Abstracts

Theoretical and Experimental Investigation of Some General Suspended Stripline Discontinuities

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An integral equations technique associated with a 2D moment method, is used to characterise some general suspended stripline discontinuities namely: a stub, a meander, a bend and a bent-stub, for which two components for strip surface current are taken into consideration. A numerical simulation of a matched load at terminations of the studied discontinuities is achieved and is used for a precise determination of scattering matrix parameters for these discontinuities. Good agreement is achieved between numerical results and experimental ones that are obtained using the de-embeding calibration technique. The effect of parasitic waveguide modes is also discussed.

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