

Abstracts

A Method for Evaluating and the Evaluation of the Influence of the Reverse Transfer Gain on the Transducer Power Gain of Some Microwave Transistors (Short Papers)

P.L.D. Abrie and P. Rademeyer. "A Method for Evaluating and the Evaluation of the Influence of the Reverse Transfer Gain on the Transducer Power Gain of Some Microwave Transistors (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.8 (Aug. 1985 [T-MTT]): 711-713.

The unilateral figure of merit is frequently used to decide whether, from the viewpoint of transducer power gain, a transistor can be considered to be unilateral or not. In this communication, the limitations of this measure are discussed and alternative measures, as well as a procedure for determining the exact bounds on the gain error $G_{subT}/G_{sub T_{sub u}}$, are proposed and applied to several microwave transistors in order to evaluate the influence of the reverse transfer gain on the transducer power gain.

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