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Research Papers: Flows in Complex Systems

Flowfield Investigation at Propeller Thrust Reverse

Eric W. M. Roosenboom and Andreas Schröder

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Eng.. 2010;132(6):061101-
061101-8.
doi:10.1115/1.4001677.

An Analytical Modeling of the
Central Core Flow in a Rotor-

Stator System With Several Preswirl Conditions

Roger Debuchy, Fadi Abdel Nour and Gérard Bois

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Eng.. 2010;132(6):061102-
061102-11.
doi:10.1115/1.4001576.

A Numerical Investigation of
the Constant-Velocity Volute

Design Approach as Applied to the Single Blade Impeller Pump

Brian de Souza, Andrew Niven and Richard McEvoy

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Eng.. 2010;132(6):061103-
061103-7.
doi:10.1115/1.4001773.

PIV Measurements and CFD
Computations of Secondary Flow

in a Centrifugal Pump Impeller

R. W. Westra, L. Broersma, K. van Anandel and N. P. Kruyt

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Eng.. 2010;132(6):061104-
061104-8.
doi:10.1115/1.4001803.

Rotordynamic Forces Acting on
Three-Bladed Inducer Under

Supersynchronous/Synchronous Rotating Cavitation

Yoshiki Yoshida, Masato Eguchi, Taiichi Motomura, Masaharu Uchiumi, Hirotaka Kure and Yoshiyulki Maruta

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Eng.. 2010;132(6):061105-
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doi:10.1115/1.3425727.

Research Papers: Fundamental Issues and
Canonical Flows

Effects of Channel Scale on Slip Length of Flow in Micro/Nanochannels

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Eng.. 2010;132(6):061201-
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doi:10.1115/1.4001619.

Application of the k-
 ϵ Turbulence Model to Buoyant

Adiabatic Wall Plumes

Michael A. Delichatsios, C. P. Brescianini, D. Paterson, H. Y. Wang and J. M. Most

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Research Papers: Multiphase Flows

Tongue of the Volute of a Centrifugal Pump

Rudolf Bachert, Bernd Stoffel and Matevž Dular

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Unsteady Cavitation at the

Maximum Spread of Droplet on Solid Surface: Low Reynolds and

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Ri Li, Nasser Ashgriz and Sanjeev Chandra

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doi:10.1115/1.4001695.

Research Papers: Techniques and Procedures

Passenger Train Slipstream Characterization Using a Rotating Rail Rig

N. Gil, C. J. Baker, C. Roberts and A. Quinn

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doi:10.1115/1.4001577.

A Comparison of Phase Doppler Analyzer (Dual-PDA)

and Optical Patternator Data for Twin-Fluid and Pressure-Swirl Atomizer Sprays

Ariel R. Muliadi, Paul E. Sojka, Yudaya R. Sivathanu and Jongmook Lim

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Factors of Safety for Richardson Extrapolation

Tao Xing and Frederick Stern

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Technical Briefs

Requirements for Fully Developed Laminar Flow in Concentric Annuli

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Impact of Surface Roughness on Compressor Cascade

Performance

Seung Chul Back, June Hyuk Sohn and Seung Jin Song

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