

Journal of Fluids Engineering

November,
2010 |
Volume

132 | Issue
11

Email Alerts | RSS 
BASIC
VIEW | EXPANDED VIEW

Research Papers: Flows in Complex
Systems

Investigation of the Flow Field on a Transonic Turbine Nozzle Guide Vane With Rim Seal Cavity Flow Ejection

M. Pau and G. Paniagua

J. Fluids

Eng. 2010;132(11):111101-
111101-9.
doi:10.1115/1.4002887.

Pressure Fluctuation
Characteristics of Complex

Turbulent Flow in a Single Elbow With Small Curvature Radius for a Sodium-Cooled Fast Reactor

Shinji Ebara, Yuta Aoya, Tsukasa Sato, Hidetoshi Hashizume, Yuki Kazuhisa, Kosuke Aizawa and Hidemasa Yamano

J. Fluids

Eng. 2010;132(11):111102-
111102-7.
doi:10.1115/1.4002813.

Research Papers: Fundamental Issues and
Canonical Flows

Laminar Flow in Microchannels With Noncircular Cross Section

Ali Tamayol and Majid Bahrami

J. Fluids

Eng. 2010;132(11):111201-
111201-9.
doi:10.1115/1.4001973.

On a New Passive Scalar
Equation With Variable Mass

Diffusivity: Flow Between Parallel Plates

Fabio Gori and Andrea Boghi

J. Fluids

Eng. 2010;132(11):111202-
111202-11.
doi:10.1115/1.4002743.

Effect of Initial Constant
Acceleration on the Transition to

Turbulence in Transient Circular Pipe Flow

Manabu Iguchi, Kazuyoshi Nishihara, Yusuke Nakahata and Charles W. Knisely

J. Fluids

Eng. 2010;132(11):111203-
111203-9.
doi:10.1115/1.4002519.

Swirling Flow in a Fixed
Container: Generation and

Attenuation of a Vortex Column

A. Nahas, A. Calvo and M. Piva

J. Fluids

Eng.. 2010;132(11):111204-111204-9.

doi:10.1115/1.4002773.

Research Papers: Multiphase Flows

Prediction of Small-Scale Cavitation in a High Speed Flow Over an Open Cavity Using Large-Eddy Simulation

Ehsan Shams and Sourabh V. Apte

J. Fluids

Eng.. 2010;132(11):111301-111301-14.

doi:10.1115/1.4002744.

Comparison of Local Interfacial Structures Around 90

and 45-Degree Elbows in Horizontal Bubbly Flows

Mohan Yadav, Justin D. Talley and Seungjin Kim

J. Fluids

Eng.. 2010;132(11):111302-111302-12.

doi:10.1115/1.4002872.

A Contribution to Study on the Lift of Ventilated

Supercavitating Vehicle With Low Froude Number

Yu Kaiping, Zhou Jingjun, Min Jingxin and Zhang Guang

J. Fluids

Eng.. 2010;132(11):111303-111303-7.

doi:10.1115/1.4002873.

Study on Aeration for Disengaged Wet Clutches Using

a Two-Phase Flow Model

Shihua Yuan, Kai Guo, Jibin Hu and Zengxiong Peng

J. Fluids

Eng.. 2010;132(11):111304-111304-6.

doi:10.1115/1.4002874.

Thermodynamic Effect on a Cavitating Inducer in Liquid

Hydrogen

Eric Goncalvès, Regiane Fortes Patella, Julien Rolland, Benoit Pouffary and Guillaume Challier

J. Fluids

Eng.. 2010;132(11):111305-111305-7.

doi:10.1115/1.4002886.

Technical Briefs

Mass Transfer Coefficients for a Non-Newtonian Fluid and Water With and Without Antifoam Agents

Robert A. Leishear, Hector N. Guerrero, Michael L. Restivo and David J. Sherwood

J. Fluids

Eng.. 2010;132(11):114501-114501-7.

doi:10.1115/1.4002704.

Parallel Flow Through Ordered Fibers: An Analytical

Approach

A. Tamayol and M. Bahrami

J. Fluids

Eng. 2010;132(11):114502-
114502-7.

doi:10.1115/1.4002169.