Abstracts

Large-Signal Characterization of Millimeter-Wave Transistors Using an Active Load-Pull Measurement System

R. Actis, R.A. McMorran, R.A. Murphy, M.A. Hollis, R.W. Chick, C.O. Bozler and K.B. Nichols. "Large-Signal Characterization of Millimeter-Wave Transistors Using an Active Load-Pull Measurement System." 1989 MTT-S International Microwave Symposium Digest 89.2 (1989 Vol. II [MWSYM]): 835-838.

An automated measurement system is described for obtaining the load-pull characteristics of high speed transistors at millimeter-wave frequencies. The method uses "active tuning" to electronically vary the transistor output load impedance. The large-signal characteristics of an 8-by-20-µm permeable base transistor (PBT) have been measured with this method and applied to the design of a 27-mW PBT amplifier at 40.1 GHz.

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