Abstracts

Full Wave Modeling of Electrically Wide Microstrip Open End Discontinuities via a Deterministic Spectral Domain Method

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A fullwave analysis of microstrip open-end discontinuities in an open environment is presented. The analysis differs from previous work in that it includes the effects of both longitudinal and transverse current on the strip and mode conversion near the open end. The effects of space, wave and surface wave radiation are included by making use of the exact spectral domain Green's function. The inclusion of transverse current in the analysis allows the analysis to be extended to electrically wide strips. Results of the calculation of the complex reflection coefficient are presented for both narrow and wide strips.

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