

GURBANALIYEV, I.G., kand.med.nauk

Rare case of mediastinal emphysema caused by aspiration of a foreign body into the right bronchus. Azerb. med. zhur. no.12:33-35 D '61. (MIRA 15:3)

1. Iz khirurgicheskogo otdelaniya (nauchnyy rukovoditel' - chlen-korrespondent AN Azerbaydzhanskoy SSR, zaslushenny deyatel' nauki, prof. F.A. Efendiyev) Bakinskoy gorodskoy klinicheskoy bol'nitsy No.4 (glavnyy vrach - N.F. Rasulov).

(EMPHYSEMA)  
(BRONCHI--FOREIGN BODIES)

KERIMOV, G.M., kand. med. nauk; GURBANALIYEV, I.G., kand. med. nauk

Effectiveness of the use of a 1% solution of calcium chloride  
in preoperative preparation in suppurative diseases of the  
lungs. Khirurgiia no.1:95-100 '63. (MIRA 17:5)

1. Iz kafedry fakul'tetskoy khirurgii pediatricheskogo i sanitarno-  
gigiyenicheskogo fakul'tetov (zav. - chlen-korrespondent AN Azer-  
baydzhanskoy SSR zasluzhennyy deyatel' nauki prof. F.A. Efendiyev)  
Azerbaydzhanskogo meditsinskogo instituta imeni N. Narimanova.

GURBANALIYEV, I.G.; ZAKIROZHAYEV, D.D.

Goiter of the posterior mediastinum. Azerb.med.zhur. 42 no.1:87-  
89 Ja '65. (MIRA 18:5)

1. Iz otdela grudnoy khirurgii (rukovoditel' - chlen-korrespondent  
AN AzSSR, prof. F.A.Efendiyev [deceased] Azerbaydzhanskogo instituta  
eksperimental'noy i klinicheskoy meditsiny AMN SSSR.

GURBANALIYEV, I.G.; OSIPOV, R.G.

Observation of an evacuated pulmonary coccidioidomycosis  
detected by means of aerobronchography. Azerb. med. zhur.  
42 no.9:64-67 S '65. (MIRA 18:11)

GURBANALIYEV, I.G., kand. med. nauk; KHANALIYEV, N.M., aspirant

Transthoracic removal of a foreign body from the esophagus.  
Azerb. med. zhur. 42 no. 7:76-78 JI '65 (MIRA 19:1)

1. Iz otdela grudnoy khirurgii (nauchnyy rukovoditel' - chlen-korrespondent AN Azerbaydzhanskoy SSR prof. F.A. Efendiyev [deceased]) Azerbaydzhanskogo instituta eksperimental'noy i klinicheskoy meditsiny AMN SSR.



Gurbanov, G. G.

USSR / General and Special Zoology. Insects. System- P  
atics and Faunistics.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 96376.

Author : Yakhontov, V. V.; Gurbanov, G. G.  
Inst : AS AzorbSSR.  
Title : Norashon Thrips - A New Form of Thrips Franklin-  
iolla intonsa.

Orig Pub: Dokl. AN AzorbSSR, 1957, 13, No 12, 1279-1283.

Abstract: Systematic description and notes on distribution,  
biology and intraspecies changes of the thrips  
F. intonsa.

Card 1/1

L 36996-66 EWT(1) IJP(c) AT

ACC NO: A6015753

SOURCE CODE: UR/0048/66/030/005/0735/0738

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617410007-5

AUTHOR: Gurbanov, G. G.; Kas'yankov, P. P.

ORG: none

TITLE: Concerning the calculation of electrostatic electron-optical systems with  
correction of astigmatism /Report, Fifth All-Union Conference on Electron Microscopy  
held in Sumy 6-8 July 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 735-738

TOPIC TAGS: electron optics, electrostatic field, aberration, optic resolution

ABSTRACT: This paper is based on earlier work by P.P.Kas'yankov and collaborators  
(Zh. tekhn. fiz., 22, 80 (1952)); Izv. AN SSSR. Ser. fiz., 27, 9, 11'7 (1963)); Optiko-  
mekhanicheskaya promyshlennost', 11 (1964)) on the calculation of electron-optical  
systems with correction of different third order aberrations; notation and formulas  
from the earlier work are used freely without redefinition or derivation, and the  
present paper cannot be understood without reference to the earlier papers. In the  
earlier work an auxiliary function whose integral along the optic axis from the object  
point to the image point vanishes was used to reduce the calculation of the system to  
the solution of a set of ordinary differential equations. In the present paper there  
are briefly discussed two different designs that arise from different choices for the

Card 1/2

L 36996-66

ACC NR: APG0157<sup>5</sup>X3

auxiliary function. The auxiliary function, which in both cases involves disposable parameters, is written down, as are the differential equations. The differential equations were solved with the aid of a computer. In one design the resolution (radius of the circle of confusion) is 0.06 cm at an object distance of 1.5 cm and an aperture angle of  $60^\circ$ ; in the other design all the third order aberrations are less than  $10^{-7}$ , there is a real image, and the magnification is less than 0.01. Orig. art. has: 16 formulas and 2 figures.

SUB CODE: 20/

SUBM DATE: 00/

ORIG REF: 004/

OTH REF: 000

Card 2/2 *JRS*



GURBANOV, A. K.

MARIYEV, A. N.; ~~GURBANOV, A. K.~~

Epidemiology of typhoid fever. Zhur.mikrobiol.epid. i immun. 28 no.3:  
32-34 Mr '57. (MIRA 10:6)

1. Iz Stalingradskogo instituta epidemiologii, mikrobiologii i  
gigiyeny.

(TYPHOID FEVER, epidemiology,  
(Rus))

ИУСНАО, Г. И.

Rectifier voltage adjustment.

"Elektrichestvo", No. 3, 1951

GURBANOV, R.I.

Formation of gum in cultivated tragacanth milk vetches in the  
mountain districts of Azerbaijan. Dokl. AN Azerb. SSR 21  
no.6:64-67 '65. (MIRA 18:12)

GURBANOV, R.S.; KASIMOV, A.F.

Nonsteady fluid flow in the clearance between the plunger  
and the cylinder of a deep pump. Izv. AN Azerb. SSR Ser.  
geol.-geog.nauk ~~nefti~~ no.1:79-88 '62. (MIRA 15:5)  
(Oil field pumps)

GURBANOV, R.S.; KASIMOV, A.F.

Determination of the fluid leakage through the clearance between  
the deep-pump plunger and cylinder in turbulent flow. Azerb.  
neft.khoz. 41 no.2:31-34 F '62. (MIRA 15:8)  
(Oil well pumps)

GURBANOV, R.S.; KASIMOV, A.F.

Streamlining of a cylindrical body by a viscous fluid in a vertical pipe.. Azerb.neft.khoz. 41 no.5:29-32 My '62. (MIRA 16:2)

(Pipe--Fluid dynamics)

GURBANOV, R.S.; KASIMOV, A.F.

Falling of a plunger lift in a vertical pipe filled with  
viscous fluid. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk i  
nefti no.6:77-84 '62. (MIRA 16:4)

(Oil wells--Equipment and supplies)

GURBANOV, R.S.; KARIMOV, Z.F.; KASIMOV, A.F.

Hydraulics of the consecutive pumping of petroleum products  
through pipelines with dividers. Izv. vysh. ucheb. zav.;  
neft' i gaz 6 no.3:91-96 '63. (MIRA 16:7)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti  
imeni akademika Gubkina, Azerbaydzhanskiy institut nefti i khimii  
imeni M. Azizbekova, i Azerbaydzhanskiy nauchno-issledovatel'skiy  
institut po dobyche nefti.

(Petroleum pipelines—Fluid dynamics)



BAGRANLY, E.A.; GURBANOV, R.S.; ZHYNALOV, T.A.

Variations in the temperature regime of the 1st of a producing  
formation in the Kyurovdag oil field. Izv. AN Azerb. SSR. Ser.  
geol.-geog. nauk no.5:87-95 '64. (MLRA 18:6)

GURBANOV, S. G.

