

HEAT TRANSFER BIBLIOGRAPHY—RUSSIAN WORKS

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BOOKS

- G. N. ABRAMOVICH (Editor), *Investigation of Turbulent Jets of Air, Plasma and Real Gas, Collected Papers*. Mashinostroenie, Moscow (1967).
- M. M. DIDKOVSKII (Editor), *Investigation of Turbulent One- and Two-phase Flows, Collected Papers*. Naukova Dumka, Kiev (1966).
- D. A. FRANK-KAMENETSKII, *Diffusion and Heat Transfer in Chemical Kinetics*. Nauka, Moscow (1967).
- A. A. GUKHMAN, *Application of the Similarity Theory for Investigation of Heat and Mass Transfer Processes. (Transfer Processes in a Moving Medium)*. Vysshaya Shkola, Moscow (1967).
- YU. E. NESTERIKHIN and R. I. SOLOUKHIN, *Methods of High-speed Measurements in Gasdynamics and in Plasma Physics*. Nauka, Moscow (1967).
- L. I. RUBINSHTEIN, *The Stefan Problems*. Zvaigzne, Riga (1967).
- A. E. SHEINDLIN (Editor), *Low-temperature Plasma. Proceedings of the International Symposium on Properties and Application of Low-temperature Plasma at XX International Congress on Theoretical and Applied Chemistry. Moscow, 15-17 July 1965*. Mir, Moscow (1967).
- A. V. SHELEST, *Statistical Mechanics of Irreversible Processes*. Naukova Dumka, Kiev (1966).
- A. TSARS and V. GRISLIS, *Liquid High-Temperature Heat-Transfer Agents in Thermal Engineering*. Liesma, Riga (1967).
- S. V. VALANDER (Editor), *Aerodynamics of Rarefied Gases, Collected Papers*. Leningrad (1967).

GENERAL

- V. N. CHURAKOV, On the similarity criteria in strain theory of polymer plasticity, *Mechanika Polimerov (Akad. Nauk Latv. SSR)* No. 2, 250 (1967).
- P. N. PLATONOV, Some problems of mechanics of granulous materials flows. *Inzh.-Fiz. Zh.* **12**(6), 806 (1967).
- Resolution of the First All-Union Symposium on Thermodynamics of Ionic Transfer, *Zh. Fiz. Khim.* **41**, vyp. 4, 942 (1967).
- I. I. TALALOV and V. K. MISHUKOV, Similarity criterion and simulation of a rod heating process, *Izv. Akad. Nauk SSSR, Energ. Transport* No. 2, 116 (1967).
- N. L. YARYM-AGAIEV, Works on thermodynamics, reported at the 7th Ukrainian Republic Conference on Physical Chemistry, *Zh. Fiz. Khim.* **41**, vyp. 4, 946 (1967).

THERMODYNAMICS

- M. YA. AZBEL, Periodical magnetic structures and phase transformations, *Zh. Eksp. Teoret. Fiz.* No. 5, vyp. 8, 282 (1967).
- M. A. BAZHENOV and Sh. Sh. SUTYUSHEVA, On application of differential thermodynamics equations to plotting diagrams, *Zh. Fiz. Khim.* **41**, vyp. 4, 813 (1967).
- YA. M. BUZH DAN, On the thermodynamics of some non-ideal systems—I. *Izv. Sib. Otd. Akad. Nauk* No. 2/122, 28 (1967).
- YA. M. BUZH DAN, On the thermodynamics of some non-ideal systems—II. *Izv. Sib. Otd. Akad. Nauk*. No. 2/122, 37 (1967).
- V. N. DANILIN and S. P. YATSENKO, Thermodynamics properties of liquid solutions and state diagram of gallium-thallium system, *Zh. Fiz. Khim.* **41**, vyp. 4, 876 (1967).
- L. A. DUDINA, V. I. IRZHAK and N. S. ENIKOLOPYAN, On the thermodynamics of polymerization processes, *Dokl. Akad. Nauk SSSR* **173**(5), 1121 (1967).
- L. G. GAL'PERIN, YU. V. KUZNETSOV, S. L. MAGRACHEV and G. P. YASNIKOV, The polytropic exponent of moist gas compression, *Inzh.-Fiz. Zh.* **12**(6), 817 (1967).
- N. I. KORNILOV, N. G. ILYUSHCHENKO, B. G. ROSSOKHIN and G. I. BELYAIEVA, Study of the thermodynamics of beryllium-nickel system by the method of electromotive forces, *Trudy In-t Elektrokhim. (Ural'sk. Filial Akad. Nauk SSSR)* vyp. 9, 93 (1966).
- YU. P. MASLOV, A. A. ANTONOV, P. G. MASLOV, V. A. KOZLOVA and A. S. STEPANOV, On the thermodynamics of some hydrocarbons, *Zh. Fiz. Khim.* **41**, vyp. 5, 1001 (1967).
- V. A. MIKHAILOV, S. K. KHARCHENKO and L. I. PONOMAREVA, Thermodynamic investigation of ternary systems water-benzene-three- κ -butyl phosphate and water-chloroform-three- κ -butylphosphate, *Zh. Fiz. Khim.* **41**, vyp. 4, 822 (1967).
- V. B. NESTERENKO, A. V. ZINOV'EV and M. A. BAZHIN, Thermodynamic properties of gaseous dissociated system Al_2Cl_6 $2AlCl_3$, *Izv. Akad. Nauk. BSSR, ser Fiz.-Tekhn. Nauk* No. 2, 32 (1967).
- P. A. NOVIKOV and B. M. SMOL'SKII, A note on mass-transfer effect on heat transfer in sublimation in rarefied gas Couette flow, *Inzh.-Fiz. Zh.* **12**(4), 433 (1967).
- L. P. RUZINOV, G. N. VESELAYA, G. N. DUBININ and E. A. RUZINOVA, Comparative thermodynamic estimation of diffusion saturation from gaseous and vapour phase, *Izv. Akad. Nauk SSSR, Neorg. Materialy* **3**(2), 410 (1967).

G. L. STAROBINES and T. L. ZALEVSKAYA, On the thermodynamics of anion exchange, *Zh. Fiz. Khim.* **41**, vyp. 5, 989 (1967).

HEAT CONDUCTION

- A. K. ABRAS-ZADE, A. V. GYLMANOV and S. K. AKHUNDOV, Dependence of the reduced heat-conductivity on the reduced temperature along the saturation line. Proc. of the 7th Conf. on Liquid State Physics, June 1965, *Ukr. Fiz. Zh.* **12**(1), 30 (1967).
- L. YA. AINOLA, Variation principles for transient heat conduction problems, *Inzh.-Fiz. Zh.* **12**(4), 465 (1967).
- YU. N. ANDREEV and V. M. ORKIN, Calculation of heating of a high mass cylinder by a trial and error method, *Inzh.-Fiz. Zh.* **12**(6), 736 (1967).
- M. I. DUBOVICH, Method of solving the heat conduction problem for simple multilayer bodies, *Inzh.-Fiz. Zh.* **12**(6), 750 (1967).
- G. N. DUL'NEV and YU. P. ZARICHNYAK, Thermal conductivity of multi-component mixtures, *Inzh.-Fiz. Zh.* **12**(4), 419 (1967).
- M. A. GLINKOV and V. L. GUSOVSKII, Approximate analytical method of solution of some complex heat-conductivity problems (in industrial furnaces), *Izv. Vyssh. Ucheb. Zaved., Chern. Metallurg.* No. 1, 179 (1967).
- O. T. IL'CHENKO and V. E. PROKOF'EV, On the accuracy of prescribing boundary resistance when solving some unsteady heat conduction problems in networks with third-kind boundary conditions, *Inzh.-Fiz. Zh.* **12**(6), 758 (1967).
- V. V. IVANOV, Heat-conductivity of solids heated by simultaneous convection and radiation. *Izv. Vyssh. Ucheb. Zaved., Energ.* No. 5, 144 (1967).
- V. V. IVANOV, On the solution of a non-linear heat-conduction equation by the decomposition method with a small parameter. *Izv. Akad. Nauk SSSR, Energ. Transport* No. 2, 170 (1967).
- V. V. IVANOV, Temperature field in a solid under variable conditions of heat transfer on its surface, *Izv. Vyssh. Ucheb. Zaved., Aviats. Tekhnika* No. 1, 133 (1967).
- I. V. KIRILLOVA, I. L. KOROBOVA and B. YA. MOIZHES, Calculation of thermal conductivity of a two-dimensional crystal lattice, *Fiz. Tverdogo Tela* **9**, vyp. 5, 1281 (1967).
- YA. A. KUMCHENKO and V. F. PRISNYAKOV, Solution of some heat and mass transfer problems by the impedance method, *Inzh.-Fiz. Zh.* **12**(5), 626 (1967).
- I. S. LYUBCHENKO, Effective estimation of approximate solution of the boundary-value problem for a non-linear steady heat-conduction equation, *Issledov. Teor. Plastin Obolochek*, sb. 4, 506 (1966).
- I. S. LYUBCHENKO, On the approximate solution of a non-linear steady heat-conduction problem with reference to noncooled gas turbine blades, *Investigations on Plates and Envelopes Theory*, sb. 4, 495 (1966).
- I. G. MEEROVICH, Temperature field in multilayer systems with variable thermal properties, *Inzh.-Fiz. Zh.* **12**(4), 484 (1967).
- V. P. MERZLYAKOV, Axisymmetric problem on thermoelasticity for a hollow finite cylinder, *Inzh.-Fiz. Zh.* **12**(5), 620 (1967).

