

Abstracts

Compact Sounding System Using Microwaves and Ultrasound

M. Daas and R. Knochel. "Compact Sounding System Using Microwaves and Ultrasound." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. 1 [MWSYM]): 257-260.

A compact sounding system is described that uses the radar return from a transmitted pulse of ultrasound (22 kHz) for temperature determination and for range measurement of targets. The targets may be nonreflective for ultrasound or microwaves or may show reflections, which can not be used in conventional radars. Technical details are given and experimental results are described for temperature profiling and range determination.

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