Abstracts

Analysis of high-speed interconnects in the presence of electromagnetic interference (Jul. 1998 [T-MTT])

R. Khazaka and M. Nakhla. "Analysis of high-speed interconnects in the presence of electromagnetic interference (Jul. 1998 [T-MTT])." 1998 Transactions on Microwave Theory and Techniques 46.7 (Jul. 1998 [T-MTT]): 940-947.

This paper describes an efficient algorithm based on moment-matching techniques for simulation of high-speed circuits in the presence of electromagnetic interference (EMI). The proposed method is based on the recently developed complex frequency hopping (CFH) technique for interconnect analysis. The new technique is useful for susceptibility analysis and is two to three orders of magnitude faster than conventional simulation techniques. In addition, it can be extended to the analysis of interconnects with frequency-dependent parameters and nonlinear terminations.

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