24-11-26/31

AUTHORS: Gurbanov, S. G. and Mirzadzhanzade, A. Kh. (Baku)

TITLE: On an automodel solution of the problem of rotation of a circular cylinder inside a viscous-plastic liquid.  
(Ob odnom avtomodel'nom reshenii zadachi o vrashchenii kruglogo tsilindra v vyazko-plastichnoy zhidkosti).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.11, pp.184-185 (USSR)

ABSTRACT: The problem of the non-steady state circular motion of a viscous-plastic liquid has been dealt with by several authors (Refs.1-3). For the general case of non-steady state movement of a viscous-plastic liquid the boundary problem with mobile boundaries applies. Earlier, one of the authors (Ref.4) applied the method of Slezkin-Targa for solving the problem of non-steady state movement of a viscous-plastic liquid inside a circular tube. In the above mentioned papers accurate solutions were obtained but the problem of mobile boundaries has not been considered. In this paper an automodel solution is given of the particular problem of the rotation of a circular cylinder of a negligibly small radius inside a boundless liquid; the problem, which is of interest in itself, can also be utilised for verifying various approximate methods,

Card 1/2

24-11-26/31

On an automodel solution of the problem of rotation of a circular cylinder inside a viscous-plastic liquid.

particularly that of M. Ye. Shvets, N. A. Slezkina, S. M. Targa, etc.  
The differential equation is expressed by Eq.(1) with the boundary conditions as given by Eq.(2), the solution of which is Eq.(8).  
There are 6 references, 5 of which are Slavic.

SUBMITTED: March 16, 1957.

AVAILABLE: Library of Congress.

Card 2/2

SOV/124-58-5-5426

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 68 (USSR)

AUTHORS: Mirzadzhanzade, A.Kh., Gurbanov, S.G.

TITLE: On a Self-similar Solution to the Problem of the Spin of a Circular Cylinder in a Plastic Viscous Fluid (Ob odnom avtomodel'nom reshenii zadachi o vrashchenii kruglogo tsilindra v vyazko-plastichnoy zhidkosti)

PERIODICAL: Dok. AN AzerbSSR, 1957, Vol 13, Nr 4, pp 365-368

ABSTRACT: A study is made of the flow of a plastic viscous fluid caused by the spinning within it of an infinitely slender cylinder. The problem reduces to integrating a linear differential equation of the second order, the solution to which consists of the summation of the exponential and the integral exponential function. The integration constants for some values of the problem's parameters are determined by a numerical analysis, the results of which appear in the form of a graph. Equations (2) and (10) contain typographical errors.

S.M. Targ

Card 1/1

1. Plastic flow--Mathematical analysis

*002000000000*  
SEID-BZA, M.K.; GURBANOV, S.G.

Pressure change on well walls during rotation of drill pipes.  
Azerb. neft. khoz. 36 no.4:11-13 Ap '57. (MLBA 10:6)  
(Oil well drilling)

GURBANOV, S.G.

Nonstationary rotary motion in a cylindrical tube filled with a  
viscous plastic liquid. Dokl. AN Azerb. SSR 14 no.2:105-108 '58.  
(MIRA 11:4)

1. Neftyanaya ekspeditsiya AN AzerSSR. Predstavleno akademikom  
AN AzerSSR Z.I. Khalilovym.  
(Hydrodynamics)

AVANESOVA, A.M.; GURBANOV, S.G.; MIRZADZHANZADE, A.Kh.; SEID-RZA, M.K.;  
YADULLAYEV, N.N.

Effect of drill pipe rotation on the change in hydrodynamic pressure  
on well walls. Azerb. neft. khoz. 38 no.7:13-17 J1 '59.

(MIRA 13:2)

(Oil well drilling)

GURBANOV, S. G., Cand Tech Sci — (diss) "Investigation of stationary and non-stationary flows of a viscous-plastic liquid," Baku, 1960, 13 pp, 200 cop. (Azerbaijani Institute of Petroleum and Chemistry in M. Azizbekov) (KL, 45-60, 125)



Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

- 64. M. S. Gakhov, Sh. M. Nikitskiy, B. G. Sakhin (Moscow). On a method of solving problems of the bending theory of shallow shells with the use of electronic digital computers.
- 65. O. I. Gerasimov, A. G. Gerasimov (Minsk). Solution of wave-like problems of hydrodynamics of viscous and visco-plastic fluids.
- 66. A. V. Gerasimov (Moscow). An approximate stability analysis of plates in the elastic-plastic range.
- 67. O. A. Givinskiy (Moscow). Some problems concerning the plane flow of compressible plastic media.
- 68. O. P. Gromovskiy (Kremlo). On a problem of elastic-plastic torsion of an anisotropic shaft.
- 69. I. S. Gromovskiy (Moscow). A dynamic problem for a conical shaft.
- 70. M. I. Gromovskiy (Moscow). Tectonophysics - a new domain of application of mechanics to geological problems.
- 71. M. I. Gromovskiy, P. Gromovskiy (Moscow). Simulation of processes of plastic deformation and rupture of solids with great viscoelasticity.
- 72. Ya. G. Gromovskiy (Moscow). Development of a theory of stresses in rods with the use of the method of continuous deformation.
- 73. I. I. Gromovskiy (Moscow). Some generalizations of the basic equations of viscoelasticity.
- 74. I. I. Gromovskiy (Moscow). The propagation of longitudinal waves in a viscoelastic rod.
- 75. A. M. Gromovskiy, O. Gromovskiy (Moscow). Generalized theory of the stability of shells of thin-walled cylindrical shells under the action of a hydrostatic pressure.
- 76. I. I. Gromovskiy (Moscow). A generalized theory of plastic flow.
- 77. I. I. Gromovskiy (Moscow). The theory of finite deformations of anisotropic elastic media.
- 78. I. I. Gromovskiy, B. A. Krasnoluchitskiy (Moscow). A general creep theory of shells.
- 79. A. L. Gromovskiy (Moscow). Development of the theory of thin elastic shells.
- 80. A. L. Gromovskiy (Moscow). Asymptotic integration of the equations of the theory of thin elastic plates.
- 81. M. I. Gromovskiy-Fokhtov (Moscow). Determination of the stability of a shell in a sand formation, which approaches failure under the pressure of a rigid filling.
- 82. A. L. Gromovskiy (Moscow). On secondary effects in torsion and bending of nearly prismatic bars.
- 83. I. I. Gromovskiy (Moscow). On filtration forces and viscous friction in unidirectional and under dynamic conditions.
- 84. G. A. Gromovskiy, B. A. Krasnoluchitskiy (Moscow). Contribution to the theory of stability of thin-walled cylindrical shells of shells under the action of a hydrostatic pressure.
- 85. A. L. Gromovskiy (Moscow). On elastic-plastic deformation of thin-walled cylindrical shells.
- 86. A. L. Gromovskiy (Moscow). Equilibrium of membrane shells of revolution for large displacements and strains.
- 87. G. A. Gromovskiy (Moscow). Creep design of thin-walled cylindrical shells.
- 88. A. L. Gromovskiy (Moscow). The general equations of soil mechanics and some particular solutions.
- 89. D. V. Gromovskiy (Moscow). Torsion of an elastic layer.
- 90. A. L. Gromovskiy (Moscow). Stress concentration in notched bodies under the action of a hydrostatic pressure.
- 91. V. I. Gromovskiy, B. A. Krasnoluchitskiy (Moscow). The problem of the stability of a shell on an elastic half space.
- 92. A. L. Gromovskiy (Moscow). Effect of shear stresses in the theory of foundation strips of arbitrary rigidity under arbitrary loads.
- 93. V. I. Gromovskiy (Moscow). The bending of a hollow prismatic bar with a rectangular hole.
- 94. A. L. Gromovskiy (Moscow). The limit equilibrium of an elastic-plastic disc that is compressed between rough rigid plates.
- 95. A. L. Gromovskiy (Moscow). A plane multiphase-region problem for a conservative body force and a uniform bending.
- 96. A. L. Gromovskiy (Moscow). The equilibrium of a shell of revolution under the action of a hydrostatic pressure.
- 97. M. Gromovskiy, P. I. Krasnoluchitskiy (Moscow). Problem of stability of a shell with ring-stiffened edge under internal pressure.

GURBANOV, S.G.; GASANOV, G.T.

Changes in the pressure on the walls of an oil well. Izv.AN  
Azerb.SSR.Ser.fiz.-mat.i tekhn.nauk no.5:61-71 '60. (MIRA 14:4)  
(Oil well drilling)

0000000000

Approximate solution of the problems of circular non-steady  
state motion of a viscoelastic dispersed system in a circular  
cylindrical tube. Koll. zhur. 26 no.5:574-577 8-8 1981.

