Abstracts

An efficient technique for the iterative solution of large dense matrices arising in method of moments simulation of MMIC problems

This paper presents a novel technique referred to herein as MNM for efficient iterative solution of MoM matrices over a broad frequency range. It utilizes a combination of techniques to reduce the number of iterations required to generate the solution including a special choice of the initial guess, and efficient preconditioning. Numerical results are presented to illustrate the application of the MNM to representative microwave circuit analysis problems.

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