

Abstracts

Design-Oriented Non-Linear Analysis of Class-AB Power Amplifiers

F. Giannini, G. Leuzzi, E. Limiti and L. Scuccchia. "Design-Oriented Non-Linear Analysis of Class-AB Power Amplifiers." 1993 MTT-S International Microwave Symposium Digest 93.1 (1993 Vol. I [MWSYM]): 297-300.

In this work an efficient and reliable non-linear analysis method is proposed for the analysis and design of high-efficiency power amplifiers operating in any class. On the basis of a simplified device model, the method can be used for the optimization of efficiency, output power and drive level of a power stage. Its feasibility is demonstrated comparing the method with the results of a more elaborate non-linear CAD analysis program and with experimental data.

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