

Abstracts

Methods for the modeling of thin wire structures with the TLM method

S. Lindenmeier, C. Christopoulos and P. Russer. "Methods for the modeling of thin wire structures with the TLM method." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 387-390.

Different methods for the modeling of thin wire structures with the TLM method are shown. A new TLM-integral equation method (TLMIE) for the accurate modeling of arbitrarily formed thin wire structures in an arbitrary environment is introduced where the thin wire structure is modeled by the integral equation method while the environment is modeled by the TLM scheme. The multigrid method for thin wire modeling is compared with the TLM integral equation method and the conventional TLM method. A numerical example is given for a dipole antenna.

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