Abstracts

Transient Analysis of Lossy Coupled Transmission Lines in a Lossy Medium Using the Waveform Relaxation Method (Short Papers)

F.C.M. Lau and E.M. Deeley. "Transient Analysis of Lossy Coupled Transmission Lines in a Lossy Medium Using the Waveform Relaxation Method (Short Papers)." 1995 Transactions on Microwave Theory and Techniques 43.3 (Mar. 1995 [T-MTT]): 692-697.

The waveform relaxation method has been shown to be both efficient and accurate when apptied to coupled transmission lines with conductor losses. In this paper, the method is generalized to include the dielectric loss surrounding the transmission lines. The distributed loss model assumes that the conductance matrix is approximately diagonal and its product with the resistive matrix is a scalar matrix. Computational results using the model is presented and compared with HSPICE solutions.

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