

CONTENTS

	page
BARRACLOUGH V., NOVOTNÝ J., ŠAFAŘÍK P.: Compilation of Vortex Filament of Arch Vortex in Wake of Cooling Tower Model	1
BODNÁR T., FRAUNIÉ PH.: Artificial Far-Field Pressure Boundary Conditions for Wall-Bounded Stratified Flows	7
BROUČKOVÁ Z.: Generation of Intermittent Jet by Pulse-Modulated Synthetic Jets	15
BUSCHMANN M. H.: Nanouptake - an European Network on Nanofluid Research	25
CAGGIO M., BODNÁR T.: Analysis of the Turbulence Parameterisations for the Atmospheric Surface Layer	31
CHASHECHKIN Y. D.: Hydrodynamics and Acoustics of Drop Impact	39
CHASHECHKIN Y. D., ZAGUMENNYI I. V., DIMITRIEVA F.: Unsteady Vortex Dynamics Past a Uniformly Moving Tilted Plate	47
DIMITRIEVA N. F., CHASHECHKIN Y. D.: Diffusion-Induced Effects in a Stratified Fluid Around a Motionless Wedge	57
DUMEK J., ŠAFAŘÍK P., PÁTEK Z., ASAI T.: On the Flight of the Volleyball	65
FACCANONI G., GALUSINSKI C., RAFIOU M.: Numerical Simulations of a Low Mach Number Model in Heat Exchanger	73
FLÍDR E., JELÍNEK T., KLADRUBSKÝ M.: Boundary Layer Investigation at the Inlet of a Linear Blade Cascade	83
FUKA V., XIE Z., T.: Domain Nesting in Les For Urban Areas	91
FÜRST J., MUSIL J.: Development of Non-Reflective Boundary Condition for Free-Surface Flows	97
GHOUDI T., KISSAMI I.: Nested Adaptive Vertex-Centered Finite Volume Methods for Diffusion Problems	105

GIMENO-FURIÓ A., BUSCHMANN M. H.: Experimental Study on Solar Nanofluids	115
GOLAY F.: Monolithic Fluid Structure Interaction Model, Application to Water Entry Problem	123
HAMNOUNE Y., YAHY F., BOUABDALLAH A.: Concentration and Gravity Effect on the Taylor - Dean Flow Between Two Horizontal Rotating Coaxial Cones	131
HANEK M., ŠÍSTEK J., BURDA P., STACH E.: Parallel Domain Decomposition Solver for Flows in Hydrostatic Bearings	137
HOLMAN J.: Numerical Solution of Transitional Flows Using EARSIM with Algebraic Model of Transition	145
ISOZ M.: Model Order Reduction Technique for Large Scale Flow Computations	153
JANČÍK P., HYHLÍK T.: Weakly Compressible Smoothed Particle Hydrodynamics for Free Surface Flow	161
KASTRATI S., HYHLÍK T., KALINAY R.: CFD Modelling of Evaporation from Thin Horizontal Liquid Film	167
KORDÍK J., TRÁVNÍČEK Z.: Synthetic Jet Characteristic Velocity Estimated on the Basis of Momentum Flux Measurement	175
LALAOUA A., NAÏT BOUDA F. , AICHE F., MERAH A.: CFD Investigation of the Onset of Time-Independent Taylor Vortex Flow in a Cylindrical Annulus for Different Working Fluids	183
LEYTON C., REDONDO J: M., TARQUIS A.: Neural Network Fluxes in Complex Human Behaviour	191
MAHLOUL M., MAHAMDIA A., MERABET N., ADNANE E.: Experimental Investigation of Symmetrical Baroclinic Instability Between Two Concentric Rotating Spheres	197
MERAH A., MOKHTARI F., KELAIAIA R., LALAOUA A., BAGHLI H., HAMRANI A., CHAIEB Z.: Effect of the Half End-Wall on Velocity and Taylor Vortices Flow	203
MIDLIK Š., JACKSON M. J., SCHMORANZER D.: Superflows Probed by a Vibrating Wire Resonator	209

PAŽANIN I., MARUŠIČ-PALOKA E.: Effects of Viscous Dissipation on the Fluid Flow Through a Thin Domain	217
PECH J., LOUDA P.: Comparison of Finite Volume and Spectral/HP Methods on Navier-Stokes Equations for Unsteady Incompressible Flow	223
PREVENSLIK T.: Charge Manipulation of Flow in Nanochannels	231
REDONDO J. M., KARIMOVA S.: Eddy Structure and Patterns in The Oceans and Atmospheres	235
REDONDO J. M., TELLEZ J., KOPEC J., KWIATKOWSKI K., LOPEZ P., TIJERA M., STRIHJAK S., MALIK N., MAHJOUB O. B., USAMA S.: Fractal Intermittent Wakes in a Wind Tunnel	243
ŠIDLOF P., KOLÁŘ J., PEUKERT P.: Flow-Induced Vibration of a Long Flexible Sheet in Tangential Flow	251
SMUTEK J., ISOZ M.: Numerical Simulation of Flow in Superpak Family Packings	257
ŠOUREK M., ISOZ M.: DEM-CFD Study of Flow in a Random Packed Bed	265
SVÁČEK P., POKORNÝ V.: On Numerical Approximation of Two-Phase Flow with Surface Tension and Contact Angles with Level Set Approach	273
ŠVANČARA P., HRUBCOVÁ P., LA MANTIA M.: Multi-Point Lagrangian Velocity Estimates	281
TIGRINE Z., BOUABDALLAH A., MOKHTARI F.: Numerical Study of Generation of Steady Streamwise Streaks in Duct Flow	291
URUBA V., PROCHÁZKA P., SKÁLA V.: Flow in Branched Channel	299
VALÁŠEK J., SVÁČEK P., HORÁČEK J.: The Influence of Different Geometries of Human Vocal Tract Model on Resonant Frequencies	307
VARNHORN W.: On the Motion of Viscous Incompressible Fluid Flow: The Navier - Stokes Equations	315
WINTER O., SVÁČEK P.: On Application of Overset/Chimera Method for Flow Approximation over a Vibrating Body Using OpenFOAM	325

