

# Abstracts

## Microstrip Open-End and Gap Discontinuities in a Substrate-Superstrate Structure

---

*H.-Y. Yang, N.G. Alexopoulos and D.R. Jackson. "Microstrip Open-End and Gap Discontinuities in a Substrate-Superstrate Structure." 1989 Transactions on Microwave Theory and Techniques 37.10 (Oct. 1989 [T-MTT]): 1542-1546.*

Overlays (superstrates) are of practical use in a variety of microstrip circuit applications. This article presents the analysis, modeling of microstrip open-end, gap discontinuities in a substrate-superstrate structure using the numerical solution of integral equations. Good accuracy is achieved by adopting semi-infinite, subdomain mode expansion functions, with a transverse coordinate dependence obtained from a two-dimensional infinite fine analysis. A parametric study of the material layer effects on radiation, surface wave losses, of the fringing fields at the discontinuities is also performed.

 [Return to main document.](#)