(UFA 1:110)

Institut r zrabotki neftyanykh i gazovykh mestorozhdeniy  
Akademiya Nauk.

ORAZNYAZOV, Y.; GURBANOV, T., red.

[Toward new achievements] Teze ustunliklere tarap; Ashgabadyn  
TSSR-in XX iylygy adynaaky mashyn gurlushyk zavodynyn guluzhy  
tsekhinin ish tezhibesi barada. Ashgabat, Turkmenistan devlet  
neshiriaty, 1961. 22 p. [In Turkmen] (MIRA 15:1)  
(Technological innovations)

ZAILOV, K.; ATADLEHANOV, B.; GURBANOV, T., red.

[Careful sericulturist] Ykhlasiy iipekchi. Ashgabat,  
Turkmenovletneshir, 1963. 7 p. [In Turkmen]  
(MIRA 17:7)

GURBANOV, V.N., vrach

Experience with the treatment of amebic dysentery in the Republic  
of Mali. Med.paraz.i paraz.bol. 33 no.4:487-488 JI-Ag '69.  
(MIRA 13:3)

GURBANOV, V.P.

Change in the content of ribonucleic acid and nucleotides during differentiation and maturation of bone marrow cells in healthy persons; a method for ultraviolet ray cytospectrophotometry. Probl.gemat.i perel.krovi no.11:3-11 '61. (MIRA 15:1)

1. Iz 3-y kafedry terapii (zav. -- chlen-korrespondent AMN SSSR prof. I.A. Kassirskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(MARROW) (NUCLEIC ACIDS) (NUCLEOTIDES) (SPECTROPHOTOMETRY)

GURBANOV, V.P.

Photometric study of cytologic objects in two light beams of  
different areas. Vest. AMN SSSR 20 no. 11:93-103 '65  
(MIRA 19:1)

1. Gruppya pri deystvitel'nom chlene AMN SSSR prof.  
I.A. Kassirskom. Submitted August 10, 1965.



MATSYUK, L.; RUGALEV, N.; GURBONOV, Ye., red.; SHTOKVISH, S.,  
tekhn. red.

[Corn as a leading crop; work practices used in row crop cultivation by L.D.Fynzar', team leader on the "Sovetskii pogranichnik" Collective Farm, Yedintsy District] Kukuruzna - vedushchaia kul'tura; opyt vyrashchivaniia propashnykh kul'tur L.D.Fynzar' - zven'evoi kolkhoza "Sovetskii pogranichnik" Edinetskogo raiona. Kishinev, Izd-vo Sel'khoz.lit-ry M-va proizvodstva i zagotovok sel'khozproduktov Moldavskoi SSR, 1962. 10 p. (MIRA 15:7)

(Moldavia--Corn (Maize))

TONKONOVHENKO, A.F.; GURBANOVA, Ye.I.; AGUZAROVA, M.Kh.

Role of game animals in the formation of natural foci of leptospirosis in the North Ossetian A.S.S.R. Zhur. mikrobiol., epid. i immun. 42 no.2:48-49 F '65. (MIRA 18:6)

1. Severo-Osetinskaya respublikanskaya sanitarno-epidemiologicheskaya stantsiya.



S/020/60/132/04/20/064  
B014/B007

AUTHOR: Gurbich, A. S.

TITLE: An Experimental Investigation of the Frequency Spectra of the Vertical Component of the Wind Velocity in the Atmospheric Strata Near the Ground ✓

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4, pp. 806-809

TEXT: The measurements described here were carried out from August to September 1958 in the Tsimlyansk region. About 100 spectra were recorded, and the Richardson number was assumed to be characteristic of the stratification. The measuring instruments for the mean temperature and the mean wind velocity were located in heights of 0.5, 1, 2, 4, 8, and 12 m, and the dynamic velocity was calculated according to the vertical velocity profile. This work was performed under the supervision of A. V. Perepelkina. The frequency spectra for the Richardson number  $-0.09$  with the curves I obtained in a height of 4 m are graphically represented in Fig. 1, and with the curves II the same is the case with the spectra normalized according to formula (1). Thus, the averaged spectra for

Card 1/3

An Experimental Investigation of the Frequency Spectra of the Vertical Component of the Wind Velocity in the Atmospheric Strata Near the Ground S/020/60/132/04/20/064  
B014/B007

approximately equal Richardson numbers could be determined. The curves III in Fig. 1 for  $Ri = -0.09$  show the averaged frequency spectra in heights of 1 and 4 m. From Fig. 2 it may be seen that the shape of the spectra is analogous for different meteorological conditions and that a monotonic dependence on the Richardson number exists. The calculations of the exponent gave the value 1.64, so that the "2/3 - law" by Kolmogorov-Obukhov is practically confirmed. The energy distribution in the spectrum under consideration is graphically represented in Fig. 3. The energy distribution for three different Richardson numbers is shown, and it may be seen that the main part of energy is in the spectral region under discussion. From the graphical representation of the dependence of the quantity  $\sigma_{\omega}/v_*$  ( $\sigma_{\omega}$  is the dispersion of pulsations,  $v_*$  is the dynamic velocity) on  $Ri$  it may be seen that with increasing instability the  $\sigma_{\omega}/v_*$  ratio increases. This is related with an increase in pulsations of the vertical velocity components at the expense of convection. From the relation between the spectral function and the structural function, the structural constant  $c^2$  is finally derived, and further, the derivative of the structural constant  $c_0^2$  is dealt with in consideration of the

Card 2/3

✓

An Experimental Investigation of the Frequency S/020/60/132/04/20/064  
Spectra of the Vertical Component of the Wind B014/B007  
Velocity in the Atmospheric Strata Near the Ground

deviation of the profile from the logarithmic dependence. Table 1 gives the constants for various Ri values. The author points out the possibility of constructing a universal spectral function. A. M. Obukhov is mentioned. There are 4 figures, 1 table, and 6 references, 5 of which are Soviet.

ASSOCIATION: Institut fiziki atmosfery Akademii nauk SSSR (Institute of the Physics of the Atmosphere of the Academy of Sciences, USSR)

PRESENTED: February 10, 1960, by A. N. Kolmogorov, Academician

SUBMITTED: February 10, 1960

✓c

Card 3/3

USSR/Chemistry - Acetylene Derivatives      Jun 52  
Steroids

"Acetylene Derivatives. 140. Heterocyclic Compounds. XVI. Synthesis of Sulfone Analogues of Steroid Compounds With a Thiopyrane Ring B," I. N. Nazarov, I. A. Gurbich, A. I. Kusnetsova, Inst of Org Chem, Acad Sci USSR

"Zhur Obshch Khim" Vol XXII, No 6, pp 982-984

By means of the diene condensation, a synthesis was developed for the 1st time for obtaining sulfone analogues of steroid ketones with the sulfur in the B ring. The A and B rings are joined in the

218722

USSR/Chemistry - Acetylene Derivatives      Jun 52  
(Contd)

trans- position, the C and D rings in the cis- position. The above product does not form the usual carbonyl derivs, while its hydrogenated products easily yield 2,4-dinitrophenyl hydrazone.

218722

GURBICH, I. A.

USSR/Chemistry - Acetylene Derivatives Jun 52

"Acetylene Derivatives. 141. Heterocyclic Compounds. XVII. Structure and Mechanism of Formation of Tetrahydro- $\beta$ -Thiopyrones and Their Reduction by Kizhner's Method," I. N. Nazarova, I. A. Gurbich, A. I. Kuznetsova; Inst of Org Chem, Acad Sci USSR

"Zhur Obshch Khim" Vol XXII, No 6, pp 984-989

Sulfur heterocycles prep'd by the action of H<sub>2</sub>S on vinyl allyl ketones have a 6-membered structure. On reduction of tetrahydro- $\beta$ -thiopyrone by Kizhner's method the corresponding tetrahydro

218723

USSR/Chemistry - Acetylene Derivatives Jun 52  
(Contd)

thiopyrones were obtained in a 60% yield. The yield of 2-methyltetrahydro-1-thiopyrone-4-one was improved. Discusses the mechanism of its formation.

218723

GURBICH, I. A.



