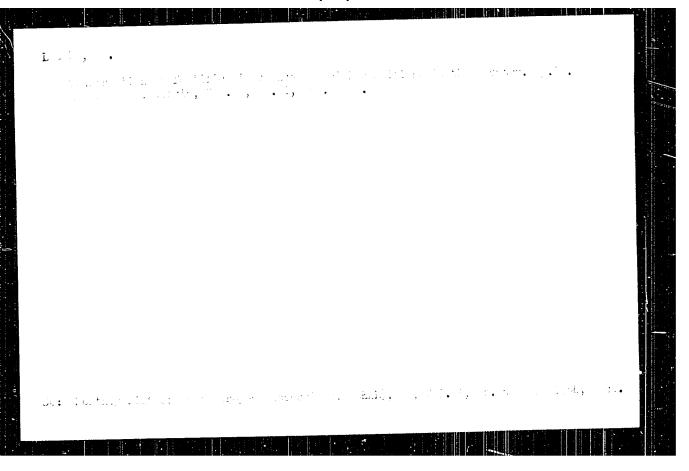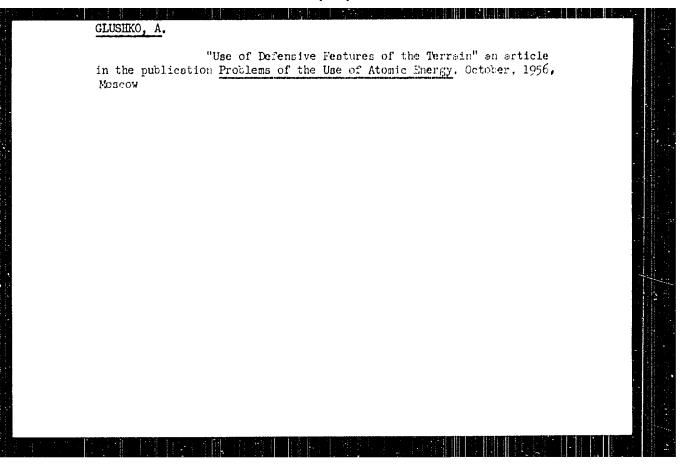GLUSHKO, A. (Col.)
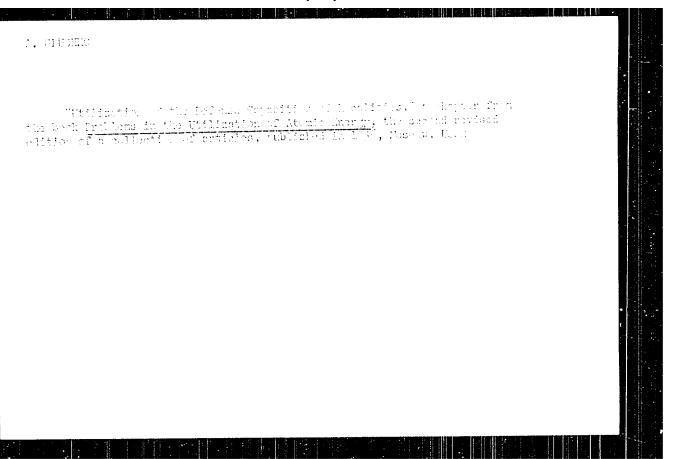
Lecturer, Bachelor of Technical Sciences;

Author of "Atomic Shelters Under Snow"

Trans. - D 191868

SO: Krasnaya Zvezda, Moskva, 29 Jan 1955.

GLUSHKO, A.

            "Use of Defensive Features of the Terrain" an article
in the publication Problems of the Use of Atomic Energy. October, 1956,
Moscow

I. STUDIES

"Radioactivity of the Defense Composition and Radiations," a chapter from the book Problems in the Utilization of Atomic Energy, the second revised edition of a collection of articles, published in 1957, Moscow, USSR.
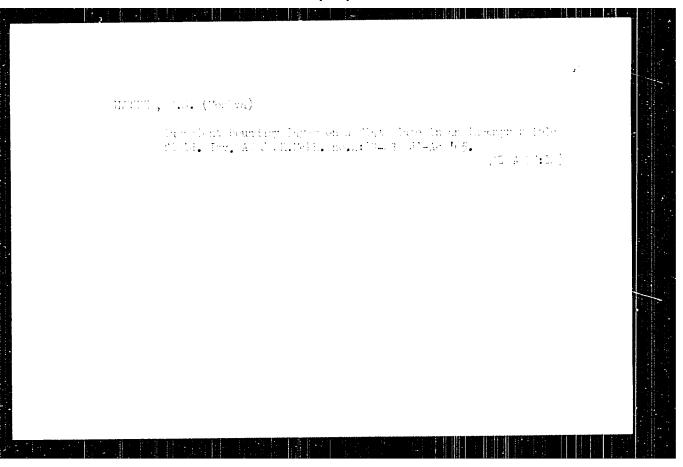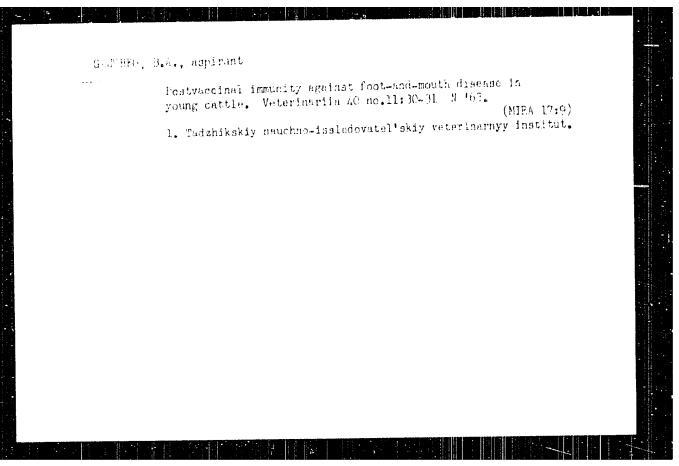
VISHNEVSKIY, A.S.; KHODYKIN, A.V.; Prinimx   ucnastiye: VESELOV, I.A.,
    vrach; PINCHUKOV, Ye.F., vrach; GLUF;KO, B.I., vrach;
    CHVAMANIYA, A.Ye., vrach; FILIPPOVA, Ye.I., vrach; GOLUBOVA, L.M.,
    vrach; SHEVCHENKO, M.M., vrach; MALYGINA, V.F., vrach

Sanatorium and health resort treatment of chronic pancreatitis
(immediate and late results). Trudy TSIU 72:110-122 '64.
                                        (MIRA 18:11)
1. Kafedra kurortnoy terapii (zav. prof. A.S. Vishnevskiy)
TSentral'nogo instituta usovershenstvovaniya vrachey.

GOLLBERG, B.A., aspirant

Postvaccinal immunity against foot-and-mouth disease in young cattle. Veterinariia 40 no.11: 30-31 N '63.
(MIRA 17:9)

1. Tadzhikskiy nauchno-issledovatel'skiy veterinarnyy institut.

GLUSHKO, B.A., aspirant; LIKHACHEV, N.V., prof., nauchnyy rukovoditel' raboty

Dynamics of the titer of antibodies in newborn calves during
foot-and-mouth disease. Veterinariia 41 no.8:20-21 Ag '64.
(MIRA 18:4)

1. Tadzhikskiy nauchno-issledovatel'skiy veterinarnyy institut.

VISHNEVSKIY, A.S., prof.; KHODYKIN, A.V., kand.med.nauk; Prinimali uchastiye:
GLUSHKO, B.I., vrach; CHVAMANIYA, A.Ye., vrach; TURANSKAYA, A.G.,
vrach; LEVITSKAYA, A.S., vrach; GOLUBEVA, L.V., vrach.

