

# Abstracts

## Range measurement using modulated retro-reflectors in FM radar system

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*J. Thornton and D.J. Edwards. "Range measurement using modulated retro-reflectors in FM radar system." 2000 Microwave and Guided Wave Letters 10.9 (Sep. 2000 [MGWL]): 380-382.*

In a variant of the FM radar technique, an essentially clutter-free range measurement may be made to a cooperative target. To enhance the link budget in such a measurement system, modulated retro-reflectors are demonstrated as passive transponders which maintain a high radar cross section over a wide range of RF incidence angles. Range measurement accuracies the order of 1 cm are demonstrated in a high-clutter indoor environment.

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