

# Abstracts

## Edge-element formulation of three-dimensional structures

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*J. Tan, G. Pan and B.K. Gilbert. "Edge-element formulation of three-dimensional structures." 1998 Transactions on Microwave Theory and Techniques 46.11 (Nov. 1998, Part I [T-MTT]): 1809-1812.*

A three-dimensional (3-D) asymmetrical functional is developed and implemented as a hybrid-vector edge-element method. The equivalent frequency-dependent circuit parameters are then extracted from the field solutions. Laboratory measurements and data comparison with previous published results strongly support the newly developed theoretical work.

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