USSR/Chemistry - Acetylene Derivatives Jun 52  
Polycyclic Sulfur - Containing  
Compounds

"Acetylene Derivatives. 142. Heterocyclic Compounds.  
XVIII. Diene Synthesis on the Basis of Dioxides of  
Substituted  $\beta$ -Thiopyrones," I. N. Nazarov, I. A.  
Gurbich, A. I. Kuznetsova, Inst of Org Chem, Acad  
Sci USSR

"Zhur Obshch Khim" Vol XXII, No 6, pp 990-998

When a glacial acetic acid soln of tetrahydro- $\beta$ -  
thiopyrone dioxides is treated with Br and heated,  
a high yield of mono- and dibromosulfones is ob-  
tained. Upon heating with sodium acetate in acetone,  
218724

USSR/Chemistry - Acetylene Derivatives Jun 52  
(Contd)

HBr is split off, and the dioxides of  $\beta$ -thiopyrone  
and of dihydro-1-thiopyrone are formed with a 70-80%  
yield. Describes the results of the synthesis. The  
capacity of the tetrahydro- $\beta$ -thiopyrone dioxides  
to take part in the diene synthesis depends on the  
position of the substituent in the nucleus. Methyl  
groups in the  $\alpha$ -position to the carbonyl group  
makes diene condensation difficult; the methyl group  
in the  $\beta$ -position to carbonyl makes it impossible  
below 200°.

218724

GURBICH, I. A.

(A) L 00278-66 FSS-2/EED-2 BC/WR

ACCESSION NR: AP5020511

PO/0087/65/000/007/0252/0254

AUTHOR: Gurbisz, Jozef (Captain of naval navigation) (Gdynia)

TITLE: Radar training in the State School of Marine Navigation in Gdynia

SOURCE: Technika i gospodarka morska, no. 7, 1965, 252-254

TOPIC TAGS: ship navigation, radar navigation, navigation training, navigator training, shipborne radar

33  
B

ABSTRACT: The paper deals briefly with the following topics: Failures of radar equipment on board ships as a significant factor in collisions between ships at sea. The recommendations of the International Conference on Safety at Sea held in London, 1960, concerning the radar training of navigation personnel. Directives for radar training issued by Izba Morska (Marine Chamber) in Gdynia and the Ministerstwo Zeglugi (Ministry of Navigation). The approach taken to radar training by the Panstwowa Szkoła Morska (State School of Marine Navigation) in Gdynia. The training vessel "Horyzont" and its training equipment. The program of training in the use of radar at sea implementing the recommendations of the London Conference. The training voyage of the vessel "Horyzont" to London. Detailed program of radar training course as approved by the Ministry of Navigation, in December 1964. The achievements of the State School of Marine Navigation.

Card 1/2

L 00278-66

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000617410007-5"

ACCESSION NR: AP5020511

tion are briefly summarized; up to February 1965, the school had organized 11 radar training courses on board the "Horyzont" and had issued 135 diplomas. Future plans for increasing the number of students are mentioned; another training vessel, the "Zenit," will be used by the School in Gdynia and in the next few years two more training vessels will be used in Szczecin. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: None

SUBMITTED: 00

NO REF SOV: 000

ENCL: 00

SUB CODE:

OTHER: 000

SW  
Card 2/2

BOBKOVA, T.P., prepodavatel' kursov kroyki i shit'ya; GURBO, A.I., prepodavatel' kursov kroyki i shit'ya; ZHIVAYEVA, Ye.I., prepodavatel' kursov kroyki i shit'ya; ZEMSKOVA, O.V., prepodavatel' kursov kroyki i shit'ya; LYSENKO, A.V., prepodavatel' kursov kroyki i shit'ya; MARTOPLYAS, L.V., prepodavatel' kursov kroyki i shit'ya; MARTYNOVA, F.V., prepodavatel' kursov kroyki i shit'ya; PANOVA, V.P., prepodavatel' kursov kroyki i shit'ya; POMINOVA, M.G., prepodavatel' kursov kroyki i shit'ya; RYZHICHKINA, M.I., prepodavatel' kursov kroyki i shit'ya; SYCHEVA, T.A., prepodavatel' kursov kroyki i shit'ya; FILANOVICH, O.F., prepodavatel' kursov kroyki i shit'ya; BRUNEVSKAYA, M., red.; TRUKHANOVA, A., tekhn. red.

[Practical handbook on garment cutting and sewing] Prakticheskoe posobie po kroike i shit'iu. 4. izd. Minsk, Gos.izd-vo BSSR Red. nauchno-tekhn.lit-ry, 1961. 607 p. (MIRA 14:12)

1. Minskiy Okruzhnoy Dom ofitserov im. K.Ye.Voroshilova i klub im. F.E.Dzerzhiskogo (for all except Brunevskaya, Trukhanova). (Dressmaking—Pattern design) (Sewing)

LUKASHEVICH, P.A.; ZEYLIKMAN, Kh.N.; GLUSHKO, K.B.; GURBONOV, E., red.;  
GORVACHENKO, F., tokhn. 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)

MAGER, M.I.; PELYAKH, M.A.; GURBONOV, E., red.; VOLONTIR, I.G., red.;  
GORYACHENKO, F., tekhn. red.

[Viticulture in Bulgaria] Vinogradarstvo Bolgarii. 2., perer. i  
dop. izd. Kishinev, Izd-vo sel'khoz.lit-ry M-va sel'.khoz.  
Moldavskoi SSR, 1962. 137 p. (MIRA 16:2)  
(Bulgaria--Viticulture)

VASKAN, G.K.; GURBONOV, E., red.; GORYACHENKO, F., tekhn. red.

[Soil management in orchards of Moldavia] Soderzhanie pochvy v  
sadakh Moldavii. Kishinev, Izd-vo sel'khoz.lit-ry, 1962. 38 p.  
(MIRA 16:3)

(Moldavia--Fruit culture)  
(Moldavia--Soil conservation)

GURECOV, P.

"Mechanization of Viticulture", P. 30, (KOOPIBAGOVNO ZEMELIJE, Vol. 9,  
No. 2/3, 1954, Sofiya, Bulgaria)

EO: Monthly List of East European Acquisitions, (EAI), LC, Vol. 4, No. 1,  
Jan. 1955, Uncl.

GURBUCHEV, I.

Simeonov, B. Presowing treatment of soil for winter wheat. p. 14.  
KOOOPERATIVNO ZEMEDELIE, Sofiya, Vol. 10, no. 7, July 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.



GURBUCEV, Ivan, k. s. s. n.; PETROV, Iordan

Root extracts of crops, and their influence on the germination and initial growth of some cultivated plants. Selskostop nauka [2] no. 2: 174-186 '63.

1. Chlen na Redaktsionnata kolegiia, "Selskostopanska nauka" (for Gurbuchev).

GURBUCHEV, Ivan, date.

Achievements and objectives of soil science and agricultural  
technology in Bulgaria. Selkhozop nauka 3 no.4:75-87 '64.

L 15335-66 EWT(m)/EWP(j)/T/ETC(m)-6 WW/RM

ACC NR: AP6000983

(A)

SOURCE CODE: UR/0286/65/000/022/0059/0059

AUTHORS: Kovarskaya, B. M.; Gurbyanova, V. V.; Rozantsev, E. G.; Neyman, M. B.

41  
B

ORG: none

TITLE: A method for obtaining stabilized polyformaldehyde. Class 39, No. 176406

15/44/55

15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 59

TOPIC TAGS: polymer, polymerization, polyformaldehyde plastic, nitrogen compound

ABSTRACT: This Author Certificate presents a method for obtaining stabilized polyformaldehyde by introducing into the finished polymer a stabilizing system consisting of a polyamide and nitrogen-containing compound. To increase the thermostability of the polymer, 2,2,6,6-tetramethyl-4-oxypiperidinoxyl, phenylcarbonate-2,2,6,6-tetramethyl-4-ethyl-4-oxypiperidinoxyl is used as the nitrogen-containing compound.

SUB CODE: 11/ SUBM DATE: 17May63

07/

PC

Card 1/1

UDC: 678.644:141.048.2

2

GURCHENKO, T.

GURCHENKO, T.; ISAKOV, V.

