Abstracts

Heterogeneous Parallel Yield-Driven Electromagnetic CAD

J.W. Bandler, R.M. Biernacki, Q. Cai, S.H. Chen, P.A. Grobelny and D.G. Swanson, Jr.. "Heterogeneous Parallel Yield-Driven Electromagnetic CAD." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1085-1088.

Within an integrated parallel optimization framework, we are able, for the first time, to apply electromagnetic (EM) optimization to the yield-driven design of microstrip circuits of arbitrary geometries. Parallel optimization handles the massive demand on computer resources, due to the large number of designable parameters describing an arbitrary geometry and the large number of simulations involved in yield optimization. Our parallel strategy can be implemented over local and wide area networks supporting heterogeneous workstations.

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