Use of cortisone and dehydrocortisone in the treatment of severe
hepatitis and liver cirrhosis. Vrach. delo no.8:35-38 Ag '61.
(MIRA 15:3)

1. Kurortnaya poliklinika, Yessentuki.
(CORTISONE)
(LIVER--DISEASES)

GLUSHKO, B.V., zasl. agronom Moldavskoy SSR, kand. sel'khoz. nauk;
    YANKOVSKAYA, I.F., agronom-ekonomist; PARIN, V., red.;
    GORYACHENKO, F., tekhn. red.

[Efficient use of collective-farm land] Po-khoziaiski ispol'-
zovat' kolkhoznuiu zemliu. Kishinev, Izd-vo sel'khoz.lit-ry
MSKh MSSR, 1962. 20 p.   (MIRA 15:7)

1. Predsedatel' kolkhoza "Vyatsa nouye" Teleneshtskogo rayona
(for Glushko). 2. Kolkhoz "Vyatsa nouye" Teleneshtskogo rayona
(for Yankovskaya).
                    (Teleneshty District--Agriculture)

GLUSHKO, B.V., zasluzhennyy agronom Moldavskoy SSR, kand. sel'skokhoz. nauk;
    BUKHAR, I.Ye., kand. sel'skokhoz. nauk

    Improve the system of agriculture. Zemledelie 25 no.5:3-6 My
    '63.   (MIRA 16:7)

    1. Predsedatel' kolkhoza "Vyatsa noue", Moldavskaya SSR (for
    Glushko).   (Moldavia—Agriculture)

L 56515-65   EWT(l)/EWA(h)   Feb

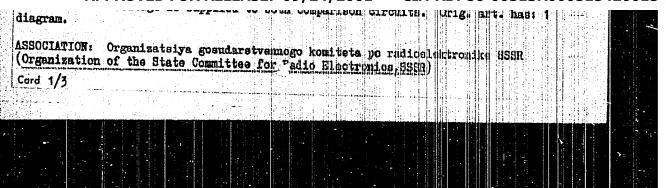ACCESSION NR: AP5016721   UR/0286/65/000/010/0040/0040

AUTHORS: Lipinskiy, G. V.; Notkin, L. R.; Glushko, E. N.; Graham, K. V.

TITLE: Rectangular pulse generator. /Class 21, No. 171020

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 40

TOPIC TAGS: pulse generator

ABSTRACT: This Author Certificate presents a rectangular pulse generator containing a double branch trigger. A sawtooth voltage generator and a circuit for comparing the sawtooth voltage with a reference, connected to one of the inputs of the trigger
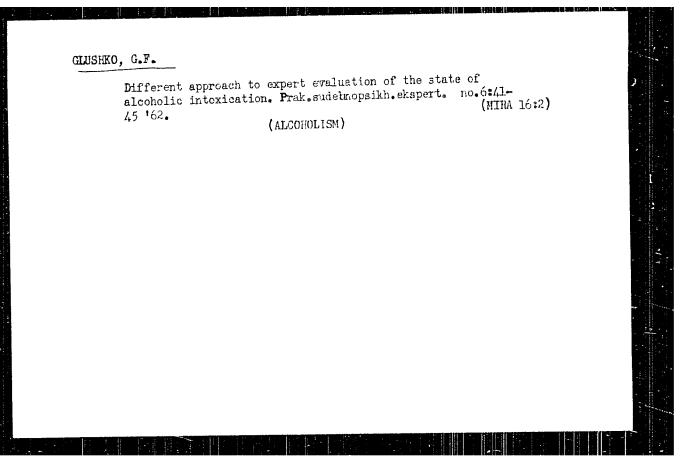
diagram.

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po radioelektronike USSR
(Organization of the State Committee for Radio Electronics, USSR)

Card 1/3

L 56515-65
ACCESSION NR: AP5016721

SUBMITTED: 17Jul64   ENCL: 01   SUB CODE: EC

NO REF SOV: 000   OTHER: 000

Card 2/3

GLUSHKO, G.A., inzh.

Some shortcomings on electrified sections. Elek. i tepl. tiaga 2
no.7:40   Jl '58.   (MIRA 11:7)

1. Depo Oktyabr', Yuzhnaya doroga.
                    (Electric railroads--Signaling)

GLUSHKO, G.F.

Different approach to expert evaluation of the state of
alcoholic intoxication. Prak.sudebnopsikh.ekspert.   no.6:41-
45 '62.   (MIRA 16:2)

(ALCOHOLISM)

GLUSHKO, G.S. (Moscow)

"The turbulent boundary layer in an incompressible fluid".

report presented at the 2nd All-Union Congress on Theoretical and Applied
Mechanics, Moscow, 29 Jan - 5 Feb 64.

L 1458-66   EWT(1)/EWP(m)/EWP(w)/FCS(k)/EWA(1)   WW/EM
ACCESSION NR: AP5021708   UR/0373/65/000/004/0013/0023

AUTHOR: Glushko, G. S. (Moscow)

TITLE: Turbulent boundary layer on a flat plate in an incompressible fluid

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 4, 1965, 13-23

TOPIC TAGS: turbulent flow, boundary layer, incompressible fluid, correlation
function, Navier Stokes equation

ABSTRACT: The concept of mixing length and Reynolds' stresses was used to study
analytically and experimentally the flow of an incompressible turbulent fluid over a
flat plate. The flow parameters in the Navier-Stokes equations were expressed as
the sum of a mean quantity and a time averaged pulsating quantity. From this, an
expression is obtained for the effective viscosity ε as a function of the Reynolds'
stresses only

$$r = \frac{(\mu p_{x})}{\nu \mu^{2}(\sigma_{x})} \cdot \frac{r^{2}}{(r+9)(r+1)}^{2r}$$

$$\left(r = \frac{l^{2}l}{\nu}\right).$$

From an analysis of experimental data this viscosity was expressed as a function of
the turbulent Reynolds' number according to the piecewise smooth function

Card 1/3

L 1458-66
ACCESSION NR: AP5021708

$$r = H(r)\,a\,r$$

$$H(r) = \begin{cases} r/r_0 & 0 < r/r_0 < 0.75 \\ r/r_0 & (r/r_0 - 0.75)^2\, 0.75 < r/r_0 < 1.25 \\ 1 & 1.25 < r/r_0 < \infty \end{cases}$$

Next, the complicated momentum and energy equations for the Reynolds' stresses are simplified into a set of three equations

$$U_1 \frac{\partial U_1}{\partial r_1} + U_2 \frac{\partial U_1}{\partial r_2} = -\frac{1}{\rho}\frac{\partial p}{\partial r_1} + \frac{\partial}{\partial r_2}\left(\nu M \frac{\partial U_1}{\partial r_2}\right)$$

$$\frac{\partial U_1}{\partial r_1} + \frac{\partial U_2}{\partial r_2} = 0$$

$$U_1 \frac{\partial e}{\partial r_1} + U_2 \frac{\partial e}{\partial r_2} = \frac{\partial}{\partial r_2}\left(\nu D \frac{\partial e}{\partial r_2}\right) + \nu(M-1)\left(\frac{\partial U_1}{\partial r_2}\right)^2 - \nu C D \frac{e}{L^2}$$

$$M = 1 + e(r), \quad D = 1 + e(\varkappa r), \quad L/\delta = \psi(r_0/\delta),$$

the last of which is the total-turbulent energy equation. These three equations are then integrated numerically, using the method of meshes with boundary condition $x_2 = 0$; $U_1 = U_2 = e = o$ and $x_2 \to \infty$, $U_1 \to U_\infty$, $e \to o$. As an initial input, the calculation was started with a Blasius profile. Mean values were obtained for the constants a, r_0, C, $\varkappa$ from available experimental data, and the scale of turbulence was obtained empirically. The computation results show three flow domains:

Card 2/3

L 14588-66
ACCESSION NR: AP5021708

laminar, transition, and turbulent. The onset of transition depends on the magnitude of turbulent energy in the initial cross sections. The laminar and turbulent solutions, on the other hand, were independent of initial cross section energies. The calculation results were plotted graphically as velocity and total energy-of-turbulence distribution curves, and skin friction versus Reynolds' number. The results are shown to compare very well with experimental data. Orig. art. has: 29 equations and 10 figures.

