

Surface Wave Excitation from Open Microstrip Discontinuities

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Radiation properties of open microstrip discontinuities are investigated using a full-wave integral equation technique. The method of moments provides the current distribution over the discontinuity which is used to determine radiation loss. The radiation loss for microstrip bends and stubs is separated into the individual contributions of space and surface wave excitation. Patterns depicting the power propagating in the substrate have been computed and verified experimentally.

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