Abstracts

A systematic scheme for power amplifier design using a multi-harmonic loadpull simulation technique

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This paper presents, for the first time, a systematic procedure for narrowband power amplifier design using a multi-harmonic loadpull simulation technique. This scheme explores the effects of each harmonic termination on amplifier performance and finds the optimal load at each harmonic. Following this systematic design procedure we can improve the amplifier performance significantly. The advantages of our method are demonstrated for two power amplifiers. Very promising results are obtained.

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