Abstracts

The Modeling of Coplanar Circuits in a Parallel Computing Environment

B. Isele and P. Russer. "The Modeling of Coplanar Circuits in a Parallel Computing Environment." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1035-1038.

The time-domain simulation of coplanar waveguide (CPW) elements for picosecond pulse applications is described. CPW discontinuities were simulated using the 3D transmission-line-matrix (TLM) method. We present a cost-effective approach for the time-domain simulation of coplanar circuit structures utilizing distributed computing within a parallel software environment. The use of matched layers and skin effect models is discussed. The application of TLM method and distributed computing to the efficient analysis of coplanar structures is presented.

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