

# Abstracts

## On the Graphical Representation of Electric Field Lines in Waveguide

---

*P.E. Moller and R.H. MacPhie. "On the Graphical Representation of Electric Field Lines in Waveguide." 1985 Transactions on Microwave Theory and Techniques 33.3 (Mar. 1985 [T-MTT]): 187-192.*

A method is presented for illustrating the time-varying behavior of electric field lines in the neighborhood of a parallel-plate waveguide E-plane step discontinuity. Sequences of electric field plots illustrating the time-varying behavior for several E-plane step heights are included. The method presented is applicable to analogous junctions in rectangular waveguide and can be extended to more complex waveguide structures.

[Return to main document.](#)