

# Abstracts

## A High-Power Solid-State C-Band Transmitter for MIS Applications

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*W.C. Tsai, R.E. Gray and M.I. Grace. "A High-Power Solid-State C-Band Transmitter for MIS Applications." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 325-327.*

A solid-state C-band transmitter was developed for the Microwave Landing System. The key component of the transmitter is a solid-state power amplifier using GaAs Read-profile IMPATT diodes to obtain operating output levels approaching 20 Watts. The transmitter also contains a phase-locked oscillator, a phase modulator integrated into the power amplifier, and a pulse shaping network to achieve minimum spectrum spreading. The entire transmitter, including power supplies, logic circuits and heat sinks, is contained in a 12" x 12" x 6-1/2" package.

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