

HEAT TRANSFER BIBLIOGRAPHY—RUSSIAN WORKS

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BOOKS

- I. P. BAZAROV, *Thermodynamics* (Termodinamika). Fizmatgiz, Moscow (1961).
- A. I. VEINIK, *Thermodynamics* (Termodinamika). Izdat. Min-va vysshogo i srednego spetsial'nogo professional'nogo obrazovaniya B.S.S.R., Minsk (1961).
- O. A. KREMNEV and A. L. SATANOVSKY, *Air Water-Evaporation Cooling of Equipment* (Vozdushno-vodoisparitel'noe okhlazhdenie oborudovaniya). Mashgiz, Moscow-Kiev (1961).
- S. S. KUTATELADZE, *Problems on Heat Transfer and Hydraulics of Two-Phase Media* (Voprosy teplootdachi i gidravliki dvukhfaznykh sred). Gosenergoizdat, Moscow-Leningrad (1961).
- A. V. LUIKOV, *Theoretical Fundamentals of Building Thermophysics* (Teoreticheskie osnovy stroitel'noi teplofiziki). The Byelorussian Academy of Science Press, Minsk (1961).
- M. A. MIKHEEV and I. M. MIKHEEVA, *The Concise Course of Heat Transfer* (Kratky kurs teploperedachi). Gosenergoizdat, Moscow-Leningrad (1961).
- I. I. NOVIKOV and K. D. VOSKRESENSKY, *Applied Thermodynamics and Heat Transfer* (Prikladnaya termodinamika i teploperedacha). Atomizdat, Moscow (1961).
- A. S. PREDVODITELEV, *Physical Gas Dynamics and Heat Transfer* (Fizicheskaya gazodinamika i teploobmen). Sb. statei, Izv. Akad. Nauk SSSR, Moscow (1961).
- A. M. SHKLOVER, *Heat Transfer with Periodical Heat Effects* (Teploperedacha pri periodicheskikh teplovykh vozdeistviyakh). Gosenergoizdat, Moscow-Leningrad (1961).

ANALYTICAL METHODS FOR SOLVING HEAT AND MASS TRANSFER PROBLEMS

- SH. SH. ABELSKY and E. A. TUROV, On the theory of a temperature dependence of electric, and heat, conductivities of ferromagnetics at low temperatures (K teorii temperaturnoi zavisimosti elektroprovodnosti i teploprovodnosti ferromagnetikov pri nizkikh temperaturakh). *Fiz. metallov i metallovedenie* 10, vyp. 6, 801-806 (1960).
- E. N. AGAFONOVA and A. F. KORUNOVA, On the heat conduction theory of atomic semiconductors (K teorii teploprovodnosti atomnykh poluprovodnikov). *Izv. Vyssh. Ucheb. Zav., Fiz.* No. 5, 21-25 (1960).
- G. S. AMBROK, The influence of a variable heat flow over a tube surface upon heat transfer with turbulent flow (O vliyaniy peremennogo teplovogo potoka vdol' poverkhnosti trubyy pri turbulentnom techenii). *Inzh.-Fiz. Zh.* 4, No. 7, 19-24 (1961).
- B. A. ARKAD'EV, The temperature field of a partially cooled tail coupling of a turbine bucket (Temperaturnoe pole chastichno okhlazhdaemogo khvostovogo soedineniya turbinnoi lopatki). *Energomashinostroyeniye* No. 1, 38-40 (1961).
- A. SH. ASATURYAN, B. A. TONKOSHKUROV and V. I. CHERNIKIN, Interaction of heat and hydrodynamic fields in a flow with various viscosity (Vzaimodeistvie teplovogo i gidrodinamicheskogo polei s peremennoi vyazkost'yu). *Izv. Vyssh. Ucheb. Zav., Neft' i gaz* No. 3, 67-73 (1961).
- A. G. BELKIN and YU. N. SULOEV, The temperature field with maximum rate of polymerization (Temperaturnoe pole pri naibol'shei skorosti polimerizatsii). *Inzh. Fiz. Zh.* 4, No. 8, 126-129 (1961).
- G. P. BOIKOV and YU. A. KOROLENKO, On a temperature of an anisotropic body at internal heat release (K voprosu o temperaturnom pole anizotropnogo tela pri vnutrennem teplovydelenii). *Izv. Tomskogo Politekh. Inst.* 115, 23-25 (1960).
- G. P. BOIKOV and YU. A. KOROLENKO, The relation between excessive temperatures of a body with finite dimensions (Svyaz' mezhdru izbytochnymi temperaturami tela konechnykh razmerov). *Izv. Tomskogo Politekh. Inst.* 115, 26-29 (1960).
- G. P. BOIKOV and YU. A. KOROLENKO, Stationary heat conduction at boundary conditions expressed by the Stefan-Boltzman law and internal heat release (Statsionarnaya teploprovodnost' pri granichnykh usloviyakh, vyrazhennykh zakonom Stefana-Boltsmana i vnutrennim teplovydeleniem). *Izv. Tomskogo Politekh. Inst.* 115, 68-70 (1960).
- V. B. BORODIN, The profile of velocities with free convection in a viscous liquid (O profile skorostei pri svobodnoi teplovoi konveksii v vyazkoi zhidkosti). *Sb. Nauch. Trud. Permskogo Politekh. Inst.* vyp. 1, No. 7, 99-105 (1960).
- V. I. BUKHARIN and V. I. DANILOVSKAYA, The approximate solution of non-stationary problems on thermal conduction (Priblizhennoe reshenie nestatsionarnykh zadach teploprovodnosti). *Inst. Mekhaniki Akad. Nauk SSSR, Inzh. sb.* 30, No. 44, 112-118 (1960).
- B. I. DAVYDOV, Statistical dynamics of an incompressible turbulent liquid (K staticheskoi dinamike neszhimaemoi turbulentnoi zhidkosti). *Dokl. Akad. Nauk SSSR* 136, No. 1, 47-50 (1961).
- G. N. DEN, The turbulent boundary layer on the wall of diffuser without blades of a centrifugal compressor

- machine (Turbulentnyi pogranchnyy sloi na stenke bezlopatochnogo diffuzora tsentrabezhnoi kompressornoi mashiny). *Izv. Vyssh. Ucheb. Zav., Energetika* No. 5, 89-96 (1961).
- V. I. DOVGNOROVICH, A stationary problem in the heat conduction theory for a semi-restricted solid at mixed boundary conditions (Ob odnoi statsionarnoi zadache teorii teploprovodnosti dlya poluogranichennogo tverdogo tela pri smeshannykh granichnykh usloviyakh). *Inzh. Fiz. Zh.* 4, No. 3, 131-134 (1961).
- L. A. DORFMAN, The temperature distribution near a rotating thermally insulated disk (Raspredelenie temperatury vblizi vrshchayushchegosya teploizolirovannogo diska). *Inzh. Fiz. Zh.* 4, No. 5, 38-43 (1961).
- E. P. DUDIKOVA, Determining temperature with heat transfer under the conditions of a turbulent regime (K voprosu ob opredelyayushchei temperatury pri teploobmene v usloviyakh turbulentnogo rezhima). *Inzh. Fiz. Zh.* 4, No. 1, 27-30 (1961).
- K. V. ELSHIN, An approximate solution of equations for free convection of a liquid near a vertical non-isothermal wall (Priblizhennoe reshenie uravnenii svobodnoi konveksii u vertikal'noi neizotermicheskoi stenki). *Inzh. Fiz. Zh.* 4, No. 4, 62-68 (1961).
- M. M. FARZTDINOV, A three-dimensional boundary layer with a free convection flow in cavities (Trekhnernyy pogranchnyy sloi pri svobodnom konvektivnom techenii v polostyakh). *Inzh. Fiz. Zh.* 4, No. 4, 38-42 (1961).
- A. I. GUBANOV and O. E. PUSHKAREV, Gartman's problem in magnetic plasmodynamics (Zadacha Gartmana v magnitnoi plazmodinamike). *Zh. Tekh. Fiz.* 31, vyp. 5, 621-623 (1961).
- S. E. GREBENSCHIKOV, M. D. RAIZER, A. A. RUKHADZE and A. G. FRANK, Reflection and refraction of shock waves in magnetic hydrodynamics (Otrazhenie i prelomlenie udarnykh voln v magnitnoi gidrodinamike). *Zh. Tekh. Fiz.* 31, vyp. 5, 529-538 (1961).
- K. V. GRISHANIN, A turbulent boundary layer on a flat surface (Turbulentnyi pogranchnyy sloi na ploskoi poverkhnosti). *Trudy Leningrad. In-ta Vodnogo Transp.* vyp. 7, 23-31 (1960).
- L. A. GORYAINOV, Analytical methods of solving a heat transfer problem between a moving radiative medium and a heat absorbing surface (Ob analiticheskikh metodakh resheniya zadachi teploobmena dvizhushcheisya izluchayushchei sredy s teplovospriimayushchei poverkhnost'yu). *Trudy Moskov. In-ta Inzh. Zh.-d. Transp.* vyp. 125, 112-121 (1960).
- V. A. GOLUBEV, The theoretical investigation on a turbulent flat-parallel jet of high temperature with regard to dissociation and ionization (Teoreticheskoe issledovanie turbulentnoi plosko-parallelnoi strui vysokoi temperatury s uchedom dissotsiatsii i ionizatsii). *Inzh. Fiz. Zh.* 4, No. 6, 42-50 (1961).
- I. A. IOFFE, Stationary heat conduction in a semi-restricted body with internal cylindrical heat sources (Statsionarnaya teploprovodnost' v poluogranichennom tele s vnutrennimi tsilindricheskimi istochnikami tepla). *Inzh. Fiz. Zh.* 4, No. 8, 111-113 (1961).
- A. YA. IPATENKO, The method of sources in some heat conduction problems (Metod istochnikov v nekotorykh zadachakh teploprovodnosti). *Trudy Nikolaevsk. Korablestroitel. In-ta* vyp. 22, 31-37 (1961).
- A. YA. IPATENKO, Application of an integral ratio of a heat boundary layer to solving a heat transfer problem of a cylinder in cross flow (Primenenie integral'nogo sootnosheniya teplovogo pogranchnogo sloya k resheniyu zadachi o teploobmene tsilindra pri poperechnom obtekanii). *Trudy Nikolaevsk. Korablestroitel. In-ta* vyp. 22, 39-43 (1961).
- M. D. KHASKIND, A temperature field in ground around an insulated cylindrical heat transfer agent (Temperaturnoe pole v grunte vokrug izolirovannogo tsilindricheskogo teplonositelya). *Inzh. Fiz. Zh.* 4, No. 6, 83-89 (1961).
- N. V. KLIENOV, The calculation of resistance and heat transfer in jet flow past an infinite plate (K teorii voprosa o raschete soprotivleniya i teploobmena pri struinom obtekanii neogranichennoi pregrady). *Trudy Kuibyshev. Aviat. In-ta* vyp. 12, 99-103 (1961).
- L. S. KLYACHKO, Critical heat and mass transfer equations with combined action of forced and free convection (Kriterial'nye uravneniya teplo-i massoobmena pri sovmestnom deistvii vynuzhdennoi i svobodnoi konveksii). *Sb. Nauch. Trudov Vsesoyuznogo Nauchno-issledovatel'skogo In-ta Gidrotekhnicheskikh i san.-tekh. rabot* No. 15, 65-72 (1960).
- L. A. KOZDOBA and V. S. SEMENOV, The determination of a temperature field of sleeves in internal combustion engines by the electric-model method (Opredelenie temperaturnogo polya vtulok dvigatelei vnutrennego sgoraniya metodom elektromodelirovaniya). *Energomashinostroyeniye* No. 1, 47-48 (1961).
- M. S. KOZLOVA, An analytical investigation on heat and mass transfer in an infinitely long plate and sphere (Analiticheskoe issledovanie teplo-i massoobmena v neogranichennoi plastine i share). *Trudy Moskovskogo Tekhnol. In-ta Pishch. Prom-sti* vyp. 15, 74-81 (1960).
- B. A. KOSTANDYAN, The stability of the solution of a non-linear heat conduction equation (Ob ustoychivosti resheniya nelineinogo uravneniya teploprovodnosti). *Prikl. Mat. i Mekh.* 24, vyp. 6, 1112-1114 (1960).
- S. I. KOSTERIN, Y. A. KOSHMAROV and Y. V. OSIPOV, The effect of a divergence angle on the position of a shock wave in a supersonic nozzle under uncalculated conditions in the presence of heat transfer (Vliyanie ugla rastvora na polozhenie skachka uplotnenii v sverkhzvukovom sope na nerashchetykh rezhimakh pri nalichii teploobmena). *Inzh. Fiz. Zh.* 4, No. 4, 3-9 (1961).
- E. V. KUDRYAVTSEV and N. V. SHUMAKOV, The effect of dimensions and solid material on a process of non-stationary heat transfer (Vliyanie razmerov i materiala tverdogo tela na protsess nestatsionarnogo teploobmena). *Inzh. Fiz. Zh.* 4, No. 1, 63-70 (1961).
- L. I. KUDRYASHEV and V. M. GOLOVIN, The effect of mechanical energy dissipation on the hydraulic resistance coefficient in a laminar flow domain in tubes with a circular section (Vliyanie dissipatsii mekhanicheskoi energii na koeffitsient gidravlicheskogo soprotivleniya pri laminarnom rezhime techeniya v

