenmode.

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