"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 11115-66 EWT(1)/EWA(h)

ACC NR:AP6001939 SOURCE CODE: UR/0142/65/008/006/0712/0715

AUTHOR: Gusev, G. G.; Yurkevich, V. M.

ORG: none

TITLE: Balance circuit of inductive parametron

SOURCE: IVUZ. Radiotekhnika, v. 8, no. 6, 1965, 712-715

TOPIC TAGS: parametron, inductive parametron

ABSTRACT: A brief description of a new parametron circuit (Author's Certificate no. 170201, Bull. izobr., no. 8, 1965) is presented along with some experimental data. It is found that, with a low (up to 20 ma) pumping, the balance-circuit parametron develops an output voltage 4 times as high as that of a conventional parametron; with higher pumpings, this ratio decreases, remaining, however, over 2 in any case. The higher output voltage permits increasing the impedance of coupling with the next parametron in logic circuit, thus making noise rejection more efficient. Orig. art. has: 3 figures and 27 formulas.

SUB CODE: 09 / SUBM DATE: 13Feb65 / ORIG REF: 003 / OTH REF: 000

HW

Card 1/1 UDC: 621.375.932

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

KAGAN, D.F.; GUSEV, G.G.; SINKEVICH, K.V.

Analysis of the elements of joints of steel pipe lined with vinyl plastics and polyethylene. Sbor. trud. NIIST no.12:101-116 '62. (MIRA 16:3)

(Pipe joints) (Pipe, Steel) (Plastics)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

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[illegible]

[illegible] in patients with [illegible]
[illegible] Rost. gos. med. inst. [illegible]

[illegible] of the menstrual [illegible]
[illegible]

[illegible] safedry [illegible]
[illegible] ogo institute.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 51984-65 EWT(d)/EPA(s)-2/EWT(m)/EPF(c)/EWP(c)/EWP(v)/EPR/EWP(j)/T/EWP(k)/EWP(1) Pc-4/Pf-4/Pr-4/Ps-4/Pt-7 WW/RM

ACCESSION NR: AT5012210 UR/3078/64/028/000/0228/0231

51
50
B+1

AUTHOR: Vlasov, P. V.; Gusev, G. G.; Molokanov, A. V.

TITLE: Device for testing tubes made of fiberglass reinforced plastics

SOURCE: Moscow. Institut khimicheskogo mashinostroyeniya. Trudy, v. 28, 1964. Korroziya khimicheskoy apparatury (Corrosion of chemical apparatus), 228-231

TOPIC TAGS: fiberglass, reinforced plastic, plastic tubing, tube tester, plastic corrosion

ABSTRACT: After listing the disadvantages of tube-testing devices used thus far, the authors propose a new device for testing tubes under internal hydrostatic pressure in aggressive acid and alkaline media. The wall of the tube is subjected to a combination of stresses, so that the laboratory tests approach the industrial conditions. A complete diagram of a section of the device (several such sections make up the testing unit) is given and its operation is described. A unique feature of the unit is that the liquid is present throughout the system; this facilitates the creation of a reliable packing of joints and decreases the size of the unit and its cost. The criterion used in evaluating the chemical stability of tubes made of glass-reinforced plastics in various aggressive media was the comparative data on the decrease in the rigidity of ring specimens cut

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 51984-65
ACCESSION NR: AT5012210

out of the tubes and the decrease in density (due to the formation of porosity in the tube wall). Orig. art. has: 1 figure.

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Chemical Machine Building)

SUBMITTED: 00 ENCL: 00 SUB CODE: MT, IE

NO REF SOV: 001 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.I.; BORSHCHEVSKAYA, S.I., red.; LEVONEVSKAYA, L.G., tekhn. red.

[Brigade plan] Brigadnyi plan. [Leningrad] Lenizdat, 1954. 42 p. (MIRA 11:7)
(Pipe, Steel)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.M.; SHVARTSMAN, Ya.N.

Further development of fuel bed furnaces for roasting zinc concentrates. TSvet. met. 31 no.4:29-34 Ap '58. (MIRA 11:5)

1. Zavod "Electrotsink."
(Zinc—Metallurgy) (Ore dressing) (Metallurgical furnaces)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.M.

