

## **A STUDY ON COMPLEX BLAST WAVE BEHAVIOR IN LARGE, VENTED ENCLOSURES**

DRAKE, J.L.; HEYMAN, R.J.; GUICE, R.L.

Complex airblast environments will result from the firing of recoilless rifles in a protective enclosure or the detonation of cased or uncased explosives, either internally or externally to the enclosure. Depending upon the size and shape of the enclosure, the location of personnel, and the strength of the initial blast wave, the blast environment can reach damaging and injurious levels. This paper describes the analytical formulation and computer model development of a model to predict the interior shock wave and its interaction with personnel within a rectangular firing enclosure, and validation of the model with data from recent tests.