

Abstracts

Nonlinear MESFET Parameter Estimation Using Harmonic Amplitude and Phase Measurements

J.G. Leckey, J.A.C. Stewart, A.D. Patterson and M.J. Kelly. "Nonlinear MESFET Parameter Estimation Using Harmonic Amplitude and Phase Measurements." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1563-1566.

This paper presents the use of harmonic amplitude and phase measurements in a new approach to nonlinear modeling of the frequency dispersive MESFET. Optimisation based nonlinear parameter estimation and a novel method for direct extraction of nonlinear dynamic drain characteristics are described. Improved performance prediction using this new method is illustrated.

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