New machine tools designed by the Experimental Research Institute of Machine Tools. Mashinostroitel' no.7:44-46 Jl '62. (MIRA 15:7)
(Machine tools)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

VORSIN, A.M.; [illegible], G.E.

Low-temperature flame photometry. [Trudy] Inst. geol. i geofiz. Sib. otd. AN SSSR no.32:3-15 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

KLYAROVSKIY, [illegible]; [illegible], G.M.; ARKHIPENKO, D.K.; [illegible], S.I.; [illegible], Ye.M.

Practice in modeling the weathering process of micas. [Trudy] Inst. geol. i geofiz. Sib. otd. AN SSSR no.32:63-74 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GLYBIN, A.I.; GUSEV, G.N., retsenzent;, inzhener, FETISOV, F.I., redaktor, inzhener, NAUMOV, V.I., redaktor; inzhener, SOKOLOVA, L.M., tekhnicheskiy redaktor.

[Motor and tractor filters for purifying fuel and oil] Avtotraktornye fil'try dlia ochistki goriuchego i masel. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1955. 89 p.(MLRA 8:11)
(Automobiles--Engines--Oil filters]

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GLYBIN, Andrey Ivanovich; GUSEV, G.N., inzh., retsenzent; NAUMOV, V.I., kand.tekhn.nauk, red.; DUDUSOVA, G.A., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Filters for motor-vehicle engines] Avtotraktornye fil'try. Izd.2., perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 190 p. (MIRA 13:12)
(Motor vehicles--Engines)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

YEMEL'YANOV, Leonid Aleksandrovich; KHARCHENKO, I.A., kand. tekhn. nauk, dots., retsenzent; GUSEV, G.N., inzh., red.; YURKEVICH, M.P., inzh., red. izd-va; PETERSON, M.M., tekhn. red.

[Filtration of diesel fuel]Fil'tratsiia dizel'nogo topliva. Moskva, Mashgiz, 1962. 105 p. (MIRA 15:11)
(Diesel fuels)
(Filters and filtration)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G. N. (DECEASED) 1963/2

c' 1962

PUBLIC HEALTH

see ILC

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G. P.

USSR/Electronics - Interferences

Card 1/1 Pub. 133 - 4/18

Authors : Lyutov, S. A., and Gusev, G. P., Engineers

Title : Supression of radio-interferences caused by ATS telephone sets

Periodical : Vest. svyazi 12, 7-10, Dec 1954

Abstract : In order to determine the magnitudes of radio interferences caused by ATS telephone sets installed close to radio receiver and television sets the authors investigated the characteristics of several Soviet and foreign make telephone sets. The results obtained by measuring the interferences caused by ATS telephones in a 0.15 - 150 mc-range, are listed. The selection of a most suitable scheme for the supression of such radio interferences and the design of an interference protective filter for these telephone sets, are announced. Table; graphs; drawing.

Institution : ...

Submitted : ...

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

AUTHOR: Gusev, G.P., Engineer. 110-6-23/24

TITLE: Concerning standards of maximum permissible radio interference for high frequency electro-thermal installations. (O Normakh prédel'no dopustimykh radiopomekh dlya vysoko chastotnykh elektrotermicheskikh ustanovok.)

PERIODICAL: "Vestnik Elektropromyshlennosti"(Journal of the Electrical Industry) 1957, Vol.28,No.6, pp.78-79 (U.S.S.R.)

ABSTRACT: The necessary degree of suppression of radio interference from industrial electrical equipment is laid down in standards dated 1954. The suppression of radio interference is often expensive. This applies particularly to high frequency electro-thermal installations employing valve generators. An article has recently been written by Prof. A.V.Donskoy and Engineer A.A. Frumkin (Vestnik Elektropromyshlennosti 1956, No.11), which recommends relaxation of existing standards. The main object of the present article is to controvert this statement and to insist that existing standards must be maintained. The various arguments raised by Donskoy and Frumkin are dealt with in turn and the Soviet standard is compared with conditions in other countries.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

Concerning standards of maximum permissible radio interference for high frequency electro-thermal installations. (Cont.) 110-6-23/24

It is suggested that the simplest solution is to limit the frequency range in which electro-thermal installations are allowed to work and to apply a combination of different methods of interference suppression.

