

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

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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.

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