

THE INTERACTION OF A REFLECTED SHOCK WITH A FIREBALL AS DEDUCED FROM PROBE RESULTS AND HYDROCODE SIMULATIONS

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A long metal probe containing transducers was erected directly beneath an HE charge in order to measure blast parameters within the fireball. However, such a probe will perturb the flow and could affect the very measurements it is intended to make. A hydrocode study was carried out in order to assess the severity of this perturbation and to check the main conclusions drawn from the transducer measurements. It is concluded that the probe provides at least a qualitative understanding of the progress of a reflected shock passing through the fireball, and that this can be quite different to what may be deduced from surface observations.