There are 6 references, 5 of which are Slavic.

ASSOCIATION: TsNIIS.

AVAILABLE:

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

SOV/115-58-5-28/36

AUTHOR: Lyutov, S.A. and Gusev, G.P.

TITLE: A Screened Measuring Chamber (Izmeritel'naya ekranirovannaya kamera)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 5, pp 67-70 (USSR)

ABSTRACT: A screened measuring chamber must be built so that the extraneous interference level does not exceed 2 microvolts throughout its whole measuring frequency range, and so that the voltage level of radio interference in the wiring of the circuits to which it is connected also does not exceed 2 microvolts. The paper then carries computations for screened chambers from the standpoint of screening and of production data. A formula is given for effective screening. Then construction data are given for the chamber. Finally a device is described for filtering off interference in the circuit. These filters are switched in to suppress radio interference and have an effectivenss of 10^5 (100db) in all frequency ranges in which measurements

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A Screened Measuring Chamber

are taken. There are 2 diagrams, 2 graphs and 1 circuit diagram.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G. P.

PHASE I BOOK EXPLOITATION SOV/5173

Lyutov, Sergey Aleksandrovich, and Gennadiy Petrovich Gusev

Podavleniye industrial'nykh radiopomekh (Suppression of Industrial Radio Noise) Moscow, Svyaz'izdat, 1960. 318 p. 6,000 copies printed.

Resp. Ed.: P. G. Metel'tsin; Ed.: Ye. S. Novikova; Tech. Ed.: K. G. Markoch.

PURPOSE: This book is intended for technical personnel working on noise suppression in scientific research institutes, laboratories, planning organizations, and design offices, and concerned with the development and operation of electrical devices causing industrial radio noise.

COVERAGE: A considerable part of the book is devoted to the suppression of radio noise caused by automobiles. Problems related to the suppression of noise due to electric power equipment, power-supply sources, and telephone and telegraph apparatus are examined. The systems of noise suppression for contact devices,

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

Suppression (Cont.) SOV/5173

telephone and telegraph equipment, electromagnetic rectifiers, converters, motor-generator sets, and automobiles described in the book were worked out under the direction of S. A. Lyutov and with the participation of V. N. Norov, N. G. Kurakin, D. N. Polukhin, N. V. Khozyainov, P. S. Golionko, V. V. Blinov and Ya. A. Mendelevich. S. A. Lyutov wrote the Introduction; pars. 1, 2, 3, 4, 5, 7, 8 of Ch. I; Ch. II; par. 2 of Ch. III; par. 2 of Ch. IV; par. 2 of Ch. V; and pars. 3, 4, 5 of Ch. VI. G. P. Gusev wrote pages 129-137 of par. 1, Ch. III; par. 6 of Ch. IV; pars. 1 and 2 of Ch. VI, and Appendixes I and II. The remainder of the text was written jointly. The authors thank editor P. G. Metel'tsin for his advice. The general editing was carried out by S. A. Lyutov. There are 119 references, all Soviet.

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Introduction 4

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

TIMOFEYEV, V.I.; GUSEV, G.S.

Distribution of diamond placer deposits in the northeastern part of the Siberian Platform. Trudy IAFAN AN SSSR Ser. geol. no.9:149-154 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

MOKSHANTSEV, K.B.; GORNSHTEYN, D.K.; GUSEV, G.S.; DEMIGIN, E.V.; SHTEKH, G.I.; KOSYGIN, Yu.A., otv. red.

