

Abstracts

3-D TLM Time Domain Electromagnetic Wave Simulator for Microwave Circuit Modeling

P.P.M. So and W.J.R. Hoefer. "3-D TLM Time Domain Electromagnetic Wave Simulator for Microwave Circuit Modeling." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 631-634.

A novel 3-D TLM time domain simulator for electromagnetic waves in structures of arbitrary geometry is described. It computes their response to arbitrary excitation in 3-D space and time, and extracts their frequency characteristics via discrete Fourier transform. It also visualizes the field propagation in a generated-solution mode (field animation). Furthermore it permits time reversal for inverse problem simulation. It has been implemented on RISC workstations and 386 micro-computers.

[Return to main document.](#)