

Abstracts

New Method for Direct Extraction of HBT Equivalent Circuit Parameters

C.J. Wei and J.C.M. Hwang. "New Method for Direct Extraction of HBT Equivalent Circuit Parameters." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1245-1248.

A new method for the direct extraction of HBT hybrid-T equivalent circuit from measured S-parameters is presented. The method differs from previous ones by extracting the equivalent circuit parameters without using test structures or numerical optimization techniques. The extracted parameters are essentially frequency-independent and they vary systematically with bias over the typical operating range of the HBT.

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