[Tectonic pattern of the Yakut A.S.S.R.] Tektonicheskoe stroenie IAkutskoi ASSR. [By] K.B.Mokshantsev i dr. Moskva, Nauka, 1964. 289 p. (MIRA 18:2)

1. Akademiya nauk SSSR. Yakutskiy filial, Yakutsk.
2. Chlen-korrespondent AN SSSR (for Kosygin).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

Dissertation: "Investigation of the Process of Electroerosion [illegible] of Metals Applicable to Conditions of Agricultural Maintenance Enterprises." Cand Tech Sci, Moscow Inst of Mechanization and Electrification of Agriculture imeni V. M. Molotov, 28 May 54. Vechernyaya Moskva, Moscow, 19 May 54.

SO: SUM 284, 26 Nov 1954

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.V.

MG

Derivation of the Interaction Criterion for the Materials of Electrodes in Surface Attack on Metals by the Electric Spark: G. V. Gusev (*Zhur. Tekhn. Fiziki*, 1955, 25, (4), 763–765). [In Russian]. The erosion of electrodes between which an elect. spark is passing has been studied hitherto by empirical means, and empirical formulæ have been derived for the erosion-resistance of different metals. G. has calculated theoretically the critical conditions under which a patch of corrosion formed at one end of a spark will begin to grow. The criterion derived (agreeing with empirical results) depends on the thermal const. (thermal conductivity, sp. heat, and m.p.) of the material of the electrode and the conditions of the elect. discharge (e.g. duration of pulse).—A. F. B.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

IVANOV, Ye. N.; GUSEV, G. V.; ZHURAVLEV, V. N.

Phenology of the Colorado beetle. Zashch. rast. ot vred. i bol. 6 no.6:50-51 Je '61. (MIRA 16:4)

(Potato beetle)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

SHABLIOVSKIY, V.V., entomolog; GUSEV, G.V., entomolog; YESIPENKO, F.A.

Potato ladybird beetle. Zashch. rast. ot vred. i bol. 9 no.2:24-25 '64. (MIRA 17:6)

1. Glavnyy agronom Khabarovskoy stantsii zashchity rasteniy (for Yesipenko).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.V.

The most widespread moth species, pests of agricultural plants in Sakhalin. Soob. Sakhal. fil. AN SSSR no.1:31-33 '54.
(Sakhalin--Moths) (Agricultural pests) (MLRA 10:6)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.V.

Biology of click beetles (wireworms) in Sakhalin. Soob. Sakhal. fil. AN SSSR no.1:34-37 '54. (MLRA 10:6)
(Sakhalin--Wireworm)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.V.

Soybean leaf beetle Luperodes menetriesi Fald. as a pest of Sakhalin agricultural crops. Zool.zhur. 34 no.4:806-809 Jl-Ag '55. (MLRA 8:9)

1. Sakhalinskiy filial Akademii nauk SSSR
(Sakhalin--Leaf beetles) (Soybean--Diseases and pests)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

USSR / General and Special Zoology. Insects. P

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11732

Author : Gusev G. V.
Inst : Not given
Title : Seasonal Variations in the Nutrition of the 28-Spotted Potato Beetle.

Orig Pub: Vopr. selsk. i lesn. kh-va Daln. Vostoka, 1956, vyp. 1, 81-94.

Abstract: The 28-spotted potato beetle Epilachna vigintoctomaculata, a pest of potato and gourd families in the Far East, concentrates in the spring and fall periods mostly on gourd cultures and tomatoes. During these periods the increase in the fat of their bodies usually takes place. In July and August the beetles pass over to potatoes. Concentration on potatoes coincides with the period of

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

USSR / General and Special Zoology. Insects. P

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11732

Abstract: increased development of the generative organs and thus provides the most favorable conditions for the development of the larvae. Gourd cultures and tomatoes should be treated with DDT and other insecticides in the second 10 days of June and the first 10 days of September. Potatoes should be treated only from the first 10 days of July to the end of August.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.V.; ZHURAVLEV, V.N.

Biological characteristics of the Colorado beetle. Zashch. rast. ot vred. i bol. 3 no.3:46-47 My-Je '58. (MIRA 11:6)
(Potato beetle)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.V., kand. biolog. nauk; LASHUK, L.I., nauchnyy sotrudnik

Invasion of the Colorado beetle in southeastern Europe. Zashch. rast. ot vred. i bol. 4 no.2:42-43 Mr-Ap '59. (MIRA 16:5)

(Europe, Eastern--Potato beetle)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, G.V.

