

Measurement of two-tone transfer characteristics of high-power amplifiers

Youngoo Yang, Jeahyok Yi, Joongjin Nam, Bumman Kim and Myungkyu Park. "Measurement of two-tone transfer characteristics of high-power amplifiers." 2001 Transactions on Microwave Theory and Techniques 49.3 (Mar. 2001 [T-MTT]): 568-571.

In this paper, we present an accurate measurement method for acquiring the two-tone transfer characteristics of high-power amplifiers. The measurement setup and sequence are described. The measured amplitude and phase data of the two-tone fundamental, third-order intermodulation, and fifth-order intermodulation components versus input power level are also presented. The measured two-tone transfer characteristics are very useful for the design of a predistortion linearizer or for nonlinear model extraction for high-power amplifiers.

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