

Linear and nonlinear FET modeling applying an electromagnetic and electrical hybrid software

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A new approach is presented in this paper to help the modeling of complex active microwave devices like field-effect transistors. This hybrid method couples an electromagnetic three-dimensional simulator to characterize the extrinsic part and a circuit software to introduce the contribution of the component intrinsic part. The interests of such approach are diverse and are discussed in this paper. Theoretical linear and nonlinear results are compared with measurements and show good agreements.

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