Abstracts

Analysis of Microstrip Open-End and Gap Discontinuities in a Substrate-Superstrate Configuration

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A study of microstrip open-end and gap discontinuities in a two-layer structure is presented. The analysis is based on the method of moments solution of a full wave integral equation. A combination of semi-infinite modes and subdomain modes is used. The transverse dependence of the expansion functions is obtained through a two dimensional infinite analysis. A parametric study of the material effects on the radiation and surface wave losses, and the fringing fields at the discontinuities is also performed. The analysis has been checked with good agreement in the limiting case with the quasi-static method.

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