L. P. MEZHVOV-DEGLIN, Influence of sizes on thermal conductivity of crystalline He⁴ samples, *Zh. Eksper. Teor. Fiz.* **52**, vyp. 4, 866 (1967).

- R. S. MIKHAL'CHENKO, A. G. GERZHIN, N. P. PERSHIN and L. V. KLIPACH, Experimental study of thermal properties of multilayer insulation, *Inzh.-Fiz. Zh.* **12**(4), 426 (1967).
- D. N. MIRLIN and L. A. SMIRNOV, Thermal conductivity of additively coloured crystals KCL, *Fiz. Tverdogo Tela* **9**, vyp. 6, 1843 (1967).
- V. N. PED and I. B. SIMONENKO, Steady-state heat conduction problem in a layer under conditions of heat transfer at the boundary, *Prinkl. Mat. Mekh.* **31**, vyp. 2, 320 (1967).
- SH. N. PLYAT, Space temperature field of a discretely growing semi-infinite rod with heat generation, *Inzh.-Fiz. Zh.* **12**(4), 476 (1967).
- V. S. RAVIN, On the effective boundary conditions in problems of steady-state heat conduction, *Inzh.-Fiz. Zh.* **12**(4), 540 (1967).
- E. G. SHVIDKOVSKII and V. M. ZAKHAROV, Heat conduction of sodium chloride at helium temperatures, *Dokl. Akad. Nauk SSSR* **173**(4), 812 (1967).
- I. A. SMIRNOV, Thermal conductivity of NaF single crystals with K, Li and Cl admixtures, *Fiz. Tverdogo Tela* **9**, vyp. 6, 1845 (1967).
- P. P. SMYSHLYAEV, Approximate solutions of the heat conduction equation for a two-layer slab with sublimating external surface, *Inzh.-Fiz. Zh.* **12**(4), 451 (1967).
- P. V. TSOI and O. B. KIANOVSKII, A problem of non-stationary heat transfer of a two-plane body system in the presence of internal sources, *Trudy Tadzh. Politekh. In-t* vyp. 1, 85 (1966).
- B. A. VASIL'EV, Solution of some steady-state heat conduction problems with the third-kind boundary condition for eccentric cylinders, *Inzh.-Fiz. Zh.* **12**(6), 742 (1967).
- YU. V. VIDIN, On a temperature field of an infinite plate with a variable heat-transfer coefficient, *Izv. Vyssh. Ucheb. Zaved. Aviats. Tekhnika* No. 1, 65 (1967).
- P. P. YUSHKOV and P. G. GEINTS, On the time of plate freezing, *Inzh.-Fiz. Zh.* **12**(4), 460 (1967).
- V. M. ZAKHAROV, Heat-conductivity of potassium chloride at helium temperatures, *Fiz. Tverdogo Tela* **9**, vyp. 5, 1526 (1967).
- A. A. ZGURA and N. YA. TAITs, Determination of the contact thermal resistance with unsteady heat transfer between joined bodies, *Inzh.-Fiz. Zh.* **12**(6), 731 (1967).

CONVECTIVE HEAT TRANSFER

- N. P. BELIK and D. A. KOSAREV, Steady heat transfer through a finned wall with radiation with variable thermal conductivity of the wall material, *Izv. Vyssh. Ucheb. Zaved., Aviats. Tekhnika* No. 1, 61 (1967).
- YU. T. BURBULYA, M. K. BOLOGA and I. A. KOZHUKHAR, Heat transfer from a flat plate in natural convection of a non-conducting liquid in an electric field, *Elektron. Obrabotka Materialov* No. 1, 57 (1966).
- B. M. GALITSEISKII, G. A. DREITSER, V. G. IZOSIMOV, E. K. KALININ and V. K. KOSHKIN, Experimental investigation of unsteady-state heat transfer in a tube with varying gas consumption, *Izv. Akad. Nauk BSSR, ser. Fiz.-Tekhn. Nauk* No. 2, 56 (1967).

- B. M. GALITSEISKII, G. A. DREITSER, V. G. IZOSIMOV, E. K. KALININ and V. K. KOSHKIN, Experimental investigation of unsteady-state heat transfer in a tube with a heat flux change, *Izv. Akad. Nauk BSSR, Ser. Fiz.-Tekhn. Nauk* No. 2, 65 (1967).
- N. L. KAFENGAUZ, Peculiarities of heat transfer to a turbulent liquid flow at supercritical pressure, *Dokl. Akad. Nauk SSSR* 173(3), 557 (1967).
- E. K. KALININ, Unsteady-state convective heat transfer and hydrodynamics in channels, *Izv. Akad. Nauk BSSR, ser. Fiz.-Tekhn. Nauk* No. 2, 77 (1967).
- V. A. MAKOVSKII, Analysis of heat transfer in systems with distributed parameters by the method of dynamic characteristics, *Izv. Vyssh. Ucheb. Zaved., Chern. Metallurg.* No. 11, 147 (1966).
- V. K. MIGAL, Effect of angular regions of channels on friction and heat transfer, *Teplotenergetika* No. 6, 63 (1967).
- Z. L. MIROPOL'SKII and V. YU. PIKUS, Local coefficients of heat transfer in curvilinear channels, *Izv. Akad. Nauk BSSR, ser. Fiz.-Tekhn. Nauk* No. 1, 58 (1967).
- I. P. PELEPEICHENKO and D. F. SIMBIRSKII, Instantaneous heat transfer from thin wires in a transient gas flow, *Samoletostroenie Tekhnika Vozd. Flota*, vyp. 5, 82 (1966).
- K. N. SEMENOV, M. K. BOLOGA and V. K. VIDRASHKO, Effect of an electrical field on convective heat transfer in a nonpolar liquid, *Elektron. Obrabotka Materialov* No. 2, 48 (1966).
- M. M. SOROKIN and A. V. CHECHETKIN, Heat transfer in free convection pool boiling of vacuum oil at low pressures, *Khim. Neft. Mashinostr.* No. 4, 21 (1967).
- A. A. TER-OGANES'YANTS, On the dimensionless relation of convective heat transfer of a gaseous flow at large temperature drive, *Izv. Vyssh. Ucheb. Zaved., Energ.* No. 5, 139 (1967).
- YU. V. VIDIN, Transient temperature distribution in a slab with simultaneous thermal radiation and convection, *Inzh.-Fiz. Zh.* 12(5), 669 (1967).
- A. A. ZBOROVSKII and E. I. RABINOVICH, Calculation of natural convection in the liquid core of a steel ingot, *Inzh.-Fiz. Zh.* 12(6), 813 (1967).
- equilibrium flows, *Izv. Akad. Nauk SSSR, Energet. Transport* No. 2, 140 (1967).
- E. N. SINITSYN and V. P. SKRIPOV, Experimental investigation of the kinetics of boiling up of superheated liquid (Proc. of the 7th Conf. on Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* 12(1), 99 (1967).
- V. P. SKRIPOV and YU. D. KOLPAKOV, Correlation length and mass transfer near the critical point of pure substance (Proc. of the 7th Conf. on Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* 12(1), 118 (1967).
- A. P. VERKHOLA and V. M. LYSYANSKII, Experimental determination of a coefficient of mass transfer from a surface of a porous body to liquid (for example in sugar industry), *Pishchev. Prom. (Kiev)* 4, 100 (1966).

