

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER

ABSTRACTED/INDEXED IN: *Applied Mechanics Reviews, Applied Science & Technology Abstracts, Applied Science and Technology Index, Cambridge Scientific Abstracts, Chemical Abstracts, Chemical Engineering Abstracts, Current Contents/Engineering, Computing & Technology, Current Contents/SciSearch Database, Current Contents/Social & Behavioral Sciences, Current Technology Index, Engineering Index, INSPEC, MSCI, Mechanics, PASCAL/CNRS, Petroleum Abstracts, Research Alert, TCEA, Zentralblatt MATH.* Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

Volume 53, issues 11–12

May 2010

CONTENTS

- | | | |
|--|------|---|
| K. KITAMURA and A. MITSUISHI | 2327 | Fluid flow and heat transfer of mixed convection over heated horizontal plate placed in vertical downward flow |
| T. G. MYERS | 2337 | An approximate solution method for boundary layer flow of a power law fluid over a flat plate |
| T. ZHANG, Y. PELES, J. T. WEN, T. TONG, J.-Y. CHANG, R. PRASHER and M. K. JENSEN | 2347 | Analysis and active control of pressure-drop flow instabilities in boiling microchannel systems |
| K. JEONG, M. J. KESSEN, H. BILJGEN and E. K. LEVY | 2361 | Analytical modeling of water condensation in condensing heat exchanger |
| X. DUAN and G. F. NATERER | 2369 | Heat transfer in a tower foundation with ground surface insulation and periodic freezing and thawing |
| S.-C. WONG, K.-C. HSIEH, J.-D. WU and W.-L. HAN | 2377 | A novel vapor chamber and its performance |
| R. KORYCKI | 2385 | Sensitivity oriented shape optimization of textile composites during coupled heat and mass transport |
| R. W. VAN GILS, M. F. M. SPEETJENS and H. NIJMEIJER | 2393 | Feedback stabilisation of a one-dimensional nonlinear pool-boiling system |
| J. LU and W.-Q. LU | 2404 | A numerical simulation for mass transfer through the porous membrane of parallel straight channels |
| M.-S. HUANG and Y.-L. HUANG | 2414 | Effect of multi-layered induction coils on efficiency and uniformity of surface heating |
| M. B. SAITO and M. J. S. DE LEMOS | 2424 | A macroscopic two-energy equation model for turbulent flow and heat transfer in highly porous media |
| E. R. MONTEIRO, E. N. MACÊDO, J. N. N. QUARESMA and R. M. COTTA | 2434 | Laminar flow and convective heat transfer of non-Newtonian fluids in doubly connected ducts |
| V. N. DAGGUPATI, G. F. NATERER and K. S. GABRIEL | 2449 | Diffusion of gaseous products through a particle surface layer in a fluidized bed reactor |
| C. B. TIBIRIÇA and G. RIBATSKI | 2459 | Flow boiling heat transfer of R134a and R245fa in a 2.3 mm tube |
| A. P. LUKISHA and V. F. PRISNYAKOV | 2469 | The efficiency of round channels fitted with porous, highly heat-conducting insert in a laminar fluid coolant flow at boundary conditions of the third kind |
| W. A. KHAN and I. POP | 2477 | Boundary-layer flow of a nanofluid past a stretching sheet |
| K. V. DOBREGO, E. S. SHMELEV, I. A. KOZNACHEEV and A. V. SUVOROV | 2484 | Water purification of organic inclusions by the method of combustion within an inert porous media |
| W. P. JONES, S. LYRA and A. J. MARQUIS | 2491 | Large Eddy Simulation of evaporating kerosene and acetone sprays |
| B. WANG | 2506 | Inter-phase interaction in a turbulent, vertical channel flow laden with heavy particles. Part I: Numerical methods and particle dispersion properties |

(Continued on page 2580)



0017-9310(201005)53:11-12;1-P

(Continued from outside back cover)

- B. WANG 2522 Inter-phase interaction in a turbulent, vertical channel flow laden with heavy particles. Part II: Two-phase velocity statistical properties
- B. S. BHADURIA and A. K. SRIVASTAVA 2530 Magneto-double diffusive convection in an electrically conducting-fluid-saturated porous medium with temperature modulation of the boundaries
- A. KOPANIDIS, A. THEODORAKAKOS, E. GAVAISES and D. BOURIS 2539 3D numerical simulation of flow and conjugate heat transfer through a pore scale model of high porosity open cell metal foam
- M. YALDIZLI, K. MEHRVARAN and F. A. JABERI 2551 Large-eddy simulations of turbulent methane jet flames with filtered mass density function
- H. BAHRAMI and A. FAGHRI 2563 Transport phenomena in a semi-passive direct methanol fuel cell