

Abstracts

Analytical charge conservative large signal model for MODFETs validated up to MM-wave range

R. Osorio, M. Berroth, W. Marsetz, L. Verwegen, M. Demmler, H. Massler, M. Neumann and M. Schlechtweg. "Analytical charge conservative large signal model for MODFETs validated up to MM-wave range." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 595-598.

We present an analytical charge conservative large signal model for MODFETs, which is valid up to MM-wave frequencies. Although the model equations are simple, an excellent accuracy in the representation of the nonlinear elements of the FET is achieved. The model was used for the successful design of a 2-stage power amplifier for 60 GHz.

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