ASSOCIATION: none

SUBMITTED: 27Apr64   ENCL: 00   SUB CODE: ME

NO REF SOV: 004   OTHER: 005

Card 3/3

GLUSHKO, G.T.

Design and kinematics of a kind of cardan homokinetic joints. Trudy SADI no.16 pt.1:70-74 '59.   (MIRA 13:11)
            (Motor vehicles--Axles)
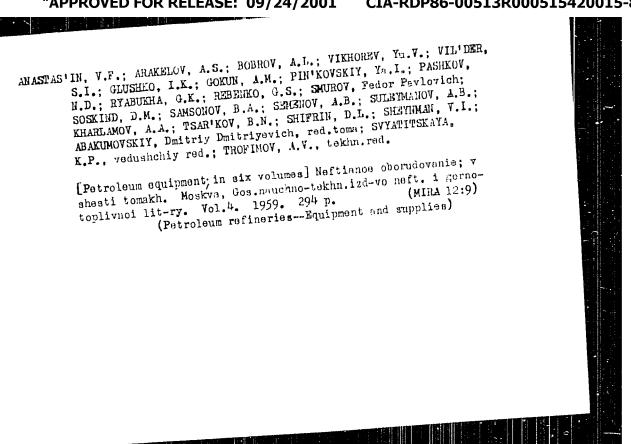
GLUSHKO, G.T., kand. tekhn. nauk; SHESTERIKOV, N.A., dots., kand. tekhn. nauk, otv. za vyp.

[Methods manual on the course "Theory of mechanisms and machines"] Uchebno-metodicheskoe posobie po kursu "Teoriia mekhanizmov i mashin." Sost. G.T.Glushko. Saratov. Pt.2. 1963. 115 p. ___ [Album of drawings...] Al'bom chertezhei k... 1 v. (MIRA 17:4)

ANASTAS'IN, V.F.; ARAKELOV, A.S.; BOBROV, A.L.; VIKHOREV, Yu.V.; VIL'DER, S.I.; GLUSHKO, I.K.; GOKUN, A.M.; PIN'KOVSKIY, Ya.I.; PASHKOV, N.D.; RYABUKHA, G.K.; REBENKO, G.S.; SMUROV, Fedor Pavlovich; SOSKIND, D.M.; SAMSONOV, B.A.; SEMENOV, A.B.; SULEYMANOV, A.B.; KHARLAMOV, A.A.; TSAR'KOV, B.N.; SHIFRIN, D.L.; SHEYNMAN, V.I.; ABAKUMOVSKIY, Dmitriy Dmitriyevich, red.toma; SVYATITSKAYA, K.P., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Petroleum equipment; in six volumes] Neftianoe oborudovanie; v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.4. 1959. 294 p.   (MIRA 12:9)
          (Petroleum refineries—Equipment and supplies)

GLUSHKO, I.K.

Problems in the design and manufacture of petroleum-chemical
equipment. Standartizatsiia 28 no.5:16-18 My '64.

(MIRA 17:12)

1. Glavnyy inzh. TSentral'nogo konstruktorskogo byuro nefte-
apparatury.

SHEVKUNOVA, Ye.A.; GLUSHKO, I.V.

Susceptibility of gerbils and water voles to toxoplasmosis
in an experiment. Zool. zhur. 42 no.6:956-959 '63.
(MIRA 16:7)
1. Laboratory of Toxoplasmosis, Department of Infections of
Natural Nidality, Institute of Epidemiology and Microbiology,
Academy of Medical Sciences, Moscow and Anti-Plague Institute
of the Caucasus and Transcaucasia, Stavropol Caucasian.
        (Toxoplasmosis)
        (Rodents as carriers of disease)

LUKASHEVICH, P.A.; ZEYLIKMAN, Kh.N.; GLUSHKO, K.B.; GURBONOV, E.,red.;
    GORYACHENKO, F., tekhn. red.

    [New machines for fruit culture and viticulture] Novye mashiny
    dlia sadovodstva i vinogradarstva. Kishinev, Izd-vo sel'khoz.
    lit-ry MSKh MSSR, 1962. 145 p.   (MIRA 15:6)
        (Moldavia Fruit culture) (Moldavia--Viticulture)

GLUSHKO, K.B.

Needle-shaped plant feeder. Trakt. i sel'khozmash. 32 no.6:34-36
Je '62.   (MIRA 15:6)

1. Moldavskiy nauchno-issledovatel'skiy institut sadovodstva,
vinogradarstva i vinodeliya.
                 (Viticulture--Equipment and supplies)
           (Fertilizers and manures--Equipment and supplies)

ACCESSION NR: AP4038417   S/0166/64/000/002/0014/0022

AUTHOR: Glushko, K. S.

TITLE: On one possible generalization of differential equations for the motion of
nonholonomic mechanical systems

SOURCE: AN UzSSR. Izv. Seriya fiziko-metematicheskikh nauk, no. 2, 1964, 14-22

TOPIC TAGS: differential equation, nonholonomic mechanical system, motion,
quasiparameter

ABSTRACT: Using the equations of P. W. Woronetz (über die Bevegung eines sterren
Körpers derohne Obitung auf einer belibigen Fläche rollt, Math, Ann, Band, 70, 1911),
as a particular case, the author investigated motion equations of nonholonomic
mechanical systems within quasicoordinates with linear, nonstationary couplings. The
author conducted differentiation operations along nonholonomic parameters based on
the system of subordination of n-m independent Pfaff equations:

$$\overset{p}{\underset{\lambda}{\Phi}}\, dx^\lambda + \overset{p}{\Phi}_0 dt = 0*$$

(1.1)

$$\lambda = 1,2,\ldots,n; \quad p = 1,2,\ldots, n - m$$

Card 1/2

MALINOVSKIY, M.S.; SOLOMKO, Z.F.; GLUSHKO, L.P.

      Sulfanilides. N-sulfonyl derivatives of thiourea.
      Ukr.khim.zhur. 28 no.8:952-954 '62.   (MIRA 15:11)

    1. Dnepropetrovskiy gosudarstvennyy universitet.
                 (Urea)
           (Sulfonyl group)

MALINOVSKIY, M.S.; SOLOMKO, Z.F.; GLUSHKO, L.P.

Sulfanilides. Part 2: N-sulfanyl derivatives of thiourea.
Zhur.ob.khim. 32 no.3:728-731 Mr '62.   (MIRA 15:3)

1. Dnepropetrovskiy gosudarstvennyy universitet.
                (Urea) (Sulfanilide)

MALINOVSKIY, M.S.; SOLOMKO, Z.F.; GLUSHKO, L.P.

Sulfanilides. Part 5: N-chloroacetyl derivatives of
sulfanilides. Zhur.ob.khim. 32 no.10:3195-3197 O '62.
(MIRA 15:11)
1. Dnepropetrovskiy gosudarstvennyy universitet.
(Sulfanilide)

MALINOVSKIY, M.S.; SOLOMKO, [illegible]

Sulfanilides. N-chloroacetyl derivatives of arenesulfanizidides, arenesulfphenetidides, and arenesulftoluidides. Ukr.khim.zhur. 29 no.6:614-615 '63.   (MIRA 16:9)

(Sulfaniline)

GLUSHKO, L.P.; SOLOMKO, Z.F.; MALINOVSKIY, M.S.

