

# Abstracts

## Circuit theory for spatially distributed microwave circuits

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A.I. Khalil and M.B. Steer. "Circuit theory for spatially distributed microwave circuits." 1998 *Transactions on Microwave Theory and Techniques* 46.10 (Oct. 1998, Part I [T-MTT]): 1500-1502.

A spatially distributed radio-frequency (RF) circuit, microwave, or millimeter-wave circuit does not have a global reference node as required in conventional nodal analysis. Instead, local reference nodes associated with ports are required. This paper adapts modified nodal analysis to accommodate spatially distributed circuits, allowing conventional harmonic balance and transient simulators to be used.

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