

Abstracts

A New Characterization Approach to Extract HBT's Models for Non-Linear Microwave CAD

J.M. Dienot, O. Llopis, Ph. Andre, M. Gayral and J. Graffeuil. "A New Characterization Approach to Extract HBT's Models for Non-Linear Microwave CAD." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 977-980.

Pulsed I-V measurements, which provide a valid representation of the thermal state of a non-linear device experiencing a given dissipated DC power, are performed together with others independent DC and AC measurements. It is reported how all these data are used to extract an accurate HBTs large signal model. This model is shown to be able to predict the performance of a 1.8 GHz VCO.

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