Sulfanilides. Part 7: Ethyl esters of N-arylsulfonyl-N-phenyl-carbamic acid. Zhur.ob.khim. 33 no.2:612-613 F '63.

(MIRA 16:2)

1. Dnepropetrovskiy gosudarstvennyy universitet.
(Carbanilic acid)   (Sulfanilide)

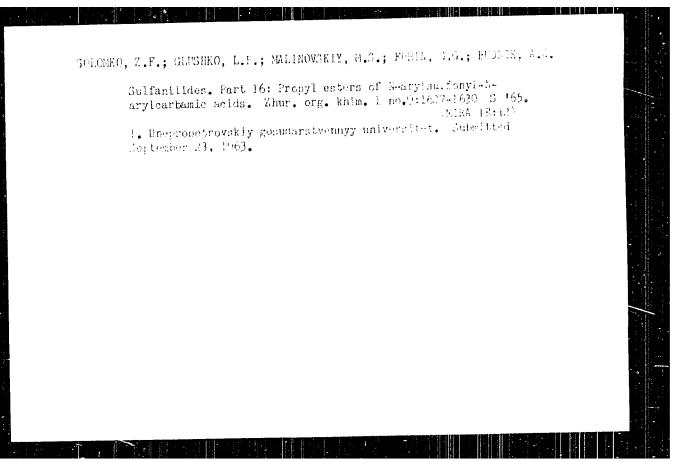SOLONKO, Z.F.; GLUSHKO,L.P.; MALINOVSKIY, M.S.

Sulfanilides. Part II.Methyl esters of N-arylsulfonyl-
N-phenylcarbamic acid. Zhur. ob. khim. 34 no. 7:2392-2394
Jl '64.
                                                    (MIRA 17:8)

1. Dnepropetrovskiy gosudarstvennyy universitet.

KIRPAL, A.; SUCHOMEL, J.; MALINOVSKIY, M.S.; DAK, K.A.

Hydrolytic properties of aryl esters of N-arylsulfonyl-N-arylcarbamic
acid. Zhur. org. khim. 1 no.1:141-144. Ja '65.   (MIRA 18:5)

1. Kievskiy politekhnicheskiy universitet.

SOLOMKO, Z.F.; GLUSHKO, L.P.; MALINOVSKIY, M.S.; FURIK, G.G.; BUDNIK, A.S.

Sulfanilides. Part 16: Propyl esters of N-arylsulfonyl-N-
arylcarbamic acids. Zhur. org. khim. 1 no.9:1627-1630 S '65.
(MIRA 18:11)

1. Dnepropetrovskiy gosudarstvennyy universitet. Submitted
September 23, 1963.

GLUSHKO, M.F., Cand Tech Sci -- (diss) " Longitudinal
and torsion deformations of mine hoisting cables."
Khar'kov, 1958, 13 pp. (Min of Higher Education UkSSR.
Khar'kov Mining Inst) 150 copies (KL, 39-58, 109)

- 29 -

GLUSHKO, M.F.

Differential equations for the statics and the dynamics of
hoisting ropes. Sbor.nauch.trud. KhGI 5:235-248 '58.

(MIRA 14:4)

(Hoisting machinery)
(Wire ropes)

GLUSHKO, M.F.

Propagation of elastic waves in steel wire ropes. Sbor.nauch.
trud. KHGI 5:249-254 '58.   (MIRA 14:4)
                        (Wire rope)
                        (Elasticity)

GLUSHKO, M.F., inzh.

Theory of locked-coil mine-hoist ropes. Sbor.DonUGI no.17:92-
103 '58.   (Mine hoisting)   (Wire rope)   (MIRA 12:5)

32-2-33/60

AUTHOR: Hummel, H. F

TITLE: Test Methods for Tension Traction Cables
              (Metodik isrytaniya ne r tyash.li..aya provolo hnykh
              .. "ye ny. ..aat.v.

PERIODICAL: Zavodskaya Laboratoriya, 1..., Vol. 24, Nr 2, pp. 211-13
              ('..R'

ABSTRACT: A method for the investigation of traction cables was
              developed here, avoiding the use of weights, which permits
              to perform the investigation in the usual pull-test
              machine. The samples obtained for investigation are produced
              by fixing two .... with .. ten whit. metal.
              Each section of the rope is twined in the opposite direction
              with respect to the .... If the sample is strained in the
              pull-test machine .. .. and a torsion angle,
              respectively, is ..... ed by the rotation of the upper
              section in one direction and of the ... section in the
              ... direction is wire .... w.. ... torsionless.
              With the help of a ..... arrangement a.. of a dynamometer
              the moment can be .... or compl.... r .... ectivel.. An

Car 1,0

Test Methods for Torsional Traction Cables   32-2-33/60

          example is given, from which it can be seen, that this
          method makes it possible to determine the torsion properties
          as well as the tensile strength of a wire rope. There are
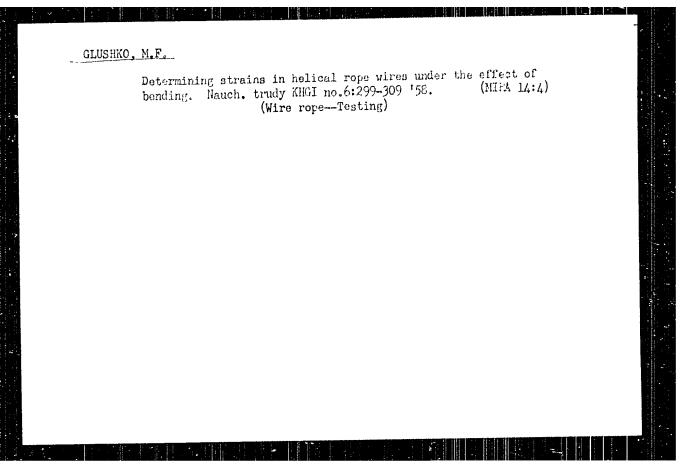   4 figures and 1 table.

ASSOCIATION: Khar'kov Mining Institute
                (Khar'kovskiy gornyy institut)

AVAILABLE: Library of Congress

                1. Cables--Test methods

Card 2, 2

GLUSHKO, M.F.

Determining strains in helical rope wires under the effect of
bending. Nauch. trudy KHGI no.6:299-309 '58.   (MIRA 14:4)
(Wire rope—Testing)

GLUSHKO, M.F.

Dynamic balancing of hoisting ropes taking into account torsional vibrations. Nauch. dokl. vys. shkoly; gor. delo no.1:115-120 '59.
(MIRA 12:5)

1.Predstavlena kafedroy gornoy mekhaniki Khar'kovskogo gornogo instituta.
(Hoisting machinery--Vibrations)

GLUSHKO, M.F., kand.tekhn.nauk

Theory of stress distribution in two-layer hoisting ropes. Izv.
vys.ucheb.zav.; gor.zhur. no.5:101-113 '59.   (MIRA 13:5)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy
mekhaniki.
    (Mine hoisting) (Wire ropes)

GLUSHKO, M.F., inzh.

Bending stresses in double-lay wire ropes. Izv.vys.ucheb.zav.;
gor.zhur. no.6:90-97 '59.   (MIRA 13:4)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy
mekhaniki.
          (Wire rope) (Strains and stresses)

GLUSHKO, M.F., kand.tekhn.nauk

Torsional vibrations of mine hoisting ropes. Izv.vys.ucheb.zav.;
gor.zhur. no.8:101-109 '59.   (MIRA 13:5)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy
mekhaniki.
          (Wire rope)   (Mine hoisting)

GLUSHKO, M.F., kand.tekhn.nauk

Testing mine hoisting ropes for strength. Ugol' Ukr. 3
no.10:17-19 O '59.   (MIRA 13:2)

1. Khar'kovskiy gornyy institut.
        (Hoisting machinery--Testing)
        (Wire rope--Testing)

GLUSHKO, M.F., kand.tekhn.nauk; POCHTOVENKO, Yu.Ye., inzh.; VOLOKONSKIY, V.F., inzh.

