

Interferometric Tomography Measurement of the Temperature Field in the Vicinity of a Dendritic Crystal Growing from a Supercooled Melt.

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IMECHE, London 1998, p. 423-432.

The shape of a crystal growing from a supercooled pure melt is influenced by the temperature-dependent kinetics of the nucleation on the interface. In the course of this growth, heat is released from the interface, thus feeding back on the temperature field. In this intrinsically nonlinear process, the three-dimensional temperature field in the fluid is a vital dynamic parameter which has not been previously measured. This can be done with the aid of multi-directional interferometry, using the temperature dependence of the refractive index of the melt. If the growth regime lies in the path of one of the interferometer beams, a phase shift, proportional to the integrated refractive index change, is observed. To measure the three-dimensional field of the refractive index requires some form of tomographic reconstruction. We built an apparatus that includes a crystal growing cell which is viewed by four Mach-Zehnder interferometers. The interferograms are analyzed by Fourier fringe analysis, and the field is reconstructed by the algebraic reconstruction technique (ART), an algorithm which has been shown by Verhoeven to be suitable for limited data tomography. Measured temperature fields around growing crystals of *heavy ice* (D_2O) and *acetonitrile* are presented. Internal self-consistency of the field magnitudes is demonstrated, without the need for adjustable parameters.

1. INTRODUCTION

The growth of crystals from a supercooled melt is a broad subject which has been researched for several decades[1-7]. A crystal is nucleated in a supercooled melt at uniform temperature and begins to grow. Latent heat is ejected from its surface and is transported away by conduction through the fluid. The rate at which the crystal grows is controlled by the surface

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Optical Methods and Data Processing in Heat and Fluid Flow Institution of Mechanical Engineers (Great Britain), European Association of Laser Anemometry, 1999 Optical Methods for Data Processing in Heat and Fluid Flow Clive Greated, John Cosgrove, James Buick, 2002-08-30 Optical methods are now used routinely for the measurement of velocity concentration temperature and other parameters in wide ranging areas of industrial research and design such as IC engines turbines and combustors Recent advances such as the use of high resolution CCD cameras and the extension of flow mapping to three dimensions make optical tools such as particle image velocimetry increasingly viable for use in the industrial environment This excellent book presents new developments in optical diagnostic techniques in heat and fluid flow and offers an unparalleled opportunity for industrialists and academic researchers to exchange ideas CONTENTS INCLUDE Comparison of injector sprays for gasoline direct injection engines The design development and preliminary results from a high speed optically accessed single cylinder engine The reflected spectrum of complex multi layered inhomogeneous highly scattering medium Development of full volume digital holography for particle measurement Improved liquid crystal thermography by using true colour image processing technology Development of an optical measuring technique for the study of acoustical phenomena Spatio temporal reconstruction of the unsteady wake of axisymmetric bluff bodies via time recording DPIV Application of particle image velocimetry to helicopter vortex interactions Pulsed laser particle image velocimetry using a fibre optic delivery system Automated fringe analysis for profilometric mass transfer experiments

Optical methods and data processing in heat and fluid flow IMechE Energy and Thermofluid Mechanics Group, 1992

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Institution of Mechanical Engineers Energy and Thermofluid Mechanics Group,1992 Flow Visualization: Techniques And Examples (2nd Edition) Alexander J Smits,Tee Tai Lim,2012-08-02 This is the 2nd edition of the book Flow Visualization Techniques and Examples which was published by Imperial College Press in 2000 Many of the chapters have been revised and updated to take into consideration recent changes in a number of flow visualization and measurement techniques including an updated high quality flow gallery Unique among similar publications this book focuses on the practical rather than theoretical aspects Obtaining high quality flow visualization results is in many ways more of an art than a science and experience plays a key deciding role The depth and breadth of the material will make this book invaluable to readers of all levels of experience in the field **Hydrodynamics : Theory and Applications** A. T. Chwang,Joseph H. W. Lee,D. Y. C. Leung,1996 Three-Dimensional Velocity and Vorticity Measuring and Image Analysis Techniques Th. Dracos,2013-06-29 The contents of this volume reflect to a large extent the efforts made by a group of Institutes at the ETH Z rich to develop new techniques for measurements of flows in fluids in the last decade The motivation came from the study of transport and mixing processes in natural and industrial systems One of the characteristic properties of turbulence is its high mixing efficiency The techniques developed are therefore suitable although not exclusively for turbulence measurements They can be subdivided into point measurements and field measurements The aim of the point measurements developed is to determine the three components of the velocity and all their first derivatives with good temporal resolution and accuracy in turbulent flows The old and well established method of hot wire anemometry was used for this purpose One of the main achievements in this context is the construction of miniature multi wire probes This technique was introduced to the Institute of Hydromechanics and Water Resources Management of ETH Z rich by Profs A Tsinober and E Kit from Tel Aviv University This was made possible by the generous financial support by ETH for which I would like to express my gratitude on this occasion In addition Dr F E Joergensen from DANTEC contributed an example of recent developments in the hardware of Constant Temperature Anemometry CTA for which I am very thankful **Mechanical Engineers' Handbook, Volume 4** Myer Kutz,2015-03-02 The engineer's ready reference for mechanical power and heat Mechanical Engineer's Handbook provides the most comprehensive coverage of the entire discipline with a focus on explanation and analysis Packaged as a modular approach these books are designed to be used either individually or as a set providing engineers with a thorough detailed ready reference on topics that may fall outside their scope of expertise Each book provides discussion and examples as opposed to straight data and calculations giving readers the immediate background they need while pointing them toward more in depth information as necessary Volume 4 Energy and Power covers the essentials of fluids thermodynamics entropy and heat with chapters dedicated to individual applications such as air heating cryogenic engineering indoor environmental control and more Readers will find detailed guidance toward fuel sources and their technologies as well as a general overview of the mechanics of combustion No single engineer can be a specialist in all areas that they are called on to work in