TRANSFER PROCESSES INVOLVING CHEMICAL CONVERSIONS AND COMBUSTION

TRANSFER PROCESS INVOLVING PHASE CONVERSIONS

- S. A. ASHUROV, Temperature of burning of natural gas, *Gazovaya Prom.* No. 6, 38 (1967).
- S. K. ASLANOV, Criterion of turbulent combustion instability (investigation of combustion in engine chambers), *Fiz. Goren. Vzryva* No. 4, 139 (1966).
- E. F. AVDEEV, F. ALIEV and YU. V. LAPIN, Turbulent mixing of two semi-infinite flows of reacting gases (combustion theory), *Trudy LPI (Leningr. Politekh. In-t)*, No. 265, 65 (1966).
- B. I. KHAIKIN and A. G. MERZHANOV, On substance burning with a solid reaction bed, *Dokl. Akad. Nauk SSSR* 173(6), 1382 (1967).
- N. V. LAVROV and S. G. BRATCHIKOV, On peculiarities of burning and heat transfer in agglomeration under conditions of air-water emulsion leakage, *Dokl. Akad. Nauk SSSR* 173(4), 880 (1967).
- V. I. MUKOSEI, L. M. PIS'MEN and YU. I. KHARKATS, On steady-state conditions of chemical reactors with internal, external and combined heat transfer, *Inzh.-Fiz. Zh.* 12(6), 703 (1967).
- V. E. NAKORYAKOV, Combustion of liquid fuel drop in an acoustic field, *Inzh.-Fiz. Zh.* 12(5), 650 (1967).
- V. B. NESTERENKO, B. E. TVERKOVKIN and A. B. VERZHINSKAYA, Heat transfer in a chemically reacting equilibrium system $N_2O_4 \rightleftharpoons 2NO_2$, *Izv. Akad. Nauk BSSR, ser. Fiz.-Tekhn. Nauk* No. 2, 42 (1967).
- V. B. NESTERENKO, B. E. TVERKOVKIN and A. B. VERZHINSKAYA, Heat transfer in a chemically reacting system $2NO_2 \rightleftharpoons 2NO + O_2$ including the kinetics of the chemical reaction, *Izv. Akad. Nauk BSSR, ser. Fiz.-Tekhn. Nauk* No. 2, 50 (1967).
- L. S. PIORO, V. I. BABICH, N. A. PANKOVA, M. I. KOZ'MIN, T. V. AIZINA and E. A. ENGVER, A burner for contact burning, *Steklo Keram.* No. 6, 4 (1967).
- V. B. RUTOVSKII, Gas dynamic calculation of a diffusive combustion flame in a co-current flow, *Izv. Vyssh. Ucheb. Zaved., Aviat. Tekhn.* No. 1, 78 (1967).
- YU. P. RYAZANTSEV and TS. V. VAINSHTEIN, Laws governing sulphurous and slightly sulphurous petroleum granulated coke burning in external kinetic region, *Trudy (Groz. Neft. NII "Groz. NII")*, vyp. 20, 75 (1966).
- G. KH. GATIATULLIN and S. N. SHORIN, Simplified determination of the multiplicity of boiling liquid circulation in closed loops, *Khim. Neft. Mashinostr.* No. 5, 18 (1967).
- M. N. IVANOVSKII, V. I. SUBBOTIN and YU. V. MILOVANOV, Heat transfer in rain-like condensation of mercury vapour, *Teplotenergetika* No. 6, 81 (1967).
- A. P. KLIMENKO and V. I. KOZITSKII, Experimental investigation of boiling heat transfer in *n*-butane, *Gazov. Prom.*, No. 6, 46 (1967).
- S. S. KUTATELADZE, N. V. VALUKINA and I. I. GOGONIN, Dependence of the critical heat flow upon the heater size with saturated liquid boiling under free convection, *Inzh.-Fiz. Zh.* 12(5), 569 (1967).
- E. I. NEVSTRUEVA and G. M. DVORINA, Experimental investigation of steam content in steamwater non-

MASS TRANSFER

- E. P. AGEEV, G. M. PANCHENKOV and A. A. KORYTIN, Thermal diffusion in vapour of propanol isomers, *Zh. Fiz. Khim.* **41**, vyp. 5, 1047 (1967).
- E. P. AGEEV, G. M. PANCHENKOV and V. A. SPIVAK, Thermal diffusion in vapours of binary mixtures of butanole isomers, *Zh. Fiz. Khim.* **41**, vyp. 5, 1155 (1967).
- R. Z. ALIMOV, Convective mass transfer with transpiration cooling of strongly heated surface by vortex two-phase flow, *Inzh.-Fiz. Zh.* **12**(5), 559 (1967).
- S. I. ANISIMOV and T. L. PEREL'MAN, A non-linear diffusion equation for a critical region (Proc. of the 7th Conf. on Liquid State Physics, June 1965). *Ukr. Fiz. Zh.* **12**, No. 1, 105 (1967).
- V. V. DIL'MAN and B. B. BRANDT, Diffusion flow to a moving drop, *Inzh.-Fiz. Zh.* **12**(5), 662 (1967).
- M. SH. GITERMAN, On isothermal diffusion in binary mixtures (Proc. of the 7th Conf. on Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* **12**(1), 134 (1967).
- V. G. KOMARENKO, V. G. MANZHELII and A. V. RADTSIG, Temperature dependence of methane diffusion in propanol (Proc. of the 7th Conf. on Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* **12**(1), 47 (1967).
- N. P. KOVALENKO, On a diffusion theory in solutions near the critical state (Proc. of the 7th Conf. on Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* **12**(1), 111 (1967).
- M. M. KUSAKOV, D. N. NEKRASOV and E. V. SEKUROVA, Experimental investigation of thermal diffusion coefficients of polynzobutylene in heptene, *Vysokomolek. Soedineniya, ser. B.* **9**(2), 94 (1967).
- I. V. MATYASH, V. V. MANK, M. G. STARKOV and V. G. PITSYUGA, On the diffusion mechanism of gases into simple liquids (Proc. of the 7th Conf. on Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* **12**(1), 52 (1967).
- YU. G. PRAZHENNIK and A. I. STEZHENSKII, Account for fugacity in calculating equilibrium gas-mixture composition, *Inzh.-Fiz. Zh.* **12**(5), 615 (1967).
- A. P. VERKHOLA and V. M. LYSYANSKII, Determination of diffusion coefficient of sugar in capillary-porous bodies, *Pishchev. Prom. (Kiev)* **4**, 94 (1966).
- V. I. YUDOVICH, Stability of convective flows, *Prikl. Mat. Mekhan.* **31**, vyp. 2, 272 (1967).
- laminar boundary layer in an axisymmetric swirling flow, *Trudy LPI (Leningr. Politekhn. In-t)*, No. 265, 7 (1966).
- A. A. BOKSERMAN and B. V. SHALIMOV, On the cyclic effect upon oil-bearing beds with double porosity with water displacement of oil, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 168 (1967).
- YU. A. BUEVICH, On a theory of simultaneous filtration of immiscible fluids in a gravity field, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2 (1967), 165 (1967).
- I. A. CHARNYI, Inflow to wells in a bed with variable permeability and thickness, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2 (1967), 180 (1967).
- YU. A. DEM'YANOV, The heat-conduction effect on the formation of gas flows, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 21 (1967).
- L. A. DORFMAN, Effect of a centripetal radial injection on the flow and heat transfer near a rotating screened disc, *Inzh.-Fiz. Zh.* **12**(6), 788 (1967).
- L. M. GADZHIEV, Non-stationary gas filtration in a circular bed of variable power with a non-linear resistance law, *Gaz. Prom.* No. 6, 1 (1967).
- O. V. GOLUBEVA and A. YA. SHPILEVOI, On plane filtration in media with intermittent permeability along curves of the second order, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 174 (1967).
- A. V. IVANOV, The shock wave structure in air at Mach numbers from 2.6 to 6, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 152 (1967).
- A. A. IVASHKEVICH, The effect of the neighbouring vapour generating sections of the duct on the critical heat flux in forced liquid flows, *Inzh.-Fiz. Zh.* **12**(4), 535 (1967).
- S. M. KAPUSTYANSKII, One-parametric solution of laminar boundary layer equations in a gas flow of high velocities at Prandtl number other than unity, *Trudy LPI (Leningr. Politekhn. In-t)* No. 265, 24 (1966).
- V. P. KARLIKOV and G. I. SHOLOMOVICH, On the determination of the resistance coefficient of symmetric bodies with a zero cavitation number, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 88 (1967).
- YU. E. KARYAKIN, Non-stationary similarity problems of a three-dimensional boundary layer, *Trudy LPI (Leningr. Politekhn. In-t)* No. 265, 16 (1966).
- D. E. KHEISIN, Radical oscillations of an elastic sphere in compressible fluid, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 79 (1967).
- B. A. KOLOVANDIN, On turbulent flow of a conducting fluid with a free surface, *Trudy LPI (Leningr. Politekhn. In-t)* No. 265, 75 (1966).
- N. V. KRIVTSOVA, A laminar boundary layer in equilibrium-dissociated gas, *Trudy LPI (Leningr. Politekhn. In-t)* No. 265, 35 (1966).
- O. M. KUZNETSOV and S. G. POPOV, Vortexes in a plane gas dynamic wake behind a cylinder, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 112 (1967).
- V. B. LEMBERSKII and E. M. KHABAKHPASHEVA, Experimental study of laminar-turbulent transition for pure-viscous fluid flow, *Inzh.-Fiz. Zh.* **12**(4), 440 (1967).
- E. G. LEONOV, YU. P. FINAT'EV and B. S. FLATOV, Effect of a surface-active agent hydraulic resistance and flow structure of gas-liquid dispersion in a vertical annulus, *Inzh.-Fiz. Zh.* **12**(5), 576 (1967).

