

Abstracts

Performance and limitations of decomposition-based parameter extraction procedures for FET small-signal models

C. van Niekerk and P. Meyer. "Performance and limitations of decomposition-based parameter extraction procedures for FET small-signal models." 1998 Transactions on Microwave Theory and Techniques 46.11 (Nov. 1998, Part I [T-MTT]): 1620-1627.

A recently proposed optimizer-based parameter-extraction technique using adaptive decomposition is subjected to a systematic and rigorous evaluation. The technique is shown to be robust and accurate under varying starting conditions. A study of convergence performance based on decomposition theory and test results is presented. Robustness tests are used to show that commonly used statistical descriptions such as mean and standard deviation are inadequate for presenting these types of test data.

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