

# Abstracts

## Increased efficiency in QAM power amplifiers

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*D.R. Conn and R.N. Hemmers. "Increased efficiency in QAM power amplifiers." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1647-1650.*

A dynamic biasing procedure designed to improve the average dc-rf conversion efficiency of power amplifiers employing multi-level modulation schemes such as QAM is investigated. In this technique, the gate bias voltage is adjusted in accordance with the phasor currently being transmitted. Simulations show promising results for a 1 W class-A mode power amplifier. A system to address the distortion issue and dynamic bias control is proposed.

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