- trubakh kruglogo secheniya). *Izv. Vyssh. Ucheb. Zav. Neft' i Gaz* No. 12, 105–112 (1960).
- L. I. KUDRYASHEV and V. A. TSERETIN, The influence of a non-stationary flow on the gas-dynamic resistance coefficient in main gas lines (Vliyaniye nestatsionarnosti techeniya na koeffitsient gazodinamicheskogo soprotivleniya magistral'nykh gazoprovodov). *Izv. Vyssh. Ucheb. Zav. Neft' i Gaz* No. 1, 105–112 (1961).
- L. I. KUDRYASHEV and V. K. LYAKHOV, The influence of transverse and longitudinal temperature distribution on the heat transfer coefficient in a turbulent liquid flow in tubes with a circular section (Vliyaniye poperechnoi i prodol'noi neizotermichnosti na koeffitsient teplootdachi pri turbulentnom techenii zhidkosti v trubakh kruglogo secheniya). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 145–154 (1961).
- L. I. KUDRYASHEV and I. A. GUSEV, The influence of both a velocity non-stationary flow and jet with a finite size on the resistance and heat transfer coefficient of bodies in a flow (Vliyaniye skorostnoi nestatsionarnosti potoka i strui konechnogo razmera na koeffitsient soprotivleniya i teploobmena pri obtekanii tel). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 113–117 (1961).
- L. I. KUDRYASHEV and A. A. SMIRNOV, The influence of heat non-stability on the heat transfer coefficient with the external flow over bodies (Vliyaniye teplovoi nestatsionarnosti na koeffitsient teplootdachi dlya sluchaya vneshnego obtekania tel). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 59–76 (1961).
- L. I. KUDRYASHEV, A. V. TEMNIKOV and V. P. VESELOV, The investigation of non-linear heat conduction problems with the help of electron models (Issledovanie nelineinykh zadach teploprovodnosti s pomoshch'yu elektronnykh modelei). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 13–34 (1961).
- L. I. KUDRYASHEV and V. M. GOLOVIN, The stability of a laminar regime of motion of a viscous drop liquid in circular cylindrical tubes (K voprosu ob ustoychivosti laminarnogo rezhima dvizheniya vyazkoi kapel'noi zhidkosti v kruglykh tsilindricheskikh trubakh). *Izv. Vyssh. Ucheb. Zav. Neft' i Gaz* No. 3, 107–112 (1961).
- L. I. KUDRYASHEV and S. F. SAFONOV, The coefficient of heat transfer and resistance for an infinite plate in a jet (Koeffitsient teploobmena i soprotivleniya pri obtekanii struei neogranichennogo prep'yatstviya). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 105–111 (1961).
- L. I. KUDRYASHEV and A. V. TEMNIKOV, One method of solving non-linear problems of non-stationary heat conduction on electric lattice integrators (Ob odnom prieme resheniya nelineinykh zadach nestatsionarnoi teploprovodnosti na setochnykh elektrointegratorakh). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 41–53 (1961).
- L. I. KUDRYASHEV and E. V. SHCHIBRAEV, The application of the generalized heat regularity theory to determining the heat transfer coefficient with blowing of continuous bodies (Primeneniye obobshchennoi teorii teplovoi regul'yarnosti dlya opredeleniya koeffitsienta teplootdachi pri obduvke sploshnykh tel). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 83–92 (1961).
- L. I. KUDRYASHEV, A. F. BOCHKAREV and V. M. TURAPIN, The application of the heat regularity theory to an experimental determination of the heat transfer coefficient for bodies in an external flow (Primeneniye teorii teplovoi regul'yarnosti k eksperimental'nomu opredeleniyu koeffitsienta teplootdachi pri vneshnem obtekanii tel). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 77–81 (1961).
- L. I. KUDRYASHEV and Y. I. MAKAROV, The theory of resistance and heat transfer for bodies in a jet flow (Teoriya soprotivleniya i teploobmena pri struinom obtekanii tel). *Trudy Kuibyshev. Aviats. In-ta* vyp. 12, 93–98 (1961).
- L. M. KULIK and G. E. SHATALOV, Non-stationary heat transfer through a multilayer flat plate (Neustanovivshayasya teploperedacha cherez mnogoslouinuyu plaskuyu plastinu). *Izv. Akad. Nauk SSSR, otd. Tekh. Nauk Energetika i Avtomatika* No. 2, 72–77 (1961).
- S. S. KUTATELADZE and A. I. LEONTYEV, Resistance and heat transfer laws in a turbulent boundary layer of a compressed gas and a method for calculating friction and heat transfer (Zakony soprotivleniya i teploobmena v turbulentnom pogranichnom sloe szhimaemogo gaza i metod rascheta treniya i teploobmena). *Inzh. Fiz. Zh.* 4, No. 6, 33–41 (1961).
- YU. P. LADIKOV, Some exact solutions of equations of non-stationary motions in magnetohydrodynamics (Nekotorye tochnye resheniya uravnenii neustanovivshikhsya dvizhenii v magnitnoi gidrodinamike). *Dokl. Akad. Nauk SSSR* 137, No. 2, 303–306 (1961).
- G. YA. LYUBARSKY, The kinetic theory of shock waves (K kineticheskoi teorii udarnykh voln). *Zh. Eksp. i Teor. Fiz.* 40, vyp. 4, 1050–1057 (1961).
- V. I. MAKHOVIKOV, Heat conduction and thermal elasticity problems for a plane with an infinite number of openings (Zadachi teploprovodnosti i termouprugosti dlya plaskosti s beskonechnym chislom grupp otverstii). *Inzh. Fiz. Zh.* 4, No. 1, 82–91 (1961).
- V. I. MAKHOVIKOV, The problem of heat conduction for a cylinder (K zadache teploprovodnosti dlya tsilindra). *Inzh. Fiz. Zh.* 4, No. 5, 118–124 (1961).
- V. I. MAKHOVIKOV, The solution of heat transfer and thermal elasticity problems for a cylinder with a multiple connected transverse section (O reshenii zadach teploprovodnosti i termouprugosti dlya tsilindra mnogoslouinogo poperechnogo secheniya). *Inzh. Fiz. Zh.* 4, No. 8, 99–106 (1961).
- A. E. MARENOV, The investigation of heat transfer in supersonic gas flows in a tube with a laminar boundary layer (Issledovanie teploobmena pri sverkhzvukovykh techeniyakh gaza pri laminarnom pogranichnom sloe). *Zh. Tekh. Fiz.* 31, vyp. 8, 1001–1011 (1961).
- M. V. MASLENNIKOV, One method of solving a characteristic equation of the radiation transfer theory (Ob odnom metode resheniya teorii kharakteristicheskogo uravneniya teorii perenosa izlucheniya). *Zh. Vychislitel'noi Matematiki i Matematicheskoi Fiz.* 1, No. 2, 255–266 (1961).
- I. R. MIKK and I. P. EPIK, A solution of certain three-dimensional problems of radiant heat transfer by their reduction to two-dimensionals (Reshenie nekotorykh

