



# Shock Tubes

**W. A. Martin, General Dynamics  
Corporation. Convair Division**



## Shock Tubes:

*Shock Tubes* John Keith Wright, 1961      **Shock Tubes** Irving Israel Glass, 1970-12-15 This volume contains the proceedings of a symposium held at the University of Toronto in June 1969 The symposium consisted of six sessions each containing an invited paper followed by six contributed papers reporting on recent relevant research and development The topics are a review of research problems in basic shock tube flows and the possibilities for the shock tube in the future driving techniques explosive drivers theoretical and experimental research in electromagnetic shock tubes chemical kinetics and spectroscopy and a review of shock tube diagnostics instrumentation and fundamental data as well as the measurement of physical quantities      *Shock Tubes and Waves* Charles E. Treanor, J. Gordon Hall, 1982-06-30 Sponsored by the U S Air Force Office of Scientific Research this conference was held in Niagara Falls on July 6 9 1981 This book includes material on the following topics instrumentation and diagnostics shock tube facilities and techniques gas dynamic experiments heat transfer and real gas effects boundary layers shock structure shock propagation laser and spectral optical studies chem and kinetics relaxation and excitation ionization dusty gases two phase flow and condensation shock waves in the environment and energy and energy related processes The book contains a total of 98 papers by well known specialists      **Shock Tubes** I. I. Glass, 1970      **Springer Handbook of Experimental Fluid Mechanics** Cameron Tropea, Alexander L. Yarin, John F. Foss, 2007-10-09 Accompanying DVD ROM contains all chapters of the Springer Handbook Page 3 of cover      *The Shock Tube in High-temperature Chemical Physics* Alfred Gordon Gaydon, I. R. Hurle, 1963      **A Review of Shock Tubes and Shock Tunnels** W. A. Martin, General Dynamics Corporation. Convair Division, 1958      **Scientific and Technical Aerospace Reports**, 1968      **Effects of Boundary Layer Buildup in Shock Tubes Upon Chemical Rate Measurements** Marvin Warshay, United States. National Aeronautics and Space Administration, 1968      **ASTIA Subject Headings** Defense Documentation Center (U.S.), 1959      **Shock Tubes and Waves** Hans Grönig, 1988      **Bibliography on Shock Waves, Shock Tubes and Allied Topics** K. Dolder, R. Hide, 1957      *BRL Dual Shock Tube Facility* Brian P. Bertrand, 1969 The Dual Shock Tube Facility was constructed for use in evaluating the performance of large engine generator sets operating in a shock wave environment such as would occur during a nuclear attack The design and operation of the facility are described and results of shock tube operation are presented Author      [Appraisal of UTIAS Implosion-driven Hypervelocity Launchers and Shock Tubes](#) I. I. Glass, University of Toronto. Institute for Aerospace Studies, 1970 A critical appraisal is made of the design research development and operation of the novel UTIAS implosion driven hypervelocity launchers and shock tubes Explosively driven PbN6 lead azide PETN pentaerythritetranitrate implosions in detonating stoichiometric hydrogen oxygen mixtures have been successfully developed as drivers for hypervelocity launchers and shock tubes in a safe and reusable facility Intense loadings at very high calculated pressures almost megabar range densities g cc and temperatures thousands deg K at the implosion centre cause severe problems with

projectile integrity Misalignment of the focal point can occur and add to the difficulty in using small calibre 6 to 8 mm dia projectiles In addition the extreme driving conditions cause barrel expansion erosion and possible gas leakage from the base to the head of the projectile which cut the predicted muzzle velocities to half or a third of the lossless calculated values However in the case of a shock tube operation these difficulties are minimized or eliminated and the possibilities of approaching Jovian reentry velocities are encouraging In a recent run using about 100g of explosive PETN and 400 psi 2H<sub>2</sub>O<sub>2</sub> a shock Mach number approx 60 was obtained in air at an initial pressure of 1 torr in 1.0 in dia shock tube channel In addition the use of focused explosive driven implosion waves may have many other physical and technological applications

Author The Conduction of Electric Current to Cold Electrodes in Shock Tubes Thomas R. Brogan,1956 U.S. Government Research Reports ,1963 **Modern Developments in Shock Tube Research** Goro Kamimoto,1975 **The use of the shock tube as a spectroscopic source with an application to the measurement of gf-values for lines of neutral and singly ionized chromium** T. Wilkerson,1961 Technical Abstract Bulletin Defense Documentation Center (U.S.),1964 **Contact-surface Tailoring in Real Shock Tubes** Theodore A. Brabbs, Frank E. Belles,1965

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