AERODYNAMICS

- V. E. AEROV and B. A. KOLOVANDIN, On one problem of stability of second-order Stokes fluid in flat channel, *Inzh.-Fiz. Zh.* **12**(6), 820 (1967).
- O. M. AL'CHIKOVA, KH. A. AKHMEDZHANOV, V. G. BEN'KOVSKII and V. G. GLADOV, On the problem of gas dispersion under the action of the surrounding medium, *Inzh.-Fiz. Zh.* **12**(6), 799 (1967).
- S. K. BETYAEV, On the penetration of a plate in half-plane of a supersonic flow, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 33 (1967).
- I. BIIBOSUNOV and N. KARYBEKOV, Solution of the Chaplygin's equation in a plane-parallel subsonic flow with a plane shock wave, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 116 (1967).
- V. V. BOGDANOVA, The approximate calculation method of a

- E. G. LEONOV, YU. P. FINAT'EV and B. S. FILATOV, On the effect of rotation of an internal cylinder upon the equilibrium of spherical particles in turbulent ascending flow in an annular duct, *Inzh.-Fiz. Zh.* **12**(6), 777 (1967).
- YU. B. LIFSHITS and O. S. RYZHOV, On transonic flow around bodies of revolution with an internal flow system, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 114 (1967).
- L. M. SIMUNI, Effect of a nonisothermal flow on the detachment in a plane diffuser, *Trudy LPI (Leningr. Politekh. In-t)* No. 256, 21 (1966).
- L. F. LOBANOVA, Numerical solution of a problem of a boundary layer on a nonconducting surface of a magneto-hydrodynamic channel, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 3 (1967).
- YU. P. LUN'KIN and S. B. KOLESKO, A laminar boundary layer on a plate in the presence of oscillatory and dissociation relaxation, *Trudy LPI (Leningr. Politekh. In-t)*, No. 265, 46 (1966).
- G. I. MAIKAPAR, On the optimal shape of carrying bodies at hypersonic velocities, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 38 (1967).
- A. V. MARTYNOV and V. M. BRODYANSKII, Investigation of the vortex flow parameters inside Ranque-Hilsch tube, *Inzh.-Fiz. Zh.* **12**(5), 639 (1967).
- L. M. MASEEV, Secondary instability of a boundary layer, *Trudy Mosk. In-t Inzhenerov Zh.-d. Transporta* vyp. 230, 190 (1966).
- L. M. MASEEV, Stability of flow in a wake behind a thin flat plate parallel to an infinite flow, *Trudy Mosk. In-t Inzhenerov Zh.-d. Transporta* vyp. 230, 198 (1966).
- V. B. MINOSTSEV, Calculation method of a supersonic three-dimension flow around smooth bodies, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 126 (1967).
- YU. A. PANOV and A. I. SHVETS, Study of the structure of a flow behind a cone in a supersonic flow, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 140 (1967).
- B. M. PAVLOV, On the calculation of a supersonic viscous flow near the stagnation line of a blunt body, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 134 (1967).
- V. I. POLEZHAEV, Numerical solution of a system of two-dimensional unsteady Navier-Stokes equations for compressible gas in a closed region, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 103 (1967).
- I. POP, Unsteady motion of liquid near a disc rotating in a magnetic field, *Inzh.-Fiz. Zh.* **12**(6), 793 (1967).
- V. V. PROKOF'EV, Reflection of a shock wave from a right angle face, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 17 (1967).
- KH. KH. RAKHIMOV and N. A. SLEZKIN, On a slip boundary layer flow past a wall, *Izv. Akad. Nauk Tadzh. SSR, Otd. Fiz.-Tekhn. Khim. Nauk* No. 3, 22 (1966).
- YU. M. RUDOV and V. N. USKOV, Determination of the parameters of a supersonic gas jet incident upon an inclined flat obstacle, *Inzh.-Fiz. Zh.* **12**(5), 633 (1967).
- V. G. SELIVANOV and S. D. FROLOV, On flow of gas-liquid mixture in geometrical nozzle with constant phase-velocity difference, *Inzh.-Fiz. Zh.* **12**(5), 645 (1967).
- V. V. SHAPOVALOV, Heat transfer in laminar flow of incompressible liquid in a circular tube, *Inzh.-Fiz. Zh.* **12**(5), 672 (1967).
- V. K. SHCHUKIN, Hydraulic resistance of rotating tubes, *Inzh.-Fiz. Zh.* **12**(6), 782 (1967).
- G. M. SHEFTER, On equations of short waves in viscous heat conducting gas, *Dokl. Akad. Nauk SSSR* **173**(4), 785 (1967).
- N. S. SHTEIN, On stability of laminar flow of a viscous liquid, *Dokl. Akad. Nauk BSSR* **11**(4), 324 (1967).
- YA. A. SIROTKIN, Equations of averaged axisymmetric eddy flow of an ideal incompressible fluid, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 94 (1967).
- V. D. SOVERSHENNYI, Engineering formulae for friction on permeable surface in a turbulent gas flow, *Inzh.-Fiz. Zh.* **12**(4), 538 (1967).
- V. I. STOLBETSOV, On large oscillations of fluid in a straight round cylinder, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 59 (1967).
- V. N. SUKHOV, Approximate determination method of oscillation frequencies of fluid in rotation cavities, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 72 (1967).
- A. G. TERENT'EV, Flow around a cascade with developed cavitation, *Izv. Akad. Nauk SSSR, Mekhan. Zhidkosti Gaza* No. 2, 52 (1967).
- M. P. TETERIN, Study of gas flow in the area of interaction between a shock wave and a cylinder surface at high supersonic speeds, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 143 (1967).
- M. V. TRET'YAKOV, On construction of a liquid flow around a solid with an air interlayer, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 67 (1967).
- F. S. VORONIN, Experimental investigation of a hypersonic rarefied gas flow around a sphere, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 148 (1967).
- Z. D. ZAPRYANOV, Study of supersonic flow around axisymmetric bodies of a different shape, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 121 (1967).

RHEOLOGY

- G. M. BARTENEV, V. V. LAVRENT'EV and N. A. KONSTANTINOVA, Effect of slipping velocity on actual contact area and friction force of high-elastic materials, *Mekh. Polimer. (Akad. Nauk Latv. SSR)* No. 2, 309 (1967).
- Calculation of rheological properties of clay grounds in designing support constructions (Materials of All-Union Co-ordinated Conference, Leningrad, May 1966), *Gidrotekhn. Stroitel'stvo* No. 12, 51 (1966).
- N. N. DOLININA, Effect of rheological factors on strained state of curved multilayer rod, *Inzh.-Fiz. Zh.* **12**(6), 769 (1967).
- V. A. GORODTSOV and A. I. LEONOV, On linear instability of plane-parallel elastic-viscous Couette flow, *Prikl. Mat. Mekh.* **31**, vyp. 2, 289 (1967).
- YU. I. KOIFMAN and A. SH. LANGLEIBEN, Calculation of multilayer cylinders and discs from high-elastic polymeric materials, *Mekh. Polimer. (Akad. Nauk Latv. SSR)* No. 2, 318 (1967).
- A. G. KOSTORNOV and A. I. RAICHENKO, Rheological investigations of plastified powder charge, report no. 3. Laws of pressing of plastified powder charge, *Poroshkovaya Metallurg.* No. 12, 37 (1966).

- V. G. LITVINOV, Extension of a viscous-elastic jet, *Mekh. Polimer. (Akad. Nauk Latv. SSR)* No. 2, 326 (1967).
- V. A. LOMAKIN and M. A. KOLTUNOV, Simulation of deformation processes of nonlinear visco-elastic media, *Mekh. Polymer. (Akad. Nauk Latv. SSR)* No. 2, 221 (1967).
- V. A. LOMAKIN and L. N. SAVOVA, Problems of straining of microheterogeneous visco-elastic bodies and a momentum theory of viscoelasticity, *Mekh. Polimer. (Akad. Nauk Latv. SSR)* No. 2, 213 (1967).
- E. G. LYUBESHKINA, R. V. TORNER and V. E. GUL, Investigation of melt viscosity of polypropylene modified by lignin by capillary viscometry, *Mekh. Polimer. (Akad. Nauk Latv. SSR)* No. 2, 200 (1967).
- E. G. LYUBESHKINA, R. V. TORNER and V. E. GUL, Rheological properties of modified polypropylene, *Plast. Massy* No. 5, 60 (1967).
- V. V. MOSKVIN, On a simple possibility of non-linearity estimation in visco-elastic media, *Mekh. Polimer. (Akad. Nauk Latv. SSR)* No. 2, 207 (1967).
- V. P. TAMUZH and YU. O. YANSON, Thermodynamic analysis of equations of linear elastic-viscous anisotropic body, *Mekh. Polimer. (Akad. Nauk Latv. SSR)* No. 2, 227 (1967).
- E. E. VIRLICH, Durability of adhesion bond polymer-metal in water, *Plast. Massy* No. 5, 65 (1967).

