

Abstracts

An Accurate and Simple Large Signal Model of HEMT

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A large signal model of discrete HEMTs has been developed. It is simple and suitable to SPICE simulation of hybrid digital ICs. The model parameters are extracted by using computer programs and data provided by the manufacturer. Based on the model, a hybrid pulse inverter with rise and fall times of 20 ps and 29 ps at 5 Gbit/s, respectively, has been built. The accuracy of the model has been verified by obtaining good agreement between the measured and simulated waveform of the inverter.

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