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Research Papers: Flows in Complex Systems

Scale-Up Correlation for the Flow of Surfactant-Based Fluids in Circular Coiled Pipes

Ahmed H. Ahmed Kamel and Subhash N. Shah

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Eng.. 2010;132(8):081101-081101-12.
doi:10.1115/1.4002007.

Numerical Simulation of the Transient Flow in

a Centrifugal Pump During Starting Period

Zhifeng Li, Dazhuan Wu, Leqin Wang and Bin Huang

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Eng.. 2010;132(8):081102-081102-8.
doi:10.1115/1.4002056.

Research Papers: Fundamental Issues and Canonical Flows

Patterns of Airflow in Circular Tubes Caused by a Corona Jet With Concentric and Eccentric Wire Electrodes

Reza Baghaei Lakeh and Majid Molki

J. Fluids

Eng.. 2010;132(8):081201-081201-10.
doi:10.1115/1.4002008.

Mass Transfer in a Rigid Tube With

Pulsatile Flow and Constant Wall Concentration

T. E. Moschandrou, C. G. Ellis and D. Goldman

J. Fluids

Eng.. 2010;132(8):081202-081202-11.
doi:10.1115/1.4002213.

Numerical Modeling and Analysis of

Entrainment in Turbulent Jets After the End of Injection

Satbir Singh and Mark P. B. Musculus

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doi:10.1115/1.4002184.

The Peak Overpressure Field

Resulting From Shocks Emerging From Circular Shock Tubes

A. J. Newman and J. C. Mollendorf

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Eng.. 2010;132(8):081204-

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doi:10.1115/1.4002183.

Research Papers: Multiphase Flows

Developing Laminar Gravity-Driven Thin Liquid Film Flow Down an Inclined Plane

H. Lan, J. L. Wegener, B. F. Armaly and J. A. Drallmeier

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Eng.. 2010;132(8):081301-081301-8.
doi:10.1115/1.4002109.

A Level Set Method Coupled With a Volume

of Fluid Method for Modeling of Gas-Liquid Interface in Bubbly Flow

Bogdan A. Nichita, Iztok Zun and John R. Thome

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Eng.. 2010;132(8):081302-081302-15.
doi:10.1115/1.4002166.

Research Papers: Techniques and Procedures

A Methodology to Measure Aerodynamic Forces on Cylinders in Channel Flow

Alan A. Thrift, Scott J. Brumbaugh, Karen A. Thole and Atul Kohli

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Eng.. 2010;132(8):081401-081401-9.
doi:10.1115/1.4002198.

Technical Briefs

Far-Field Boundary

Condition Effects of CFD and Free-Wake Coupling Analysis for Helicopter Rotor

Seong Yong Wie, Jae Hoon Lee, Jang Hyuk Kwon and Duck Joo Lee

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Eng.. 2010;132(8):084501-084501-6.
doi:10.1115/1.4002110.

Microscale Falling Cylinder Viscometer With

Slip Boundary

Khaled M. Bataineh, Moh'd A. Al-Nimr and Wafa Batayneh

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Eng.. 2010;132(8):084502-084502-5.
doi:10.1115/1.4002168.

Shear Flow Over a Wavy Surface With

Partial Slip

C. Y. Wang

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doi:10.1115/1.4002197.

Drag Reduction of Tractor-Trailers Using

Optimized Add-On Devices

Fu-Hung Hsu and Roger L. Davis

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