

Abstracts

A Microprocessor Controlled Phase Measurement System for 2856 MHz Pulses

J.D. Fox and H. Schwarz. "A Microprocessor Controlled Phase Measurement System for 2856 MHz Pulses." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 334-336.

A computer controlled phase detection system used to measure and stabilize the phase of high power RF pulses in the two mile Stanford Linear Accelerator has been developed. This system measures the phase of a 1 μ sec 2856 MHz 50 MW RF pulse with respect to a CW reference signal at the same frequency at a 180 Hz rate with $<0.2^\circ$ resolution.

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