DRYING PROCESSES

- E. A. BOGDANOV and V. I. POPOV, Drying of malt by combustion products of natural gas, *Fermentn. Spirt. Prom.* No. 8, 9 (1966).
- V. BUKHANTSOV and A. STARODUBTSEVA, Effect of moisture and drying conditions on grease quality of maize germs, *Mukomol'no-Elevatorm. Prom.* No. 12, 9 (1966).
- I. K. CHERNYSHEVSKII, Economy of the steam pressure increase used in contact driers, *Izv. Vyssh. Ucheb. Zaved., Energ.* No. 5, 94 (1967).
- L. L. DOBROSRDOV, V. M. KOROLEV and V. G. KOLOTILOV, Convective drying of clothes, *Tekstil'n Prom.* No. 2, 74 (1967).
- S. V. DONSKOV, On the motion of a heat transfer agent and calculation of heat-transfer in shaft grain driers, *Izv. Vyssh. Ucheb. Zaved., Energ.* No. 5, 111 (1967).
- V. D'YACHENKO, New driers of onion, *Sel'skokhoz.-Proizv. Nechern. Zony* No. 1, 13 (1967).
- A. S. GINZBURG and B. M. LYAKHOVITSKII, Method of sublimation drying of liquid materials in the form of blocks (on fruit and vegetable growing plants), *Konservn. Ovoschesushil'n. Prom.* No. 2, 6 (1967).
- M. I. KOLESNIK and K. K. POSTOLITSA, Improvement of drying of steel-pouring articles in a tunnel dryer, *Ogneupory* No. 5, 17 (1967).
- V. M. KOPEIKOVSKII, L. A. KASHEVATSKAYA, B. N. KIRIEVSKII and L. M. MOISEICHENKO, Effect of drying in a fluidized bed on the quality of soya beans and of the oil contained in them, *Maslo-Zhirovaya Prom.* No. 1, 11 (1967).
- V. V. KRYLOV and B. P. KAMOVNIKOV, On a coefficient of object amplification at sublimation drying, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Tekhnolog.* No. 2, 141 (1967).
- A. I. LEENSON and V. B. ZAPOROZHETS, Automatic control and regulation of a brick-cob brick drying in chamber dryers, *Stroit. Materialy* No. 5, 11 (1967).
- I. S. LISKER and I. G. OREKHOVA, Study of drying kinetics of dispersed materials according to the variation of their electrical resistance (From experiments carried out at *Agrophysical In-t*), *Vestn. S.-Kh. Nauki* No. 2, 116 (1967).
- I. P. OGLOBLINA and V. A. YAROVA, Study of a drying process in production of particularly pure silica by the chromatography method, *Trudy IREA (VNII Khim. Reaktivov i Osobo Chistykh Khim. Veshchestv)* vyp. 29 355 (1966).
- N. V. OZEROVA, V. G. ORLOVA and L. IVANOVA, Drying of polyvinilbutural in a pneumatic dryer, *Plast. Massy* No. 6, 17 (1967).
- A. G. PETRENKO, I. I. D'YACHKIN and L. A. NOVIKOVA, Kinetics of after-drying of particularly pure tobacco, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Tekhnolog.* No. 2, 106 (1967).
- I. F. PIKUS, On the relationship between the moisture content and the temperature of a dispersed material when drying in a fluidized bed, *Inzh.-Fiz. Zh.* 12(5), 605 (1967).
- I. F. PYATKOV, The choice of optimal conditions in an infrared radiation heating of grain, *Inzh.-Fiz. Zh.* 12(4), 526 (1967).
- B. M. RASPOPOV, Control of some transfer processes, *Inzh.-Fiz. Zh.* 12(4), 444 (1967).
- N. I. SHAPOVAL and M. P. KUPRIYANOV, Study of drying of yuft shoes counters by contact method, *Izv. Vyssh. Ucheb. Zaved., Tekhnolog. Legkoi Prom.* No. 1, 106 (1967).
- M. SKOROVAROV, From the history of grain drying engineering in prerevolutionary Russia, *Mukomol'no-Elevatorm. Prom.* No. 2, 23 (1966).
- N. V. TRUBITSYN and E. E. VDOVKIN, Application of impulse drying to sunflower seeds, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Tekhnolog.* No. 2, 57 (1967).
- G. F. VOZHVI, YU. B. TYUTYUNNIKOV and P. I. TANKOVSKII, Development of drying methods of enriched products in installations with a fluidized bed (preparation of coal for coking), *Sborn. Nauchn. Trudov Ukr. Nauchno-Issl. Uglekhim. In-t* vyp. 18, 57 (1966).
- V. D. V'YUSHIN and R. V. SHINGAREV, Effect of the heat transfer agent parameters and of the layer on the drying process of dyed cotton, *Izv. Vyssh. Ucheb. Zaved., Tekhnolog. Tekst. Prom.* No. 1, 119, 19 (1967).

KINETIC THEORY OF GASES AND LIQUIDS

- R. G. BARANTSEV and M. O. LUTSET, On boundary conditions for Navier-Stokes equations in rarefied gas, *Dokl. Akad. Nauk SSSR* 173(5), 1021 (1967).
- D. K. BELASHCHENKO, Transfer phenomena in systems with an intermediate type of bond (Proc. of the 7th Conf. on the Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* 12(1), 61 (1967).
- D. K. BELASHCHENKO, I. A. MAGIDSON and F. L. KONOPEL'KO, Transfer phenomena in liquid semiconductor systems TI-S (Proc. of the 7th Conf. on the Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* 12(1), 66 (1967).

- I. Z. FISHER, The state and problems of kinetic fluid theory (Proc. of the 7th Conf. on the Liquid State Physics, June 1965), *Ukr. Fiz. Zh.* 12(1), 3 (1967).
- P. N. KOSTYUKOVICH, On the determination of the filtration coefficient by test pumping, *Inzh.-Fiz. Zh.* 12(5), 657 (1967).
- S. D. LABINOV, N. V. BOIKO and N. K. BOLOTIN, A new calculation method of the constants entering into the Benedikt-Vebb-Rubin state equation for gaseous mixtures, *Zh. Fiz. Khim.* 41, vyp. 3, 618 (1967).
- V. A. PEREPUKHOV, Aerodynamic characteristics of sphere and blunted cone in a flow of highly rarefied gas, *Zh. Vychisl. Mat. Mat. Fiz.* 7(2), 444 (1967).
- E. M. SHAKHOV, Boltzmann's equation and momentum equations in curvilinear co-ordinates, *Izv. Akad. Nauk SSSR, Mekh. Zhidkosti Gaza* No. 2, 155 (1967).