- trekhmernykh zadach luchistogo teploobmena privedeniyem ikh k dvukhmernym). *Inzh. Fiz. Zh.* 4, No. 6, 90-100 (1961).
- E. I. MIKULIN, The temperature field of two solids separated by a gap (Temperaturnoe pole dvukh tverdykh tel, razdelennykh zazorom). *Inzh. Fiz. Zh.* 4, No. 2, 52-57 (1961).
- V. V. MITOR, The temperature field of masonry of semi-submerged screens in steam boilers (Temperaturnoe pole kladki poluutoplennykh ekranov parovykh kotlov). *Inzh. Fiz. Zh.* 4, No. 5, 69-73 (1961).
- A. I. MOCHALIN, Heating of a limited cylinder by an instantaneous point source of heat (Nagrevanie ograniченного tsilindra mgnovennym tochechnym istochnikom tepla). *Inzh. Fiz. Zh.* 4, No. 2, 44-51 (1961).
- A. I. MOCHALIN, Heating of a sphere by an instantaneous surface heat source (Nagrevanie shara mgnovennym poverkhnostnym istochnikom tepla). *Inzh. Fiz. Zh.* 4, No. 1, 124-126 (1961).
- G. F. MUCHNIK, The solution of heat conduction problems by the net-point method (Reshenie zadach teploprovodnosti metodom setok). *Inzh. Fiz. Zh.* 4, No. 3, 72-82 (1961).
- YU. N. PAVLOVSKY, The investigation of some invariant solutions of boundary layer equations (Issledovanie nekotorykh invariantnykh reshenii uravnenii pogranichnogo sloya). *Zh. Vychislitel'noi Matematiki i Matematicheskoi Fiz.* 1, No. 2, 280-294 (1961).
- T. L. PERELMAN, Heat transfer in a laminar flow in a tube (O teploobmene v laminarnom potoke, tekushchem v trube). *Inzh. Fiz. Zh.* 4, No. 4, 43-48 (1961).
- T. L. PERELMAN, A boundary problem for equations of the mixed type in the heat conduction theory (Ob odnoi kraevoi zadache dlya uravnenii smeshannogo tipa v teorii teploprovodnosti). *Inzh. Fiz. Zh.* 4, No. 8, 121-125 (1961).
- T. L. PERELMAN, Heat transfer in a laminar boundary layer for a thin plate in flow with internal heat sources (Teploobmen v laminarnom pogranichnom sloe pri obtekanii tonkoi plastiny s vnutrennimi istochnikami). *Inzh. Fiz. Zh.* 4, No. 5, 54-61 (1961).
- SH. N. PLYAT, Permissible temperature jumps of a medium when kilning abrasive workpieces (O dopustimyykh skachkakh temperatury sredi pri obzhighe abrazivnykh izdelii). *Inzh. Fiz. Zh.* 4, No. 9, 90-93 (1961).
- G. V. PODDUBNYI, A heat conduction problem in a uniform half-space (Ob odnoi zadache teploprovodnosti v odnorodnom poluprostranstve). *Inzh. Fiz. Zh.* 4, No. 5, 27-32 (1961).
- B. V. PODSEVALOV, The investigation of temperature fields in tail connections of working blades in gas turbines cooled by air blowing through slotted channels (Issledovanie temperaturnykh polei v khvostovykh soedineniyakh rabochikh lopatok gazovykh turbin, okhlazhdaemykh produvkoi vozdukhha cherez shchelye kanaly). *Energomashinostroyeniye* No. 1, 40-44 (1961).
- N. I. POL'SKY and I. T. SHVETS, Similar solutions of laminar boundary layer equations in magnetohydrodynamics (Ob avtomodel'nykh resheniyakh uravnenii laminarnogo pogranichnogo sloya v magnitnoi gidrodinamike). *Dokl. Akad. Nauk SSSR* 136, No. 5, 1051-1054 (1961).
- A. A. POMERANTSEV, An exact theory of free convection (K tochnoi teorii svobodnoi konveksii). *Inzh. Fiz. Zh.* 4, No. 6, 21-26 (1961).
- A. S. PREDVODITELEV, The nature of heat motion in liquids (I) (O kharaktere teplovogo dvizheniya v zhidkostyakh (I)). *Inzh. Fiz. Zh.* 4, No. 6, 3-12 (1961).
- A. S. PREDVODITELEV, The nature of heat motion in liquids (II) (O kharaktere teplovogo dvizheniya v zhidkostyakh (II)). *Inzh. Fiz. Zh.* 4, No. 7, 3-10 (1961).
- A. S. PREDVODITELEV, The nature of heat motion in liquids (III) (O kharaktere teplovogo dvizheniya v zhidkostyakh (III)). *Inzh. Fiz. Zh.* 4, No. 8, 3-10 (1961).
- G. D. RABINOVICH, The problem on non-stationary cooling of a limited volume of a liquid (Zadacha o nestatsionarnom okhlazhdenii ograniченного ob'ema zhidkosti). *Inzh. Fiz. Zh.* 4, No. 3, 58-63 (1961).
- G. D. RABINOVICH, Non-stationary heat transfer in a counter-flow recuperative apparatus (Nestatsionarnyi teploobmen v protivotochnom rekuperativnom apparate). *Inzh. Fiz. Zh.* 4, No. 2, 58-62 (1961).
- A. I. ROZLOVSKY, The exact determination for solving a heat conduction equation in a flame (Utochenie resheniya uravneniya teploprovodnosti v plameni). *Dokl. Akad. Nauk SSSR* 136, No. 5, 1150-1153 (1961).
- D. V. SHARIKADZE, One non-stationary problem of magnetohydrodynamics (Ob odnoi nestatsionarnoi zadache magnitnoi gidrodinamiki). *Dokl. Akad. Nauk SSSR* 138, No. 3, 568-571 (1961).
- YU. P. SHLYKOV and E. A. GANIN, An experimental investigation of contact heat transfer (Eksperimental'noe issledovanie kontaktного teploobmena). *Teploenergetika* No. 7, 73-75 (1961).
- F. SHUBART, A solution of the laminar convection problem with a linear heat source (Ob odnom reshenii zadachi laminarnoi konveksii pri lineinom istochnike tepla). *Inzh. Fiz. Zh.* 4, No. 7, 105-108 (1961).
- Z. P. SHULMAN, The approximate calculation of a laminar boundary layer in an incompressible liquid in the presence of heat and mass transfer (Priblizhennyi raschet laminarnogo pogranichnogo sloya v neshzimaemoi zhidkosti pri nalichii tepla i massootbena). *Inzh. Fiz. Zh.* 4, No. 8, 69-79 (1961).
- A. G. TEMKIN, Inverse problems of heat conduction in a symmetrical field (Obratnye zadachi teploprovodnosti simmetricheskogo polya). *Inzh. Fiz. Zh.* 4, No. 9, 45-55 (1961).
- A. G. TEMKIN, The determination of variables of external heat effects by heat conduction methods (Opredelenie peremennykh vneshnikh teplovykh vozdetsivii metodami teploprovodnosti). *Izv. Vyssh. Ucheb. Zav. Energetika* No. 5, 60-71 (1961).
- A. S. TROFIMOV, Heat conduction of a hollow cylinder and plate with harmonic temperature oscillations (Teploprovodnost' pologo tsilindra i plastiny pri garmonicheskikh kolebaniyakh temperatury). *Inzh. Fiz. Zh.* 4, No. 7, 79-83 (1961).
- TSAI KO-EN, Heat transfer in a turbulent liquid flow at large Prandtl numbers (Teploobmen v turbulentsnom

