

Abstracts

UWB RADAR for Ground Vehicle Self Protect

J.W. Toevs, D.R. Smith, D.P. Byrne and G.F. Ross. "UWB RADAR for Ground Vehicle Self Protect." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1491-1494.

This paper describes a concept to use an impulse radar system to detect, acquire, identify, and track incoming armor piercing rounds which threaten a ground vehicle containing active armor. Data illustrating the ability of a prototype impulse radar to discriminate between different target shapes are presented. The sensitivity of the CFAR receiver used with the system appears to be adequate, but ground clutter poses a serious problem. Techniques for discriminating against ground clutter are being explored.

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