THERMAL PROPERTIES

- A. K. ABAS-ZADE, A. A. GYLMANOV and S. K. AKHUNDOV, Reduced heat conduction as function of reduced temperatures and density, *Uch. Zap. (Azerb. Un-t), ser. Fiz.-Mat.* No. 4, 83 (1966).
- N. KH. ABRIKOSOV and V. F. BANKINA, Crystal lattice heat conductivity during the ordering process of compound $\text{Bi}_2\text{Te}_3\text{Se}_2$, *Izv. Akad. Nauk SSSR, Neorg. Mat.* 2(11), 2076 (1966).
- S. K. AKHUNDOV and A. A. CULMANOV, A bicalorimeter in the shape of a parallelepiped with a thin heat-insulating envelope, *Izv. Vyssh. Ucheb. Zaved., Priborostr.* No. 5, 126 (1967).
- R. V. BAKRADZE, A. E. BALANEVSKAYA, L. I. BERGER and A. P. NESYNOVA, Anisotropy of sulphur cadmium heat conductivity, *Trudy IREA (VNII Khim. Reaktivov Osobo Christykh Khim. Veshchestv)*, vyp. 29, 238 (1966).
- L. I. BERGER, I. K. SHCHUKINA and A. E. BALANEVSKAYA, Heat conductivity of a lattice of disordered InSb-InAs alloys, *Trudy IREA (VNII Khim. Reaktivov Osobo Christykh Khim. Veshchestv)*, vyp. 29, 246 (1966).
- M. YU. BORUKHOV, YU. Z. MAVASHEV and A. YA. BASHNYAK, Application of solar heating to measurement of a thermal diffusivity coefficient by regular regime method of the third kind, *Geliotekhnika* No. 6, 37 (1966).
- B. T. GEILIKMAN and V. Z. KRESIN, Thermal properties of anomalous superconductors, *Zh. Eksperim. Teoret. Fiz.* 5, vyp. 8, 271 (1967).
- A. A. KNIGA, N. I. KOKHANOVSKII and S. E. KHARIN, Heat conduction of some food products, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Tekhn.* No. 2, 161 (1967).
- B. A. MERISOV, V. I. KHOTKEVICH, G. M. ZLOBINTSEV and V. V. KOZINETS, Thermal conductivity of some metals and alloys in a temperature range 4.2–273°K, *Inzh.-Fiz. Zh.* 12(5), 675 (1967).
- U. I. MOISEENKO, Z. A. SOLOV'eva and V. A. KUTOLIN, Heat conduction of eclogite and dolerite at high temperature, *Dokl. Akad. Nauk SSSR* 173(3), 669 (1967).
- G. KH. MUKHAMEDZ'YANOV and A. G. USMANOV, Heat conduction of high saturated hydrocarbons, *Izv. Vyssh. Ucheb. Zaved., Neft i Gaz* No. 4, 76 (1967).
- M. I. PAK and V. A. OSIPOVA, A quasi-stationary method of complex determination of thermal properties of solids in a wide temperature range, *Teploenergetika* No. 6, 73 (1967).
- E. G. PETROV, Effect of heat conductivity on high-frequency properties of antiferromagnetics, *Fiz. Metallov Metallovedenie* 22, vyp. 5, 672 (1966).
- YU. L. RASTORGUEV and V. Z. GELLER, Investigation of heat conduction of low-boiling fractions of Mangyshlak petroleum, *Izv. Vyssh. Ucheb. Zaved., Neft Gaz* No. 4, 65 (1967).
- V. D. SUKHANOV and YU. N. TSOVKIN, Temperature dependence of thermal capacity of some titanium alloys, *Metallovedenie Termichesk. Obrabotka Metallov.* No. 6, 50 (1967).
- V. V. VLASOV and N. N. DOROGOV, Automatic installation for the determination of the thermal diffusivity coefficient of solid materials, *Izv. Vyssh. Ucheb. Zaved., Priborostr.* 10(5), 121 (1967).
- G. V. ZAKHAROVA, E. M. ERMAKOVA and S. E. BELYAEV, Mechanic properties of niobium and of its alloys at low temperatures, *Metallovedenie Term. Obrabotka Metallov.* No. 12, 34 (1966).

INSTALLATIONS AND MEASURING METHODS IN TRANSFER PROCESSES

- M. A. KAGANOV, On the unification of temperature characteristics of thermistors, *Izmerit. Tekhnika* No. 6, 37 (1967).
- V. G. KAISHAURI, On a particular method of measuring of temperature, *Trudy (Gruz. Politekhn. In-t)* No. 4, 215 (1966).
- V. V. KOROBKIN, A. A. MALYUTIN and M. YA. SHCHELEV, Interferometer for measurement of small changes of refraction index, *Pribory Tekhnika Eksperimenta* No. 2, 223 (1967).
- S. I. KOVALENKO and V. A. GODOVANNYI, Cryostat for electronographical investigations in the range 300–304.2°K, *Pribory Tekhn. Eksperimenta* No. 2, 235 (1967).
- A. A. KUKHARSKII, Attachment to the spectrophotometer VR-10 for the measurement of the reflection factor, *Pribory Tekhn. Eksperimenta* No. 2, 225 (1967).
- D. F. SIMBIRSKII, On the errors of the resistance thermometers due to thermal losses from the thermodetector through the holders, *Samoletostroenie Tekhn. Vozd. Flota* vyp. 5, 86 (1966).
- D. I. VASIL'EV, A simple installation for obtaining temperatures to 0.55°K by evacuation of helium-3, *Pribory Tekhn. Eksperimenta* No. 2, 243 (1967).
- KH. E. ZAIDEL and D. A. SAMOKOVLIISKII, Precision photogalvanometric resistance thermometer, *Izmer. Tekhnika* No. 6, 35 (1967).

TRANSFER PROCESSES AT HIGH TEMPERATURES AND IN PLASMA

- V. P. AKSENOV, L. M. BLINOV, V. P. MARIN, L. S. POLAK and V. S. SHCHIPACHEV, Superhigh frequency plasma-generator and some regions of its application in chemistry, in *Low-temperature Plasma*, Moscow (1967).
- I. T. ALAD'EV, I. G. KULAKOV, O. L. MAGDASIEV and A. P. SHATILOV, Investigation of electrodeless ring

- discharge in argon and in air, in *Low-temperature Plasma*, Moscow (1967).
- V. G. ANTIPOV, A. D. LEBEDEV and V. YA. SMOLYAKOV, Comparative characteristics of the two-chamber and the bilateral plasma-generators, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 65 (1967).
- G. S. ARAVIN, N. M. KUZNETSOV and YU. S. SAYASOV, Theoretical investigation methods of chemical and electronic processes of hardening in low-temperature plasma jets, in *Low-temperature Plasma*, Moscow (1967).
- E. I. ASINOVSKII and A. KIRILLIN, Experimental determination of the heat conductivity coefficient of argon plasma, in *Low-temperature Plasma*, Moscow (1967).
- T. V. BAZHENOVA, S. G. ZAITSEV, A. A. KON'KOV, YU. S. LOBASTOV, YU. V. MAKAROV, I. M. NABOKO, O. A. PREDVODITELEVA, E. V. SAMUILOV, A. S. PLESHANOV and E. K. CHEKALIN, Thermodynamic and gasdynamic parameters of low-temperature plasma, in *Low-temperature Plasma*, Moscow (1967).
- G. S. BELKIN, Processes on electrodes at high heat fluxes near the surface, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 126 (1967).
- L. M. BIBERMAN, Radiation transfer in spectral lines, in *Low-temperature Plasma*, Moscow (1967).
- A. V. BOLOTOV and E. D. DEGRAF, Experimental investigation of an electrical arc at vortex stabilization in an cylindrical channel of variable section, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 78 (1967).
- A. V. BOLOTOV, N. G. ZABUDKINA and L. A. TONKONOGAYA, On an axial temperature field in a plasma generator with vortex arc stabilization *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 74 (1967).
- V. B. BRODSKII and S. E. ZADIK, Measurements of coefficients of adhesion and recombination of electrons in gases by the method of penetrating radiations, in *Low-temperature Plasma*, Moscow (1967).
- V. K. BYKHOVSKII and E. E. NIKITIN, Recharging of multi-charged ions in collisions, in *Low-temperature Plasma*, Moscow (1967).
- G. YU. DAUTOV, M. F. ZHUKOV, A. S. KOROTEEV, V. YA. SMOLYAKOV, YU. I. SUKHININ and O. I. YAS'KO, Characteristics of operation of low-temperature plasma generators with vortex arc stabilization and the generalization of the results obtained, in *Low-temperature Plasma*, Moscow (1967).
- G. F. DRUKAREV and V. I. OCHKUR, Excitation of atoms by an electronic shock, in *Low-temperature Plasma*, Moscow (1967).
- G. A. DYUZHEV, A. M. MARTSINOVSKII, B. YA. MOIZHES, G. E. PIKUS and V. G. YUR'EV, Probe tests of a cesium low-voltage arc between two emissive electrodes, *Zh. Tekhn. Fiz.* 37, vyp. 6, 1155 (1967).
- E. N. EREMIN and D. T. IL'IN, Formation of acetylene and olefins from saturated hydrocarbons in jets of hydrogen and steam plasma, in *Low-temperature Plasma*, Moscow (1967).
- V. M. GOL'DFARB and A. M. UZDENOV, Temperature of electrons and heavy particles in an arc with axial argon flow, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 81 (1967).
- L. I. GRECHIKHIN, M. A. EL'AYASHEVICH and L. I. KISELEVSKII, Application of spectroscopic methods for the diagnostics of low-temperature plasma, in *Low-temperature Plasma*, Moscow (1967).
- YU. F. KASHKIN, Near-electrode voltage drops in the interaction between plasma and an electric field in an electric discharge tube, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tehn. Nauk* No. 3, vyp. 1, 129 (1967).
- R. R. KIKVIDZE, A. A. RUKHADZE and E. P. FETISOV, Excitation of electromagnetic waves in plasma of a solid in the presence of negative volt-ampere characteristic, *Fiz. Tverd. Tela* 9, vyp. 5, 1349 (1967).
- V. A. KIRILLIN, Investigation and application problems of low-temperature plasma (Opening speech), in *Low-temperature Plasma*, Moscow (1967).
- V. A. KIRILLIN, A. E. SHEINDLIN and V. YA. CHEKHOVSKOI, Enthalpy and heat capacity of some solids at very high temperatures, in *Investigations at High Temperatures*, Moscow (1967).
- V. S. KISEL, B. A. URYUKOV and V. I. YADROV, Investigation of a coaxial d.c. plasma-generator, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 47 (1967).
- V. N. KONDRAT'EV, E. E. NIKITIN and V. L. TAL'ROZE, Investigations of the elementary processes, in *Low-temperature Plasma*, Moscow (1967).
- A. E. KONOVALOV, Investigation of the heating of arc electrodes, burning in moving plasma, *Izv. Sib. Otd. Akad. SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 135 (1967).
- A. S. KOROTEEV, Experimental investigation of heat fluxes to electrodes of plasma-generators with vortex gaseous stabilization, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 85 (1967).
- I. I. KORSHAKEVICH, Time variation of current density along the cross-section of the channels of a.c. arc, *Izv. Sib. Otd. Akad. Nauk SSSR ser. Tekhn. Nauk* No. 3, vyp. 1, 112 (1967).
- G. I. KOZLOV, Calculation of the characteristics of a stabilized arc discharge, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 36 (1967).
- A. M. KRUCHININ, Some results of an investigation of an automatic current stabilization system for electrical arc gas heaters, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 15 (1967).
- L. P. KUDRIN, Estimation of conductivity of high-density low-temperature (v-F)- plasma, *Atomn. Energ.* 22, vyp. 4, 265 (1967).
- A. B. KUVALDIN and M. YA. SMELYANSKII, Recalculation method of voltage-current characteristics of an arc in laminar flow, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk*, vyp. 1, 31 (1967).
- A. D. LEBEDEV, G. I. MORTSEVA and V. YA. SMOLYAKOV, Arc voltage regulation in two-chamber plasma-generator by varying the relation of gas flow rates through vortex chambers, *Izv. Sib. Otdel. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 3, 60 (1967).
- A. D. LEBEDEV, G. I. MORTSEVA and V. YA. SMOLYAKOV, Characteristics of the aerodynamics of the one-chamber plasma-generator with vortex gaseous stabilization and its effect on arc behaviour, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 53 (1967).

