

Abstracts

Sensitivity Analysis of Lossy Coupled Transmission Lines (Dec. 1991 [T-MTT])

S. Lum, M.S. Nakhla and Q.-J. Zhang. "Sensitivity Analysis of Lossy Coupled Transmission Lines (Dec. 1991 [T-MTT])." 1991 *Transactions on Microwave Theory and Techniques* 39.12 (Dec. 1991 [T-MTT] (1991 Symposium Issue)): 2089-2099.

An analysis method, based on the numerical inversion of the Laplace transform, is described for the evaluation of the time domain sensitivity of networks which include lossy coupled transmission lines. The sensitivity can be calculated with respect to network components and parameters of the transmission lines. Sensitivity analysis is useful for waveform shaping and optimization. Examples and comparisons with sensitivity determined by perturbation are presented.

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