Abstracts

The Generalized Method of Characteristics for Waveform Relaxation Analysis of Lossy Coupled Transmission Lines (1989 Vol. II [MWSYM])

F.-Y. Chang. "The Generalized Method of Characteristics for Waveform Relaxation Analysis of Lossy Coupled Transmission Lines (1989 Vol. II [MWSYM])." 1989 MTT-S International Microwave Symposium Digest 89.2 (1989 Vol. II [MWSYM]): 653-656.

Transient response of lossy coupled transmission lines is simulated by iterative waveform relaxation analyses of equivalent disjoint networks constructed with congruence transformers, FFT waveform generators and characteristic impedances synthesized by the Pade approximation. A phenomenal two order reduction of CPU time and one order savings in computer memory have been achieved. A lossy directional coupler is simulated for illustration.

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