Strain on ropes of irregular strands during winding on a pulley.
Izv.vys.ucheb.zav.; gor.zhur. no.2:151-157 '60.   (MIRA 14:5)

1. Khar'kovskiy gornyy institut.
                        (Pulleys)   (Ropes)

GLUSHKO, M.F., kand.tekhn.nauk

Wire rope twisting vibrations on mine hoisting machines.
Izv. vys. ucheb. zav.: gor. zhur. no.9:117-124 '60.
(MIRA 13:9)

1. Khar'kovskiy gornyy institut. Rekomend. kafedroy gornoy
mekhaniki.
  (Hoisting machinery—Vibrations)   (Wire rope)

GLUSHKO, Ya.M.

Determination of forces in a mine hoisting cable with varying length while changing from steadily accelerating movement to even movement. Trudy MakIII 12: Vop. gor. elektromekh. no.4: 117-124 '61.   (MIRA 16:6)
                        (Wire rope)

GLUSHKO, M.F., kand. tekhn. nauk

Low-twisting single-layer ropes with a mixed coil and their use in mine hoisting. Izv. vys. ucheb. zav.; gor. zhur. no.5: 135-143 '61.   (MIRA 16:7)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroj soprotivleniya materialov Odesskogo politekhnicheskogo instituta.
                (Wire rope)   (Mine hoisting)

GLUSHKO, M.F., kand. tekhn. nauk

Approximative method of calculating special-form ropes during
stretching and twisting. Izv. vys. ucheb. zav.; gor. zhur,
no.6:144-152 '61.   (MIRA 16:7)

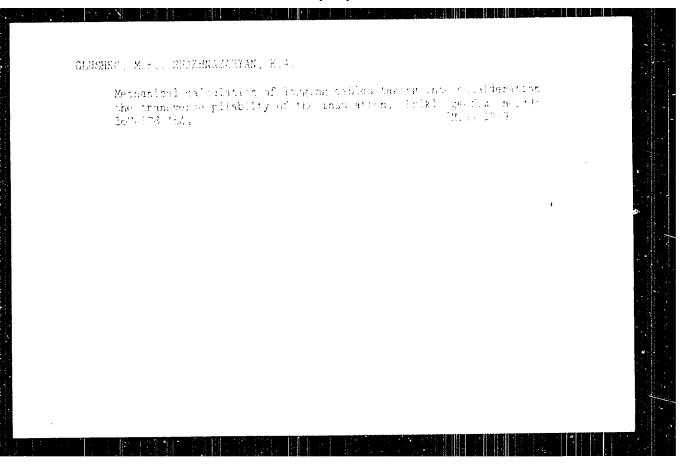1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy
gornoy mekhaniki.
                    (Wire rope—Testing)

GLUSHKO, M.F., kand.tekhn.nauk

Investigating stresses in steel-wire cables. Rasch.na prochn.
no.7:122-152 '61.   (MIRA 14:11)
                    (Cables—Testing)

GLUS'KO, M.F., kand.tekhn.nauk

Study of deformation and tension in spiral ropes, considering the actual conditions of contact of the wires. Izv. vys. ucheb. zav.; gor. zhur. no.11:103-118 '61.   (MIRA 15:1)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy mekhaniki.
                                    (Wire rope)

GLUSHKO, M. F., kand. tekhn. nauk; VOLOKONSKIY, V. F., kand. tekhn. nauk

Design of nontwisting cables. Izv. vys. ucheb. zav.; gor.
zhur. 5 no.8:161-168 '62.   (MIRA 15:10)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy
mekhaniki.

(Wire rope)

GLUSHKO, M.F., kand.tekhn.nauk; VOLOKONSKY, V.F., kand.tekhn.nauk

Bend of the wires of a cable on contact with the pulley. Izv. vys.
ucheb. zav.; gor. zhur. 5 no.10:115-120 '62.   (MIRA 15:11)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy
mekhaniki.
          (Wire rope) (Strains and stresses)

GLUSHKO, M.F.

Mechanical testing of steel-wire rope. Zav.lab. 28 no.3:981-983
'62.   (MIRA 15:11)

1. Odesskiy kanatnyy zavod.
                         (Wire rope--Testing)

GLUSHKO, M.F., kand. tekhn. nauk

Refined formula for calculating the bending stresses in round-strand steel hoisting ropes. Izv. vys. ucheb. zav.; gor. zhur. 6 no.8:145-148 '63.   (MIRA 16:10)

1. Odesskiy politekhnicheskiy institut. Rekomendovana kafedroy rudnichnogo transporta.

GLUSHKO, M.a., SHIKHRAMANYAN, E.A.

Mechanical calculation of long-span cables taking into consideration the transverse pliability of the insulation. Trudi ... ...

GLUSHKO, M.F. (Odessa)

Nonsymmetric stretching and the spin phenomenon in steel cables.
Prikl. mekh. 1 no.5:72-78 '65.   (MIRA 18:7)

1. Odesskiy politekhnicheskiy institut.

GNICHKO, M.I., engineer

Determining the coefficient of wheel to rail adhesion during braking. Vest. TSNII MPS 24 no.4:40-43 '65.
(MIRA 18:7)

GIUSHKO, M.I., inzh.; KADATAYEV, I.I., kand. tekhn. na

    Cleaning of oil soiled rails. Vest. TSNII 25 of rz.1:37-1
    '66.   (MIRA 19:)

GLUSHKO, M.M., mladshiy nauchnyy sotrudnik

System of sanctions for the violation of work quality requirements
in self-financing telecommunication enterprises. Vest. svizzi 18
no. 8:16-18 Ag '58.   (MIRA 11:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut svyazi.
                        (Telegraph)

30(5)

SOV/111-59-6-14/32

AUTHOR: Glushko, M.M., Junior Scientific Worker

TITLE: On the New Depreciation Rates for Basic Means of
            Communication

PERIODICAL: Vestnik svyazi, 1959, Nr 6, pp 17-18 (USSR)

ABSTRACT: The Tsentral'noye statisticheskoye upravleniye (Cen-
            tral Statistical Office) of the USSR Council of Mini-
            sters, the Gosplan, and all Ministries must revise
            the existing depreciation rates as of the 1st of
            January 1960, and work out new ones. The author dis-
            cusses the deficiencies of the existing rates in the
            system of the Ministry of Communications, and suggests
            new calculation principles, with the use of coefficients
            that would permit the application of a basic rate for
            different operational conditions of the equipment,
            taking into account the "moral" wear and the economical
            "ageing" of the communication equipment caused by the
Card 1/2   creation of new and better means. Three formulas are

On the New Depreciation Rates for Basic Means of Communication

        suggested: 1) for the complete renewal of the basic
        means; 2) for capital repairs and modernization;
        3) for calculating the general depreciation rate.

ASSOCIATION: TsNIIS

Card 2/2

GLUSHKO, M.M., kand.ekonom.nauk; RUBINA, r.M., inzh.

New norms on amortization deductions and special features of
their use in telecommunication enterprises. Vest. sviazi 22
no.4:29-31 Ap '62.   (MIRA 15:4)
                    (Telecommunication—Accounting)

GIUSHKO, M.Ye., inzh.; KOCHERGIN, V.M., inzh.; MITROFANOVA, M.A., inzh.

Experience in using specialized cars for intrafactory traffic at
the Dzerzhinskii Works. Biul. TSNIICHM no.3:46-50 '58. (MIRA 11:5)
(Railroads, Industrial--Freight cars)

AVERBUKH, A., kand. tekhn. nauk; GLUSHKO, M.Yo., inzh.

