

عنوان مقاله:

Design of the Doherty Power Amplifier for Wireless Communication Systems

محل انتشار:

کنفرانس بین المللی سیستمهای غیر خطی و بهینه سازی مهندسی برق و کامپیوتر (سال: 1394)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

This paper presents the design and analysis of two-way Doherty power amplifier with the offset line technique. According to the simulation results from Agilent ADS, the proposed Doherty power amplifier achieves the maximum power added efficiency of 58% and the maximum output power of 48.1 dBm at 1.85 GHz. Moreover, at 6 dB back off level, and 8 dB back off level the efficiency of the proposed Doherty power amplifier is more than 45% and 40% respectively. Thus, this design of the Doherty power amplifier can be a candidate for a base station of mobile system because of its high efficiency in from 1.8 GHz to 1.9 GHz frequency band

کلمات کلیدی:

Doherty power amplifier, Wireless Communication System, High Power added efficiency, Agilent ADS

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<https://civilica.com/doc/383392>

