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**Research Papers:** Multiphase Flows

## Large Eddy Simulation of Turbulent-Cavitation Interactions in a Venturi Nozzle

Nagendra Dittakavi, Aditya Chunekar and Steven Frankel

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Eng.. 2010;132(12):121301-11.  
doi:10.1115/1.4001971.

**Research on Two Phase Waterjet Nozzles**

S. Gowing, T. Mori and S. Neely

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Eng.. 2010;132(12):121302-9.  
doi:10.1115/1.4002999.

**Research Papers:** Techniques and Procedures

## A Fast Method for Determining the Flow Conductance of Gas Microfluidic Devices

Matteo Martinelli and Vladimir Viktorov

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Eng.. 2010;132(12):121401-6.  
doi:10.1115/1.4003089.

**Numerical Simulation of Droplet Size Distribution in**

## Vertical Upward Annular Flow

Y. Liu and W. Z. Li

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Eng.. 2010;132(12):121402-9.  
doi:10.1115/1.4003152.

**Research Papers:** Flows in Complex Systems

## Forces and Surface Pressure on a Blade Moving in Front of the Admission Region

Soo-Yong Cho, Chong-Hyun Cho, Kook-Young Ahn and Young-Cheol Kim

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Eng.. 2010;132(12):121101-8.  
doi:10.1115/1.4002468.

**Stall Inception Mechanism in an Axial Flow Fan Under Clean**

## and Distorted Inflows

Pramod B. Salunkhe and A. M. Pradeep

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Eng.. 2010;132(12):121102-14.

**Parametric Investigation of**

doi:10.1115/1.4002921.

## Compressor Rotor Performance

Yanhui Wu, Wuli Chu, Haoguang Zhang and Qingpeng Li

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Eng.. 2010;132(12):121103-

121103-10.

doi:10.1115/1.4003000.

## Circumferential Grooves on

### Axisymmetric Vessel

Adam Robinson, Hervé Morvan and Carol Eastwick

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Eng.. 2010;132(12):121104-

121104-7.

doi:10.1115/1.4003151.

## Computational Investigations Into Draining in an

### Experimental Observation of Inertia-Dominated Squeeze Film Damping in Liquid

Antoine Fornari, Matthew Sullivan, Hua Chen, Christopher Harrison, Kai Hsu, Frederic Marty and Bruno Mercier

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Eng.. 2010;132(12):121201-

121201-10.

doi:10.1115/1.4003150.

## Partially Averaged Navier– Stokes (PANS) Method for

### Turbulence Simulations: Flow Past a Circular Cylinder

Sunil Lakshmipathy and Sharath S. Girimaji

*J. Fluids*

Eng.. 2010;132(12):121202-

121202-9.

doi:10.1115/1.4003154.

## Partially Averaged Navier– Stokes (PANS) Method for

### Turbulence Simulations—Flow Past a Square Cylinder

Eunhwan Jeong and Sharath S. Girimaji

*J. Fluids*

Eng.. 2010;132(12):121203-

121203-11.

doi:10.1115/1.4003153.

## Experimental Determination of the Virtual Mass Coefficient

### for Two Spheres Accelerating in a Power Law Fluid

Abbas H. Sulaymon, Catherine A. M. E. Wilson and Abeer I. Alwared

*J. Fluids*

Eng.. 2010;132(12):121204-

121204-11.

doi:10.1115/1.4003001.