Communist Youth League participation in study groups. Prof. -tekh.obr.  
11 no.1:25-26 '54. (MLRA 7:6)

1. Zamestitel' nachal'nika Vologodskogo oblastnogo upravleniya trudovykh rezervov (for Gurchenko). 2. Instruktor Vologodskogo obkoka VLKSM (for Isakov). (Communist Youth League)

GURCHENKO, T

27-7-37

AUTHOR: Gurchenko, T., Deputy Chief of Vologda Oblast Administration of Labor Reserves

TITLE: In a Northern Town (V severnom gorode)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, 1957, # 7(146), pp 5-6 (USSR)

ABSTRACT: The article describes a students' festival of Labor Reserve Schools of Vologda and adjoining towns, such as Cherepovets, Sokol, and Velikiy Ustyug. 1500 students from 19 schools participated in the 3-day festival. It included sports, dancing, a torchlight procession, a concert and other entertainment. The article contains 5 photos.

ASSOCIATION: Vologda Oblast Administration of Labor Reserves (Vologodskoye oblastnoye upravleniye trudovykh rezervov)

AVAILABLE: Library of Congress

Card 1/1

*Gurchenko, T*

**AUTHOR:** Gurchenko, T., Deputy-Director 27-58-3-12/17

**TITLE:** Oldest Foreman (Stareyshiy master)

**PERIODICAL:** Professional'noye Tekhnicheskoye Obrazovaniye, 1958, # 3,  
page 23 (USSR)

**ABSTRACT:** This is a short biography on Aleksey Ivanovich Kochkin,  
a plasterer and Master of Industrial Instruction at the  
Vologda School of Building # 5.  
There is one photograph.

**ASSOCIATION:** Vologodskoye oblastnoye upravleniye trudovykh rezervov  
( Vologda Oblast' Administration of Labor Reserves)

**AVAILABLE:** Library of Congress  
Card 1/1

PSHENICHNYI, Nikon Ivanovich [Pshenychnyi, N.I.], kand. sel'khoz.nauk;  
BRATCHIK, V.M., kand. sel'khoz.nauk, otv. red.; GURENKO, V.A.  
[Hurenko, V.A.], red.; MATVIICHUK, O.A., tekhn. red.

[Growing forage beans in the Ukraine] Vyroshchuvannia kormovykh  
bobiv na Ukraini. Kyiv, Tovarystvo dlia poshyrennia polit. i  
naukovykh znan' URSR, 1962. 35 p. (MIRA 16:2)  
(Ukraine--Broad bean)

YUDOVICH, V.G.; KHLEBERDOV, A.B.; SOLOSEVICH, Ya.A.; SHITS, I.I.;  
PANOV, F.S.; BELYAEV, A.N.; ALADIN, G.I.; GSIKOV, A.I.;  
VOROB'YEV, A.I.; PECKOF'YEV, Yu.V.; SOLOV'YEV, Yu.A.;  
KUZ'MIN, A.V.; ZHIDONIS, V. Yu.; ZOLIN, A.V.; YATSOV, Ya.I.;  
DOBROSLAVSKIY, V.I.; TROIMANOV, Ya.M.; DRYASIN, Ya.R.;  
KOROLEV, V.F.; KERIMOV, N.B.; KRAVCHENKO, A.S.; RYVLIN, V.A.;  
GURCHENKO, A.P.; KOSLIKOV, I.P.; CHERNYAKOV, F.A.; ARKHANOV,  
N.K.

Authors' certificates and patents. Mashinostroyeniye no. 15111  
103 Ja-F 105. (MIRA 1974)



1. GURCHENKO, V.S.
2. USSR (600)
4. Wheat - Siberia
7. Best varieties of spring wheat under irrigation in Siberia. Sel.i sem. 19 no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. GURCHENKO, V. S.
2. USSR (600)
4. Wheat
7. High-yield variety of spring wheat. Sel. i sem. 20, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

GURCHENKO, V.S.

USSR/Cultivated Plants. - Grains

M-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1466

Author : V.S. Gurchenko, D.T. Boldin, A.V. Nesterova

Inst : Not Given

Title : New Varieties of Summer Grain Crops

Orig Pub : Vestn. s-kh. nauki, 1956, No 3, 139-141

Abstract : There is a brief characterization of new varieties of wheat, allotted to rayons in Eastern Siberia, in the Buryat-Mongolian ASSR, Alma-Atinskaya Oblast' and others, two varieties of oats of German selection which are suitable for cultivation in Kaliningradskaya and Kaluzh-Skaya Oblasts, and varieties of barley, earmarked for rayons in the Ukraine.

Card : 1/1

GURCHENKO, V.S.

AFANAS'YEVA, A.L., kand.biol.nauk; BAYERTUYEV, A.A., kand.sel'skokhozyaystvennykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozyaystvennykh nauk; BELOZEROVA, N.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyaystvennykh nauk; MAKSIMENKO, V.P., agronom; BERNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skokhozyaystvennykh nauk; VOLYNITS, O.S., agronom; BODROV, M.S., kand.sel'skokhozyaystvennykh nauk; BOGOSLAVSKIY, V.P., kand.tekhn.nauk; KHRUPPA, I.P., kand.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GARDIN, M.V., inzhener-mekhanik; GERASIMOV, S.A., kand.tekhn.nauk; GORSHEVIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELENEV, A.V., inzhener-mekhanik; GERASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozyaystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BARANOV, V.V., kand.tekhn.nauk; PAVLOV, V.D.; IVANOV, V.K., kand.sel'skokhozyaystvennykh nauk; KAPLAN, S.M., kand.sel'skokhozyaystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOPYRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN, A.Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand.sel'skokhozyaystvennykh nauk; KUZNETSOV, I.N., kand.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'NIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyaystvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

AFANAS'YEVA, A.L.... (continued) Card 2.

NIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; NEMASHEV, N.I.,  
lesovod; PERVUSEINA, A.N., agronom; PLOTNIKOV, N.A., kand.biol.nauk;  
L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn.  
nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO,  
V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykh nauk;  
PURTYANKO, A.F., agronom; RUGHKIN, V.N., prof.; RUSHKOVSKIY, T.V.,  
agronom; SAVITSKIY, M.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN,  
D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand.  
tekhn.nauk; SMIENOV, I.N., kand.sel'skokhozyaystvennykh nauk;  
SEREBRYANSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'sko-  
khozyaystvennykh nauk; FAL'KO, O.S., iznh.; FEDYUSHIN, A.V., doktor  
biol.nauk; SHSVIYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk;  
YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENPEL'D, P.A.,  
kand.sel'skokhozyaystvennykh nauk; SEMNOVSKIY, A.A., red.; GOR'KOVA,  
Z.D., tekhn.red.

[Handbook for Siberian agriculturists] Spravochnaya kniga agronoma  
Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p.  
(Siberia--Agriculture) (MIRA 11:2)

GURCHENKO, Z.

Low temperature condensation of natural gas at the fields of  
Czechoslovakia. Gaz. prom. 5 no. 12:50-52 D '60.

(MIRA 14:1)

(Czechoslovakia—Gas, Natural)

PHASE I BOOK EXPLOITATION SOV/5460

Leningradskiy metallicheskiy zavod. Otdel tekhnicheskoy informatsii.

Nekotoryye voprosy tekhnologii proizvodstva turbin (Certain Problems in the Manufacture of Turbines) Moscow, Mashgiz, 1960. 398 p. (Series: Its: Trudy, vyp. 7) Errata slip inserted. 2,100 copies printed.

Sponsoring Agency: RSFSR. Sovet narodnogo khozyaystva Leningradskogo ekonomicheskogo administrativnogo rayona, Upravleniye tyazhelogo mashinostroyeniya, and Leningradskiy dvazhdy ordena Lenina metallicheskiy zavod. Otdel tekhnicheskoy informatsii.

Ed. (Title page): G. A. Drobilko; Editorial Board: Resp. Ed.: G. A. Drobilko, B. A. Glebov, A. M. Mayzel, and M. Kh. Mernik; Tech. Ed.: A. I. Kontorovich; Managing Ed. for literature on Machine-Building Technology: Ye. P. Naumov, Engineer, Leningrad Department, Mashgiz.

PURPOSE: . This collection of articles is intended for technical personnel in turbine plants, institutes, planning organizations, as well as for production innovators.

Card-1/12

Certain Problems (Cont.)

SOV/5460

57

COVERAGE: The experience of the LMZ (Leningradskiy metallicheskiy zavod - Leningrad Metalworking Plant) in the manufacture of modern large-capacity turbines is presented. Methods for the rationalization of basic manufacturing processes and for the mechanization and automation of manual operations are given. Descriptions of attachments and tools designed by LMZ for improving labor productivity and product quality are provided, and advanced inspection methods discussed. References accompany some articles. No personalities are mentioned. There are 26 references: 25 Soviet and 1 English.

