

Abstracts

Dynamic-Range Figure of Merit in High-Gain Amplifiers

P.K. Ikalainen. "Dynamic-Range Figure of Merit in High-Gain Amplifiers." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 321-324.

An optimum scaling that maximizes the (output and input) two-tone third-order intercept point of an amplifier with respect to dc power consumption is derived. The expression for spurious-free dynamic range of a high-gain amplifier is factored to separate effects of device parameters on dynamic range and to derive a new figure of merit.

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