Abstracts

Full-Wave, Finite Element Analysis of Irregular Microstrip Discontinuities

R.W. Jackson. "Full-Wave, Finite Element Analysis of Irregular Microstrip Discontinuities." 1989 Transactions on Microwave Theory and Techniques 37.1 (Jan. 1989 [T-MTT]): 81-89.

Finite element expansion currents are used to formulate a full-wave analysis of microstrip discontinuities. A rigorous analysis of fairly irregular structures is possible, including radiation and surface wave effects as well as coupling between closely spaced junctions. The step, stub, and bent-stub discontinuities are analyzed using this technique. Measurements are presented which verify stub calculations.

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