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Calibration Tests for Blast Impulse Loads of Anti-Tank Mines

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Abstract

The impulse load of a detonating 5 kg heavy hemispherical pasty PETN composition charge was measured, lying on a sand ground and initiated by a detonator in the charge center. The momentum gauges had a vertical distance of 500 mm above the ground. The achieved momenta are stronger decreasing than expected by the increasing horizontal distance. This can be explained by a focussing effect of a cavity built in the sand ground.