

AIR BLAST ENHANCEMENT FROM MULTIPLE DETONATIONS

KEEFER,J.H.

The damaging parameters from single explosions have been studied and discussed in many reports. Far less attention has been given to the detonation of multiple charges. This paper will review the work that has been done to better understand the enhancement of damage that can result from multiple detonations. This paper will review multiple detonations from two to twentieth-four charges and for both simultaneous and non-simultaneous detonations.

Analytically prediction techniques will be compared with the actual Measurements. In the multiple charge case, the overpressure is enhanced at the expense of the dynamic pressure thus resulting in damage at greater distance than if the total explosive weight had been detonated as a single charge.