



Fuel Pipe Line Structural Failure Due to Explosion

Objective

- SAFETY implications of the expansion and destruction of a segment of METAL PIPE subjected to an Explosive loading

Methodology

- This research is concerned with examining the expansion and destruction of a copper pipe subjected to a high power explosion by high explosive for safety reasons.
- Both numerical and experimental methods are used.
- Coarse and fine numerical modelling techniques are used to investigate the phenomena.

Outcome

- Good agreement between experimental and numerical results for expansion history and crack generation of the pipes.

