

Building an OFDM system simulation program using HPA amplifier.

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Abstract: In the context of developing fast and stable data transmission technology, this topic focuses on building and testing a simulation program for an Orthogonal Frequency Division Multiplexing (OFDM) system using a Hybrid Power Amplifier (HPA). The objective of the research is to solve the problem of optimizing transmission performance in practical applications. Through theoretical analysis and practical validation, the topic not only provides a robust simulation platform but also contributes to a deeper understanding of how OFDM operates in systems using HPA. Expected results from this research include improved transmission performance and the broad applicability of OFDM technology in the future.

Keywords: OFDM, HPA, system simulation, transmission performance, data transmission techniques