

BLAST INTERACTION WITH MULTIPLE OBSTACLES

ABSIL,L.H.J.;VANDENBERG,A.C.;WEERHEIJM,J.

This paper presents an experimental and numerical study of blast propagation and interaction with multiple structures. The main objective of this investigation is to provide detailed information on blast propagation through urban and industrial areas. The experimental Study is conducted on scale models placed in a shock tube. The flow field is visualized with a shearing interferometer. The BLAST-code is used W numerically Hill the flow. Because the study has not been completed yet, the emphasis in the present paper will be on the experimental techniques used and on the numerical code. A preliminary study on the shielding effect of two buildings showed that the load on the front of the second building was considerably reduced, but that the rear face of the first building was loaded additionally by reflections from the second building Good agreement between calculated and observed shock wave phenomena was found.