Nonlinear conical flow

Bulakh, B. M

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John W. Brook

Nonlinear Conical Flow:

Nonlinear Conical Flow Boris Mikhaĭlovich Bulakh,1985 Calculation of Nonlinear Conical Flows by the Method of Lines E. B. Klunker,Jerry Curtis South,Ruby M. Davis,United States. National Aeronautics and Space Administration,1971 A computational technique called the method of lines is developed for computing the flow field about conical configurations at incidence in a supersonic flow The method which makes use of the self similarity property is developed for the nonlinear flow equations The method has proved to be an efficient and versatile procedure for constructing the numerical solutions to conical flow problems It has been successful in computing the flow about circular and elliptic cones at conditions where small regions of supersonic cross flow develop and for the conical delta wings where the region of supersonic cross flow is extensive The calculations made for circular and elliptic cones as well as for the compression side of various conical delta wings are in good agreement with experiment except in regions where viscous effects become important The Calculation of Nonlinear Supersonic Conical Flows by the Method of Integral Relations John W. Brook,1964 The supersonic flow over cones of arbitrary shape was investigated by using the method of integral relations The equations are derived for one strip using a body oriented coordinate system Various choices for basic equations are discussed The solution of the boundary value problem for a number of fundamentally different cases is discussed in detail and various suggestions concerning improvements of the method and other related methods are made Due to severe computational difficulties however no numerical results are presented *Bifurcations in Flow Patterns* P.G. Bakker,2012-12-06 The main idea of the present study is to demonstrate that the qualitative theory of diffe rential equations when applied to problems in fluid and gasdynamics will contribute to the understanding of qualitative aspects of fluid flows in particular those concerned with geometrical properties of flow fields such as shape and stability of its streamline patterns It is obvious that insight into the qualitative structure of flow fields is of great importance and appears as an ultimate aim of flow research Qualitative insight fashions our know ledge and serves as a good guide for further quantitative investigations Moreover quali tative information can become very useful especially when it is applied in close corres pondence with numerical methods in order to interpret and value numerical results A qualitative analysis may be crucial for the investigation of the flow in the neighbourhood of singularities where a numerical method is not reliable anymore due to discretisation er rors being unacceptable Up till now familiar research methods frequently based on rigorous analyses careful nu merical procedures and sophisticated experimental techniques have increased considera bly our qualitative knowledge of flows albeit that the information is often obtained indirectly by a process of a careful but cumbersome examination of quantitative data In the past decade new methods are under development that yield the qualitative infor mation more directly These methods make use of the knowledge available in the qualitative theory of differen tial equations and in the theory of bifurcations NASA Technical Report ,1971

Difference Methods for Initial-Boundary-Value Problems and Flow Around Bodies You-lan Zhu,Xi-chang

Zhong,Bing-mu Chen,Zuo-min Zhang,2013-06-29 Since the appearance of computers numerical methods for discontinuous solutions of quasi linear hyperbolic systems of partial differential equations have been among the most important research subjects in numerical analysis The authors have developed a new difference method named the singularity separating method for quasi linear hyperbolic systems of partial differential equations Its most important feature is that it possesses a high accuracy even for problems with singularities such as schocks contact discontinuities rarefaction waves and detonations Besides the thorough description of the method itself its mathematical foundation stability convergence theory of difference schemes for initial boundary value hyperbolic problems and its application to supersonic flow around bodies are discussed Further the method of lines and its application to blunt body problems and conical flow problems are described in detail This book should soon be an important working basis for both graduate students and researchers in the field of partial differential equations as well as in mathematical physics **Finite Area Method for Nonlinear Supersonic Conical Flows** Institute for Computer Applications in Science and Engineering,S. S. Sritharan,1983 **Soviet Aeronautics and Astronautics** ,1985 Theoretical Prediction of Pressures in Hypersonic Flow with Special Reference to Configurations Having Attached Leading-edge Shock Richard A. Scheuing,Harold R. Mead,John W. Brook,Robert E. Melnik,1962 The Calculation of Nonlinear Supersonic Conical Flows by the Method of Integral Relations ,1964 The supersonic flow over cones of arbitrary shape was investigated by using the method of integral relations The equations are derived for one strip using a body oriented coordinate system Various choices for basic equations are discussed The solution of the boundary value problem for a number of fundamentally different cases is discussed in detail and various suggestions concerning improvements of the method and other related methods are made Due to severe computational difficulties however no numerical results are presented Author **Calculation of Nonlinear Conical Flows by the Method of Lines** E. B. Klunker,1971 **Supersonic, Nonlinear, Attached-flow Wing Design for High Lift with Experimental Validation** ,1984 Calculation of Nonlinear Conical Flows by Method of Lines [with List of References] ,1971 Hypersonic Flow Theories for Predicting Pressures on Blunt Two-dimensional and on Conical Shapes Richard A. Scheuing,1964 An investigation has been undertaken to develop theories for predicting pressures in hypersonic flows with special reference to low aspect ratio delta winged configurations This report is the fourth of four covering our work to date This work is concerned primarily with 1 A relatively simple numerical procedure for determining the pressure distribution on two dimensional wings with blunt leading edges 2 Further development of the thin shock layer theory for conical flows with emphasis on uniformly valid zeroth order solutions in the vicinity of entropy layer singularities 3 Initial theoretical results extending Dorodnitsyn s method of integral relations to conical flows including expression of the gas dynamic equations in divergence form for a variety of coordinate systems *NASA SP.* ,1986 **Tactical Missile Aerodynamics: General topics** M. R. Mendenhall,1992 Nonlinear Potential Analysis Techniques for Supersonic-hypersonic Configuration Design ,1983 **International**

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