

**PROBLEMS ASSOCIATED WITH PRODUCTION OF WALL JETS IN SHOCK TUBES**

GANONG,G.P.;STOCKHAM,L.W.

Kuhl (1985) described a technique to produce wall jets in shock tubes by covering the floor with thin layer of ,low density gas. Fry and Book (1985) numerically showed that this technique should work quite well. Gallaway (1987) discussed practical methods to create wall jets. However when experiments are well instrumented, many problems can be identified. In particular, the results are often not repeatable. The jets are non-symmetrical and have many non-uniformities. The low density gas is contained in a membrane. The thickness, height and length of the membrane strongly influence the properties of the wall jet. The density of the gas also has a significant effect on the duration and the velocity of the wall jet. Special attention must be given to techniques to produce symmetric wall jets of long duration.