TABLE OF CONTENTS:

Foreword

3

I. NEW PROCESSING METHODS IN MACHINING AND ASSEMBLY

Gamze, Z. M. [Engineer]. The Organization, Methods, and Trends in Efforts for Improving the Easy Manufacturability of Designs for Large Hydraulic Turbines  
Card 2/12

5



Certain Problems (Cont.)

SOV/5460

Gurchenkov, V. V. [Engineer], and B. N. Fil'shtinskiy. Automation of the Workhardening Process of Belleville Springs 192

Misulovin, S. M. Automation of Cutting-Tool Feed on a Boring Machine for the Face Turning of Large Parts 196

Bol'shakov, B. A. The Manufacture of Flexible Shafts for Small Drilling Machines 200

III. NEW METHODS FOR MANUFACTURING  
TURBINE BLADES

Kal'nitskiy, S. L. [Engineer]. Fixtures and Specialized Equipment for Machining of Variable-Cross-Section Blades 203

Kuzinets, S. D. [Engineer]. Fixtures for Machining the Working Section of Turbine Blades With Helical and Curvilinear Profile Twist 217

Kodryanskiy, M. G. [Engineer]. Machining the Outer Profile  
Card 6/12

Certain Problems (Cont.)	SOV/5460	
for Assembling the Diaphragms of Steam and Gas Turbines for Tack Welding		329
Yakhnin, M. N. [Engineer]. A Pneumatic Clamping Device on Turret Lathes for Holding Bar-Stock and Piece Blanks		333
Gurchenkov, V. V. [Engineer], and V. I. Nedvetskiy. A Highly Productive Circular-Tooth Spiral-Flute Milling Cutter		337
Kuprin, Yu. V. Milling Cutters for Machining Narrow "V"-Shaped Slots		340
Vakhter, M. L. [Engineer]. Proper Equipment for Increasing the Service Life of Face Milling Cutters		343
Melikhan, Ye. K. [Engineer]. Toolholders and Tools With Adjustable [Cutter] Overhang		347
Oborin, A. I. [Engineer]. A Device for Testing an Industrial Truck by Static Loading Card 10/12		350

S/123/61/000/007/007/026  
A004/A104

AUTHORS: Gurchenkov, V.V., Fil'shtinskiy, B.N.

TITLE: The automation of the cold-working of disk springs

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1961, 80, abstract 7B629 (V sb. "Nekotoryye vopr. tekhnol. proiz-va turbin", [Tr. Leningr. metallich. z-da, no. 7], Moscow-Leningrad, 1960, 192 - 195)

TEXT: The authors describe an installation, operating on compressed air, for the shaping and cold-working of disk springs made of 1X18H9T (1Kh18N9T) sheet steel. A uniform cold-working is ensured by the simultaneous rotating and reciprocating motion of the head. The spring machining intensity depends on the number of revolutions, number and force of the head strokes. The utilization of the automatic cold-working installation increases the labor productivity and improves the spring quality. These installations are used (with insignificant modifications) for the gluing of wooden planks to metallic bands with the aid of steel rivets with semicircular heads. There are 5 figures. N. Il'ina

[Abstracter's note: Complete translation]

Card 1/1

22932  
S/123/61/000/008/003/013  
A004/A104

15600

AUTHORS: Gurchenkov, V.V., Nedvetskiy, V.I.

TITLE: High-efficiency "corn-type" milling cutter ("kukuruznaya freza")

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 8, 1961, 63, abstract 8B477 (V sb. "Nekotoryye vopr. tekhnol. proiz-va turbin". [Tr. Leningr. metallich. z-da, no. 7], Moscow-Leningrad, 1960, 337 - 339)

TEXT: The authors describe the design of end milling cutters 30, 40 and 60 mm in diameter with relieved teeth ("corn-type" milling cutter), suggested by LMZ workers. In contrast to the milling cutters according to ГОСТ (GOST) 4675-49 (and correspondingly GOST 4675-59), "corn-type" cutters have a smaller number of teeth corresponding to  $Z = 3$ ,  $Z = 4$  and  $Z = 5$ , a larger angle of inclination ( $\omega = 40^\circ$ ) and a larger chip groove volume which makes it possible to use higher cutting conditions during the machining of steam turbine parts. There are 3 figures and 2 tables.

S. Avrutin

[Abstracter's note: Complete translation]

Card 1/1

GURCHENOK, A. A.

"Escape of Boiling Water Through Straight Nozzles." Cand Tech Sci, Tomsk Polytechnical Inst, Tomsk, 1954. (RZhMekh, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

AUTHOR: Gurchenok, A., Cand.Tech.Sci. SOV/96-58-6-22/24

TITLE: A scientific technical conference on the campaign against thermal losses in electric power stations and in industry. (Nauchno-tekhnicheskaya konferentsiya po bor'be s teplovymi poteryami na elektrostantsiyakh i v promyshlennosti).

PERIODICAL: Teploenergetika, 1958, No.6. pp. 92 (USSR)

ABSTRACT: The conference was held from 10 to 13th February, 1958 in Tomsk, and was called by the Tomsk Polytechnical Institute. It generalised the experience of Siberian power engineers in introducing measures to economise fuel and heat in power stations and in industry. Special attention was drawn to the use of secondary sources of heat. Participants in the Conference included representatives of a number of power stations, of the Siberian division of ORGRES, of the Eastern division of the All-Union Thermotechnical Institute, of the Tomsk Polytechnical Institute, of ZSFAN USSR and others. Seventeen reports were read. The Conference noted that with increasing use of cheap fuel, it is important to cheapen the equipment of thermal power stations. In this respect it is useful to instal low-pressure economisers and to superpose high-pressure sets on medium-pressure stations. The Conference noted that there is no formalised way of

Card 1/2

SOV/96-58-6-22/24

A scientific technical conference on the campaign against thermal losses in electric power stations and in industry.

evaluating thermal power installations and that the existing staff coefficient, related to kilowatts output without allowing for boiler-house capacity, is incorrect. The training of engineers in the Tomsk Polytechnical Institute was also considered. The Tomsk Institute should take more power engineers and should commence training specialists in water technology and fuel.

1. Electric power production--USSR
2. Power plants--Effectiveness

Card 2/2

SOV/143-58-3-11/18

AUTHOR: Gurdenok, A.A., Candidate of Technical Sciences

TITLE: The Process of Steam Generation during the Outflow of Boiling Water (O protsesse parobrazovaniya pri istechenii kipiyashchey vody)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1958, Nr 9, pp 68-72 (USSR)

ABSTRACT: The author's experimental study of the flow of boiling water through cylindrical nozzles of varying lengths has furnished data on the consumption of boiling water and on pressure variations throughout the length of the nozzle which enables us to calculate the water vapor content and the degree of steam formation. The paper contains vaporization factor values in two different forms. A comparison of the two sets of values shows that the vaporization factor calculated from the amount of steam formed during the outflow of boiling water, is much greater than during the actual vaporization process. Such an increase in the intensity of steam

Card 1/3



SOV/142-58-9-11/18

The Process of Steam Generation During the Outflow of Boiling Water

generation can be explained by the fact that the vaporization process occurs not only on the free surface of the fluid, but also on the surface of the vapor bubbles which arise within the liquid and form a vaporization surface. The presence of vapor bubbles within the liquid is a characteristic of the vaporization process. Thus steam generation occurs through boiling and not through surface vaporization. Consequently, the surface vaporization method must be regarded merely as an artificial computational technique when determining the consumption of boiling water, i.e. a technique that does not take into account all steam generation characteristics during flow. There are 3 tables, 1 diagram and 6 references, of which 5 are Soviet and 1 English.

ASSOCIATION: Kafedra teoreticheskoy i obshchey teplotekhniki Tomskogo politekhnicheskogo instituta (Chair of Theoretical and General Thermal Engineering, Tomsk Polytechnical Institute)

Card 2/3

SOV/143-58-9-11/18

The Process of Steam Generation During the Outflow of Boiling Water

SUBMITTED: May 19, 1958

Card 3/3

GURCHENOK, A.A.

