

Two-Signal Method of Measuring the Large-Signal S-Parameters of Transistors (Jun. 1978 [T-MTT])

S.R. Mazumder and P.D. van der Puije. "Two-Signal Method of Measuring the Large-Signal S-Parameters of Transistors (Jun. 1978 [T-MTT])." 1978 Transactions on Microwave Theory and Techniques 26.6 (Jun. 1978 [T-MTT]): 417-420.

In this paper, large-signal S-parameters are reviewed, and transistors of Class-C are employed. Problems are encountered in obtaining large-signal parameters S_{12} and S_{21} . A novel method is concisely developed based on theory presented herein. The acquired S-parameters are applied to amplifier design accordingly. The predicted and measured output power are compared, and suitable conclusions are duly recorded.

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