Abstracts

The Accurate Measurement of Range by the Use of Microwave Delay Line Techniques (Short Papers)

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A scheme is presented for accurately measuring range to a radar target by the use of microwave delay line tech miques and the use of solid-state subnanosecond digitaf threshold circuitry. The scheme obviates the need for expensive high-speed counters or analog thresholding and is cost effective to implement. A breadboard design of the technique was constructed and schematic diagrams are presented in this short paper. The results of the breadboard tests indicate that the range to a target can be measured and indicated up to 250 ft in 2-ft increments at a cost below $100.00.

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