

Abstracts

Direct extraction method for internal equivalent circuit parameters of HBT small-signal hybrid-/spl pi/ model

Y. Suh, E. Seok, J.-H. Shin, B. Kim, D. Heo, A. Raghavan and J. Laskar. "Direct extraction method for internal equivalent circuit parameters of HBT small-signal hybrid-/spl pi/ model." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1401-1404.

We present a novel and robust direct extraction method for the hybrid-/spl pi/ equivalent circuit model of a HBT. This method can accurately resolve the most important internal parameters from the measured S-parameters, and is not sensitive to the values of parasitic parameters. We derive some analytical expressions for the parameters. These analytical expressions for the hybrid-/spl pi/ equivalent circuit of the HBT ensure robust, fast, and reliable parameter extraction.

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