

N. A. Fomin

SPECKLE PHOTOGRAPHY FOR FLUID MECHANICS MEASUREMENTS



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Speckle Photography For Fluid Mechanics Measurements Experimental Fluid Mechanics

Arnold Frohn, Norbert Roth



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Speckle Photography for Fluid Mechanics Measurements Nikita A. Fomin, 2013-03-09 Speckle photography is an advanced experimental technique used for quantitative determination of density velocity and temperature fields in gas liquid and plasma flows This book presents the most important equations for the diffraction theory of speckle formation and the statistical properties of speckle fields It also describes experimental set ups and the equipment needed to implement these methods Speckle photography methods for automatic data acquisition and processing are considered and examples for their use are given

Fluid Mechanics Measurements R. Goldstein, 2017-11-13 This revised edition provides updated fluid mechanics measurement techniques as well as a comprehensive review of flow properties required for research development and application Fluid mechanics measurements in wind tunnel studies aeroacoustics and turbulent mixing layers the theory of fluid mechanics the application of the laws of fluid mechanics to measurement techniques techniques of thermal anemometry laser velocimetry volume flow measurement techniques and fluid mechanics measurement in non Newtonian fluids and various other techniques are discussed

New Results in Numerical and Experimental Fluid Mechanics VIII Andreas Dillmann, Gerd Heller, Hans-Peter Kreplin, Wolfgang Nitsche, Inken Peltzer, 2012-12-27 This volume contains the contributions to the 17th Symposium of STAB German Aerospace Aerodynamics Association STAB includes German scientists and engineers from universities research establishments and industry doing research and project work in numerical and experimental fluid mechanics and aerodynamics mainly for aerospace but also for other applications Many of the contributions collected in this book present results from national and European Community sponsored projects This volume gives a broad overview of the ongoing work in this field in Germany and spans a wide range of topics airplane aerodynamics multidisciplinary optimization and new configurations hypersonic flows and aerothermodynamics flow control drag reduction and laminar flow control rotorcraft aerodynamics aeroelasticity and structural dynamics numerical simulation experimental simulation and test techniques aeroacoustics as well as the new fields of biomedical flows convective flows aerodynamics and acoustics of high speed trains

Dynamics of Droplets Arnold Frohn, Norbert Roth, 2013-04-17 Intended to provide an up to date overview of the field this book is also likely to become a standard work of reference on the science of droplets Beginning with the theoretical background important for droplet dynamics it continues with a presentation of the various methods for generating single droplets and regular droplet systems Also included is a detailed description of the experimental methods employed in droplet research A special chapter is devoted to the various types of droplet interactions without phase transition A separate chapter then treats many examples of the possible phase transition processes The final part of the book gives a summary of important applications With its comprehensive content this book will be of interest to all scientists and lecturers concerned with two phase flow spray technology heterogeneous combustion and aerosol science

Advances in Fluid Mechanics Measurements MOHAMED GAD-EL-HAK, 2013-03-08 One cannot overemphasize the importance of

studying fluids in motion or at rest for a variety of scientific and engineering endeavors Fluid mechanics as an art reaches back into antiquity but its rational formulation is a relatively recent undertaking Much of the physics of a particular flow situation can be understood by conducting appropriate experiments Flow visualization techniques offer a useful tool to establish an overall picture of a flow field and to delineate broadly its salient features before embarking on more detailed quantitative measurements Among the single point measurements that are particularly difficult are those in separated flows non Newtonian fluids rotating flows and nuclear aerosols Pressure shear stress vorticity and heat transfer coefficient are also difficult quantities to measure particularly for time dependent flows These and other special situations are among the topics covered in this volume Each article emphasizes the development of a particular measuring technique The topics covered were chosen because of their importance to the field recent appeal and potential for future development The articles are comprehensive and coverage is pedagogical with a bias towards recent developments

New Results in Numerical and Experimental Fluid Mechanics III Siegfried Wagner,Ulrich Rist,Hans-Joachim Heinemann,Reinhard Hilbig,2012-09-07 This volume contains the papers of a German symposium dealing with research and project work in numerical and experimental aerodynamics and fluidmechanics for aerospace and other applications It gives a broad overview over the ongoing work in this field in Germany

Particle Image Velocimetry Ronald J. Adrian,Jerry Westerweel,2011 Particle image velocimetry or PIV refers to a class of methods used in experimental fluid mechanics to determine instantaneous fields of the vector velocity by measuring the displacements of numerous fine particles that accurately follow the motion of the fluid Although the concept of measuring particle displacements is simple in essence the factors that need to be addressed to design and implement PIV systems that achieve reliable accurate and fast measurements and to interpret the results are surprisingly numerous The aim of this book is to analyze and explain them comprehensively

Local Strain and Temperature Measurement J Ziebs,1999-03-05 The proceedings of a symposium held in Berlin in March 1996 drawing together practical expertise in measurement techniques with typical applications ranging from in situ measurements of strain and rotation on small specimens through notched specimens and single crystal up to turbine blade shaped samples and full scale component testing The symposium also highlighted new techniques such as speckle interferometry and image analysis

Experimental Aerodynamics Stefano Discetti,Andrea Ianiro,2017-03-16 Experimental Aerodynamics provides an up to date study of this key area of aeronautical engineering The field has undergone significant evolution with the development of 3D techniques data processing methods and the conjugation of simultaneous measurements of multiple quantities Written for undergraduate and graduate students in Aerospace Engineering the text features chapters by leading experts with a consistent structure level and pedagogical approach Fundamentals of measurements and recent research developments are introduced supported by numerous examples illustrations and problems The text will also be of interest to those studying mechanical systems such as wind turbines

Modelling with Transparent Soils Magued Iskander,2010-07-15 up with automated systems for

assessment of road condition For example Haas et al 1997 developed an automated algorithm for detecting cracks and joints condition Smith and Lin 1997 developed a fuzzy logic classification scheme for pavement distress condition Oh et al 1997 developed iterative algorithm for overcoming noisy images of roads due to shadows and low light conditions Koustoupoulos and Mishalani 1997 presented a model for distress assessment in a local microscopic and global macroscopic level using captured images of pavement Lee 1993 presented a comparison between 15 different imaging algorithms used in crack detection Ground Penetration Radar GPR has also been used for pavement assessment Special computer algorithms were developed for quick analysis of GPR data Adeli Hung 1993 and Maser 1996 Heiler and McNeil 1997 proposed a modified system for analyzing the GPR data using an artificial neural network ANN 2 3 2 Traffic Analysis and Control Currently imaging systems provide essential data for transportation and traffic engineering planning Anon 1999 Machine vision techniques were introduced to intersection traffic signal control in the late 1970 s Chou and Sethi 1993 No days many systems have been developed all over the world for traffic analysis and control applications in addition to image based systems for traffic violations Nallamathu and Wang 1997 developed one of the first automated systems for license plate recognition using character recognition algorithm for the use in monitoring violators at toll stations and many other traffic applications

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