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Performance Improvement of Weis-Fogh Type Ship's Propulsion Mechanism Using a Wing Restrained by an Elastic Spring

Kideok Ro

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Eng. 2010;132(4):041101-041101-6.
doi:10.1115/1.4001155.

Experimental Analysis of Microchannel Entrance Length

Characteristics Using Microparticle Image Velocimetry

Tariq Ahmad and Ibrahim Hassan

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Eng. 2010;132(4):041102-041102-13.
doi:10.1115/1.4001292.

Combined Effect of Surface Roughness and Heterogeneity of

Wall Potential on Electroosmosis in Microfluidic/Nanofluidic Channels

S. Bhattacharyya and A. K. Nayak

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Eng. 2010;132(4):041103-041103-11.
doi:10.1115/1.4001308.

Application of Realizability and Shock Unsteadiness to k

$-\epsilon$ Simulations of Under-Expanded Axisymmetric Supersonic Free Jets

Babak Emami, Markus Bussmann and Honghi Tran

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Eng. 2010;132(4):041104-041104-7.
doi:10.1115/1.4001341.

Analysis of Unsteady Confined Viscous Flows With Variable

Inflow Velocity and Oscillating Walls

Dan Mateescu, Manuel Muñoz and Olivier Scholz

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Eng. 2010;132(4):041105-041105-9.
doi:10.1115/1.4001184.

Research Papers: Fundamental Issues and Canonical Flows

Eddy Heat Transfer by Secondary Görtler Instability

L. Momayez, G. Delacourt, P. Dupont and H. Peerhossaini

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Eng. 2010;132(4):041201-041201-10.

On Self-Similarity in the Inner

doi:10.1115/1.4001307.

Wall Layer of a Turbulent

Channel Flow

Bérengère Podvin, Yann Fraigneau, Julien Jouanguy and J.-P. Laval

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Eng.. 2010;132(4):041202-041202-15.

doi:10.1115/1.4001385.

Review of Hydraulic Roughness Scales in the Fully

Rough Regime

Karen A. Flack and Michael P. Schultz

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Eng.. 2010;132(4):041203-041203-10.

doi:10.1115/1.4001492.

Research Papers: Multiphase Flows

CFD Simulation of the

Bubbling and Slugging Gas-Solid Fluidized Beds

Seyyed Hossein Hosseini, Wenqi Zhong, Mohsen Nasr Esfahany, Leila Pourjafar and Salar Azizi

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Eng.. 2010;132(4):041301-041301-10.

doi:10.1115/1.4001140.

Implicit LES Predictions of the Cavitating Flow on a Propeller

Rickard E. Bensow and Göran Bark

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Eng.. 2010;132(4):041302-041302-10.

doi:10.1115/1.4001342.

An Examination of Trapped Bubbles for Viscous Drag

Reduction on Submerged Surfaces

Kelly A. Stephani and David B. Goldstein

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Eng.. 2010;132(4):041303-041303-9.

doi:10.1115/1.4001273.

Technical Briefs

On the Suppression of Vortex

Shedding From Circular Cylinders Using Detached Short Splitter-Plates

Behzad Ghadiri Dehkordi and Hamed Hourri Jafari

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Eng.. 2010;132(4):044501-044501-4.

doi:10.1115/1.4001384.

Buoyancy Effects on Thermal Boundary Layer Over a Vertical

Plate With a Convective Surface Boundary Condition

O. D. Makinde and P. O. Olanrewaju

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Eng.. 2010;132(4):044502-044502-4.

doi:10.1115/1.4001386.