

Abstracts

High-Speed 3D Electromagnetic Simulation for MIC/MMIC CAD Using the Spectral Operator Expansion (SOE) Technique

R.H. Jansen and J. Sauer. "High-Speed 3D Electromagnetic Simulation for MIC/MMIC CAD Using the Spectral Operator Expansion (SOE) Technique." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1087-1090.

A layout-oriented 3D electromagnetic simulation tool for the CAD of MICs/MMICs with several new features is described. It exhibits higher speed in multifrequency analyses than the known standard algorithms by using spectral operator expansion (SOE) with non-regular expansion functions. Its use in the context of CAD is outlined by examples.

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