- potoke zhidkosti pri bol'shikh znacheniyakh chisel Prandtliya). *Inzh. Fiz. Zh.* 4, No. 8, 20–29 (1961).
- P. V. TSOI, A boundary layer problem for a generalized system of equations of energy and substance transfer (Kraevaya zadacha dlya obobshchenoi sistemy uravnenii perenosa energii i veshchestva). *Inzh. Fiz. Zh.* 4, No. 4, 69–74 (1961).
- P. V. TSOI, Heat transfer of a system of bodies in a non-stationary domain (Teploobmen sistemy tel pri nestatsionarnom rezhime). *Inzh. Fiz. Zh.* 4, No. 1, 120–123 (1961).
- K. K. VASILEVSKY, The solution of a one-dimensional problem on heat conduction for a two-layer plate in a constant heat flow on a boundary (Reshenie odnomenoi zadachi teploprovodnosti dlya dvukhsloinnoi plastiny pri postoyannom teplovom potoke na granitse). *Inst. Mekh. Akad. Nauk SSSR, Inzh. sborn.* 30, No. 44, 119–125 (1960).
- B. S. VEINBERG, The calculation of heat transfer between water and moist air (K raschetu teploobmena mezhdru vodoi i vlazhnym vozdukhom). *Kholodilnaya Tekh.* No. 2, 25–28 (1961).
- K. A. VEZLOMTSEV, The approximate theoretical solution of a problem on distributing temperatures and velocities near a vertical plate in a laminar domain of a liquid flow (Priblizhennoe teoreticheskoe reshenie zadachi o raspredelenii temperatur i skorostei okolo vertikal'noi plastiny pri laminarnom rezhime techeniya zhidkosti). *Trudy Nikolaevskogo Korablestroitel'nogo In-ta* vyp. 22, 25–30 (1961).
- T. G. VOINICH-SYANOZHETSKY, Equations on the turbulent flow of an incompressible liquid and on the velocity distribution in a flat uniform flow (Ob uravneniyakh turbulentnogo techeniya neszhimaemoi zhidkosti i raspredelenii skorostei v ploskom ravnomernom potoke). *Soobshcheniya Akad. Nauk Gruz. SSR.* 25, No. 2, 137–143 (1960).
- K. K. VOLKOVA, On a regular heat regime in a cylinder (O regul'yarnom teplovom rezhime v tsilindre). *Inzh. Fiz. Zh.* 4, No. 5, 21–26 (1961).
- V. Z. ZHADAN, An approximate calculation of finned heat transfer surfaces (Priblizhennyyi raschet orebrennykh poverkhnostei teploobmena). *Kholodil'naya Tekh.* No. 2, 28–30 (1961).
- GENERAL HEAT TRANSFER PROBLEMS**
- S. A. ABDURASHITOV and A. I. ABDULVAGATOV, The dependence of the coefficient of hydraulic resistances upon the Reynolds parameter with filtration (O zavisimosti koeffitsienta gidravlicheskiikh soprotivlenii ot parametra Reinal'dsa pri filtratsii). *Izv. Vyssh. Ucheb. Zav., Neft' i Gaz* No. 3, 91–97 (1961).
- V. N. ADRIANOV, The role of dispersion with the help of energy in radiative transfer processes (Rol' rasseyaniya v protsessakh luchistogo obmena energicii). *Teploenergetika* No. 2, 63–66 (1961).
- V. M. ANTUFIEV, The influence of temperature conditions of the flow and the wall on heat transfer of bundles of tubes transverse to the flow of a droplet liquid (Vliyaniye temperaturnykh uslovii potoka i stenki na teploobmen pri poperechnom omyvanii puchkov trub kapel'noi zhidkost'yu). *Inzh. Fiz. Zh.* 4, No. 7, 25–29 (1961).
- I. Z. ARONOV, Heat transfer with liquid motion in screw coils (O teploobmene pri dvizhenii zhidkosti v vintovykh zmeevikh). *Teploenergetika* No. 6, 75–77 (1961).
- V. I. BABII and I. P. IVANOVA, The determination of the resistance coefficient to motion of burning coal dust (Opreделение koeffitsienta soprotivleniya dvizheniyu goryashchei ugol'noi pyli). *Inzh. Fiz. Zh.* 4, No. 1, 50–57 (1961).
- I. E. BALYGIN, On the change of heat transfer intensity through a dielectric in an electric field (Ob izmenenii intensivnosti teploobmena cherez dielektrik v elektricheskom pole). *Inzh. Fiz. Zh.* 4, No. 2, 113–115 (1961).
- V. A. BAUM, M. K. BOLOGA and P. M. BRDLIK, Heat transfer of flat surfaces in a transverse flow (Teploobmen pri poperechnom obtekanii ploskiikh poverkhnostei). *Inzh. Fiz. Zh.* 4, No. 6, 13–20 (1961).
- L. D. BERMAN, Problems on heat calculation of condensators in steam turbines (Voprosy teplovogo rascheta kondensatorov parovykh turbin). *Energomashinostroyeniye* No. 1, 18–22 (1961).
- V. M. BUZNIK and K. A. VEZLOMTSEV, The generalized experimental dependence for heat transfer of a cylinder with rotation and vibration (Obobshchennaya eksperimental'naya zavisimost' po teplootdache tsilindra pri vrashcheniyakh i kolebaniyakh). *Trudy Nikolaevskogo Korablestroitel'nogo In-ta* vyp. 22, 11–18 (1961).
- V. M. BUZNIK and K. A. VEZLOMTSEV, The evaluation of the influence of roughness on heat transfer and hydraulic resistance of a heating surface (Otsenka vliyaniya snerokhovatosti na teploobmen i gidravlicheskie soprotivlenie poverkhnosti nagreva). *Trudy Nikolaevskogo Korablestroitel'nogo In-ta* vyp. 22, 53–60 (1961).
- V. M. BUZNIK and K. A. VEZLOMTSEV, Heat transfer of rotating surfaces (Teplootdacha vrashchayushchikhsya poverkhnostei). *Trudy Nikolaevskogo Korablestroitel'nogo In-ta* vyp. 22, 45–52 (1961).
- V. M. BUZNIK, K. A. VEZLOMTSEV and S. V. RYZHKOV, The experimental investigation of heat transfer and aerodynamic resistance of channels with internal circular ribbing (Eksperiment'noe issledovanie teplootdachi i aerodinamicheskogo soprotivleniya kanalov s vnutrennim kol'tsevyim orebreniem). *Trudy Nikolaevskogo Korablestroitel'nogo In-ta* vyp. 22, 19–23 (1961).
- G. F. DEGTEV, V. I. KHARCHENKO and S. L. BABCHENKO, Results of introduction of radiative recuperators and data on heat transfer and temperature fields in working chambers of furnaces at the Artem machinery building plant (Rezultaty vnedreniya radiatsionnykh rekupe-ratorov i dannye issledovaniy teploobmena i temperaturnykh polei v rabochikh kamerakh toplivnykh pechei na mashinostroitel'nom zavode imeni Artema). *Sb. Trudov Dnepropetrovsk. Inzh.-stroitel'nogo In-ta* vyp. 12, 5–17 (1960).
- G. F. DEGTEV and P. P. GOLOSOV, The distribution of radiant temperatures in the cavity of a cylindrical

- chamber (Raspredelenie lucheuykh temperatur v polosti tsilindricheskoi kamery). *Sb. Nauch. Trudov Dnepropetrovsk. Inzh.-stroitel'nogo In-ta* vyp. 13, 19-22 (1960).
- G. N. DEN, The gas flow between parallel rotating disks and heat transfer between adjacent channels (Tehenie gaza mezhdou paralel'nymi vrashchayushchimisya diskami i teploobmen mezhdou soseidnimi kanalami). *Inzh. Fiz. Zh.* 4, No. 9, 24-31 (1961).
- A. N. DEVOINO, Modern state of a heat transfer problem in rarefied gases (Sovremennoe sostoyanie voprosa o teploobmene v razrezhenykh gazakh). *Inzh. Fiz. Zh.* 4, No. 2, 119-130 (1961).
- A. N. DEVOINO, The application of the method of electric heat analogies for investigating a heat transfer process in a rarefied gas (Primeneniye metoda elektroteplovykh analogii dlya issledovaniya protsessa perenosa tepla v razrezhenom gaze). *Trudy Inst. Energ. Akad. Nauk BSSR*. vyp. 11, 40-50 (1960).
- A. N. DEVOINO, Basic heat transfer regularities in a rarefied gas with natural convection (Osnovnyye zakonomernosti teploobmena v razryezhenom gaze pri estestvennoi konveksii). *Inzh. Fiz. Zh.* 4, No. 6, 70-77 (1961).
- A. N. DEVOINO, The investigation of heat transfer in a vacuum (Issledovanie teploobmena v vakuume). *Trudy Inst. Energ. Akad. Nauk BSSR*. vyp. 11, 31-39 (1960).
- I. T. ELPERIN, A heat exchanger for a gas turbine installation of small power (Teploobmennik dlya gazoturbinnoi ustanovki maloi moshchnosti). *Trudy Inst. Energ. Akad. Nauk BSSR*. vyp. 11, 51-57 (1960).
- I. T. ELPERIN, Heat transfer between a two-phase flow and a tube bundle (Teploobmen dvukhfaznogo potoka s trubnym puchkom). *Inzh. Fiz. Zh.* 4, No. 8, 30-35 (1961).
- I. T. ELPERIN, The First All-Union Conference on Heat and Mass Transfer (Pervoe vsesoyuznoe soveshchanie po teplo-i massoobnemu). *Inzh. Fiz. Zh.* 4, No. 7, 124-127 (1961).
- I. T. ELPERIN, A method for heat transfer intensification (Metod intensivatsii teploobmena). *Trudy Inst. Energ. Akad. Nauk BSSR*. vyp. 11, 58-70 (1960).
- I. T. ELPERIN, On the question of terminology of heat and mass transfer (K voprosu o terminologii tepla i massoobmena). *Inzh. Fiz. Zh.* 4, No. 1, 131-148 (1961).
- A. M. GURVICH, The calculation and experimental evaluation for the influence of pollution upon heat transfer with furnace screens (Raschetnaya i eksperimental'naya otsenka vliyaniya zagryaznenii na teploobmen s topochnymi ekranami). *Teploenergetika* No. 6, 81-82 (1961).
- M. KH. IBRAGIMOV, E. V. NOMOFILOV and V. I. SUBBOTIN, Heat transfer and hydraulic resistance with helicoidal motion of a liquid in a tube (Teplootdacha i gidravlichesкое soprotivleniye pri vintovom dvizhenii zhidkosti v trube). *Teploenergetika* No. 7, 57-60 (1961).
- O. N. IVANOV, The calculation of tube cascades in heat exchangers with lensed compensators (K raschetu trubnykh reshetok teploobmennikov s linsovymi kompensatorami). *Khim. Mashinostroyeniye* No. 2, 33-34 (1961).
- N. M. ITSKOVICH, Heat transfer in muffle furnaces (Teploobmen v mufel'nykh pechakh). *Nauch. Zapiski Odesskogo Politekh. In-ta* 28, 15-22 (1960).
- V. A. KIRILLIN and M. P. VUKALOVICH, Prospects of energetics development and new problems of a thermo-physical science (Perspektivy razvitiya energetiki i novye zadachi teplofizicheskoi nauki). *Teploenergetika* No. 6, 3-5 (1961).
- L. K. KONAKOV, Some regularities of complicated heat transfer (Nekotorye zakonomernosti slozhnogo teploobmena). *Trudy Moskovskogo In-ta Inzh. Zh.-d. Transp.* vyp. 125, 76-103 (1960).
- N. A. KOZULIN and A. I. ERSHOV, The investigation of heat transfer in a cyclonic apparatus with various types of heat-transfer surfaces (Issledovanie teploobmena v tsiklonnom apparate s razlichnym ispolneniem teploperedayuschikh poverkhnostei). *Izv. Vyssh. Ucheb. Zav., Energetika* No. 6, 82-88 (1961).
- V. T. KUMSKOV and L. A. GORYAINOV, The regularities of complicated heat transfer (K voprosu o zakonomernostyakh slozhnogo teploobmena). *Trudy Moskovsk. In-ta Inzh. Zh.-d. Transp.* vyp. 125, 104-111 (1960).
- YU. V. KURBAKOV, The experimental determination of geometrical coefficients of radiative heat transfer (Eksperimental'noe opredeleniye uglovykh koeffitsientov luchistogo teploobmena). *Trudy Moskovsk. Tekhnol. In-ta Pishch. Prom-sti* vyp. 15, 193-201 (1960).
- A. K. LEONTYEV, The minimum thickness of a heat transfer wall heated by alternating current (O minimal'noi tolshchine teploobmennoi stenki, nagrevaemoi peremennym tokom). *Inzh. Fiz. Zh.* 4, No. 9, 67-72 (1961).
- A. I. LEONTYEV and V. K. FEDOROV, The influence of input conditions on the heat transfer law in the initial portion of a cylindrical tube (Vliyaniye uslovii vkhoda na zakon teploobmena v nachal'nom uchastke tsilindricheskoi trubyy). *Inzh. Fiz. Zh.* 4, No. 8, 63-68 (1961).
- A. E. MAREN OV, The determination of heat transfer coefficients in supersonic flow of a rarefied gas in tubes (Opredeleniye koeffitsientov teplootdachi pri sverkhzvukovykh techeniyakh razrezhenogo gaza potrubam). *Inzh. Sb. In-ta Mekh. Akad. Nauk SSSR* 30, 139-148 (1960).
- I. I. MEZHIROV, Gas flow in a channel in the presence of heat transfer (O techenii gaza v kanale pri nalichii teploobmena). *Izv. Akad. Nauk SSSR, otd. Tekh. Nauk, Mekhanika i Mashinostroyeniye* No. 1, 102-106 (1961).
- G. V. NIKOLAEV, The comparative data on the values of experimental heat transfer coefficients in condensators (Sravnitel'nye dannye velichin opytnykh koeffitsientov teploperedachi v kondensatorakh). *Energomashinostroyeniye* No. 1, 15-18 (1961).
- N. N. NORKIN and I. P. CHASHCHIN, Heat transfer of tubular surfaces with low ribs (Teploperedacha trubchatykh poverkhnostei s nizkimi rebrami). *Teploenergetika* No. 6, 77-78 (1961).
- A. A. PAVLENKOV, The influence of free convection on the heat transfer coefficient and lift force for a cylinder in a

