Abstracts

A Combined Experimental and Theoretical Characterisation of Discontinuities in Unilateral Finlines

An optimization procedure for characterizing finline discontinuities has been developed using the generalized scattering matrix formulation for steps in finline technique. The general waveguide representation of a two-taper finline section with a step is investigated first. The scattering matrix representation of the step is deduced from a combined measurement-numerical optimization procedure. Experimental results will verify the feasibility of the method.

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