



Laser-Strophometry: High-Resolution Techniques for Velocity Gradient Measurements in Fluid Flows

Editors

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Laserstrophometry Highresolution Techniques For Velocity Gradient Measurements In Fluid Flow

Ronald J. Adrian



Laserstrophometry Highresolution Techniques For Velocity Gradient Measurements In Fluid Flow:

Laser-Strophometry Wilfried Staude, 2001-10-23 This book is the result of two decades of research work which started with an accidental observation One of my students Dipl phys Volkmar Lenz noticed that the speckle pattern of laser light scattered by a cuvette containing diluted milk performed a strange motion every time he came near the cuvette with his thumb After thinking about this effect we came to the conclusion that this motion can only be caused by scattering particles with different velocities as in the case of the diffraction pattern of an optical grating A linear motion of the grating does not change the pattern whereas a rotation of the grating does The observed speckle motion could then be explained qualitatively as produced by the inhomogeneous velocity of the convection within the cuvette which was produced by the heat of the thumb The theoretical treatment of this effect revealed that the velocity gradient of the light scattering medium is responsible for the speckle motion The idea to use this effect for developing measurement techniques for velocity gradients arose almost immediately For that purpose we had to develop not only experimental set ups to measure the pattern velocity but also the theory which describes the connection between this velocity and the velocity gradient The result of this work together with the description of a method developed by another group forms the contents of this book I am indebted to the students who worked in my laboratory and developed the measurement techniques These were in temporal order Dr Laser Velocimetry in Fluid Mechanics Alain Boutier, 2013-01-09 In fluid mechanics velocity measurement is fundamental in order to improve the behavior knowledge of the flow Velocity maps help us to understand the mean flow structure and its fluctuations in order to further validate codes Laser velocimetry is an optical technique for velocity measurements it is based on light scattering by tiny particles assumed to follow the flow which allows the local fluid flow velocity and its fluctuations to be determined It is a widely used non intrusive technique to measure velocities in fluid flows either locally or in a map This book presents the various techniques of laser velocimetry as well as their specific qualities local measurements or in plane maps mean or instantaneous values 3D measurements Flow seeding with particles is described with currently used products as well as the appropriate aerosol generators Post processing of data allows us to extract synthetic information from measurements and to perform comparisons with results issued from CFD codes The principles and characteristics of the different available techniques all based on the scattering of light by tiny particles embedded in the flow are described in detail showing how they deliver different information either locally or in a map mean values and turbulence characteristics **Dual Cylindrical Wave Laser-doppler Method for Measurement of Skin Friction in Fluid Flow** Amir Ahmad Naqwi, Stanford University. Thermosciences Division, William C. Reynolds, 1987 The objective of the present work is to overcome the inadequacies of conventional skin friction measuring methods in terms of temporal and spatial resolution An instrument has been developed for measurement of the instantaneous velocity gradient in a boundary layer at a solid surface from which the instantaneous wall shear stress can be deduced The principle of the device is akin to that of dual beam Laser Doppler Anemometer Instead

of crossing two laser beams to produce the measuring volume the present technique uses interference between two closely spaced cylindrical waves emanating from the solid surface The interference fringes which constitute the measuring volume appear to be radiating from a point on surface Keywords Skin friction Fluid flow Lasers Boundary layers Doppler method Wall shear stress Laser beams Cylindrical waves

Developments in Laser Techniques and Fluid Mechanics Ronald J. Adrian, 1997 This volume comprises a selection of the best papers presented at the Eighth International Symposium on Applications of Laser Techniques to Fluid Mechanics held in Lisbon in July 1996 The papers describe novel ideas for instrumentation instrumentation developments results of measurements of wall bounded flows free flows and flames and flow and combustion in engines The papers demonstrate the continuing interest in the development of an understanding of new methodologies and implementation in terms of new instrumentation

Laser Metrology in Fluid Mechanics Alain Boutier, 2013-02-20 In fluid mechanics non intrusive measurements are fundamental in order to improve knowledge of the behavior and main physical phenomena of flows in order to further validate codes The principles and characteristics of the different techniques available in laser metrology are described in detail in this book Velocity temperature and concentration measurements by spectroscopic techniques based on light scattered by molecules are achieved by different techniques laser induced fluorescence coherent anti Stokes Raman scattering using lasers and parametric sources and absorption spectroscopy by tunable laser diodes which are generally better suited for high velocity flows The size determination of particles by optical means a technique mainly applied in two phase flows is the subject of another chapter along with a description of the principles of light scattering For each technique the basic principles are given as well as optical devices and data processing A final chapter reminds the reader of the main safety precautions to be taken when using powerful lasers

