Abstracts

Hybrid Dynamic-Static Finite-Difference Approach for MMIC Design

S. Lindenmeier, P. Russer and W. Heinrich. "Hybrid Dynamic-Static Finite-Difference Approach for MMIC Design." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. I [MWSYM]): 197-200.

The efficiency of the Finite-Difference method is improved by combining the full-wave analysis with a quasi-static approach: Those regions of a structure which require a spatial resolution far below the wavelength are described by a quasistatic analysis. As a consequence, the mesh size of the dynamic problem and hence the numerical efforts can be reduced significantly. The savings are particularly high for miniaturized geometries such as used in coplanar MMIC geometries.

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