

AFSHARPANAH F., PONCET S., AMIRI L.: Isothermal Transport of Ice Slurry Flow in 90° Vertical Elbows	1
ANTOŠOVÁ Z., CHOU Y.-J., KO Y.-H., CHEN Y.-W., TRÁVNÍČEK Z.: Experiments and Numerical Simulation of Synthetic Jets Issuing from an Oscillating Nozzle	9
BELDA M., ISOZ M., MĚKUTA F., HYHLÍK T.: A Promising Quantitative Measure for Comparison of Power Spectral Densities	17
BÍLEK V., GEMBOUSKÝ O., HAIDL J.: CFD Simulation Methodology Validated for Mixed Rectangular Tank Equipped with Single and Multiple Impellers	25
CHANDRASEKARAN K. S., MARIAPPAN S., DAS D., SINGH A.: Comparison of Infrared Thermography, Temperature-Sensitive Paint, and Particle Image Velocimetry in Detecting the Onset of Laminar-To-Turbulent Boundary Layer Transition	33
DIMITRIEVA N., KRIVONOG O., FADEICHEV V., ROMANENKO P., KOVAL S.: Numerical and Experimental Study of The Characteristics of Airlift Pumps	41
DUDA D.: Some Attempts on Characterization of Turbulent Wakes Observed by Using Stereo PIV in a Plane Perpendicular to The Flow	48
FLÍDR E., NĚMEC M., ŠIMURDA D.: Difference Between Continuous Traversing and Step by Step Measurement at The Linear Blade Cascade Outlet	56
FUKA V.: Machine-Learning-Based Subgrid Modelling for the Atmospheric Boundary Layer	64
GEMBOUSKÝ O., BÍLEK V., HAIDL J.: Methodology For velocity Field Measurements in Pilot-Scale Stirred Vessels Using 2-D Particle Tracking Velocimetry	68
GENG C., SUN D., ZHANG M., LIU L., LIU X. SUN X.: An Experimental Investigation of The Coupled Aerodynamic-Acoustic Response of an Isolated Rotor to Foam Metal Casing Treatment	76

HAIDL J., BÍLEK V., GEBOUSKÝ O., PIVOKONSKÝ M.: On Flow Simulation Strategy for Industrial Mixed Vessels	84
HLAVATÝ T., ISOZ M., KOVÁRNOVÁ A., SVOBODA T., MOUCHA T., SLUKOVÁ M.: What Can Be Gained via Model Order Reduction of Bread-Baking Simulations?	90
KHÝR M., ISOZ M.: Distance Based Similarity Metrics for Artificial Neural Network Estimates of Soot Distribution in Catalytic	98
KOVÁRNOVÁ A., KUBÍČKOVÁ L., ISOZ M.: Towards Shape Optimization of a Quartz Crystal Microbalance Biosensor	106
KOVÁŘ P., FÜRST J.: Higher-Order Physics-Informed Neural Networks for Parametric Solution of The Unsteady Heat Equation	114
KRÜGER L., HUSSONG J., JAKIRLIČ S.: Experimental and Scale-Resolving Simulation Study of Flow Dynamics in Fuel Cell Cooling Systems	120
KUBÍČKOVÁ L., ISOZ M.: Connecting immersed boundary method with heat transfer for simulations of mechanical metamaterials	128
LÉDL M., KUBÍČKOVÁ L., ISOZ M.: Using U-Net to Estimate Fluid Flow in Mechanical Metamaterials	136
MĚKUTA F., HYHLÍK.: Space-Only POD Analysis of an Aircraft Propeller Wake Based on CTA Measurements	144
MRÁZOVÁ A., DUDA D., JANSKÝ V., BARTOŠ V., DOLEJŠÍ M., YANOVYCH V., URUBA V.: Comparison of The Wake in Free Stream and The Wake in Confined Open Channel of Nuclear Reactor Fuel Assembly	152
NESTERUK I.: Prandtl's Boundary-Layer Theory as a Basis for Improving Aerodynamic Shapes	160
PROCHÁZKA P., SKÁLA V., ŠNÁBL P., PRASAD C.S.: Aeroelastic Response and Wake Analysis of a Blade Cascade Exposed to Controlled Radial Cross-Flow	165
PUČEJDL P., VALÁŠEK J., MARHAN T., SVÁČEK P.: Modal Analysis of Prestressed Vocal Fold Model	173

RAUŠOVÁ M., TRNKA F., SCHMIRLEROVÁ H., SCHMIRLERM.:	183
The Effect of Neglecting Transient Flow in Nasal Cavity CFD Simulations	
ŠAMLOT J., FÜRST J.:	188
Mathematical Modeling of Dilute Gas Using Monte Carlo Method	
SEREBRYAKOV V., DIMITRIEVA N.:	196
Study of Problems for Body Motion in a Cavity with Gas Injection	
SHKVAR Y.:	202
TR-PIV Comparative Study of Vortical Systems Behind Leading-Edge Vortex Generators and Large Eddy Breakup Devices	
SIBGATULLIN I., DELEUZE J., JOUBAUD S.:	210
Multistability Effects in Internal Wave Modes and Wave Attractor Regimes in Stratified Fluids	
STUDENÍK O., TERPÁKOVÁ J., HAIDL J., ISOZ M.:	214
Direct Numerical Simulation of Contact Dynamics in Pseudo-2D Fluidized Beds: Effects of Sampling Depth and Region Size	
TATER A., HOLMAN J.:	222
Matrix-Free LU-SGS Solver for Hypersonic Laminar Diatomic Gas Flows with Decoupled Vibrational Energy Mode: Mesh Effects on Shock Waves and Separation Bubble in Double-Cone Flow	
UHLÍŘ V., BODNÁR T., FRAUNIÉ Ph.:	230
Assessment of Steady-State and Transient Approaches for Simulating Flow Over a Wall-Mounted Cube	
URUBA V, PROCHÁZKA P.:	238
Effect of Surface Roughness on Vortex Shedding in The Wake of a Circular Cylinder in a Subcritical Regime	
VARNHORN W.:	246
On the Exterior Dirichlet Boundary Value Problem for The Stokes Resolvent Equations in Two Dimensions	
VINŠKOVSKÝ R.:	251
Preliminary Study of Wind Interaction with a Gable Roof – Wind Tunnel Experiment with Downscale Model	
VÍTOVEC M., HALAMA J.:	260
Two-Fluid Finite Volume Solver for Wet Steam Flow	
VOROPAIEV G., BASKOVA O.:	268
Features of the Transition from Laminar to Turbulent Flow in the Presence of Non-Isothermal Conditions in Tubes	

- ZAGUMENNYI Y., VOROPAIEV G.: 276
Sensitivity of The Boundary Layer Flow to Wave Perturbations Distributed
on the Surface
- ZHANG J., SUN D., HU J., XU D. LIU X., SUN X.: 284
Resolvent Analysis of Single Rotor Wake Stability in Ground Effect