

Abstracts

Direct Use of a MESFET Physical Model in Non-Linear CAD

P.J.C. Rodrigues, M.J. Howes and J.R. Richardson. "Direct Use of a MESFET Physical Model in Non-Linear CAD." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1579-1582.

This work presents a CAD tool which combines a novel quasi-two-dimensiond MESFET physical model with an efficient non-linear circuit analysis technique. Device technological parameters (dimensions, doping profile, etc.) can be directly related to electrical performance with this tool which can therefore be used in non-linear circuit yield study and optimization. An excellent agreement between simulated and measured results was obtained.

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