- flow (Vliyanie svobodnoi konveksii na koeffitsient teplootdachi i pod'emnyuyu silu pri obtekanii tsilindra). *Trudy Kuibyshev. Aviat. In-ta* vyp. 12, 193-197 (1961).
- B. S. PETUKHOV and A. YA. YUSHIN, Heat transfer of a liquid metal in laminar and transient regions (O teploobmene pri techenii zhidkosti metalla v laminarnoi i perekhodnoi oblastiakh). *Dokl. Akad. Nauk SSSR* 136, No. 5, 1321-1324 (1961).
- B. S. PETUKHOV and F. F. TSVETKOV, The calculation of heat transfer for a laminar liquid flow in tubes in the region of small Peclet numbers (Raschet teploobmena pri laminarnom techenii zhidkosti v trubakh v oblasti malykh chisel Pekle). *Inzh. Fiz. Zh.* 4, No. 3, 10-17 (1961).
- M. S. PIROGOV, Heat transfer to solidium in the region of small Peclet numbers (Teplootdacha k natriyu v oblasti malykh chisel Pekle). *Teploenergetika* No. 3, 62-64 (1961).
- R. S. PRASOLOV, The effect of roughness on the heat transfer of a horizontal cylinder with free convection in air (O vliyani sferokhovatosti na teploobmen gorizontalnogo tsilindra pri svobodnoi konveksii v vozdukh). *Inzh. Fiz. Zh.* 4, No. 5, 3-7 (1961).
- V. A. RASTATURIN, Heat transfer of a grained layer to a tube wall in the presence of internal heat sources (Teplootdacha ot zernistogo sloya k stenke trubyy pri nalichii vnutrennikh istochnikov tepla). *Izv. Vyssh. Ucheb. Zav., Khim. i Khim. Tekh.* 4, No. 1, 138-141 (1961).
- A. K. REBROV, Heat transfer with free motion near a horizontal cylinder in rarefied air (Teploobmen pri svobodnom dvizhenii okolo gorizontalnogo tsilindra v razrezhenom vozdukh). *Inzh. Fiz. Zh.* 4, No. 9, 32-39 (1961).
- V. YU. ROLINSKY and V. I. IVANOV, Heat transfer of a smooth cylinder in a moving medium disturbed by infrasound (Teplootdacha gladkogo tsilindra v usloviyakh dvizheniya sredy, vozrushchennoi infrazvukom). *Trudy Nikolaevskogo Korablestroitel'nogo In-ta* vyp. 22, 81-84 (1961).
- A. N. RUMYNSKY, Heat transfer at a frontal point in the flow of a radiative medium (Teploobmen v lobovoi tochke, omyvaemoi izluchayushchei sredoi). *Izv. Akad. Nauk SSSR, otd. Tekh. Nauk, Mekhanika i Mashinostroyeniye* No. 1, 96-101 (1961).
- V. K. SHCHITNIKOV, An experimental investigation of heat transfer of a sphere in a turbulent air flow (Eksperimental'noe issledovanie teploobmena shara v turbulentnom potoke vozdukh). *Inzh. Fiz. Zh.* 4, No. 6, 78-82 (1961).
- V. K. SHCHITNIKOV, Heat transfer between bodies with various shapes and a forced liquid flow (Teploobmen tel razlichnoi formy s vynuzhdennym potokom zhidkosti). *Inzh. Fiz. Zh.* 4, No. 7, 73-78 (1961).
- V. K. SHCHITNIKOV, The effect of shape on external heat transfer process with forced convection (K voprosu o vliyani formy na protsess vneshnego teploobmena pri vynuzhdennoi konveksii). *Inzh. Fiz. Zh.* 4, No. 8, 117-120 (1961).
- A. A. SHEVELEV, Temperature stresses and optimum heating conditions (Temperaturnye napryazheniya i optimal'nye usloviya nagrevaniya). *Inzh. Fiz. Zh.* 4, No. 4, 75-79 (1961).
- E. I. SHEININ, An experimental investigation of heat transfer in the zone of final packings in gas turbines (Eksperimental'noe issledovanie teploobmena v zone kontsevykh uplotnenii gazovykh turbin). *Energomashinostroyeniye* No. 1, 25-27 (1961).
- G. P. STELMAKH and V. K. SOLYAKOV, Heating of a loose material by a solid heat transfer agent (O nagreve sypuchego materiala tverdyim teplonositelem). *Inzh. Fiz. Zh.* 4, No. 1, 71-75 (1961).
- V. I. SUBBOTIN, P. A. USHAKOV and A. V. ZHUKOV, The investigation of heat transfer in a longitudinal water flow round a bundle of bars with a relative step $s/d = 1.4$ (Issledovanie teploobmena pri prodo'nom obtekanii vodoi puchka sterzhnei s otноситel'nym shagom $s/d = 1.4$). *Inzh. Fiz. Zh.* 4, No. 3, 3-9 (1961).
- P. L. SURIS and L. R. SHLIK, The heat transfer coefficient for an oil cooler of a tube bundle in a transverse flow (Koeffitsient teploperedachi dlya maslookhladitelya s poperechnym obtekaniem trubnogo puchka). *Energomashinostroyeniye* No. 6, 44-46 (1961).
- V. I. TOLUBINSKY and V. M. LEGKY, Heat transfer of compact staggered bundles in a transverse flow (Teplootdacha kompaktnykh shakhmatnykh puchkov pri poperechnom ikh omyvanii). *Teploenergetika* No. 3, 53-56 (1961).
- N. B. VARGAFIK and A. A. TARZIMANOV, The generalization of experimental data on heat conduction of water vapour (Obobshchenie eksperimental'nykh dannykh po teploprovodnosti vodyanogo para). *Teploenergetika* No. 6, 5-8 (1961).
- E. I. VOL'TER, T. A. SAVITSKY and I. A. LUK-ZILBERMAN, The investigation of heat transfer and aerodynamic resistance in a semi-industrial model of an air preheater of profile sheets (Issledovanie teploperedachi i aerodinamicheskogo soprotivleniya v polu-promyshlennoi modeli vozdukhopodogrevatelya, vypolnennogo iz profil'nykh listov). *Energomashinostroyeniye* No. 1, 22-25 (1961).
- L. A. VULIS, A. M. GURVICH and V. G. KLINGER, Light modelling of radiant heat transfer in furnaces (Svetovoe modelirovanie luchistogo teploobmena v topkakh). *Teploenergetika* No. 2, 67-71 (1961).
- P. A. YABLONSKY and P. G. ROMANOV, The physical meaning of some similarity criteria and their influence on the heat transfer coefficient of liquids (Fizicheskii smysl nekotorykh kriteriev podobiya i ikh vliyanie na koeffitsient teplootdachi zhidkostei). *Izv. Vyssh. Ucheb. Zav., Khim. i Khim. Tekh.* 3, No. 5, 928-932 (1960).
- A. YA. YUSHIN, A. S. SUKOMEL and B. K. STRIGIN, The investigation of heat transfer for mercury flow in a circular tube in the region of the small Peclet number (Issledovanie teploobmena pri techenii rtuti v krugloi trubye v oblasti malykh znachenii chisla Pekle). *Izv. Vyssh. Ucheb. Zav. Energetika* No. 7, 79-85 (1961).
- A. A. ZHUKAUSKAS and A. A. SHLYANCHYUSKAS, Heat transfer and resistance of staggered bundles of tubes in the transverse flow of liquids (Teplootdacha i

soprotivlenie shakhmatnykh puchkov trub v poperechnom potoke zhidkostei). *Teplotenergetika* No. 2, 72-75 (1961).