Insect pests of field and vegetable crops in Sakhalin. Zool.zhur. 38 no.5:702-712 My '59. (MIRA 12:7)

1. Central Quarantine Laboratory, Moscow.
(Sakhalin--Insects, Injurious and beneficial)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

S/058/62/000/005/115/119
A061/A101

9.4110

AUTHOR: Gusev, G. V.

TITLE: The determination of the function of heat intensity in pulsed discharges

PERIODICAL: Referativnyy zhurnal, Fizika, no. 5, 1962, 56 - 57, abstract 5Zh384 ("Nauchn. zap. Luganskogo s.-kh. in-ta", 1960 (1961), v. 7, 211 - 214)

TEXT: The thermal effect of pulsed discharges on electrodes can be calculated only when the specific heat flow q(t) (heat intensity) is known throughout the heated spot. So far, not even the approximate form of the function expressing the specific heat flow on electrodes under pulsed discharge is known. An approximate way of determining this function from experimental data is suggested. If the distribution of thermal power over the heated spot and the distribution of electric power over the cross section of the discharge channel are expressed by one and the same function, and if the electric power distribution over the channel cross section is uniform, then $q(t) = B/\pi R^2(t) \cdot dE(t)/dt$, where

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

S/058/62/000/005/115/119
A061/A101

The determination of...

this the time from the beginning of discharge, E(t) is the electric power fed to the discharge channel up to the moment t, R(t) is the radius of the discharge channel in the moment t, and B is a coefficient indicating the portion of the total electric power fed to the channel, which is transmitted to the electrode as thermal energy. The R(E) function can be found by utilizing a formula of S. I. Drabkina (Zh. eksperim. i teor. fiz., 1951, v. 21, 474). The E(t) function can be calculated from current and voltage oscillograms taken simultaneously. There are 10 references.

O. Ol'khov

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

RYBALKO, F.P.; ZELENIN, L.P.; GUSEV, G.V.; SHEVCHENKO, R.I.

Dependence of the nonrecovery of plastic deformation on the degree of the macroscopic inhomogeneity of its distribution. Izv. vys. ucheb. zav.; fiz. 8 no.6:125-129 '65. (MIRA 19:1)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo. Submitted September 26, 1963.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

PSURTSEV, N.; KUZ'MIN, V.; DOGADIN, V.; FORTUSHENKO, A., prof.; GUSEV, I.; BLOKHIN, A., kand. tekhn. nauk

Wealth of the millions. Radio no.8:4-6 Ag '64. (MIRA 17:11)

1. Ministr svyazi SSSR (for Psurtsev). 2. Nachal'nik Tekhnicheskogo upravleniya Ministerstva svyazi SSSR (for Kuz'min). 3. Zamestitel' nachal'nika Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi i radiofikatsii (for Dogadin). 4. Glavnyy inzh. Glavnogo upravleniya gorodskoy i sel'skoy svyazi i radiofikatsii (for Gusev).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

SLADKEVICH, A. (Pustoshka, Pskovskaya obl.); ARTYUKHOV, P.; MATSAS, A., personal'nyy pensioner (Kislovodsk); GUSEV, I.

Readers report, advise, suggest. Zhil.-kom. khoz. 11 no.11: 30-31 N '61. (MIRA 16:7)

1. Starshiy sadovnik Darnitskogo rayonnogo zhilishchnogo upravleniya g. Kiyeva (for Artyukhov). 2. Glavnyy inzh. sluzhby dvizheniya L'vovskogo tramvayno-trolleybusnogo upravleniya (for Gusev).
(Municipal services)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

PSURTSEV, N.; KUZ'MIN, V.; DOGADIN, V.; FOMUSHENKO, A., prof.; GUSEV, I.; BLOKHIN, A., kand. tekhn. nauk

It was accomplished by millions. Radio no.8:4-6 Ag '65. (MIRA 18:7)

1. Ministr svyazi SSSR (for Psurtsev). 2. Nachal'nik Tekhnicheskogo upravleniya Ministerstva svyazi SSSR (for Kuz'min). 3. Zamestitel' nachal'nika Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi i radiofikatsii (for Dogadin). 4. Glavnyy inzh. Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi radiofikatsii (for Gusev).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

G [illegible], [illegible] A.