Studying the flow of boiling water through diaphragms and  
cylindrical nozzles. Izv.TPI 101:3-17 '58. (MIRA 13:5)

1. Predstavleno prof. G.I.Fuks.  
(Hydraulics)

GURCHENOK, A.A.

Determining the completeness of steam formation during the flow  
of boiling water. Izv.TPI 101:18-21 '58. (MIRA 13:5)  
(Steam)

66537

SOV/144-59-1-18/21

21.2300

AUTHORS: Gurchenok, A.A., Cand.Tech.Sci., Docent; and  
~~Shipunov, I.V.~~, Chief Engineer.

TITLE: The Cooling System of the Electromagnet of a Double-Beam  
25 MeV Betatron

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,  
Elektromekhanika, 1959, Nr 1, pp 132-135 (USSR)

ABSTRACT: The 25 MeV betatron was described in Ref 1. Energy losses  
in the steel at 150 c/s are 25 kw, and calculations have  
shown that the magnetic circuit must be artificially  
cooled. Fig 1 shows the final system for air cooling of  
the magnet. The system consists of two independent  
ventilation circuits, one for the upper and one for the  
lower part of the electromagnet. A collecting air duct  
is fitted to the upper and lower yokes and vertical  
ventilators (1) are attached to it. The electric motors  
(2) of the ventilators are supported by special brackets  
independently of their chambers. The latter are sealed  
to the air ducts which collect the air passing through the  
cooling tubes inside the electromagnet. The cooling  
channels (4) are formed by special rectangular slits  
10 x 100 mm in size, as shown in Fig 1. The cooling air

Card  
1/2

66537

SOV/144-59-1-18/21

The Cooling System of the Electromagnet of a Double-Beam 25 MeV  
Betatron

enters through the windows (5) on each side of the yoke, is drawn through the channels, and then collected by the air duct, from which it is removed by the ventilators. The amount of air drawn through each system is 7000 m<sup>3</sup>/hr, and the speed in the internal channels shown in Fig 1 is 14-16.5 m/sec. Simple formulae are derived for estimating the amount of heat removed. There are 1 figure, 1 table and 5 Soviet references.

ASSOCIATION: Kafedra teoreticheskoy i obshchey teplotekhniki, Tomskiy politekhnicheskiy institut (Chair of Theoretical and General Heat Engineering, Tomsk Polytechnical Institute) and Fiziko-tekhnicheskiy fakul'tet, Tomskiy politekhnicheskiy institut (Physico-Technical Department, Tomsk Polytechnical Institute)

Card 2/2

21,2300

68135

SOV/144-59-2-17/19

AUTHOR: Gurchenok, A. A. Candidate of Technical Sciences, Docent

TITLE: Calculation of the Heat Transfer<sup>71</sup> in the Cooling Plates of  
Air-Cooled Betatron Magnets 21

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,  
1959, Nr 2, pp 124-127 (USSR)

ABSTRACT: In air-cooled transformers, of which a betatron electro-  
magnet is an example, the heat loss by the walls of the  
yoke is limited by the usually low emissivity of the  
surface when the latter is cooled by blowing air onto it.  
In order to increase the amount of heat extracted, special  
copper cooling plates were inserted into the coil of the  
magnet, as shown diagrammatically in Fig 1. A calculation  
has been carried out to determine the optimum dimensions  
of such a cooling plate. It has been found that the cooling  
effect is a maximum for a certain depth of insertion of the  
cooling plate into the magnet core (Fig 4). Fig 4 is a  
plot of the dependence of the cooling effect per unit  
area of the plate as a function of the depth of insertion.  
There are 4 figures and 1 Soviet reference.

ASSOCIATION: Kafedra teoreticheskoy i obshchey teplotekhniki,  
Tomskiy politekhnicheskii institut (Chair of Theoretical  
and General Heat Engineering, Tomsk Polytechnical Institute)

Card1/1

4

GURCHENOK, A.A., kand.tekhn.nauk

Investigating the cooling process in the magnetic circuit  
of transformers by means of electric models. Izv.vys.ucheb.  
zav.; energ. 3 no.3:20-25 Mr '60. (MIRA 13:3)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskii  
institut imeni S.M.Kirova. Predstavlena kafedroy teoreticheskoy  
i obshchey toplotekhniki.

(Electric transformers--Cooling)



GURCHENOK, A.A., kand.tekhn.nauk, dotsent

Concerning S.V. Polozhii's article "Steam generation during the outflow of heated water". Izv. vys. ucheb. zav.; energ. 4 no.8:118-121 Ag '61. (MIRA 14:8)

1. Tomskiy politekhnicheskii institut im. S.M. Kirova.  
(Steam)  
(Polozhii; S.V.)

GURCHENOK, A.A.

Calculating the process of adiabatic expansion of boiling  
water. Izv. TPI 125:45-50 '64. (MIRA 18:8)

L 41387-65 EPF(n)-2/EPR/EPA(s)-2/ENG(v)/EWT(1)/EWA(1) Pe-5/Ps-4/Pt-10/Pu-4 WYI  
ACCESSION NR: AR5009683 UR/0058/65/000/002/A015/A015

SOURCE: Ref. zh. Fizika, Abs. 2A141

AUTHOR: Gurchenok, A. A.

TITLE: The required accuracy of a two-position temperature regulation, with account of damping of the temperature oscillations in the interior of bodies

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 125, 1964, 51-53

TOPIC TAGS: two position regulation, on off regulation, temperature regulation, heat conduction

TRANSLATION: In two-position regulation of the "on-off" type, the change in the temperature of the object is an oscillating process with constant amplitude. Use of the solution of the equation of heat conduction for the one-dimensional problem has allowed the author to estimate the decrease in the amplitude of temperature oscillations as a function of the distance from the heat sources (heaters) on the surface of the body, and to reach the conclusion that the accuracy of two-position

Card 1/2

L 41387-65

ACCESSION NR: AR5009683

regulation should be specified with allowance for the attenuation of the temperature oscillations inside the object. B. Pilipchuk

SUB CODE: IE, DP

ENCL: 00

cc  
Card 2/2

GURCHFNOK, A.A.

Required precision of on-off control of temperature with allowance for the damping of temperature oscillations inside bodies. Izv. TPI 125:51-53 '64. (MIRA 18:8)

1. Predstavlena kafedroy avtomatizatsii teploenergeticheskikh protsessov promyshlennykh predpriyatiy Tomskogo ordena Krasnogo Znameni politekhnicheskogo instituta imeni Kirova.

VYSOTSKAYA, V.M.; GURCHINOK, A.A.

Behavior of power transformers under conditions of intense  
cooling. Inv.TPI 137:39-44, '65. (MIRA 19:1)

GREBENSHCHIKOV, Vasily Orestovich. Prinimali uchastiye: GURCHENOK, I.F., SOLOV'YEVA, V.Ye.; SHTEYN, V.S. KARAKULOV, I.K., prof., doktor med. nauk, red.; NUGER, M.M., red.; SVICHKAR', N.N., tekhn.red.

[Public health and medicine in prerevolutionary Kazakhstan; bibliographic index to literature, 1731-1917] Zdravookhronenie i meditsina v dorevolutsionnom Kazakhstane; bibliograficheski ukazatel' literatury, 1731-1917 gg. Alma-Ata, Gos.nauchn.med. biblioteka Kazakhstana, 1960. 288 p. (MIRA 13:11)

1. Direktor Gosudarstvennoy nauchnoy meditsinskoj biblioteki Kazakhstana (for Grebenshchikov). 2. Gosudarstvennaya nauchnaya meditsinskaya biblioteka Kazakhstana (for Gurchenok, Solov'yeva, Shteyn). 3. Chlen-korrespondent Akademii nauk Kazakhskoy SSR (for Karakulov).

(BIBLIOGRAPHY--KAZAKHSTAN--MEDICINE)  
(KAZAKHSTAN--BIBLIOGRAPHY--MEDICINE)

GURCHIAVI, K.R.

Materials on the study of lung nematodes of sheep and goats  
in eastern Georgia. Soob. AN Gruz. SSR 29 no. 3:333-336  
S' 62 (MIRA 19:1)

1. Gruzinskiy zootekhnicheskoy-veterinarnyy uchebno-issledovatel'skiy institut. Submitted December 21, 1961.



GURCHIN, R.S.

