



Viscous Hypersonic Flow

H. F. Waldron



Viscous Hypersonic Flow:

Viscous Hypersonic Flow William H. Dorrance, 2017-05-22 Designed for advanced undergraduate and graduate courses in modern boundary layer theory this frequently cited work offers a self contained treatment of theories for treating laminar and turbulent boundary layers of reacting gas mixtures 1962 edition **Viscous Hypersonic Flow Past a Slender Cone** V. S. Nikolaev, 1967 Viscous Hypersonic Flow Past a Slender Cone K. Stewartson, 1963 Numerical Study of Unsteady Viscous Hypersonic Blunt Body Flows with an Impinging Shock Goetz H. Klopfer, 1988 **Viscous Hypersonic Flow Past Slender Cone [with List of References]**, 1967 *Viscous, Hypersonic Flow Around a Blunt Body* John Edward Kaiser, Stanford University. Division of Engineering Mechanics, 1968 A simplified form of the Navier Stokes equations was used to describe the flow in the shock layer of a blunt body The equations are solved near the axis of the body by using the method of series truncation The main method of solution is a finite difference method which in principle allows one to handle axisymmetric bodies of arbitrary shape The body shape is assumed to be given and the bow shock shape is determined step by step Author Two-dimensional Viscous Hypersonic Flow Over Simple Blunt Bodies Including Second-order Effects Torstein Kjell Fannelöp, STANFORD UNIV CALIF DIV OF ENGINEERING MECHANICS., 1964 Contents First and second order boundary layer theory fundamental equations and parameters Finite difference methods Solutions to the first and second order equations near a plane stagnation point Some first order finite difference solutions Complete first and second order boundary layer solutions for simple blunt bodies in hypersonic flow **Viscous Hypersonic Flow Over Pointed Cones at Low Reynolds Numbers** H. F. Waldron, 1966 Viscous Hypersonic Flow Physics Predictions Using Unstructured Cartesian Grid Techniques Susheel Kumar Sekhar, 2012 Aerothermodynamics is an integral component in the design and implementation of hypersonic transport systems Accurate estimates of the aerodynamic forces and heat transfer rates are critical in trajectory analysis and for payload weight considerations The present work seeks to investigate the ability of an unstructured Cartesian grid framework in modeling hypersonic viscous flows The effectiveness of modeling viscous phenomena in hypersonic flows using the immersed boundary ghost cell methodology of this solver is analyzed The capacity of this framework to predict the surface physics in a hypersonic non reacting environment is investigated High velocity argon gas flows past a 2 D cylinder are simulated for a set of freestream conditions Reynolds numbers and impact of the grid cell sizes on the quality of the solution is evaluated Additionally the formulation is verified over a series of hypersonic Mach numbers for the flow past a hemisphere and compared to experimental results and empirical estimates Next a test case that involves flow separation and the interaction between a hypersonic shock wave and a boundary layer and a separation bubble is investigated using various adaptive mesh refinement strategies The immersed boundary ghost cell approach is tested with two temperature clipping strategies and their impact on the overall solution accuracy and smoothness of the surface property predictions are compared Finally species diffusion terms in the conservation equations

and collision cross section based transport coefficients are installed and hypersonic flows in thermochemical nonequilibrium environments are studied and comparisons of the off surface flow properties and the surface physics predictions are evaluated First a 2 D cylinder in a hypersonic reacting air flow is tested with an adiabatic wall boundary condition Next the same geometry is tested to evaluate the viscous chemistry prediction capability of the solver with an isothermal wall boundary condition and to identify the strengths and weaknesses of the immersed boundary ghost cell methodology in computing convective heating rates in such an environment

Viscous Hypersonic Flow Past a Slender Cone at Incidence Roberto Vaglio-Laurin, Martin I. Hoffert, American Institute of Aeronautics and Astronautics, 1968

Study of Viscous, Hypersonic Flow of Carbon Dioxide Gas Around a Sphere N. E. Afonina, V. G. Gromov, 1973

Viscous Hypersonic Flow Over a Flat Plate at Angle of Attack with Leaside Boundary Layer Separation Gregory D. Hulcher, 1972

