

Diakoptics and the multilevel moments method for planar circuits

S. Ooms and D. De Zutter. "Diakoptics and the multilevel moments method for planar circuits." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1803-1806.

The Method of Moments matrix equation, resulting from the electromagnetic simulation of a high frequency planar circuit can take much memory and time to solve, typically $O(n/\sup 2/)$ resp. $O(n/\sup 3/)$. This paper proposes a new solution strategy combining a Multilevel Moments Method scheme with a Modified Diakoptics technique and a Block Gauss-Seidel iterative technique, effectively reducing the solution time.

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