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Turbulent Shear-Layer/ Shock-Wave Interactions

Editor
J. Détery



Springer-Verlag

Turbulent Shear Layer Shock Wave Interactions

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Turbulent Shear Layer Shock Wave Interactions:

Turbulent Shear-Layer/Shock-Wave Interactions J. Delery, 2013-03-08 It was on a proposal of the late Professor Maurice Roy member of the French Academy of Sciences that in 1982 the General Assembly of the International Union of Theoretical and Applied Mechanics decided to sponsor a symposium on Turbulent Shear Layer Shock Wave Interactions This symposium might be arranged in Paris or in its immediate vicinity during the year 1985 Upon request of Professor Robert Legendre member of the French Academy of Sciences the organization of the symposium might be provided by the Office National d'Etudes et de Recherches Aérospatiales ONERA The request was very favorably received by Monsieur l'Ingénieur General Andre Auriol then General Director of ONERA The subject of interactions between shock waves and turbulent dissipative layers is of considerable importance for many practical devices and has a wide range of engineering applications Such phenomena occur almost inevitably in any transonic or supersonic flow and the subject has given rise to an important research effort since the advent of high speed fluid mechanics more than forty years ago However with the coming of age of modern computers and the development of new sophisticated measurement techniques considerable progress has been made in the field over the past fifteen years The aim of the symposium was to provide an updated status of the research effort devoted to shear layer shock wave interactions and to present the most significant results obtained recently Turbulent Shear-layer/shock-wave Interactions Jean Déleroy, 1986 **Turbulent Shear-layer/shock-wave Interactions**, 1986

Turbulent Shear-Layer/Shock-Wave Interactions J Delery, 1986-08-01 *Turbulent Shear-Layer/Shock-Wave Interaction* Eugene F. Brown, OFFICE OF NAVAL RESEARCH LONDON (England), 1986 This report reviews presentations given at the September 1985 symposium of the International Union of Theoretical and Applied Mechanics and concludes that calculation of two dimensional shock wave boundary layer interaction problems is advancing well For three dimensional flows accurate numerical calculation needs more experimental data to clarify the mechanisms and flow structures involved Of greatest priority in this area is obtaining accurate unsteady measurements so that the mechanisms of shock oscillation and its results on the flow field can be better understood Keywords Boundary layer Fluid mechanics Fluid dynamic properties and Boundary value problems **Turbulent shear-layer/shock-wave interactions** International Union of Theoretical and Applied Mechanics, 1986 Symposium Transsonicum III Jürgen Zierep, H. Oertel, 2012-12-06 Continuing the tradition of the IUTAM Symposia TRANSSONICA this review of the numerical simulation and physical modelling of transonic flows presents new developments in the fields of computational and experimental aerodynamics A major topic of the symposium proceedings is the evaluation of present numerical analysis techniques with respect to transonic aerodynamics In the field of experimental aerodynamics the high Reynolds number effect and the interference free testing in transonic wind tunnels are of special interest **Compressibility, Turbulence and High Speed Flow** Thomas B. Gatski, Jean-Paul Bonnet, 2013-03-05 **Compressibility Turbulence and High Speed Flow** introduces the reader to the field of compressible turbulence and

compressible turbulent flows across a broad speed range through a unique complimentary treatment of both the theoretical foundations and the measurement and analysis tools currently used The book provides the reader with the necessary background and current trends in the theoretical and experimental aspects of compressible turbulent flows and compressible turbulence Detailed derivations of the pertinent equations describing the motion of such turbulent flows is provided and an extensive discussion of the various approaches used in predicting both free shear and wall bounded flows is presented Experimental measurement techniques common to the compressible flow regime are introduced with particular emphasis on the unique challenges presented by high speed flows Both experimental and numerical simulation work is supplied throughout to provide the reader with an overall perspective of current trends An introduction to current techniques in compressible turbulent flow analysis An approach that enables engineers to identify and solve complex compressible flow challenges Prediction methodologies including the Reynolds averaged Navier Stokes RANS method scale filtered methods and direct numerical simulation DNS Current strategies focusing on compressible flow control

Studies of Shock Wave Interactions with Homogeneous and Isotropic Turbulence G. Briassulis,1998 *The Structure of Turbulent Boundary Layers and Shock Wave Boundary Layer Interactions* ,1993 This report is the Final Technical Report for AFOSR Grant 89 0420 monitored by Dr James McMichael for the period June 15 1989 to October 14 1992 Under this program research was performed 1 to describe the structure of the large scale motions in supersonic turbulent boundary layers 2 to study the interaction of that turbulence with shock waves and strategies for controlling the interaction 3 to differentiate between Mach and Reynolds number effects on turbulence structure in wall bounded flows and 4 to develop and implement new non intrusive diagnostic techniques The research is aimed at providing physical insight and scaling information for the development of turbulence models appropriate for supersonic shear layers The primary experimental means used in these investigations were the Rayleigh scattering technique to study the instantaneous density field the RELIEF line tagging method to study the instantaneous velocity field and a dual hot wire technique to obtain simultaneous velocity and density signals Boundary layers Turbulence Shock wave boundary layer interaction

AIAA 20th Fluid Dynamics, Plasma Dynamics and Lasers Conference ,1989 Scientific and Technical Aerospace Reports ,1986 **AIAA 22nd Fluid Dynamics, Plasma Dynamics & Lasers Conference: 91-1752 - 91-1779** ,1991 28th AIAA Fluid Dynamics Conference, 4th AIAA Shear Flow Control Conference ,1997 International Aerospace Abstracts ,1997 NASA SP. ,1991 Interaction of Isotropic Turbulence Stanford University. Thermosciences Division. Thermosciences Division,1992

Turbulent Shear Layers in Supersonic Flow Alexander J. Smits,Jean-Paul Dussauge,2006-05-11 A good understanding of turbulent compressible flows is essential to the design and operation of high speed vehicles Such flows occur for example in the external flow over the surfaces of supersonic aircraft and in the internal flow through the engines Our ability to predict the aerodynamic lift drag propulsion and maneuverability of high speed vehicles is crucially dependent on our knowledge of

turbulent shear layers and our understanding of their behavior in the presence of shock waves and regions of changing pressure Turbulent Shear Layers in Supersonic Flow provides a comprehensive introduction to the field and helps provide a basis for future work in this area Wherever possible we use the available experimental work and the results from numerical simulations to illustrate and develop a physical understanding of turbulent compressible flows Proceedings of the ... ASME Joint U.S.-European Fluids Engineering Conference ,2002 *Fluids Engineering Conference* Asme Conference Proceedings,2002 Annotation This is the first of two volumes representing the proceedings of the July 2002 conference and it is itself in two volumes parts A fluid measurement instrumentation and machinery cavitation and multiphase flow advances in free surface and interface fluid dynamics CFD applications in large facilities and in automotive flows turbulent vehicular unsteady three dimensional and environmental flows supersonic flows in shock waves fluidics advances in fluids engineering education flow instabilities and control fundamentals and industrial applications and wavelet application in fluid mechanics There is no subject index Annotation c Book News Inc Portland OR booknews com

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