A Case of Recovery From Acute Liver Dystrophy.

VOYENNO-MEDITSINSKIY ZHURNAL (MILITARY MEDICAL JOURNAL), No 3, 1955. p. 79

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

DOTSENKO, Ya.N., kand.med.nauk; GUSEV, I.A.

Lambliasis of the gall bladder and the biliary tract. Voen.-med. zhur. no. 2:80 F '61. (MIRA 14:2)
(BILIARY TRACT—DISEASES) (GIARDIASIS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.A., kand.med.nauk

Characteristics of eye burns by chloracetophenone. Med. zhur. Uzb. no.7:62 Jl '61. (MIRA 15:1)
(EYE—WOUNDS AND INJURIES) (CHLORACETIC ACID)
(BURNS AND SCALDS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.A., kand.med.nauk

Fifteen years of experience in tissue therapy in ophthalmological practice. Med. zhur. Uzb. no.9:59-60 S '61. (MIRA 15:2)
(TISSUE EXTRACTS) (EYE DISEASES)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

AUTHOR: GUSEV,I.A., LILOVA,O.M., MURIN,A.N., PREOBRAZHENSKIY,B.K., YAKOVLEV,V.A.

56-6-50/56

TITLE: The Gadolinium Isotope with the Mass Number 146. (Ob izotope gadoliniya s massovym chislom 146, Russian)

PERIODICAL: Zhurnal Eksperim. i Teoret.Fiziki, 1957, Vol 32, Nr 6, p 1585 (U.S.S.R.)

ABSTRACT: On the occasion of the irradiation of tantalum with 660-MeV protons new gadolinium isotopes are produced, which have hitherto not been mentioned in publications. On the occasion of the decay of these isotopes known europium isotopes are in some cases produced, with the aid of which the mass number of the mother substances, i.e. of the new gadolinium isotopes can be determined. In the europium fractions obtained from pure fractions of gadolinium (they were obtained 32 hours after irradiation ended) a radioactive isotope can be observed which decays with a period of 1,6 days. According to tables published this is Eu^{146}. The modification of the activity of this isotope from the time of its separation from the gadolinium fraction onwards makes it possible to estimate the period of the mother substance Gd^{146} at 12 ± 4 hours. It must further be noted that the mass

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The Gadolinium Isotope with the Mass Number 146. 56-6-50/56

number of the gadolinium was determined with the same degree of accuracy as in the case of the europium isotope, which was produced as a "daughter substance".
According to SEABORG'S tables this europium isotope belongs to the class C (the mass number is reliable or probable).

ASSOCIATION: Radium Institute of the Academy of Science of the U.S.S.R.
PRESENTED BY:
SUBMITTED: 21.3.1957
AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.A., kand.med.nauk (Tashkent)

Favorable outcome of a serious injury of the orbit. Vest.oft. 72 no.4:47-49 Jl-Ag '59. (MIRA 13:4)
(ORBIT wds. & inj.)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I. A., and KUDRYASHOV, L. I.

"Influence of Velocity Instability of an Infinite Flow on Heat Transfer Coefficient at the Flowing of Bodies."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.A.

Data for studying the Laurence-Biedl disease. Zhur. nevr. i psikh. 64 no.7:1040-1042 '64. (MIRA 17:12)

1. Uzbekskaya respublikanskaya psikhiatricheskaya bol'nitsa No.1 (glavnyy vrach O.A. Murtalibov, nauchnyy rukovoditel' - prof. F.F. Detengof), Tashkent.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

S/196/62/000/010/014/035
E073/E155

AUTHORS: Kudryashev, L.I., and Gusev, I.A.