- A. A. ZHUKAUSKAS, A. A. SHLYANCHYAUSSKAS and E. P. YARONIS, An investigation of the influence of ultrasonic waves on heat transfer of bodies in liquids (Issledovanie vliyaniya ultrazvukovykh voln na teploobmen tel v zhidkotoyakh). *Inzh. Fiz. Zh.* 4, No. 1, 58-62 (1961).

HEAT AND MASS TRANSFER WITH PHASE CONVERSIONS

- I. T. ELPERIN, Heat and mass transfer in opposing jets (Teplo-i massoobmen vo vstrechnykh struyakh). *Inzh. Fiz. Zh.* 4, No. 5, 62-68 (1961).
- V. N. GUSAROV and L. M. NIKITINA, The choice of an experimental scale of a substance transfer potential (Vybor eksperimental'noi shka y potentsiala perenosa veshchestva). *Trudy Inst. Energ. Akad. Nauk BSSR* vyp. 2, No. 11, 3-11 (1960).
- V. P. ISACHENKO and V. V. VZOROV, Mass transfer with water evaporation from a porous wall in an air flow (Massootdacha pri isparenii vody iz poristoi stenki, omyvaemoi vozdukhom). *Teplotenergetika* No. 3, 57-61 (1961).
- V. P. ISACHENKO, V. V. VZOROV and V. A. VERTOGRAADSKY, Heat transfer with water evaporation from a porous wall in an air flow (Teplootdacha pri isparenii vody iz poristoi stenki, omyvaemoi vozdukhom). *Teplotenergetika* No. 1, 65-72 (1961).
- V. V. KAFAROV, Interphase turbulence and mass transfer phenomena (Mezhfaznaya turbulentnost' i yavleniya massopredachi). *Zh. Prikl. Khim.* 34, No. 5, 1061-1065 (1961).
- I. A. KOMAROV, Heat transfer with vapour condensation from a vapour-gas mixture (O teploperedache, soprovozhdaemoi kondensatsiei para iz parogazovoi smesi). *Izv. Vyssh. Ucheb. Zav., Khimiya i Khimich. Tekh.* 4, No. 2, 303-309 (1961).
- S. S. KUTATELADZE, The influence of the circulation velocity on the heat transfer coefficient with boiling in tubes (Vliyanie skorosti tsirkulyatsii na koeffitsient teplootdachi pri kipenii v trubakh). *Energomashinostroyeniye* No. 1, 12-15 (1961).
- D. A. LABUNTSOV, Critical heat loads in a forced flow of water not heated to boiling point (Kriticheskie teplovye nagruzki pri vynuzhdennom dvizhenii body, nedogretoi do temperaturny kipeniya). *Atomn. Energiya* 10, vyp. 5, 523-525 (1961).
- D. A. LABUNTSOV, Critical heat loads with boiling of non-heated water at non-stationary heat domains (Kriticheskie teplovye nagruzki pri kipenii nedogretoi vody pri nestatsionarnykh teplovykh rezhimakh). *Inzh. Fiz. Zh.* 4, No. 9, 83-85 (1961).
- A. P. MARKOV, A new method for water vapour condensation in a vacuum (Novyi metod dlya kondensatsii para vody v usloviyakh vakuuma). *Khim. Mashinostroyeniye* No. 6, 6-7 (1960).
- A. P. ORNATSKY and A. M. KICHIGIN, An investigation of the dependence of the critical heat load on mass flow rate, non-heating and pressure (Issledovanie zavisimosti kriticheskoi teplovoi nagruzki ot vesovoi skorosti, nedogreva i davleniya). *Teplotenergetika* No. 2, 75-79 (1961).
- Y. N. PHELKIN, Heat and mass transfer of moist air (Teplo-i massoobmen vlazhnogo vozdukh). *Teplotenergetika* No. 6, 72-75 (1961).
- I. G. PORTNOV, The calculation of condensation and vapour heat conduction when investigating the extinction of a spherical bubble (Uchet kondensatsii i teploprovodnosti para pri issledovanii ugasanii sfericheskogo puzyr'ka). *Vestnik Moskovsk. Univer., Matematika i Mekhanika* No. 6, 84-93 (1960).
- S. N. RYBKIN, Heat transfer in condensers of steam turbines (Teploobmen v kondensatorakh parovykh turbin). *Sb. Statei Vses. Zaochn. Politekh. Inst.* vyp. 24, 16-34 (1960).
- G. T. SERGEYEV, An investigation of external heat and mass transfer with liquid evaporation by a capillary-porous body (Issledovanie vneshnego teplo-i massoobmena pri isparenii zhidkosti kapillyarno-poristym telom). *Inzh. Fiz. Zh.* 4, No. 5, 33-37 (1961).
- G. T. SERGEYEV, Application of the similarity theory to investigations into heat and mass transfer processes with liquid evaporation (Primenenie teorii podobiya k issledovaniyu protsessov teplo-i massoobmena pri isparenii zhidkosti). *Inzh. Fiz. Zh.* 4, No. 9, 76-79 (1961).
- G. T. SERGEYEV, Heat and mass transfer with liquid evaporation into a forced gas flow (Teplo-i massoobmen pri isparenii zhidkosti v vynuzhdennyi potok gaza). *Inzh. Fiz. Zh.* 4, No. 2, 77-81 (1961).
- E. I. SIZYAKOVA, An analytical investigation of internal heat and mass transfer in capillary-porous bodies with phase conversions (Analiticheskoe issledovanie vnutrennego teplo-i massoobmena v kapillyarnoporistykh telakh pri nalichii fazovykh prevrashchenii). *Trudy Moskovsk. Tekhnol. In-ta Pishch. Prom-sti* vyp. 15, 117-126 (1960).
- M. I. VERBA and B. I. LEONCHIK, The calculation of evaporation in pulverizing drying of overheated solutions (K raschetu isparenii pri raspylitel'noi sushke peregretykh rastvorov). *Izv. Vyssh. Ucheb. Zav. Energetika* No. 7, 76-78 (1961).
- B. A. VOLCHOK and V. YA. FRENKEL, Elements of heat calculation of a zone-melting process (Elementy teplovogo rascheta protsessa zonnnoi plavki). *Inzh. Fiz. Zh.* 4, No. 8, 43-48 (1961).
- V. K. ZAVOISKY, Stationary boiling of a volume-heated liquid (Statsionarnoe kipenie ob'emno-nagrevaemoi zhidkosti). *Atomn. Energiya* 10, vyp. 5, 521-523 (1961).

HEAT AND MASS TRANSFER IN CHEMICAL NUCLEAR CONVERSIONS

- N. I. BULEEV, V. N. VVEDENSKY, I. E. NAKHUTIN and V. K. PYSHIN, The calculation of temperature and adsorbent capacity in the presence of internal heat sources (Raschet temperatury i emkosti adsorbenta pri nalichii vnutrennikh istochnikov tepla). *Inzh. Fiz. Zh.* 4, No. 5, 8-11 (1961).

- G. F. DEGTEV, Heat transfer in industrial installations with flame combustion of gases (Teploobmen v promyshlennyykh ustanovkakh pri plamennom szhiganiy gazu). *Sb. Nauch. Trudov Dnepropetrovsk. Inzh.-stroitel. In-ta* vyp. 12, 23–31 (1960).
- V. S. ERMAKOV, I. P. ZHUK and O. I. YAROSHEVICH, Non-stationary heat conduction in heat-producing elements of a nuclear reactor (K voprosu nestatsionarnoi teploprovodnosti v teplovyydelyayushchikh elementakh yadernogo reaktora). *Inzh. Fiz. Zh.* 4, No. 5, 96–99 (1961).
- V. S. ERMAKOV, I. P. ZHUK and O. I. YAROSHEVICH, The calculation of temperatures in heat-producing elements of a nuclear reactor in transient domains (K raschetu temperatur v teplovyydelyayushchikh elementakh yadernogo reaktora v perekhodnykh rezhimakh). *Inzh. Fiz. Zh.* 4, No. 1, 104–108 (1961).
- V. P. IGNATOV, The influence of convective heat transfer on the heat transfer process in combustion chambers (Vliyaniye konvektivnogo teploobmena na protsess teploperedachi v kamerakh goreniya). *Trudy Kuibyshev. Aviats. Inst.* vyp. 12, 173–183 (1961).
- M. I. KAGANOV, R. YA. KUCHEROV and L. E. RIKENGLAZ, On the kinetic theory of a plasma thermoelement at low pressure (K kineticheskoi teorii plazmennogo termoelementa nizkogo davleniya). *Zh. Tekh. Fiz.* 31, vyp. 5, 588–596 (1961).
- E. S. KARASINA and L. I. KROPP, An investigation of heat transfer in a furnace chamber with a screen overheater with combustion of Donets anthracite "AIII" (Issledovanie teploobmena v topochnoi kamere s shirmovym peregrevatelem pri szhiganiy "AIII"). *Teploenergetika* No. 8, 61–67 (1961).
- B. D. KATSNEL'SON and I. YA. MARONE, Inflammation and combustion of a coal dust (O vosplamnenii i goreniy ugol'noi pyli). *Teploenergetika* No. 1, 30–33 (1961).
- P. K. KONAKOV, Equations for the heat process of combustion chambers (Uravenniya teplovogo protsessu kamer sgoraniya). *Trudy Moskovsk. In-ta Inzh.-d. Transp.* vyp. 125, 40–75 (1960).
- V. T. KUMSKOV and V. S. SIDOROV, The calculation of heat transfer in boiler furnaces (K raschetu teploobmena kotel'nykh topok). *Trudy Moskovsk. In-ta Inzh.-d. Transp.* vyp. 125, 132–136 (1960).
- I. L. LYUBOSHITZ, Heating of a dispersive material in a radiation heat exchanger (Nagrev dispersnogo materiala v radiatsionnom teploobmennike). *Inzh. Fiz. Zh.* 4, No. 1, 76–81 (1961).
- P. A. PALIBIN, A. P. SMIRNOV-AVERIN, YU. G. SEVAST'YANOV, L. A. BULANOV and G. A. SHASHARIN, Organic heat transfer agents in reactor engineering (Organicheskie teplonositeli v reaktorostroenii). *Inzh. Fiz. Zh.* 4, No. 5, 127–138 (1961).
- S. M. POKROVSKY, Complicated heat transfer in combustion chambers using liquid fuel (O slozhnom teploobmene v kamerakh sgoraniya, rabotayushchikh na zhidkom toplive). *Trudy Moskovsk. In-ta Inzh.-d. Transp.* vyp. 125, 122–131 (1960).
- M. A. POLYATSKIN, A. A. SHATIL', YA. S. KHOINOVSKY and V. N. BABKIN, Some data on heat transfer in a GTU combustion chamber with natural gas combustion (Nekotorye dannye po teploobmenu v kamere sgoraniya GTU pri szhiganiy prirodnogo gazu). *Teploenergetika* No. 7, 68–72 (1961).

