Abstracts

Accurate prediction of PHEMT intermodulation distortion using the nonlinear discrete convolution model

A. Costantini, R.P. Paganelli, P.A. Traverso, D. Argento, G. Favre, M. Pagani, A. Santarelli, G. Vannini and F. Filicori. "Accurate prediction of PHEMT intermodulation distortion using the nonlinear discrete convolution model." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 857-860 vol.2.

A general-purpose, technology-independent behavioral model is adopted for the intermodulation performance prediction of PHEMT devices. The model can be easily identified since its nonlinear functions are directly related to conventional DC and small-signal differential parameter measurements. Experimental results which confirm the model accuracy at high operating frequencies are provided in the paper.

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