

Abstracts

A general framework for SPICE-TLM interconnection

P.P.M. So and W.J.R. Hoefer. "A general framework for SPICE-TLM interconnection." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 1123-1126 vol.2.

A general SPICE-TLM interconnection framework will be presented. The connection algorithm is based on the representation of the TLM network by equivalent Thevenin and/or Norton sources. The framework opens new and far-reaching possibilities for hybrid global microwave and high-speed digital circuit modeling in time domain because it integrates the extensive circuit and device models of SPICE into general three-dimensional field solutions in real time.

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