Using communication graphs in organizing intrafactory traffic at
the Dzerzhinskii Plant. Biul. TSNIICHM no.3:66-69 '58.(MIRA 11:5)
(Railroads, Industrial--Freight)

AUTHOR.   Grishko, L. G.   68-58-4-15/21

TITLE.   Automatic Lubrication of Locking Bolts on Coke Oven Door
          (Avtomaticheskaya smazka rigel'nykh boltov na kversnykh
          dvertsakh pechey)

PERIODICAL. Koks i Khimiya, 1958, Nr 4, pp 48-50 (USSR)

ABSTRACT. An installation for automatic lubrication of locking
          bolts on coke oven doors mounted on the pusher machine
          on the pusher side and on the door removing machine on
          the coke side is described and illustrated. The system
          of oil container, delivery tubes, lubricator valve and
          automatic pumps (Fig. 1-3). The equipment has been
          in operation for two years giving satisfactory per-
          formance. 3 figures.

ASSOCIATION. Enakievskiy metallurgicheskiy zavod
          (Enakievo Coke Oven Works)

  Card 1/1   1. Ovens--Equipment   2. Lockbolts--Lubrication   3. Lubricating system
             Equipment

GLUSHKO, N.T., brigadir kompleksnoy brigady, Geroy Sotsialisticheskogo
        Truda

        To be worthy builders of communism. Transp. stroi. 13
        no.2:34-36 F '63.   (MIRA 16:3)
                    (Kiev—Hydraulic engineering)

GLUSHKO, N.V.

KUCHERUK, V.V.; PETROV, V.G.; DUNAYEVA, T.N.; PSHENICHNAYA, L.A.;
MEDVEDEVA, M.S.; GLUSHKO, N.V.

Characteristics of the natural foci of tularemia in forest shelter-belts and ways of controlling them. Vop.kraev.,ob. i eksp.paraz. i med.zool. 9:140-152 '55.
(MLRA 10:1)

1. Iz otdela parazitologii i meditsinskoy zoologii (zav. - akad. Ye.N.Pavlovskiy) Instituta epidemiologii i mikrobiologii imeni N.F.Gamaleya (dir. - deyatvitel'nyy chlen Akademii meditsinskikh nauk SSSR prof. G.V.Vygodchikov) Akademii meditsinskikh nauk SSSR i Stavropol'skogo protivoepidemicheskogo instituta (dir. V.N.Ter-Vartanov) Ministerstva zdravookhraneniya SSSR.
      (TULAREMIA)   (WINDBREAKS, SHELTERBELTS, ETC.)

BABENYSHEV, V.P.; GLUSHKO, N.V.

On the change in the distribution of the lesser suslik in Stavropol
Territory [with English summary in insert]. Zool.zhur.35 no.5:770-773
My '56.   (MLRA 9:9)

1.Nauchno-issledovatel'skiy institut Kavkaza i Zakavkaz'ya Ministerstva
zdravookhraneniya SSSR.
(Stavropol Territory--Susliks)

S/126/62/013/006/012/018
E111/E352

AUTHORS: Glushko, P.I., Dorokhov, V.I. and Nechiporenko, Ye.P.

TITLE: Contribution to the kinetics of the oxidation of molybdenum disilicide

PERIODICAL: Fizika metallov i metallovedeniye, v. 13, no. 6, 1962, 923 - 924

TEXT: The results of a study of the kinetics of the oxidation of molybdenum disilicide in air at $900 - 1\,300$ °C are given. Specimens were prepared by heating molybdenum plates with silicon powder at a pressure of 10^{-5} mm Hg and a temperature of $1\,350$ °C. After metallographic and diffraction analysis for $MoSi_2$ the oxidation kinetics were studied in the interval of $900 - 1\,200$ °C and a duration of 6 h. The rate of oxidation per unit surface was determined from the gain in weight. The activation energy was found to be 82 ± 2.5 kcal/mole and the process followed the equation:

$$W = K\tau^n ,$$

where W is the change in weight, τ the time, K the rate constant $(1.998 \times 10^{-4}$ at $900 - 2.590 \times 10^{-2}$ at $1\,200$ °C$)$

Card 1/2

VERKHOROBIN, L.F.; GLUSHKO, P.I.; DOROKHOV, V.I.; MATYUSHENKO, N.N.

Interaction of molybdenum disilicide with beryllium. Fiz. met. i
metalloved. 16 no.5:751-753 N '63.   (MIRA 17:2)

1. Fiziko-tekhnicheskiy institut AN UkrSSR.

ACCESSION NR: AP4013101   S/0126/64/017/001/0142/0144

AUTHOR: Ivanov, V. Ye.; Nechiporenko, Ye. P.; Zmiy, V. I.; Glushko, P. I.;
Aleksandrov, O. M.; Dorokhov, V. I.

TITLE: High-temperature oxidation of molybdenum disilicide

SOURCE: Fizika metallov i metalloved., v. 17, no. 1, 1964, 142-144

TOPIC TAGS: molybdenum, silicon, molybdenum disilicide, molybdenum disilicide
oxidation, molybdenum disilicide microhardness

ABSTRACT: Molybdenum disilicide is a metal with great promise for use in structures
designed to withstand high temperatures. In the technical literature there are
data on the oxidation of $MoSi_2$ achieved by various methods: hot pressing, sintering,
etc. The authors of this short article conducted a study of the kinetics of $MoSi_2$
oxidation in a temperature interval of 1400-1700C using a high-temperature resist-
ance furnace. The heater was a spiral 5mm in diameter made from a molybdenum rod.
For oxidation, samples of molybdenum disilicide 25X10X0.15 mm in size were used;
these samples were obtained by the vacuum method. The temperature was controlled
by a thermocouple (Pt - Rh 7% center: Pt-Rh 20%) and an optical pyrometer, the
latter placed directly on the heater. The temperature gradient between the heater

Card 1/2

ACCESSION NR: AP4013101

and the sample was not more than 30C. A metallographic analysis of the sample was carried out with an MIM-7 microscope, with microhardness tested on a PMT-3 instrument. Oxidation time was 10 hours. It was found that with increasing time and temperature the oxidizability of $MoSi_2$ increases, the rate of oxidation obeying a parabolic law. No transition from a parabolic law of oxidation to a logarithmic one was detected in the tests. X-ray analysis in the temperature range indicated (1400-1700C) revealed an amorphous oxide film on the surface of the oxidized samples. Preliminary analysis showed that this film, in addition to SiO_2, contains unknown components. These are, apparently, lower molybdic oxides, the vapor tension of which is lower than that of MoO_3. The microhardness of the molybdenum disilicide, which did not change during the oxidation process, was 1200 kg/mm^2. Orig. art. has: 3 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN USSR (Physicotechnical Institute, AN UkrSSR)

SUBMITTED: 03Mar63   DATE ACQ: 26Feb64   ENCL: 00

SUB CODE: ML   NO REF SOV: 005   OTHER: 003

Card 2/2

GLUSHKO, Sh.I.

Reaction of the cardiovascular system to the repeated action of electrocutaneous stimuli. Izv. Vor. gos. ped. inst. 46:93-104 '63.

Comparative physiological characteristics of the asymmetry of reflex influences on blood pressure, respiration and the muscular tonus. Ibid.:105-11   (MIRA 18:4)

GLUSHKO, V.; GORDZIYEVICH, V.

    Voluntary inspection is efficient. Avt.transp. 41 no.4:9-10
    Ap '63.   (MIRA 16:5)
              (Kharkov--Transportation, Automotive)

GLUSHKOV, V.

Cybernetics and pedagogics. Nauki i tekh mladezh 16 no.12:
4-12 '64.

1. Vice-President, cademy of Sciences of the Ukrainian
Soviet . .. epublic.

Dissertation:

Moscow,

Lt: 19 Oct 1

GLUSHKO, V. D.

