

Abstracts

Ultrawideband Radar

J.D. Taylor. "Ultrawideband Radar." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 367-370.

Ultrawideband radars use signal bandwidths greater than 25 percent of center frequency. Conventional radio and radar signal bandwidths are generally less than 1 percent of center frequency. Using ultrawideband signals gives a range resolution smaller than most military targets. Ultrawideband impulse signals can provide a capability for target imaging and identification through resonance characteristics. The added capabilities gained through ultrawideband signals are balanced by needs for complex receivers and signal processing. This paper discusses ultrawideband radar and makes qualitative comparisons with narrowband systems.

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