

Abstracts

The assessment of output digital spectra in quasi enhancement-mode pHEMTs by a modified large-signal model

Shih-Cheng Yang, Chih-Wei Wang, Cheng-Kuo Lin, Hsien-Chin Chiu and Yi-Jen Chan. "The assessment of output digital spectra in quasi enhancement-mode pHEMTs by a modified large-signal model." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 2153-2156 vol.3.

A modified quasi enhancement-mode pHEMTs RF large-signal model is presented which achieves a good agreement with the device performance. This model is based on the Curtice model, by modifying the formula to have a detailed description about non-linear microwave behaviors. The output digital spectra of quasi enhancement-mode pHEMTs can be well predicted by this model, including the ACPR and non-linear spectra regrowth characteristics.

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