Abstracts

A Novel CAD Tool and Concept Compatible with the Requirements of Multilayer GaAs MMIC Technology

R.H. Jansen. "A Novel CAD Tool and Concept Compatible with the Requirements of Multilayer GaAs MMIC Technology." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 711-714.

An efficient field-theoretical tool applicable to a broad class of passive circuit structures has been developed as a CAD kernel component for multilayer GaAs MMIC design. It is based on a new, enhanced spectral domain technique (ESDT) which results in a reduction of CPU-times by one or two orders of magnitude compared to the conventional spectral domain approach. The field-theoretical package can be used, therefore, to generate multidimensional lookup tables in the frame of a general purpose linear CAD program. Together with the associated CAD concept and interpolation technique, the new tool constitutes a shift away from analytical models obtaining improvements with respect to generality, reliability of prediction, accuracy and even efficiency.

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