Abstracts

An Accurate Characterization of Open Microstrip Discontinuities Including Radiation Losses

W.P. Harokopus, Jr. and P.B. Katehi. "An Accurate Characterization of Open Microstrip Discontinuities Including Radiation Losses." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 231-234.

An accurate full-wave analysis of a variety of open rnicrostrip discontinuities and circuit elements has been performed. The technique has been employed to characterize microstrip corners, steps, and matching sections. A two-dimensional application of Method of Moments is utilized to solve Pocklington's Integral equation in the space domain. The analysis accurately accounts for dispersion, space wave, and surface wave radiation. Scattering parameters are obtained for the circuit element or discontinuity by using transmission line theory.

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