

Abstracts

Linear RF Power Amplifier Design for CDMA Signals

Q. Wu, M. Testa and R. Larkin. "Linear RF Power Amplifier Design for CDMA Signals." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 851-854.

In this paper, we analyze the non-linear effect of an RF power amplifier on CDMA signals and then derive the design formulas which provide the direct relation between the power transistor's traditional non-linearity parameter, the 3rd order intercept point (IP3) and the out-of-band emission levels for CDMA signals. This result will be very useful to system and component engineers in design of RF power amplifiers for CDMA wireless systems.

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