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BASIC  
VIEW | EXPANDED VIEW

Research Papers: Multiphase Flows

## Numerical Prediction of Impact Force in Cavitating Flows

Hong Wang and Baoshan Zhu

*J. Fluids*

*Eng.* 2010;132(10):101301-101301-9.  
doi:10.1115/1.4002506.

## Non-Newtonian Drops Spreading on a Flat Surface

A. Dechelette, P. E. Sojka and C. R. Wassgren

*J. Fluids*

*Eng.* 2010;132(10):101302-101302-7.  
doi:10.1115/1.4002281.

## Research Papers: Fundamental Issues and Canonical Flows

## Unsteady Peristaltic Pumping in a Finite Length Tube With Permeable Wall

Y. V. K. Ravi Kumar, S. V. H. N. Krishna Kumari, P. M. V. Ramana Murthy and S. Sreenadh

*J. Fluids*

*Eng.* 2010;132(10):101201-101201-4.  
doi:10.1115/1.4002518.

## Rotational and Quasiviscous Cold Flow Models for

## Axisymmetric Hybrid Propellant Chambers

Joseph Majdalani and Michel Akiki

*J. Fluids*

*Eng.* 2010;132(10):101202-101202-7.  
doi:10.1115/1.4002397.

## Experimental and Numerical Study of Laminar Round Jet

## Flows Along a Wall

K. F. K. Adane and M. F. Tachie

*J. Fluids*

*Eng.* 2010;132(10):101203-101203-10.  
doi:10.1115/1.4002653.

## Stokes Flow Through a Periodically Grooved Tube

Chiu-On Ng and C. Y. Wang

*J. Fluids*

*Eng.* 2010;132(10):101204-101204-8.  
doi:10.1115/1.4002654.

## Research Papers: Flows in Complex Systems

## Relaminarization of Axisymmetric Turbulent Flow With Combined Axial Jet and Side Injection in a Pipe

Snehamoy Majumder and Dipankar Sanyal

*J. Fluids*

*Eng.*. 2010;132(10):101101-101101-6.  
doi:10.1115/1.4002505.

## Viscous Disk Air Flow Displacement Device

### (VDAFDD): Development and Performance

Jonathan M. Hilton and Phillip M. Ligrani

*J. Fluids*

*Eng.*. 2010;132(10):101102-101102-8.  
doi:10.1115/1.4002522.

## Integral Force/Moment Waterjet Model for CFD

### Simulations

Manivannan Kandasamy, Seng Keat Ooi, Pablo Carrica and Frederick Stern

*J. Fluids*

*Eng.*. 2010;132(10):101103-101103-9.  
doi:10.1115/1.4002573.

## Numerical and Experimental Study on Jet Trajectories and

### Mixing Behavior of Venturi-Jet Mixer

S. Sundararaj and V. Selladurai

*J. Fluids*

*Eng.*. 2010;132(10):101104-101104-9.  
doi:10.1115/1.4002575.

## Research Papers: Techniques and Procedures

## Relationship between accuracy and number of velocity particles of the finite-difference lattice Boltzmann method in velocity slip simulations

Minoru Watari

*J. Fluids*

*Eng.*. 2010;132(10):101401-101401-11.  
doi:10.1115/1.4002359.

## Three-Dimensional Vortex Method for the Simulation of

### Bubbly Flow

Tomomi Uchiyama and Shoji Matsumura

*J. Fluids*

*Eng.*. 2010;132(10):101402-101402-8.  
doi:10.1115/1.4002574.