Abstracts

Direct extraction of nonlinear FET Q-V functions from time domain large signal measurements

M.C. Curras-Francos, P.J. Tasker, M. Fernandez-Barciela, Y. Campos-Roca and E. Sanchez. "Direct extraction of nonlinear FET Q-V functions from time domain large signal measurements." 2000 Microwave and Guided Wave Letters 10.12 (Dec. 2000 [MGWL]): 531-533.

The authors present a simple and accurate procedure for the direct extraction of the quasi-static FET model nonlinear charge functions from large signal measurements. The method is based on the proper use of a vector nonlinear network analyzer (VNNA) with load-pull facilities. To our knowledge, these results show for the first time a direct procedure to extract the nonlinear charges of a FET using a very reduced number of large signal measurements.

❑ Return to main document.