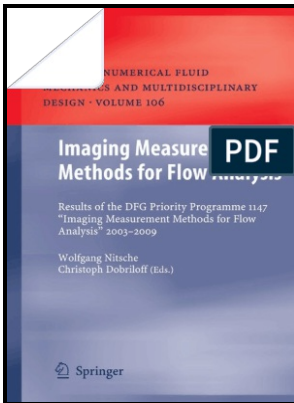


Simultaneous three-dimensional velocity and mixing measurements by use of laser Doppler velocimetry and fluorescence probes in a water tunnel

Lewis Research Center - PROGRAM



Description: -

- Water tunnel tests

Laser velocimeters Simultaneous three-dimensional velocity and mixing measurements by use of laser Doppler velocimetry and fluorescence probes in a water tunnel

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Notes: Includes bibliographical references: p. 34.

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Volume Table of Contents

The majority of this article reviews recent advances in Planar Doppler Velocimetry in measuring up to three velocity components over a planar region in a flowfield. Also the FLEET method may be used when the gaseous fluid is air.

CiteSeerX — Simultaneous Three

Wellhofer Simultaneous PIV and Shadowgraphy measurements in Slug Flow in Newtonian and Non-Newtonian Liquids S. Distilled water is used as working fluid, to allow both a large heating rate and sufficient time to take measurements of the evolving thermal structures. Residue removal from singulated die sidewall 2014-04-10 2015-03-10 Applied Materials, Inc.

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It is determined that at the conditions measured, 95. The data were processed using statistical analysis software SPSS v16. We report that, at all temperatures, electron spin polarization co-propagates with the high-mobility electron sea, even when this requires an unusual form of separation of spin density from photoinjected electron density.

US9863975B2

Optomechanical magnetometry with a macroscopic resonator. The interaction has been highlighted with two special cases when a heat island interferes with the katabatic current or a sea breeze.

1. Introduction

Two cooling schemes—Doppler laser cooling and photodetachment cooling—are investigated. Second, because laser-based diagnostics enable species and temperature profiles to be probed experimentally and one can validate the model.

Flow measurements

The Jack Rabbit Pretest 2021E PT7, 160 millimeter diameter experiment returned data on all eight PDV probes. The imager is further configured to measure the intensity and location of the illuminated molecules at a time T_2 .

Laser Velocimetry in Fluid Mechanics

Suitable instrumentation for the study of wind tunnel type and atmospheric flows are described. The pulse from the pulsed laser may have an energy above 1 mJ. Measurements of the velocity and density flowfields in the shock-layer region of a reentry-vehicle indented nose configuration were carried out at Mach 5.

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