Vol. 22, No. 1, 2013

A simultaneous English language translation of this journal is available from Pleiades Publishing, Ltd. Distributed worldwide by Springer. *Journal of Engineering Thermophysics* ISSN 1810-2328.

Boiling Crisis in Droplets of Ethanol Water Solution on the Heating Surface V. E. Nakoryakov, S. Ya. Misyura, and S. L. Elistratov	1
Density of Liquid and Solid Mg–Pb Alloys R. A. Khairulin and S. V. Stankus	7
Commentary to the Article "On Calculation of the Transport Coefficients and Thermodynamic Properties of a Helium–Xenon Gas Mixture" by Yu. G. Dragunov, V. P. Smetannikov, B. A. Gabaraev, A. N. Orlov, M. S. Belyakov, and D. S. Derbenev	
V. E. Nakoryakov	20
On Calculation of the Transport Coefficients and Thermodynamic Properties of a Helium—Xenon Gas Mixture	
Yu. G. Dragunov, V. P. Smetannikov, B. A. Gabaraev, A. N. Orlov, M. S. Belyakov, and D. S. Derbenev	21
On the Choice of Correlations for Calculating the Heat Transfer Coefficient in Binary Gas Mixtures	
Yu. G. Dragunov, V. P. Smetannikov, B. A. Gabaraev, M. S. Belyakov, and P. V. Kobzev	30
Simulation and Improvement of Temperature Distributions of a Framed Mould during the Autoclave Composite Curing Process	
G. N. Xie, J. Liu, W. H. Zhang, G. Lorenzini, and C. Biserni	43
Theoretical Investigation of the Possibility of Using Multicomponent ($N_2-O_2-CH_4-H_2O$) Clathrate Hydrates for Methane Recovery from Mine Gas	
T. P. Adamova, O. S. Subbotin, LJ. Chen, and V. R. Belosludov	62
The Influence of Different Factors on the Shape of Pressure Pulse at the Liquid—Vapor Contact	
S. I. Lezhnin and D. I. Kachulin	69
Synthesis of Tungsten Carbide Nanoparticles in WO ₃ Pyrolysis in a Plasma Arc <i>A. V. Zaikovskii, V. A. Mal'tsev, and S. A. Novopashin</i>	77