HEAT AND MASS TRANSFER IN DRYING PROCESSES

- M. I. BEILIN and D. S. EMEL'YANOV, A study of the drying process of coal in a fluidized state (boiling layer) (Izuchenie protsessu sushki ugley v psevdoozhizhennom sostoyanii (kipyashchem sloe)). *Ugol' Ukrainy* No. 7, 16–20 (1961).
- M. S. BELOPOLSKY, The change of structure of a colloidal capillary-porous body (clay) in the drying process (Izmeneniye struktury kolloidnogo kapillyarno-poristogo tela (gliny) v protsesse sushki). *Inzh. Fiz. Zh.* 4, No. 4, 49–54 (1961).
- V. A. DANILOV, Methods for investigating combined discontinuous drying (K voprosu o metodike issledovaniya kombinirovannoi preryvistoi sushki). *Trudy Moskovsk. Tekhnolog. In-ta Pishch. Prom-sti* vyp. 15, 101–105 (1960).
- P. N. FEDOSEYEV and A. E. ELET'SKY, Heat drying of wheat with low moisture drops in grain (Teplovaya sushka pshenitsy pri mal'nykh perepadakh vlagi v zerne). *Inzh. Fiz. Zh.* 4, No. 2, 63–69 (1961).
- V. M. KAZANSKY, The determination of the heat of evaporation of moisture contained in a porous body (Opredeleniye teploty ispareniya vlagi, zaklyuchennoi v poristom tele). *Inzh. Fiz. Zh.* 4, No. 8, 36–42 (1961).
- M. F. KAZANSKY, The effect of temperature on the state of absorbed capillary moisture in macropores of a dispersive body (Vliyaniye temperatury na sostoyanie poglashchennoi kapillyarnoi vlagi v makroporakh dispersnogo tela). *Inzh. Fiz. Zh.* 4, No. 3, 53–57 (1961).
- V. V. KRASNNIKOV and V. A. DANILOV, The heat and mass transfer of capillary-porous bodies with conductive-convective drying (Teplo-i massoperenos pri konduktivno-konvektivnoi sushke kapillyarno-poristykh tel). *Inzh. Fiz. Zh.* 4, No. 6, 27–32 (1961).
- YU. A. MIKHAILOV, Heat and mass transfer during pressure drop (Teplo-i massoobmen pri sbrose davleniya). *Inzh. Fiz. Zh.* 4, No. 2, 33–43 (1961).
- A. E. PROTSKY, Generalized results of investigations on milling peat drying in a cyclone (Obobshchennyye rezultaty issledovaniy sushki frezernogo torfa v tsiklone). *Izv. Vyssh. Ucheb. Zav., Energetika* No. 5, 57–59 (1961).
- E. I. SIZYAKOVA, An investigation into the drying process of capillary-porous bodies (K issledovaniyu protsessu sushki kapillyarno-poristykh tel). *Trudy Moskovsk. Tekhnol. In-ta Pishch. Prom-ti* vyp. 15, 93–100 (1960).
- E. I. SIZYAKOVA, An experimental investigation into the kinetics and dynamics of the drying process of capillary porous bodies (Eksperimental'noe issledovanie kinetiki i dinamiki protsessu sushki kapillyarno-poristykh tel). *Trudy Moskovsk. Tekhnol. In-ta Pishch. Prom-sti* vyp. 15, 51–57 (1960).
- P. T. SMENKOVSKAYA and K. B. GISINA, Heat and mass transfer in drying by sublimation in a vacuum (Teplo-i massoobmen pri sushke sublimatsiei v vakuume).

Trudy In-ta Energ. Akad. Nauk BSSR vyp. 11, 71-77 (1960).

M. S. SMIRNOV, The system of differential equations for the drying process (O sisteme differentsial'nykh uravnenii protsessa sushki). *Inzh. Fiz. Zh.* 4, No. 9, 40-44 (1961).

HEAT AND MASS TRANSFER IN THE PRODUCTION OF BUILDING MATERIALS AND CONSTRUCTIONS

E. KH. ODEL'SKY, Internal and external heat transfer of concrete heating panels (Vnutrennii i vneshnii teploobmen betonnykh otopitel'nykh panelei). *Izv. Vyssh. Ucheb. Zav. Energetika* No. 1, 65-72 (1961).

THERMOPHYSICAL PROPERTIES OF VARIOUS MATERIALS. HEAT AGENTS AND THE METHODS OF THEIR DETERMINATION. THERMODYNAMICS

V. A. BORISEVICH, The determination of the true specific weight of loose substances by the buoyancy method (Opreделение istinnogo udel'nogo vesa sypuchikh veshchestv metodom vytalkivayushchei sily). *Trudy In-ta Energ. Akad. Nauk BSSR* vyp. 11, 12-26 (1960).

E. YU. BRAININA, The influence of moisture on the thermal conductivity coefficient of loose materials (Vliyanie vlazhnosti na koeffitsient teploprovodnosti sypuchikh materialov). *Inzh. Fiz. Zh.* 4, No. 5, 104-107 (1961).

L. A. BROVKIN, The error of non-stationary methods for determining thermal coefficients of hygroscopic solids (K voprosu o pogreshnosti nestatsionarnykh metodov opredeleniya termicheskikh koeffitsientov gigroskopicheskikh tverdykh tel). *Inzh. Fiz. Zh.* 4, No. 3, 127-130 (1961).

L. A. BROVKIN, The determination of the thermal diffusivity coefficient in a quasi-stationary domain (Opreделение koeffitsienta temperaturoprovodnosti pri kvazistatsionarnom rezhime). *Zavodskaya Lab.* 27, No. 5, 578-581 (1961).

A. M. BUTOV, A method for determining heat conductivity and thermal diffusivity coefficients (Metod opredeleniya koeffitsientov teploprovodnosti i temperaturoprovodnosti). *Zavodskaya Lab.* 27, No. 1, 35-38 (1961).

A. S. EPSHTEIN, An installation for determining heat conductivity coefficients of light concretes and other building materials (Pribor dlya opredeleniya koeffitsientov teploprovodnosti legkikh betonov i drugikh stroitel'nykh materialov). *Trudy Sibirsk. Filiala Akad. Stroitel'stva i Arkhitektury SSSR* vyp. 3, 42-50 (1960).

N. S. FASTOV, Deformation developed in a body at the stationary creep phase and transition of microcreep to macrocreep from the viewpoint of thermodynamics of irreversible processes (O deformatsii, razvivsheysya v tele na statsionarnoi stadii polzuchesti i perekhoda mikropolzuchesti v makropolzuchest', s tochki zreniya termodinamiki neobratimyykh protsessov). *Dokl. Akad. Nauk SSSR* 137, No. 2, 323-330 (1961).

B. I. FEDOROV and Z. P. SHULMAN, Application of permeable porous ceramics for the experimental study of mass transfer phenomena (Primenenie pronitsaemoi poristoi keramiki dlya eksperimental'nogo izucheniya yavlenii massoobmena). *Inzh. Fiz. Zh.* 4, No. 2, 99-102 (1961).

E. M. FRADKINA and A. V. KOZYUKOV, The turbulent flow of a conducting liquid under the influence of electrodynamic forces (O turbulentnom techenii provodyashchei zhidkosti pod deistviem elektrodinamicheskikh sil). *Zh. Tekh. Fiz.* 31, vyp. 3, 283-285 (1961).

YU. E. FRAIMAN and E. V. KATIBNIKOVA, On the problem of obtaining rectilinear heating (K voprosu o polucheni pnyamolineinogo nagreva). *Trudy Inst. Energ. Akad. Nauk BSSR* vyp. 11, 27-30 (1960).

G. E. IVANCHIKHIN, An experimental investigation of heat and electrical conduction of steel X18N9T (Eksperimental'noe issledovanie teploprovodnosti i elektroprovodnosti stali X18N9T). *Inzh. Fiz. Zh.* 4, No. 6, 128-131 (1961).

V. M. IVANOV, L. P. FILIPPOV and T. L. SMETANNIKOVA, Heat conduction of fuel-water emulsions (Teploprovodnost' toplivo-vodyanykh emulsiy). *Teploenergetika* No. 8, 68-72 (1961).

M. A. KAGANOV, I. S. LISKER and A. F. CHUDNOVSKY, The velocity method for determining heat conduction of semiconductor materials (Skorostnoi metod opredeleniya teploprovodnosti poluprovodnikovyykh materialov). *Inzh. Fiz. Zh.* 4, No. 3, 110-112 (1961).

