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Research Papers: Flows in Complex Systems

High-Resolution Numerical Simulation of Low Reynolds Number Incompressible Flow About Two Cylinders in Tandem

Sintu Singha and K. P. Sinhamahapatra

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Eng. 2009;132(1):011101-011101-10.
doi:10.1115/1.4000649.

Vorticity Dynamics in Axial Compressor Flow Diagnosis and Design—Part II: Methodology and Application of Boundary Vorticity Flux

Qiushi Li, Hong Wu, Ming Guo and Jie-Zhi Wu

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Eng. 2009;132(1):011102-011102-12.
doi:10.1115/1.4000650.

Research Papers: Fundamental Issues and Canonical Flows

Slip Flow in the Hydrodynamic Entrance Region of Circular and Noncircular Microchannels

Zhipeng Duan and Y. S. Muzychka

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Eng. 2009;132(1):011201-011201-13.
doi:10.1115/1.4000692.

Stability of Plane Channel Flow With Viscous Heating

K. C. Sahu and O. K. Matar

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Eng. 2010;132(1):011202-011202-7.
doi:10.1115/1.4000847.

Research Papers: Multiphase Flows

Around the Body of Revolution

Yongjian Li, Haosheng Chen, Jiadao Wang and Darong Chen

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Eng. 2009;132(1):011301-011301-7.
doi:10.1115/1.4000648.

Effect of Grooves on Cavitation

Modeling Blockage of Particles in Conduit Constrictions: Dense

Granular-Suspension Flow

A. J. Parry and O. Millet

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Liquid Sheet Breakup in Gas-Centered Swirl Coaxial Atomizers

V. Kulkarni, D. Sivakumar, C. Oommen and T. J. Tharakan

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Effect of Capsule Density and Concentration on Pressure Drops of Spherical Capsule Train Conveyed by Water

Deniz Ulusarslan

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doi:10.1115/1.4000738.

Research Papers: Techniques and Procedures

Assessment of the Performance of Acoustic and Mass Balance Methods for Leak Detection in Pipelines for Transporting Liquids

Jaqueline Costa Martins and Paulo Selegim

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Eng. 2010;132(1):011401-

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doi:10.1115/1.4000736.

Technical Briefs

General Geometrical Model of Scroll Compression Chamber for Scroll Fluid Machine

Qiang Jianguo

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Eng. 2009;132(1):014501-

014501-4.

doi:10.1115/1.4000647.

Single Phase Compressible Steady Flow in Pipes

David Hullender, Robert Woods and Yi-Wei Huang

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014502-4.

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