

# Abstracts

## Fullwave Analysis of Microstrip In-Line and Offset Gaps in Fully and Laterally Open Environments Using a Deterministic Spectral Domain Approach

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*J.S. McLean, H. Ling and T. Itoh. "Fullwave Analysis of Microstrip In-Line and Offset Gaps in Fully and Laterally Open Environments Using a Deterministic Spectral Domain Approach." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. 1 [MWSYM]): 345-348.*

Microstrip in-line and offset gap discontinuities in both laterally open and fully open environments are, for the first time, analyzed using a deterministic spectral domain method. The analysis includes the effects of space wave and surface wave radiation and coupling in the case of fully open environments and includes the effects of LSM and LSE wave radiation and coupling in the case of laterally open environments. In the case of laterally open environments, the effect of cover height is investigated. The analysis includes the effects of two-dimensional, two-component current flow on the conductors.

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