Developments in Laser Techniques and Applications to Fluid Mechanics R.J. Adrian, D.F.G. Durao, Franz Durst, M.V. Heitor, M. Maeda, J. Whitelaw, 2012-12-06 This volume comprises a selection of the best papers presented at the Seventh International Symposium on Applications of Laser Techniques to Fluid Mechanics held at The Calouste Gulbenkian Foundation in Lisbon during the period of July 11 to 14 1994 The papers describe Applications to Fluid Mechanics Applications to Combustion Instrumentation for Velocity and Size Measurements and Instrumentation for Whole Field Velocity and demonstrate the continuing and healthy interest in the development of understanding of the methodology and implementation in terms of new instrumentation The prime objective of this Seventh Symposium was to provide a forum for the presentation of the most advanced research on laser techniques for flow measurements and communicate significant results to fluid mechanics The applications of laser techniques to scientific and engineering fluid flow research was emphasized but contributions to the theory and practice of laser methods were also considered where they facilitate new improved fluid mechanic research Attention was placed on laser Doppler anemometry particle sizing and other methods for the measurement of velocity and scalar such as particle image velocimetry and laser induced fluorescence We would like to

take this opportunity to thank those who participated The assistance provided by the Advisory Committee by assessing abstracts was highly appreciated

Particle Image Velocimetry Markus Raffel, Christian E. Willert, Steven Wereley, Jürgen Kompenhans, 2007-08-09 This immensely practical guide to PIV provides a condensed yet exhaustive guide to most of the information needed for experiments employing the technique This second edition has updated chapters on the principles and extra information on microscopic high speed and three component measurements as well as a description of advanced evaluation techniques What's more the huge increase in the range of possible applications has been taken into account as the chapter describing these applications of the PIV technique has been expanded

High-resolution OH LIF Velocity Measurement Technique for High-speed Reacting Flows K. G. Klavuhn, 1992

Laser Techniques Applied to Fluid Mechanics Ronald J. Adrian, 2000 In the tradition of its predecessors this volume comprises a selection of the best papers presented at the Ninth International Symposium on Applications of Laser Techniques to Fluid Mechanics held in Lisbon in July 2000 The papers reflect the state of the art in laser applications of laser techniques in fluid mechanics describing novel ideas for instrumentation instrumentation developments results of measurements of wall bounded flows free flows and flames and flow and combustion in engines The papers demonstrate the continuing interest in the development of an understanding of new methodologies and implementation in terms of new instrumentation

Laser Techniques for Fluid Mechanics R.J. Adrian, Diamantino Durao, M.V. Heitor, M. Maeda, Cameron Tropea, J.H. Whitelaw, 2014-03-12 This volume includes revised and extended versions of selected papers presented at the Tenth International Symposium on Applications of Laser Techniques to Fluid Mechanics held at the Calouste Gulbenkian Foundation in Lisbon during the period of July 10 to 13 2000 The papers describe instrumentation developments for Velocity Scalar and Multi Phase Flows and results of measurements of Turbulent Flows and Combustion and Engines The papers demonstrate the continuing and healthy interest in the development of understanding of new methodologies and implementation in terms of new instrumentation The prime objective of the Tenth Symposium was to provide a forum for the presentation of the most advanced research on laser techniques for flow measurements and communicate significant results to fluid mechanics The application of laser techniques to scientific and engineering fluid flow research was emphasized but contributions to the theory and practice of laser methods were also considered where they facilitate new improved fluid mechanic research Attention was placed on laser Doppler anemometry particle sizing and other methods for the measurement of velocity and scalars such as particle image velocimetry and laser induced fluorescence

Application of a Novel Laser-Doppler Velocimeter for Turbulence: Structural Measurements in Turbulent Boundary Layers, 2006 An advanced laser Doppler velocimeter LDV deemed the comprehensive LDV is designed to acquire fully resolved turbulence structural measurements in high Reynolds number two and three dimensional turbulent boundary layers The new instrument combines for the first time new techniques allowing for the direct measurement of particle acceleration and sub measurement volume scale position resolution so that second order 3D particle

trajectories may be measured at high repetitions Using these measurements several terms in the Reynolds stress transport equations may be directly estimated giving new data for modeling and understanding the processes leading to the transport of turbulence in boundary layer flows Measurements utilizing the CompLDV technologies are presented and include turbulence dissipation rate and fluctuating velocity pressure gradient correlations that have been measured in 2D and 3D turbulent boundary layers using the unique capabilities of the comprehensive LDV Many of these measurements are the first of their kind ever acquired in high Reynolds number turbulent flows The flat plate turbulent boundary layer is studied at several Reynolds numbers up to $Re_{\theta} = 7500$ to examine Reynolds numbers effects on terms such as the velocity pressure gradient correlation and the dissipation rate in the Reynolds transport equations Measurements are also presented in a pressure driven three dimensional turbulent boundary layer created upstream from a wing body junction The current results complement the extensive data from previous studies and provide even richer depth of knowledge on the most completely documented 3D boundary layer flow in existence Further measurements include the effects of high free stream turbulence on flat plate turbulent boundary layers and a wing body junction flow that is similar to a gas turbine flow

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