

# Abstracts

## A 1 Watt GaAs Power Amplifier for the NASA 30/20 GHz Communication System

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*J. Goel, G. Oransky, S. Yuan, P. O'Sullivan and J. Burch. "A 1 Watt GaAs Power Amplifier for the NASA 30/20 GHz Communication System." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 225-227.*

A multistage GaAs FET power amplifier, employing cascaded balanced stages using state-of-the-art 1/4, 1/2, and 1 watt devices, has been developed. A linear gain of 30 dB with 1.25 watts output has been achieved over a 17.7 to 19.4 GHz frequency band. The development and performance of the amplifier and its components are discussed.

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