

Abstracts

Interpolation/Extrapolation of Frequency Domain Responses Using the Hilbert Transform

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"*Interpolation/Extrapolation of Frequency Domain Responses Using the Hilbert Transform.*"

1996 Transactions on Microwave Theory and Techniques 44.10 (Oct. 1996, Part I [T-MTT]): 1621-1627.

The Hilbert transform relates the real and the imaginary parts of the transfer function of a causal system. The objective of this paper is to illustrate how the Hilbert transform relationship can be utilized to interpolate/extrapolate measured frequency domain responses of devices. Sample numerical examples are presented to illustrate the efficacy of this method.

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