Chemical Technology, Protective Coatings (15585)

Poligraf. Proiz-vo, No 2, 19 3, pp 10-12
Glushko, V. D.
Increasing the Acid Resistance of the Chromate-Glue Copying Layer

   The acid resistance of the chromate-glue copying layer can be increased by
introducing a small amount of rosin to the copying solution.

Referativnyy Zhurnal -- Khimiya, No 3, 1954 (W-30776)

GLUSHKO, V.D., inzhener (gorod L'vov).

Gradational properties of offset printing plates in positive copying on polyvinyl alcohol. Poligr. proiz. no.5:16-18 My '53.   (MLRA 6:6)
(Offset printing)

GLUSHKO, V.

USSR/Chemical Technology.   Chemical Products and Their Application -- Photographic
materials, I-19

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5980

Author: Kovalenko, B. V., Glushko, V. D.

Institution: Ukrainian Scientific Research Institute of Printing Industry

Title: Chrome-Tanned Animal Glue as a Reproduction Layer for Making Offset
Printing Forms in Positive Reproduction

Original
Publication: Sb. Tr. Ukr. n.-i. in-ta poligr. prom-sti, 1954, No 3, 26-34

Abstract: A refinement of the conditions of making offset printing forms, with
a reproduction layer (RL) based on chrome-tanned animal glue, in order
to attain most exact reproduction by the copy of the raster diaposi-
tive gradations. Properties of the glue affect the reproduction
process. The glue used must absorb after soaking for 24 hours in
cold water not more than 2-3 parts by weight of water; the soaked
glue cake should have least possible consistence, and gelling tem-
perature of a 20% solution should be within the temperature range

Card 1/2

GLUSHKO, V. P.

    "Rockets, Their Construction and Technique," Russian textbook, 1935, by G. Ye.
Langemak and V. P. Glushko.

B-76.75

JEUSIMO, T.P.

"Shielanged conli o dys sed'inpse bdya edg", ed. VVLA,
in. L. Le. Zinsweshon, su. 1, 1952

AUTHOR: Glushko, V. P., Corresponding Member of the AN USSR. 30-9-9/48

TITLE: On the 100th Anniversary of Konstantin Eduardovich Tsiolkovskiy's Birthday (Konstantin Eduardivich Tsiolovskiy. - K 100-letiyu so dnya rozhdeniya).

PERIODICAL: Vestnik AN SSSR, 1957, Vol. 27, Nr 27, pp. 53-60 (USSR).

ABSTRACT: On September 17, 1957, the birthday of the great Russian scientist comes round for the 100th time. The first conceptions of astronautics are connected with his name. More than 150 works dealing with rocket-engineering, astrobiology and astronomy were written by him. His first work is from the year 1883 ("The free space"). Numerous papers dealing with different physical problems were published by him in the "Scientific Notes" of the Moscow "Society of Natural Science". The first wind tunnel (1897) constructed in Russia comes from him. Mendeleyev calles him a "talented experimentator". In 1887 Tsiolkovskiy's first works on the construction of an all-metal airship were published. He devoted much labor and perseverance to this task, but his ideas were ahead of his time. Only after the October revolution, when his life already drew to an end, they took real real shape. Of special interest are Tsiolkovskiy's suggestions in

Card 1/2

GURVICH, Lev Veniaminovich, kand. khim. nauk; KHACHKURUZOV, Georgiy
Akopovich, kand. khim. nauk; MEDVEDEV, Vadim Andreyevich,
kand. khim. nauk; VEYTS, Inessa Veniaminovna, kand. khim.
nauk; BERGMAN, Georgiy Andreyevich; YUNGMAN, Vladimir
Stepanovich; MISHCHEVA, Nina Petrovna; KUROVA, Liliya
Fedorovna; YURKOV, Georgiy Nikolayevich; LADU, Amaliya
Abramovna; YUDIN, Boris Fedorovich; MAKOREV, Boris
Isidorovich; BAYKOV, Viktor Feodoseyevich; MALTSEV,
Valeriy Alekrandrovich; PROZOROVSKIY, Yevgeniy Aleksandrovich;
VOROBYEV, Boris Alekrandrovich; GERASIMOV, Ya.I., retsenzeng;
SHURATOV, S.N., prof., retsenzent; GLUSHKO,V.P.,akad., otv.red.;
KHACHKURUZOV,G.A.,red.;GUROV,K.P.,red.izd-va;LAUT,V.G.,tekhn.red.

[Thermodynamic properties of individual substances; reference
guide in two volumes]Termodinamicheskie svoistva i dividual'-
nykh veshchestv; spravochnik v dvukh tomakh, Izd.2., polno-
st'iu perer. i rasshirennoe. Pod red. V.P.Glushko (otv. red.)
i dr. Moskva, Izd-vo Akad. nauk SSSR. Vol.1.(Calculation of
thermodynamic properties]Vychislenie termodinamicheskikh
svoistv. 1962. 1161 p. Vol.2. [Tables of thermodynamic
properties]Tablitsy termodinamicheskikh svoistv. 1962. 916 p.
(MIRA 15:10)
(Continued on next card)

MEDVEDEV, V.A.; YUNGMAN, V.S.; VOROB'YEV, A.F.; GURVICH, L.V.;
    BERGMAN, G.A.; REZNITSKIY, L.A.; KOLESOV, V.P.;
    GAL'CHENKO, G.L.; KHODEYEV, Yu.S.; KHACHKURUZOV, G.A.;
    SOKOLOV, V.B.; GOROKHOV, L.N.; MONAYENKOVA, A.S.;
    KOMAROVA, A.F.; VEYTS, I.V.; YURKOV, G.N.; MALENKOV, G.G.;
    SMIRNOVA, N.L.; GLUSHKO, V.P., akademik; otv. red.;
    MIKHAYLOV, V.V.; red.; KARAPET'YANTS, M.Kh., red.

[Thermal constants of substances; reference book in ten
numbers] Termicheskie konstanty veshchestva; spravochnik
v desiati vypuskakh, Moskva, No.1. 1965. 144 p.
                                        (MIRA 18:7)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy
informatsii.

GLUSHKO, V. P.

Ob Odnom Nelineynom Differentsial'nom Uravnenii v Chi'tnostyam . . . Konstruktivnye Concerning a Single Non-Linear Differential Equation in Finite Terms.

Trudy Seminara po Funktsion. Analizu (Voronezhskiy Gos.) no. 6, 1958.
Bibliogr: 5 Nazv.

Referat Zhurnal Mekh St tov, No. 1 of , cartoon.

AUTHORS: Glushko,V.P. and Kreyn, S.G.   SOV/20-122-6-2/49

TITLE: Fractional Powers of Differential Operators and Embedding
                Theorems (Drobnyye stepeni differentsial'nykh operatorov i
                teoremy vlozheniya)

PERIODICAL: Doklady Akademii nauk,SSSR,1958,Vol 122,Nr 6,pp 963-966 (USSR)

ABSTRACT: Let G be a bounded domain of the n-dimensional space $(n \geqslant 2)$
                which is star-shaped with respect to a sphere. In the Hilbert
                space $L_2(G)$ let a self-adjoint positive-definite operator A

                be considered which is generated by a differential operator
                of even order and by a system of homogeneous boundary con-
                ditions. A is called strongly invertible, if

                $$\| A^{-1} f \|_{W_2^1} \leqslant C \| f \|_{L_2} \quad (f \in L_2)$$, where W_2^1 is a Sobolev space.

                Theorem: Let A be strongly invertible, $0 < \gamma < 1$, $r = \gamma l - \frac{n}{2}$.