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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 **Process Imaging For Automatic Control** David M. Scott,Hugh McCann,2018-10-03 As industrial processes and their corresponding control models increase in complexity the data provided by traditional point sensors is no longer adequate to ensure product quality and cost effective operation Process Imaging for Automatic Control demonstrates how in process imaging technologies surpass the limitations of traditional monitoring systems by providing real time multidimensional measurement and control data Combined with suitable data extraction and control schemes such systems can optimize the performance of a wide variety of industrial processes Contributed by leading international experts Process Imaging for Automatic Control offers authoritative comprehensive coverage of this new area of process control technology including Basic goals of process modeling and their application to automatic control Direct imaging devices and applications such as machine vision and spatial measurement of flow velocity pressure shear pH and temperature Various techniques hardware implementations and image reconstruction methods for process tomography Image enhancement and restoration State estimation methods State space control system models control strategies and implementation issues Five chapters devoted to case studies and advanced applications From theory to practical implementation this book is the first to treat the entire range of imaging techniques and their application to process control Supplying broad coverage with more than 270 illustrations and nearly 700 cited references it presents an accessible introduction to this rapidly growing interdisciplinary

technology

Computational Intelligence in Multimedia Processing: Recent Advances Aboul-Ella Hassanien, Ajith

Abraham, 2008-04-24 In recent decades Multimedia processing has emerged as an important technology to generate content based on images video audio graphics and text This book is a compilation of the latest trends and developments in the field of computational intelligence in multimedia processing The edited book presents a large number of interesting applications to intelligent multimedia processing of various Computational Intelligence techniques including neural networks and fuzzy logic

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Table of Contents Optical Methods For Data Procebing In Heat And Fluid Flow

1. Understanding the eBook Optical Methods For Data Procebing In Heat And Fluid Flow
 - The Rise of Digital Reading Optical Methods For Data Procebing In Heat And Fluid Flow
 - Advantages of eBooks Over Traditional Books
2. Identifying Optical Methods For Data Procebing In Heat And Fluid Flow
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Optical Methods For Data Procebing In Heat And Fluid Flow
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optical Methods For Data Procebing In Heat And Fluid Flow
 - Personalized Recommendations
 - Optical Methods For Data Procebing In Heat And Fluid Flow User Reviews and Ratings
 - Optical Methods For Data Procebing In Heat And Fluid Flow and Bestseller Lists

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 - Optical Methods For Data Procebing In Heat And Fluid Flow eBook Subscription Services
 - Optical Methods For Data Procebing In Heat And Fluid Flow Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Optical Methods For Data Procebing In Heat And Fluid Flow Compatibility with Devices
 - Optical Methods For Data Procebing In Heat And Fluid Flow Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optical Methods For Data Procebing In Heat And Fluid Flow
 - Highlighting and Note-Taking Optical Methods For Data Procebing In Heat And Fluid Flow
 - Interactive Elements Optical Methods For Data Procebing In Heat And Fluid Flow
8. Staying Engaged with Optical Methods For Data Procebing In Heat And Fluid Flow
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optical Methods For Data Procebing In Heat And Fluid Flow
9. Balancing eBooks and Physical Books Optical Methods For Data Procebing In Heat And Fluid Flow
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Optical Methods For Data Procebing In Heat And Fluid Flow
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Optical Methods For Data Procebing In Heat And Fluid Flow
 - Setting Reading Goals Optical Methods For Data Procebing In Heat And Fluid Flow
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Optical Methods For Data Procebing In Heat And Fluid Flow
 - Fact-Checking eBook Content of Optical Methods For Data Procebing In Heat And Fluid Flow
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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