D. D. KALAFATI, Thermodynamic analysis of heat transfer conditions in steam generators of atomic electric power stations (Termodinamicheskii analiz uslovii teploobmena v parogeneratorakh atomnykh elektrostantsii). *Teploenergetika* No. 6, 16-20 (1961).

YU. A. KIRICHENKO, The determination of thermophysical coefficients by the method of thermal waves (Opreделение teplofizicheskikh koeffitsientov metodom temperaturnykh voln). *Inzh. Fiz. Zh.* 4, No. 5, 12-15 (1961).

V. A. KIRILLIN, A. E. SHEINDLIN and V. Y. CHEKHOVSKY, The experimental determination of corundum enthalpy (Al_2O_3) at temperatures from 500° to 2000°C (Eksperimental'noe opredelenie entalpii korunda (Al_2O_3) pri temperaturakh ot 500° do 2000°C). *Inzh. Fiz. Zh.* 4, No. 2, 3-17 (1961).

G. A. KHACHKURUZOV and I. S. MILEVSKAYA, The calculation of thermodynamic functions of polyatomic gases with non-hard molecules (K vychisleniyu termodinamicheskikh funktsii mnogoatomnykh gazov s neshzimaemyimi molekulami). *Zh. Fiz. Khim.* 34, No. 11, 2554-2560 (1960).

A. G. KHARLAMOV, The determination of the heat conduction of insulated materials up to 2000°C (Opreделение teploprovodnosti teploizolyatsionnykh materialov do temperatury 2000°C). *Teploenergetika* No. 3, 64-66 (1961).

R. E. KRZHIZHANOVSKY, An investigation of the heat and electrical conduction of some alloys based on titanium (Issledovanie teploprovodnosti i elektro-

- provodnosti nekotorykh splavov na osnove titana). *Teploenergetika* No. 6, 56–61 (1961).
- R. A. MAMEDOVA and A. R. ISMET, Heat conduction of rocks in the oil regions of the Apsheron peninsula (O teploprovodnosti porod v neftnykh raionakh Apsheronского poluostrova). *Izv. Vyssh. Ucheb. Zav. Neft' i Gaz* No. 1, 79–81 (1961).
- V. S. MARTYNOVSKY and A. M. VOITKO, The Rank effect at low pressures (Effekt Ranka pri nizkikh davleniyakh). *Teploenergetika* No. 2, 80–85 (1961).
- N. N. MEDVEDEV, The determination of temperature elongation coefficients of bodies by the method of a non-stationary domain (Opredelenie temperaturnykh koefitsientov udlineniya tel metodom nestatsionarnogo rezhima). *Inzh. Fiz. Zh.* 4, No. 1, 44–49 (1961).
- V. G. MOROZOV, The influence of liquid physical properties on critical heat flow at boiling (Issledovanie vliyaniya fizicheskikh svoystv zhidkosti na kriticheskie teplovye potoki pri kipenii). *Izv. Vyssh. Ucheb. Zav. Energetika* No. 1, 73–81 (1961).
- G. E. MOROZOV, An experimental determination of the effective coefficient of heat conduction and diffusion for bodies with channel porosity by the electrical analogy method (Eksperimental'noe opredelenie effektivnogo koefitsienta teploprovodnosti i diffuzii dlya tel s kanal'noi poristost'yu metodom elektricheskoi analogii). *Inzh. Fiz. Zh.* 4, No. 2, 103–105 (1961).
- I. N. NAUMOVA, The approximation of thermodynamic functions for air (Approksimatsiya termodinamicheskikh funktsii vozdukh). *Zh. Vychislitel'noi Matematiki i Matematicheskoi Fiz.* 1, No. 2, 295–300 (1961).
- I. I. NOVIKOV, The calculation of outflow of saturated and moist vapours from nozzles (K raschetu istecheniya nasyshchennykh i vlahnykh parov iz sopol). *Teploenergetika* No. 6, 9–11 (1961).
- F. S. ORTENBERG, The problem of thermodynamic equilibrium in an arc discharge (K voprosu o termodinamicheskom ravnovesii v dugovom razryade). *Inzh. Fiz. Zh.* 4, No. 5, 94–95 (1961).
- E. A. URUDZHALIEV, The influence of compressibility on the hydrodynamic resistance coefficient and calculation equations for main gas lines (Vliyanie szhimaemosti na koefitsient gidrodinamicheskogo soprotivleniya i raschetnye uravneniya v magistral'nykh gazoprovodakh). *Izv. Vyssh. Ucheb. Zav. Neft' i Gaz* No. 3, 81–90 (1961).
- V. A. OVSYANNIKOV, D. G. BULYGINSKY, B. V. GALAKTIONOV and K. A. DOLMATOVA, The method of measuring plasma temperature in systems with magnetic mirrors (Metod izmereniya temperatury plazmy v sistemakh s magnitnymi probkami). *Zh. Tekh. Fiz.* 31, vyp. 5, 577–581 (1961).
- L. I. RUDAKOV and R. Z. SAGDEYEV, The non-stability of a non-uniform rarefied plasma in a strong magnetic field (O neustoiichivosti neodnorodnoi razrezhennoi plazmy v sil'nom magnitnom pole). *Dokl. Akad. Nauk SSSR* 138, No. 3, 581–583 (1961).
- S. V. RYZHKOV, An experimental method for calculating heat transferred by radiation and conduction when investigating heat transfer of a cylinder in an air flow (Eksperimental'nyi metod ucheta tepla, peredavaemogo radiatsiei i teploprovodnost'yu pri issledovaniyakh teplootdachi tsilindra v vozdushnom potoke). *Trudy Nikolaevsk. Korablestroitel'nogo. In-ta* vyp. 22, 61–63 (1961).
- V. L. SERGEYEV, The calculation of thermodynamic functions of a high-temperature air-carbon mixture (Raschet termodinamicheskikh funktsii vysokotemperaturnoi vozdušno-ugol'noi smesi). *Inzh. Fiz. Zh.* 4, No. 4, 16–24 (1961).
- A. G. SHASHKOV, YU. E. FRAIMAN, A. B. VERZHINSKAYA and E. V. KATIBNIKOVA, Some methods for determining thermophysical characteristics of materials at room and average temperatures (O nekotorykh metodakh opredeleniya teplofizicheskikh kharakteristik materialov pri komnatnykh i srednikh temperaturakh). *Inzh. Fiz. Zh.* 4, No. 9, 111–119 (1961).
- K. L. SHEPTUNOV, The dependence of the heat conduction coefficient on the difference of temperatures of both loose and monolithic materials (Zavisimost' koefitsienta teploprovodnosti ot raznosti temperatur sypuchikh i monolitnykh materialov). *Inzh. Fiz. Zh.* 4, No. 1, 127–130 (1961).
- YU. P. SHLYKOV and V. S. UDALOV, Heat conduction of small shot fillings in various gas media (Teploprovodnost' zasypki iz drobi v razlichnykh gazovykh sredakh). *Teploenergetika* No. 4, 73–76 (1961).
- E. E. SHPILRAIN and E. I. ASINOVSKY, The calculation of the thermodynamic properties and the construction of the i - s -diagram for alkali metals (Raschet termodinamicheskikh svoystv i postroenie i - s -diagrammy dlya shchelochnykh metallov). *Inzh. Fiz. Zh.* 4, No. 2, 18–26 (1961).
- M. D. SMOLIN and I. N. FRANTSEVICH, An investigation into the temperature dependence of electrical transfer in alloys based on infusible metals (Issledovanie temperaturnoi zavisimosti elektroprenosa v splavakh na osnove tugoplavkikh metallov). *Dokl. Akad. Nauk SSSR* 136, No. 1, 81–83 (1961).
- R. L. STRATONOVICH, Fluctuation thermodynamics of non-equilibrium processes (Fluktuatsionnaya termodinamika neravnovesnykh protsessov). *Zh. Eksp. i Teor. Fiz.* 39, vyp. 6 (12), 1647–1659 (1960).
- T. F. TAGANTSEVA and YU. G. BUROV, Heat conduction of capillary-porous bodies at negative temperatures (O teploprovodnosti kapillyarno-poristykh tel pri otritsatel'nykh temperaturakh). *Stroitel'nye Materialy* No. 1, 31–32 (1961).
- A. A. TARZIMANOV, Heat conduction of monoatomic gases (O teploprovodnosti odnoatomnykh gazov). *Inzh. Fiz. Zh.* 4, No. 9, 86–89 (1961).
- A. A. VASSERMAN and V. A. ZAGORUCHENKO, Thermodynamic properties of natural gases in an ideal-gas state (Termodinamicheskie svoystva prirodnykh gazov v ideal'no-gazovom sostoyanii). *Izv. Vyssh. Ucheb. Zav. Neft' i Gaz* No. 4, 69–72 (1961).
- K. P. VISHNEVSKY, An investigation into heat transfer in a layer by the method of a regular heat domain (Issledovanie teplootmena v sloe metodom teplovogo regul'yarnogo rezhima). *Trudy Kuibyshevskogo Aviats. In-ta* vyp. 12, 185–192 (1961).

- S. M. VOLOSOV, A new substantiation of the second law of thermodynamics (Novoe obosnovanie vtorogo zakona termodinamiki). *Izv. Vyssh. Ucheb. Zav. Energetika* No. 12, 69-73 (1960).
- M. P. VUKALOVICH, V. N. ZUBAREV, YU. YA. KALININ and A. A. ALEKSANDROV, The equation for the water state based on experimental data (Uravnenie sostoyaniya vody, osnovannoe na eksperimental'nykh dannykh). *Teploenergetika* No. 4, 76-81 (1961).
- V. B. ZENKEVICH, The application of the similarity method to studying heat conduction of liquid fuels (Primenenie metoda podobiya k izucheniyu teploprovodnosti zhidkikh topliv). *Inzh. Fiz. Zh.* 4, No. 7, 35-39 (1961).