                The following cases are possible
                a) r positive, not integer. Then $A^{-\gamma}$ is a completely con-
                tinuous operator from L_2 into $C_{m,\nu}$ (space of the functions

Card 1/4   with m = [r] partial derivatives which satisfy the Hölder

Fractional Powers of Differential Operators and $307/20-122-6-2/49$
Embedding Theorems

condition with the exponent $\nu < r - [r]$.

b) r positive integer. Then $A^{-\gamma}$ is a completely continuous operator from L_2 into $C_{m,\nu}$, $m = r - 1$ and $\nu < 1$.

c) $r \leqslant 0$. Then $A^{-\delta}$ is a completely continuous operator from L_2 into L_q, $\frac{1}{q} > -\frac{r}{n} = \frac{1}{2} - \frac{r1}{n}$.

Theorem: Let A be strongly invertible, m positive integer, $\gamma 1 - \frac{n}{2} \leqslant m < \gamma 1$. Then $D^m A^{-\gamma}$, where D^m denotes a partial derivative of order m, is a completely continuous operator from L_2 into L_q, where $\frac{1}{q} > \frac{1}{2} - \frac{\gamma 1 - m}{n}$. Let M be a point of $\overline{G}$ and

$$D_h^m f(P) \equiv \frac{1}{|M-P|^h} D^m f(P) \qquad (h \geqslant 0).$$

As the order α of the operator D_h^m with respect to the operator A the lower bound of the numbers μ is denoted, for which

Card 2/4

Fractional Powers of Differential Operators and   SOV/20-122-6-2/49
Embedding Theorems

$D_h^m A^{-\gamma}$ is bounded in L_2.

Theorem: For $0 \leqslant m < 1$, $0 \leqslant h < \min \left\{ 1 - m , \frac{n}{2} \right\}$ D_h^m is an

operator, the order of which with respect to A is not higher
than $\frac{m+h}{l}$. For $\frac{m+h}{l} < \gamma < 1$ it is

$$\left\| \frac{1}{|M-P|^h} D^m A^{-\gamma} \varphi \right\|_{L_2} \leqslant K \left\| \varphi \right\|_{L_2}$$

where K does not depend on $M \in G$.
The proofs of the theorems are based on the somewhat im-
proved results of [Ref 7] .
There are 11 references, 9 of which are Soviet, 1 is
Italian, 1 German, and 1 American.

PRESENTED: June 5, 1958, by S.L. Sobolev
Card 3/4

16(1) 16.3500   66440

AUTHOR: Glushko, V.P.   SOV/20-129-3-5/70

TITLE: The First Boundary Value Problem for Elliptic Equations Which
            Degenerate on Manifolds

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 3, pp 492-495 (USSR)

ABSTRACT: Let Ω be an open bounded domain in the space of $x=(x_1,x_2,\ldots,x_n)$
            with a boundary Γ simple according to S.L.Sobolev $\boxed{\text{Ref 8}}$. Let
            $M = \overline{\Omega} \cap R_m$, where $\overline{\Omega} = \Omega + \Gamma$ and R_m is the hyperplane $x_{m+1}= \ldots=$
            $= x_n = 0$. Let $D(L)$ be the set of all $2l$ times continuously
            differentiable functions which vanish in the neighborhood of Γ
            and M. Let

$$Lu = (-1)^l \sum_{\Sigma\alpha_i=1} \sum_{\Sigma\beta_i=1} \frac{\partial^l}{\partial x_1^{\alpha_1} \ldots \partial x_n^{\alpha_n}} x(a_{\alpha_1\ldots\alpha_n}^{\beta_1\ldots\beta_n}(x) \frac{\partial^l u}{\partial x_1^{\beta_1} \ldots \partial x_n^{\beta_n}})$$

            be an operator defined on $D(L)$, where its coefficients $a_{(\alpha)}^{(\beta)}$ in
            $\Omega-M$ be l times continuously differentiable, let there $a_{(\alpha)}^{(\beta)}= a_{(\beta)}^{(\alpha)}$
            and let hold the estimation

Card 1/4

66440

The First Boundary Value Problem for Elliptic Equations SOV/20-129-3-5/70
Which Degenerate on Manifolds

$$\sum_{\Sigma \alpha_i = 1} \sum_{\Sigma \beta_i = 1} a_{(\alpha)}^{(\beta)}(x)\, \xi_{(\alpha)}\, \xi_{(\beta)} \geqslant \frac{M_1}{r^{2k}} \sum_{\Sigma \alpha_i = 1} \xi^2_{(\alpha)} ,$$

where $M_1 > 0$ and k $(-\infty < k < \infty)$ are constants and r is the
distance from $x \in \Omega$ to M. Let $L_{p,\varkappa}$ be the space of functions $v(x)$,

for which $\| v \|_{L_{p,\varkappa}} = \left\{ \int_{\Omega} |v|^{p} r^{-\varkappa p}\, dx \right\}^{1/p} < \infty$, $p > 1$, $-\infty < \varkappa < \infty$.

Let the Hilbert space H_k be obtained by the closure of $D(L)$ in

the metric $I(u,v) = \int_{\Omega} \sum_{\Sigma \alpha_i = 1} \sum_{\Sigma \beta_i = 1} a_{(\alpha)}^{(\beta)} \frac{\partial^l u}{\partial x_1^{\alpha_1} \cdots \partial x_n^{\alpha_n}} \times \frac{\partial^l v}{\partial x_1^{\beta_1} \cdots \partial x_n^{\beta_n}}\, dx.$

The function $u \in H_L$ is called a generalized solution of the first
boundary value problem for $Lu = g$ if for every $v \in H_L$ it holds

Card 2/4

66440

The First Boundary Value Problem for Elliptic Equations SOV/20-129-3-5,
Which Degenerate on Manifolds

$I(a,v) = (g,v)$.
Theorem 1: Under the given conditions to every $g \in G$ there exists
a unique generalized solution of the first homogeneous boundary
value problem for $Lu = g$. Here

(i) $G = L_{2,-1-k+\epsilon}$ $(\epsilon < 0)$,

if $q = \frac{n-m}{2} - k$ is integral and $1 \leqslant q \leqslant 1$, and $G = L_{2;-1-k}$ in all

other cases.
Lemma: If besides

$$\sum_{\alpha_{m+1}+\ldots+\alpha_n=1} \quad \sum_{\beta_{m+1}+\ldots+\beta_n=1} \quad a\, \frac{0,\ldots,0,\beta_{m+1},\ldots\beta_n}{0,\ldots,0,\alpha_{m+1},\ldots\alpha_n} \xi_{0,0,\ldots,0,\alpha_{m+1}\ldots\beta_n}$$

$$\cdot \xi_{0,\ldots,0,\beta_{m+1},\ldots\beta_n} \leqslant \frac{M}{2^{2k}} \sum_{\alpha_{m+1}+\ldots+\alpha_n=1} \xi^2_{0,\ldots,0,\alpha_{m+1},\ldots\alpha_n},$$

then every function u having continuous 1-th derivatives in $\overline{\Omega}$,
having certain boundary properties on Γ/M and M, and for which
$I(u,u) < \infty$, belongs to H_L.

Card 3/4

66440

The First Boundary Value Problem for Elliptic Equations   SOV/20-129-3-5, 70
Which Degenerate on Manifolds

Theorem 2: Every classical solution of Lu = g which satisfies
the conditions of the lemma, is a generalized solution and
consequently it is determined uniquely.
The theorems 3 and 4 are devoted to the solutions of the
conjugate equation L*v = h

The author thanks S.G.Kreyn for the leading of the work.
There are 7 references, 6 of which are Soviet and 1 English.

ASSOCIATION: Voronezhskiy lesotekhnicheskiy institut (Voronezh Forest-Technical
Institute)
PRESENTED: June 24, 1959, by N.N.Bogolyubov, Academician
SUBMITTED: June 16, 1959

Card 4/4