Abstracts

A Novel Algorithm for Bias-Dependent Cascode FET Modeling

P.B. Winson, L.P. Dunleavy, H.C. Gordon, Jr., M.V. Calvo and J. Sherman. "A Novel Algorithm for Bias-Dependent Cascode FET Modeling." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 627-630.

In this work, we present a novel algorithm for a flexible table-based, bias-dependent, small-signal cascode MESFET model. The model utilizes 2-port D.C. and R.F. characterizations of a single-gate, common-source MESFET in contrast to the typical 3-port characterization approach typically applied to dual-gate and cascode FETs. Cascode FET simulations enabled by the new model are shown to track measured data over varying bias conditions.

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