Abstracts

Analysis of Lossy Multiconductor Transmission Lines Using the Asymptotic Waveform Evaluation Technique (Dec. 1991 [T-MTT])

T.K. Tang, M.S. Nakhla and R. Griffith. "Analysis of Lossy Multiconductor Transmission Lines Using the Asymptotic Waveform Evaluation Technique (Dec. 1991 [T-MTT])." 1991 Transactions on Microwave Theory and Techniques 39.12 (Dec. 1991 [T-MTT] (1991 Symposium Issue)): 2107-2116.

A method is described for the transient analysis of lossy coupled transmission line networks with nonlinear elements. The method combines the asymptotic waveform evaluation technique with a piecewise decomposition algorithm. Two to three orders of magnitude speedup can be achieved relative to previously published methods with comparable accuracy. The method is useful for delay and crosstalk simulation of high speed VLSI interconnects.

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