Study of *Salmonella* infections in the Far East  
Sov. J. Zool. 1981 34 no.14:247-250

1. Institut zoologii AN Gruzinskoy S.S.S.R. i  
korespondentom Akademii Nauk SSSR.

L 00920-66 EWT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: AP5020109

UR/0251/65/039/001/0188/0189

AUTHORS: <sup>44,55</sup> Kurashvili, B. Ye.; <sup>44,55</sup> Gurchiani, K. R. <sup>6,44,55</sup>

22  
B

TITLE: Sensitivity of farm animals to alveococcosis

SOURCE: AN GruzSSR. Soobshcheniya, v. 39, no. 1, 1965, 188-189

TOPIC TAGS: animal disease, veterinary medicine

ABSTRACT: To clarify the part played by Alveococcus multilocularis in the etiology of alveococcus in farm animals, experiments were performed to test the sensitivity of young pigs, lambs, and calves to alveococcosis. The experimental results show an absence of alveococcal sensitivity in young pigs and calves, and the sensitivity was lowered in lambs (i.e., atypical vacuoles developed with no embryonic forms of scolex). The data obtained confirm the observations that farm animals do not participate in the biological cycle of A. multilocularis which causes alveococcosis.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NO REF SOV: 012

OTHER: 003

Card 1/1 *DP*

GROMOV, S.A.; GURCHIN, F.A.

Clinical aspects of chronic cystic subdural hematomas.  
Vop. psikh. i nevr. no.9:132-135 '62. (MIRA 17:1)

1. Leningradskaya bol'nitsa (glavnyy vrach A.F. Yagerova).

GURCHIN, I.I., assistant

Conference on the technical and natural sciences. Izv.vys.ucheb.  
zav.; elektromekh. 6 no.2:281-282 '63. (MIRA 16:4)

1. Novocherkasskiy politekhnicheskii institut.  
(Science--Congresses) (Technology--Congresses)

54130

1043, 1142, 1160

23419

S/081/61/000/005/001/024  
B102/3202

AUTHOR: Gurchumeliya, A. D.

TITLE: Ground state of the  $Ge^{2+}$  ion

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1961, 7, abstract 5556 (5B56) ("Sakartvelos politeknikuri instituti. Shromebi, Tr. Gruz. politekhn. in-t", 1958 (1959), no. 1 (62) 157-167)

TEXT: The ground state  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2$  of  $Ge^{2+}$  was studied by the self-consistent field method by Hartree-Fock in Slater approximation (averaged exchange energy of the electron interaction). The Hartree-Fock equation is solved by the method of successive approximations. The initial functions were obtained from the Hartree functions. The maximum deviations from the experimental energy values amount to 8 % for the optical term and to about 15 % for the roentgen term (for the 3p-level). The maximum deviation from the Hartree results are approximately 19 %. The deviations of the radial wave functions range from 1 to 11 %. The extreme values are somewhat shifted toward the nucleus (compared with the Hartree

Card 1/2

23419

Ground state of the  $\text{Ge}^{2+}$  ion

S/081/61/000/005/001/024  
B102/B202

X

results). The following quantities are also calculated: 1) the internal diamagnetic field  $eH/(3mc^2)U(0)$ :  $U(0) = 144.7$  at. units; 2) the ionic radius (according to Pauling): 1.00 Å (according to Hartree: 1.11 Å); 3) the diamagnetic susceptibility  $\chi = -17.0 \cdot 10^{-6} \text{ cm}^3$  and polarizability  $\alpha = 1.00 \cdot 10^{-24} \text{ cm}^3$ . [Abstracter's note: Complete translation.]

Card 2/2

GURCHUMELIYA, A. D.

Simplification of the self-consistent field method for the  
valence state of the Ge atom. Izv. vys. ucheb. zav.; fiz.  
no.6:11-15 '62. (MIRA 16:1)

1. Gruzinskiy politekhnicheskiy institut imeni Lenina.

(Quantum theory) (Germanium)

ACCESSION NR: AT4041504

S/2910/63/003/01-/0139/0142

BR

AUTHOR: Gurchumoliya, A. D.

TITLE: Computation of the basic state of the Ge atom in the simplified Hartree-Fock self-consistent field approximation

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 3, no. 1-2, 1963, 139-142

TOPIC TAGS: atomic theory, field approximation, quantum mechanics, germanium atom, Hartree Fock method, density matrix, spin coordinate, spherical harmonic, exchange potential, Slater potential, energy level, diamagnetic susceptibility

ABSTRACT: A two-particle density matrix,  $P_2(1, 2, 1', 2')$ , originally formulated by R. Meehan (Rev. Mod. Phys. 32, 335, 1960), is integrated with respect to spin coordinates and expressed in terms of single electron functions of a central field (spherical harmonics). Integration with respect to angles results in an expression averaged with respect to direction of the correlation terms. This can be regarded as the radial exchange density from which the exchange potential is derived. Using this expression, the full potential has a correct asymptotic behavior ( $\lim_{r \rightarrow \infty} W(r) = 2$ ) as compared with Slater's potential  $W(\infty) = 0$ . Results of computer solutions of the single-electron equation for the Ge atom are given in the form of curves of  $P_{1s}, P_{2p}, P_{2s}, P_{3s}, P_{3d}, P_{3p}, P_{4p}$  and  $P_{4s}$  versus  $r$ . Comparison

Card 1/2



ACCESSION NR: AT4041513

S/2910/63/003/01-/0199/0201

AUTHOR: Gurchumeliya, A. D.

TITLE: Scattering of slow electrons by atoms

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 3, no. 1-2, 1963, 199-201

TOPIC TAGS: electron scattering, slow electron, slow electron scattering, electron atom interaction, Hartree Fock method, exchange operator, electron momentum, helium atom

ABSTRACT: The self-consistent field method due to Hartree and Fock gives the most accurate approximation of the interaction between an electron and an atom. Simplification of the method by omitting exchange terms results in inaccurate answers at low energy levels. A classical analog for the exchange operator  $A$ , given by Fock (ZhETF, 4,5,1934), is shown to differ only by a constant from the exchange operator derived by Slater (Phys. Rev., 81, 385, 1951) for electrons in an atom. Representing the electron states by plane waves, an analogous exchange operator for the colliding electron is derived. This operator reduces to Slater form when the momentum of the colliding electron is much greater than the momentum of the atom electrons. When the opposite is true, scattering of slow electrons takes place. When the changes in the wave functions of the atom electrons caused by the colliding slow

Card

1/2

ACCESSION NR: AT4041513

electron are neglected and only s-scattering is accounted for, a variational procedure is used to obtain the solution for the scattering length  $a$ . Applied to a helium atom, the method gives  $a = 2.3$  as compared to the true value of  $-1.52$ . The elastic cross section of the electron-atom collision computed using this method give values which deviate from the true values by a factor of about 2.3. "The author expresses his deep gratitude to G. F. Drukarev for valuable discussions." Orig. art. has: 11 equations and 1 table.

ASSOCIATION: Gruzinskiy politekhnicheskii Institut Im. V. I. Lenina, Tbilisi (Georgian Polytechnical Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 002

OTHER: 003

2/2

Card

ACCESSION NR: AR4043994

S/0058/64/000/006/D005/D0005

SOURCE: Ref. zh. Fizika, Abs. 6D34

AUTHOR: Gurchumeliya, A. D.

TITLE: Analytical representation of single-electron radial wave functions of the self-consistent field of an atom

CITED SOURCE: Tr. Gruz. politekhn. in-t, No. 8(93), 1963, 213-216

TOPIC TAGS: wave function, radial wave function, self consistent field, atomic field

TRANSLATION: Proposes an approximate analytical representation of single-electron radial wave functions of the Slater type;  $n$  is considered equal to the main quantum number, while the exponential parameter  $\gamma_{n, l}$  is selected from the condition  $E_{n, l}^{exp}$ , where  $E_{n, l}^{exp}$  is the ionization energy of an electron from level  $(n, l)$ . The expression  $E_{n, l}$  is obtained in Hartree approximation. There are determined the values of  $\gamma_{n, l}$

Card 1/2

ACCESSION: NR: AR4043994

certain (nl) for Fe, Zn, Ge, and As atoms. There are calculated the average quantum-mechanical value  $r^k$  for Ge atoms. The results are in satisfactory agreement with calculations made using Hartree numerical functions. It is concluded that this method of finding approximate analytical functions is suitable for estimation calculations.

SUB CODE: NP

ENCL: 00

Card 2/2