

Abstracts

Forcing causality on S-parameter data using the Hilbert transform

P.A. Perry and T.J. Brazil. "Forcing causality on S-parameter data using the Hilbert transform." 1998 Microwave and Guided Wave Letters 8.11 (Nov. 1998 [MGWL]): 378-380.

A new technique to condition S-parameter data for inclusion in a time-domain simulator is presented. This technique uses the Hilbert transform and a new set of network parameters which are always positive real for a passive network. The usefulness of the technique is demonstrated by removing the noncausal aspects of a set of measured S-parameter data.

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