TITLE: Influence of the high-speed non-steady state unlimited flow and a jet of finite dimensions on the resistance coefficient and the heat exchange in flow past bodies

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1962, 2, abstract 10 G8. (Tr. Kuybyshevsk. aviats. in-t, no.12, 1961, 113-117)

TEXT: The principal difference between a non-steady state stream and an unlimited flow past bodies is explained. An attempt is made to apply the hydrodynamic theory of heat exchange to the cases of an unlimited flow and streams under non-steady state conditions past bodies. If proposed experimental investigations are successful, the obtained theoretical assumptions could be applied for determining the heat-transfer coefficient and the resistance under non-steady state flow conditions.
3 references.
[Abstractor's note: Complete translation.]

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

39790

S/147/62/000/002/018/020
E194/E435

26.5700

AUTHORS: Kudryashev, L.I., Gusev, I.A.

TITLE: The influence on the heat transfer coefficient of velocity pulsations of an unbounded flow over a body

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya tekhnika, no.2, 1962, 152-158

TEXT: When flow over a body is pulsating, heat transfer depends on the relationship between the period of pulsation and the time required to form a boundary layer. It is calculated that with a sphere 71 mm diameter in a flow of 9 to 17.6 m/sec, the longest time for the boundary layer to form is 1.55 m sec, which is much less than the least pulsation period used, namely 59 m sec. Under these conditions expressions can be derived which are in effect the ordinary boundary layer equations into which are substituted the corresponding values of velocity, pressure, temperature and density. By taking time averaged values the resistance and heat transfer problems in pulsating flow are formulated in a system of equations. The additional terms that

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correspond to pulsation indicate that, depending upon the conditions, pulsation may either increase or decrease heat transfer. The integral relationship method was applied to the case of a turbulent boundary layer to obtain the following functional relationship

$$\bar{\mathrm{Nu}} = C\mathrm{Re}_{\infty}^{n_1}\mathrm{Pr}^{n_2} f \cdot (\mathrm{Ho}_{\infty}). \tag{20}$$

where n_1 and n_2 are respectively the exponents of the Re and Pr numbers in the following expression

$$\mathrm{Nu} = C\bar{\mathrm{Re}}^{\frac{(1-n)(1+3n)+4n^2}{(1+n)(1+3n)}} \cdot \mathrm{Pr}^{\frac{2n}{1+3n}}, \tag{12}$$

$$C = \frac{\int_0^{\pi} F(\vartheta)\sin\vartheta d\vartheta}{\int_0^{\pi}\sin\vartheta d\vartheta}. \tag{13}$$

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$$F(0) = C \frac{\left(\frac{\overline{w}}{w_\infty}\right)^{\frac{1-n}{1+n}}}{f^{\frac{2n}{n}}}, \qquad (14)$$

where $\overline{w}$ - the velocity at the outer edge of the boundary layer with flow over a sphere, w_∞ - the velocity with steady incident flow and ζ - a coefficient, equals 0.0225. Coefficient C and also n_1, n_2 and $f_1(Ho_\infty)$ should be determined by experiment. Wind tunnel tests undertaken for this purpose are described. The test results are satisfactorily represented by the following expression

$$\frac{Nu}{Nu_0} = 6{,}24\left(\frac{Ho}{Re}\right)^{1/8}. \qquad (24)$$

where Nu - Nusselt's criteria for heat transfer in a pulsating flow; Nu_0 - applies to a steady flow. Eq.(24) may also be written in the following form

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$$Nu = 3.68\ Re^{0.405}\ Ho^{0.125} \qquad (25)$$

Analysis of the test results indicates that flow pulsation considerably increases heat transfer when the value of Re is less than 22000 when the ratio Nu/Nu_o lies in the range 1.2 to 1.43. At Re above 22000, flow pulsation has practically no influence; if Re $>$ 32000, pulsations may even reduce heat transfer. There are 4 figures.

ASSOCIATION: Kuybyshevskiy aviatsionnyy institut Kafedra aerogidrodinamiki (The Kuybyshev Aviation Institute, Department of Aerohydrodynamics)

SUBMITTED: April 20, 1961

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

ACCESSION NR: AP4028453 S/0181/64/006/004/1208/1212

AUTHORS: Gusev, I. A.; Murin, A. N.