Viscous Hypersonic Flows Over Pointed Cones at Low Reynolds Numbers H. F. Waldron, 1966

An experimental and analytical study of viscous hypersonic flow over pointed cones with particular emphasis on the viscous layer regime is presented Shock tunnel measurements of heat transfer to 5 10 and 20 degree half angle cones and of pressure on the 20 degree cone are compared with the predictions of a viscous inviscid interaction analysis Probst and Elliot including transverse curvature of a viscous layer nonslender cone analysis Cheng and of an extension of the nonslender cone analysis incorporating effects of slenderness The large rise in heat transfer predicted by the transverse curvature theory is not observed and close agreement is obtained with the nonslender cone viscous layer predictions An extension of the nonslender cone analysis is presented where the effects of cone slenderness are included by a perturbation analysis The solution of the resulting equations reveals that the net effect of transverse curvature and of other effects associated with cone slenderness is small in the viscous layer regime for not too slender cones Good agreement of the 10 and the 20 degree cone experimental data is obtained with this extension of the nonslender solution Author

Similar Solutions for Viscous Hypersonic Flow Over a Slender Three-fourths-power Body of Revolution, 1987

Hypersonic Viscous Flow, 1990

Research and documented works on Viscous hypersonic flow theory are summarized and reported Topic areas where the research has been focused are 1 a fully viscous version of the shock layer VSL and its extension beyond the Navier Stokes NS level based on Grad's thirteen moment equations 2 INVISCID VISCOUS iteration in hypersonic flows The development in area 1 has led to a principle which allows correlation of shock layer flow far from translational equilibrium with a corresponding flow based on the NS equations as substantiated by extensive comparison of direct simulation Monte Carlo and NS based calculations The development in area 2 resulted in a triple deck theory of hypersonic boundary layer under strong wall cooling which exhibits drastically different structure and properties of the triple deck edc

Numerical Analysis of Viscous Hypersonic Flow of Carbon Dioxide Past Bodies N. E. Afonina, 1979

Viscous Hypersonic Flows Over Pointed Cones at Low Reynolds Numbers H. F. Waldron, Aerospace Research Laboratories (U.S.), CORNELL AERONAUTICAL LAB INC BUFFALO N Y., 1966

An experimental

and analytical study of viscous hypersonic flow over pointed cones with particular emphasis on the viscous layer regime is presented Shock tunnel measurements of heat transfer to 5 10 and 20 degree half angle cones and of pressure on the 20 degree cone are compared with the predictions of a viscous inviscid interaction analysis Probst and Elliot including transverse curvature of a viscous layer nonslender cone analysis Cheng and of an extension of the nonslender cone analysis incorporating effects of slenderness The large rise in heat transfer predicted by the transverse curvature theory is not observed and close agreement is obtained with the nonslender cone viscous layer predictions An extension of the nonslender cone analysis is presented where the effects of cone slenderness are included by a perturbation analysis The solution of the resulting equations reveals that the net effect of transverse curvature and of other effects associated with cone slenderness is small in the viscous layer regime for not too slender cones Good agreement of the 10 and the 20 degree cone experimental data is obtained with this extension of the nonslender solution Author *Viscous Hypersonic Flow in Divergent, Slender, Axisymmetric Nozzles* Kenneth Henry Token,1970 *Heat Transfer and Pressure on a Slender Cylinder in Viscous Hypersonic Flow* Robert L. Varwig,AEROSPACE CORP EL SEGUNDO CALIF LAB OPERATIONS.,1969 Wall heat transfer and pressure were measured on a long slender cone cylinder at positions far enough aft that transverse curvature effects were large The tests were performed in the shock tunnel at M 20 at Reynolds numbers of 0.8 to 4.0×10^6 to the 5th power based on free stream conditions and distance from the nose The measurements were compared with hypersonic viscous interaction predictions The resulting correlations showed that the strong interaction solution of the viscous interaction theory appeared to give accurate estimates of the heat transfer for large transverse curvature regardless of shock strength However the pressures measured on the body were quite low indicating a weak shock on the body Hence the present theory does not apply Future pressure predictions will require consideration of finite shock strengths Author Spiked Blunt Bodies in Viscous Hypersonic Flow Bhimsen K. Shivamoggi,1973

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