

Large-signal look-up table model for InP HEMTs including non-quasi-static and impact ionisation effects

D. Schreurs, A. Orzati, L. Pergola, H. Benedickter, O. Homan and W. Bachtold. "Large-signal look-up table model for InP HEMTs including non-quasi-static and impact ionisation effects." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 827-830 vol.2.

We developed an efficient method to determine a large-signal look-up table model for InP HEMTs. By performing the measurements on a logarithmic frequency scale, we have a high resolution at lower frequencies to accurately characterise impact ionisation, and sufficient data points at millimetre wave frequencies to extract the non-quasi-static parameters.

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