

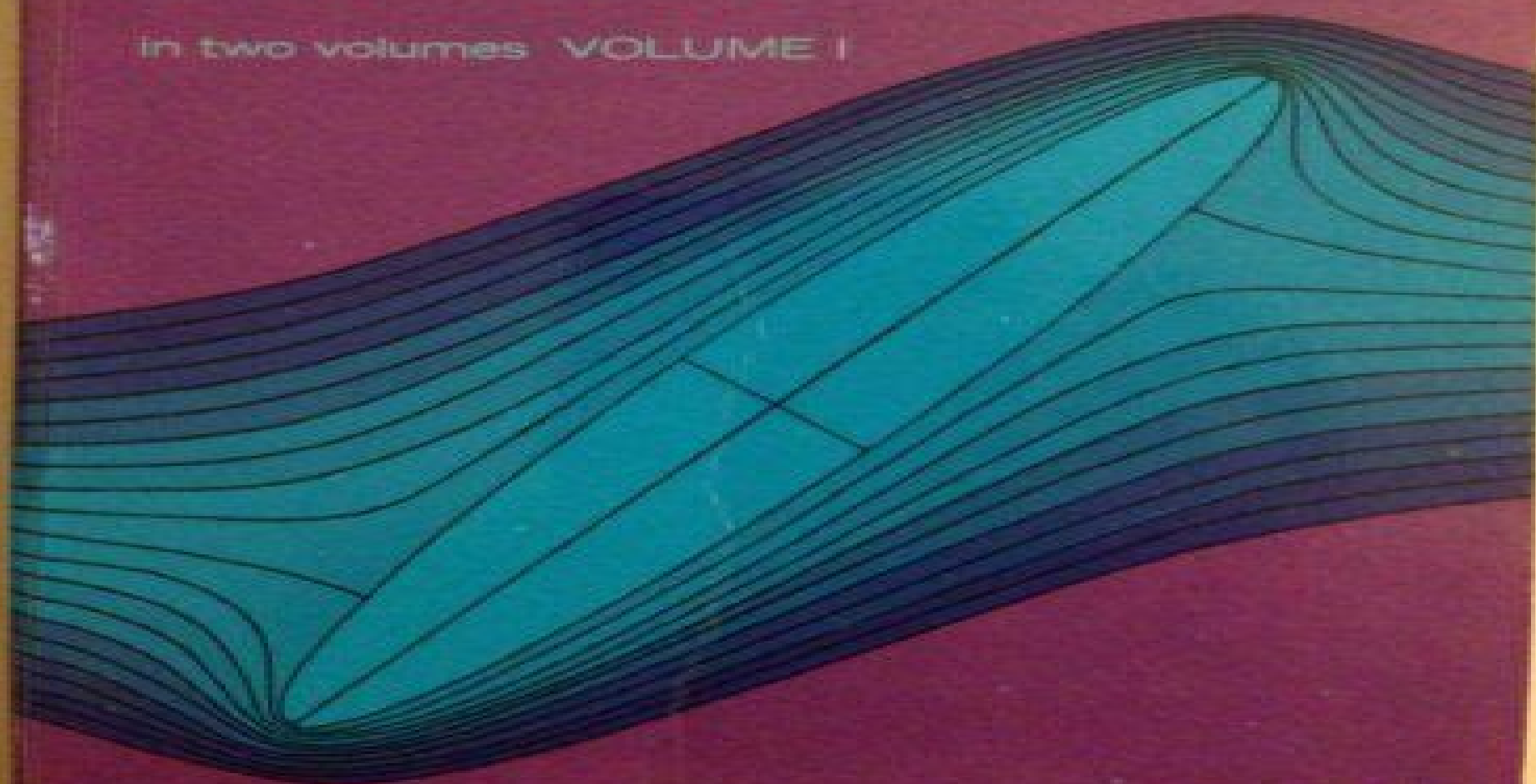
Modern Developments in Fluid Dynamics

An Account of Theory and Experiment
Relating to Boundary Layers, Turbulent Motion
and Wakes

Composed by the Fluid Motion Panel of the
Aeronautical Research Committee and Others
edited by S. Goldstein

in two volumes VOLUME I

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Modern Developments In Fluid Dyn 2vol Hi

Louis S. Stivers



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Technical Note - National Advisory Committee for Aeronautics United States. National Advisory Committee for Aeronautics,1949 **Developments In High-Speed Vehicle Propulsion Systems** S. N. B. Murthy,E. T. Curran,1996

Annotation There have been impressive achievements in the last few years in the technologies associated with turboramjets and other combined cycle engines These technologies including their thermal management and integration with the vehicle are the principal concerns of this volume Drawing on the expertise of international engineers and researchers in the field of high speed vehicle propulsion systems these articles written by experts from the United States Russia Germany Japan Belgium and Israel highlight developments in the industry The Method of Characteristics for Three-dimensional Real-gas Flows Charles R. Strom,1967 The method of characteristics is formulated for the computation of the supersonic flow of an inviscid reacting gas over a smooth three dimensional body Various methods of constructing networks of bicharacteristic lines are examined from the point of view of numerical stability and accuracy A new method of forming the network which consists of projecting forward along streamlines from data points on specified data planes is found to be most easily adopted to the particular requirements of nonequilibrium chemistry The general method was coded for the IBM 7090 computer and the program demonstrated for the case of an ideal gas Calculations were made for the case of an ideal gas Calculations were made for the flow about a spherical tip 15 degree half angle cone at 10 degree angle of attack and a generalized elliptical body at zero incidence Since the program yields the pressure distribution along specified streamlines it is straightforward in principle to link it to a finite rate chemistry stream tube program to treat three dimensional nonequilibrium flows Author

Thermophysical Aspects of Re-entry Flows James N. Moss,Carl D. Scott,1986 **Effects of Subsonic Mach Number on the Forces and Pressure Distributions on Four NACA 64A-series Airfoil Sections at Angles of Attack as High as 28 Degrees** Louis S. Stivers,1954 A region of slight compression heretofore undescribed was established within the local supersonic region on each of the airfoil sections near the leading edge in place of an expected expansion This leading edge compression region was formed just downstream of the abrupt **Heat Transfer on a Flat Plate in Continuum to Rarefied Hypersonic Flows at Mach Numbers of 19.2 and 25.4** Henry T. Nagamatsu,W. T. Pettit,R. E. Sheer,1970

Instruments & Control Systems ,1966 *Modern developments in fluid dynamics: high speed flow, vol II.* Leslie Howarth,1953 *NASA Contractor Report* ,1970 **Wartime Report** United States. National Advisory Committee for Aeronautics,

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