Abstracts

A fully integrated multiconductor model for TLM (Dec. 1998, Part II [T-MTT])

A.J. Wlodarczyk, V. Trenkic, R.A. Scaramuzza and C. Christopoulos. "A fully integrated multiconductor model for TLM (Dec. 1998, Part II [T-MTT])." 1998 Transactions on Microwave Theory and Techniques 46.12 (Dec. 1998, Part II [T-MTT] (1998 Symposium Issue)): 2431-2437.

A fully integrated model of coupling between the electromagnetic field and multiconductor cabling is developed using the transmission-line matrix (TLM) method. In this model, the multiconductor cables are represented by multiconductor transmission lines which connect to the general TLM mesh. A basic TLM model of straight multiconductor lines is developed first, followed by the derivation of a general multiconductor junction model suitable for describing more complex configurations. Sample numerical results are presented to confirm validity and efficiency of the model.

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