- P. LIKUDIS, Experimental study of the transfer properties of electric conducting medium with turbulent flow in the presence of a magnetic field, in *Low-temperature Plasma*, Moscow (1967).
- O. N. MIRONOV, An experimental investigation of the voltage current characteristics of lithium plasma source, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 91 (1967).
- A. I. MOROZOV, E. V. ARTUSHKOV, L. S. SOLOV'EV and A. P. SHUBIN, Some properties of flows of conducting gas in a magnetic field, in *Low-temperature Plasma*, Moscow (1957).
- M. G. MOROZOV and V. N. IVANOV, Some results of an experimental investigation of the tension oscillations in the plasma-generator arc, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 98 (1967).
- A. V. NIKOLAEV and YU. I. GAGANOV, Experimental investigation of energy balance of discharge gap at plasma jet generation at the expense of electrode erosion, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 120 (1967).
- A. V. NIKOLAEV and I. D. KULAGIN, Investigation of the energy balance of a plasma generator with co-current jets, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 116 (1967).
- N. N. OGURTSOVA and I. V. PODMOSHENSKII, Capillary discharge as a plasma source for its quantitative investigations, in *Low-temperature Plasma*, Moscow (1967).
- L. S. POLAK, Chemical processes in low-temperature plasma, in *Low-temperature Plasma*, Moscow (1967).
- N. N. RYKALIN and N. D. KULAGIN, Plasma processes in metallurgy and material treatment, in *Low-temperature Plasma*, Moscow (1967).
- L. A. SAFRONOV and V. L. LEBSAK, On transient processes in an electric arc heater, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 102 (1967).
- S. N. SHORIN, V. N. TROITSKII and A. I. SMORODIN, Thermal characteristics of a plasma generator, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 41 (1967).
- A. I. SMORODIN, V. N. TROITSKII and S. N. SHORIN, An experimental investigation of a diffusion characteristic of a plasma jet, *Izv. Vyssh. Ucheb. Zaved., Energ.* No. 5, 132 (1967).
- A. S. SOKOLIK and E. S. SEMENOV, Investigation of plasma in laminar and turbulent hydrocarbon flames, in *Low-temperature Plasma*, Moscow (1967).
- G. P. STEL'MAKH and N. A. CHESNOKOV, On heat transfer of the flame jet flowing into a cylinder, *Inzh.-Fiz. Zh.* 12(6), 718 (1967).
- G. P. STEL'MAKH, N. A. CHESNOKOV and V. A. SOLOGUB, On the generalized characteristic of a sectional gas electric-arc heater with vortex stabilization, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 45 (1967).
- I. I. SUKSOV, Some problems of approximate calculation of characteristics of electrical arc gas heating, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 24 (1967).
- N. N. TUNITSKII and S. E. KUPRIYANOV, Excited particles and their role in elementary processes of radiative chemistry and plasma chemistry, in *Low-temperature Plasma*, Moscow (1967).
- V. N. VETLUTSKII, A. T. ONUFRIEV and V. G. SEVAST'YANENKO, Calculation of a cylindrical electric arc with energy transfer by radiation, in *Low-temperature Plasma*, Moscow (1967).
- KH. E. VILKHELM, Ohm's law for nonisometric plasma in the presence of thermal diffusion, direct transformation of heat energy into electric one and into fuel elements, *Inform. Byulleten*, vyp. 4 (57), 22 (1967).
- K. K. VORONIN, Z. M. GOL'DFARB, A. V. DONSKOI, S. V. DRESVIN, V. S. KLUBNIKIN and P. N. ROGOVTSOV, Some characteristics of high-frequency inductive gas discharge and the peculiarities of its application to the synthesis of dielectric crystals of high melting point in *Low-temperature plasma*, Moscow (1957).
- ZH. ZHEENBAEV, F. G. KARIKH, R. I. KONAVKO and V. S. ENGEL'SHT, Increasing of stability of plasma-generator operation, *Izv. Sib. Otd. Akad. Nauk SSSR, ser. Tekhn. Nauk* No. 3, vyp. 1, 70 (1967).

TRANSFER PROCESSES IN TECHNOLOGICAL APPARATUSES

- M. E. AEROV, T. A. BYSTROVA, K. P. BEREZHNYAYA and G. P. DAROVSKIKH, Investigation of a heat transfer process in the intertube space of a column-heat exchanger, *Khim. Neft. Mashinostr.* No. 4, 20 (1967).
- G. A. AKSEL'RUD, O. M. SHAPOVALOV and G. L. STAVROVSKII, Transient mass transfer in the system solid-liquid, *Inzh.-Fiz. Zh.* 12(4), 532 (1967).
- B. K. AMERIK, YA. G. MUTOVIN and M. F. SAPON, A distributing unit for supply of a gascatalyst flow in a regenerator of an installation with a fluidized bed of catalyst, *Trudy (Groz. Neft. NII "Groz. NII")*, vyp. 20, 232 (1966).
- I. M. ANOSHIN and YU. I. KOCHUBEI, Hydrodynamics of a two-phase flow of a rotary apparatus and its efficiency, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Tekhnolog.* No. 2, 148 (1967).
- N. V. ANTONISHIN and L. E. SIMCHENKO, Electric analogy of unsteady heat transfer in a dispersed system, *Inzh.-Fiz. Zh.* 12(5), 502 (1967).
- V. YU. ARISTOVICH and A. I. LEVIN, The calculation method of rectification of multi-component mixtures using electronic computers, *Khim. Prom.* No. 5, 382 (1967).
- YU. F. ARTAMONOV and A. M. NIKOLAEV, Investigation of the hydrodynamics and mass transfer in an apparatus with unilow contact installations, *Izv. Vyssh. Ucheb. Zaved., Khim. Khim. Tekhn.* 10(4), 470 (1967).
- V. S. AVDUEVSKII and K. I. MEDVEDEV, Effect of three-dimensional flow on the limiting pressure drop in an interaction between a boundary layer and shock waves, *Izv. Akad. Nauk SSSR, Mekhanika Zhidkosti Gaza* No. 2, 48 (1967).
- E. YA. BARSUKOV, YA. A. BOTNIKOV, V. K. ZHURAVLEV, D. M. SOSKIND and K. M. LIFSHTS, Entrainment of particles from a fluidized bed, *Khim. Tekhn. Topliv Masel* No. 6, 6 (1967).
- A. P. BASKAKOV, Effect of the discrete structure of a solid phase upon heat transfer in a fluidized bed, *Inzh.-Fiz. Zh.* 12(5), 599 (1967).

