Abstracts

A pulsed-measurement based electrothermal model of HBT with thermal stability prediction capabilities

T. Peyretaillade, M. Perez, S. Mons, R. Sommet, P. Auxemery, J.C. Lalaurie and R. Quere. "A pulsed-measurement based electrothermal model of HBT with thermal stability prediction capabilities." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1515-1518.

In this paper, a new electrothermal non linear model of HBT suitable for CAD purposes is presented. This model is fully determined by pulsed measurement techniques and for the first time, it is shown that the prediction of thermal instabilities (collapse of current gain) is obtained from the CAD model. The model has been validated both by DC and RF load-pull measurements.

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