- G. YA. BERGER, On the exponential force law in a separation process, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Techn.* No. 2, 118 (1967).
- L. I. BLYAKHMAN and S. L. DAVYDOV, The hydrodynamics and mass transfer in rectification in columns with submerged packing, *Khim. Prom.* No. 3, 220 (1967).
- V. B. BOGOSLOVSKII and A. I. SHAMOLIN, Peculiarities of pseudo-binary equilibrium curves in the investigation of the kinetics of multicomponent mixture rectification, *Khim. Tekhn. Topliv Masel* No. 6, 3 (1967).
- I. A. BOKUN, Heat transfer between a pulsating bed of dispersed material and a heating surface for a conical-cylindrical apparatus with a lattice, *Izv. Akad. Nauk BSSR, ser. Fiz. Tekhn. Nauk* No. 2, 92 (1967).
- A. I. BRODOVICH, M. S. ZOLOTNITSKAYA, L. D. OGIENKO, V. A. IVANOVA and V. A. PORTYVENKO, Adsorption of benzol hydrocarbons in installations with a plane parallel packing, *Koks Khim.* No. 5, 31 (1967).
- O. L. BRUK, Calculation and investigation of multistage consecutive washing of precipitates, *Khim. Prom.* No. 3, 216 (1967).
- P. P. BUDNIKOV, Z. B. ENTIN and A. P. BELOV, On some technology problems of clinker roasting in a fluidized bed, *Zh. Prik. Khim.* **40**, vyp. 5, 943 (1967).
- V. M. DOLINSKII and B. S. KOVAL'SKII, The reduction factor of tube plates hardness of heat transfer arrangements in elastic-plastic deformations, *Khim. Neft. Mashinostr.* No. 4, 1 (1967).
- V. V. DVORNICHENKO, Critical conditions at adiabatic outflow of two-phase fluid from Laval nozzle, *Teplotenergetika* No. 6, 77 (1967).
- A. ERMAKOVA and M. G. SLIN'KO, Hydraulic resistance of a bed of activated carbon when an upstream gas-fluid flow passes through it, *Khim. Prom.* No. 3, 212 (1967).
- G. M. FAIKIN, Approximate model of a heat exchanger with distributed parameters, *Inzh.-Fiz. Zh.* **12(4)**, 491 (1967).
- N. V. FEDOROVICH and S. M. REPRINTSEVA, On the motion mechanism and heat transfer of disperse material in vertical channels, *Izv. Akad. Nauk BSSR, ser. Fiz.-Tekhn. Nauk* No. 2, 87 (1967).
- I. M. FEDOTKIN, S. M. KONSTANTINOV and G. S. DEMCHUK, Investigation of heat transfer in heating of mixtures of sugar solutions with air, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Technolog.* No. 2, 144 (1967).
- V. I. FILIPOV, Fractional condensation of phthalanhydride in installations of a heat exchanger type, *Sborn. Nauchn. Trudov (Ukr. Nauchno-Issled. Uglekhim. In-t)*, vyp. 18, 144 (1966).
- M. I. FRIDLAND, On mass transfer coefficients in fluidized systems, *Khim. Tekhn. Topliv Masel* No. 5, 7 (1967).
- N. I. GEL'PERIN, V. I. SAVCHENKO and V. Z. GRISHKO, Investigation of bromine desorption from brine in an apparatus with a fluidized bed of spherical packing, *Khim. Prom.* No. 5, 372 (1967).
- V. A. IVANOV, A. N. PLANOVSKII and A. A. BARAEV, An investigation of mass transfer in rectification of ethanol (methanol)-water mixtures in a column with sieve plates, *Khim. Prom.* No. 5, 385 (1967).
- A. N. IZMAILOVA, Experimental investigations of the operation of hydrocyclones with fine-disperse suspensions, *Khim. Neft. Mashinostr.* No. 5, 15 (1967).
- O. YA. KAZAKEVICH, Calculation of the temperature field in MHD-channel wall with section electrodes on ЭГЦА 9/60 integrator, *Inzh.-Fiz. Zh.* **12(5)**, 666 (1967).
- M. YA. KHAIT, An engineering method for calculating dynamic characteristics of casing-tube heaters, *Inzh.-Fiz. Zh.* **12(6)**, 722 (1967).
- V. N. KISEL'NIKOV, YU. I. KREINDEL, V. YA. DEMSHIN and S. G. SHIROKOV, Production of the granulated area in a fluidized bed, *Izv. Vyssh. Ucheb. Zaved., Khim. Khim. Tekhn.* No. 3, 354 (1967).
- V. V. KLIMENKO, L. A. AKOPYAN and A. N. PLANOVSKII, Particle velocity in a fluidized bed, *Inzh.-Fiz. Zh.* **12(4)**, 515 (1967).
- E. M. KOVALEV and V. S. FOKIN, Testing of an evaporator with natural circulation and an outward boiling area, *Khim. Neft. Mashinostr.* No. 5, 13 (1967).
- G. K. LEBEDYUK and YU. K. BARLYAEV, Method of a relative estimation of the fluid dispersion rate and its distribution along the apparatus section, *Khim. Prom.* No. 3, 208 (1967).
- R. LEENE, On non-uniformity of particle residence time in a fluidized bed, *Izv. Akad. Nauk Est. SSR 15, ser. Fiz.-Mat. Tekhn. Nauk* No. 4, 565 (1966).
- A. T. LISOVENKO, V. I. TELICHKUN and V. I. KHLYSTOVA, Heat transfer in bread baking on the sieve surface in tunnel ovens, *Khlebopekarn. Kond. Prom.* No. 2, 9 (1967).
- V. I. MUKOSEI, L. I. KHEIFETS and R. V. DZHAGATSPANYAN, Mathematical simulation of fluidized bed installations, *Inzh.-Fiz. Zh.* **12(4)**, 508 (1967).
- S. P. NALIMOV, YU. YA. KAGANOVICH and A. G. ZLOBINSKII, Investigation of dynamic of granulemetric composition in dehydration of solutions in a fluidized bed, *Zh. Prikl. Khimii* **40**, vyp. 5, 1043 (1967).
- E. A. NEPOMNYASHCHII, Particular results on the kinetics of separation and mixing of disperse materials, *Inzh.-Fiz. Zh.* **12(5)**, 583 (1967).
- A. A. NESTEROVICH, N. I. GEL'PERIN and D. E. SHKOROPAD, Engineering design of high-rate precipitation screw centrifuges, *Khim. Neft. Mashinostr.* No. 4, 15 (1967).
- V. S. NIKOLAEV, K. D. VACHAGIN and YU. N. BARYSHEV, Motion of fluid drops along the surface of a quickly rotating plane disc, *Izv. Vyssh. Ucheb. Zaved., Khim. Khim. Tekhn.* No. 3, 349 (1967).
- V. S. NOVOPAVLOVSKII, Investigation of convective heat transfer on front surfaces of block graphite heat exchangers, *Khim. Neft. Mashinostr.* No. 5, 22 (1967).
- N. F. PETROVA, Heat transfer agents for concrete heating in vertical cassette machines, *Izv. Vyssh. Ucheb. Zaved., Energ.* No. 5, 104 (1967).
- L. A. RAZUMOVSKII and V. V. STREL'TSOV, Calculation method of the suspension residence time in an apparatus for the crystallization of some salts from solutions in a suspended bed, *Izv. Vyssh. Ucheb. Zaved., Khim. Khim. Techn.* **10(4)**, 475 (1967).
- A. I. RODIONOV, A. M. KASHNIKOV, B. A. UL'YANOV, N. S. SHPAGIN and E. F. STROGOV, Determination of the contact surface of phases by the method of reflection of a light beam, *Khim. Prom.* No. 3, 209 (1967).
- I. P. SLOBODYANIK and L. L. TROYANOV, Hydrodynamics and mass transfer on a jet tangential plate, *Izv. Vyssh. Ucheb. Zaved., Pishchev. Tekhn.* No. 2, 152 (1967).

- M. B. STOLPER, Design of spiral heat exchangers, *Khim. Neft. Mashinostr.* No. 4, 4 (1967).
- N. I. SYROMYATNIKOV, L. K. VASANOVA and YU. N. SHIMANSKII, On quasi-stationary cooling of a fluidized bed, *Zh. Prikl. Khim.* **40**, vyp. 5, 1154 (1967).
- E. M. TYNTAREV, Characteristics of the heat-exchanger tube temperature calculation using an electronic digital computer, *Inzh.-Fiz. Zh.* **12**(4), 469 (1967).
- N. M. TIKHONOVA, An investigation of gas flow distributing arrangements in installations with a granular layer, *Khim. Neft. Mashinostr.* No. 4, 18 (1967).
- L. K. VASANOVA, YU. N. SHIMANSKII and R. V. SHIRINKIN, On the calculation of fluidized bed periodic cooling, *Inzh.-Fiz. Zh.* **12**(4), 523 (1967).
- B. V. VOL'TER and I. E. SAL'NIKOV, Stability of a chemical reactor of ideal mixing with an autothermal control of the process, *Izv. Vyssh. Ucheb. Zaved., Khim. Khim. Tekhn.* **10**(4), 465 (1967).