TITLE: Diffusion of zinc in indium antimonide

SOURCE: Fizika tverdogo tela, v. 6, no. 4, 1964, 1208-1212

TOPIC TAGS: solid diffusion, zinc, indium antimonide, semiconductor, dislocation

ABSTRACT: The diffusion of Zn^{65} in single crystals of n-type InSb was studied in the interval 400-500C. Two groups of samples were investigated, having different numbers of dislocations along the axis of growth [111]: one group had $4.6 \cdot 10^5$ cm^{-2} dislocations and a resistivity of 0.04 ohm cm, the other $6.3 \cdot 10^3$ cm^{-2} dislocations and a resistivity of 0.07 ohm cm. Below 450C, when annealing was prolonged, the diffusion coefficient was found to conform to the formula $D = 6.32 \cdot 10^8 \exp\left\{-\frac{2.61}{kT} + 2.47\left(\frac{c}{c_0} - 1\right)\right\}$. The solubility of zinc in the investigated temperature interval was found to reach a maximum at 445C, where it has a value of $3.5 \cdot 10^{21}$ cm^{-3}. Variations in the number of dislocations did not affect the coefficient of diffusion.

"The authors sincerely thank their co-workers at the Institut poluprovodnikov AN

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

ACCESSION NR: AP4028453

SSSR (Institute of Semiconductors AN SSSR), B. I. Boltaks and A. I. Zaslavskiy, for their valuable remarks and their aid in the work." Orig. art. has: 6 figures, 1 table, and 1 formula.

ASSOCIATION: none

SUBMITTED: 29Jul63 ENCL: 00

SUB CODE: EC, SS NO REF SOV: 000 OTHER: 007

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.A.; MOLKANOV, L.I.; MURIN, A.N.

Diffusion of certain rare-earth elements in germanium.
Fiz. tver. tela 6 no. 4:1256-1257 Ap '64. (MIRA 17:6)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

S/0181/64/006/005/1563/1563

ACCESSION NR. AP4034952

AUTHOR: Gusev, I. A.; Murin, A. N.

TITLE: Diffusion of mercury in indium antimonide

SOURCE: Fizika tverdogo tela, v. 6, no. 5, 1964, 1563

TOPIC TAGS: indium antimonide, n type indium antimonide, single crystal, mercury, tagged mercury, mercury diffusion, diffusion coefficient

ABSTRACT: The diffusion of tagged mercury from the vapor phase into InSb has been studied with n-InSb single-crystal specimens at 425—500C. Experiments were conducted in evacuated ampuls for 4—12 days with specimens in the form of plane-parallel plates (0.8 x 1.2 x 0.25 cm) with strictly parallel faces, cut from the crystals in the direction perpendicular to [111], and etched with the Sr-4A etchant. The diffusion annealing was followed by removal from the side faces of a layer about 100μ thick. The diffusion was studied by removing InSb layers with very fine KZM-14 abrasive paper

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ACCESSION NR. AP4034952

and measuring their activity on a scintillation counter. The dependence of the diffusion coefficient of mercury in InSb on temperature was described by the formula

$$D = 4 \times 10^{-6} \exp\left(-\frac{1.17}{kT}\right) \text{ cm}^2/\text{sec.}$$

Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: none

SUBMITTED: 09Jan64 DATE ACQ: 20May64 ENCL: 00

SUB CODE: CH NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

ACCESSION NR: AP4039686 S/0181/64/006/006/1895/1896

AUTHOR: Gusev, I. A.; Murin, A. N.; Seregin, P. P.

TITLE: Diffusion of cadmium into indium antimonide

SOURCE: Fizika tverdogo tela, v. 6, no. 6, 1964, 1895-1896

TOPIC TAGS: cadmium, indium antimonide, tagged cadmium, InSb single crystal, Cd diffusion, Cd diffusion coefficient

ABSTRACT: The diffusion of cadmium into InSb has been studied for Cd^{115m} and plane-parallel InSb specimens (0.9 x 1.2 x 0.25 cm) cut from a single crystal oriented in the [111] direction. Specimen parameters are given. The specimens were etched in a 50% SR-4A etchant solution and annealed in the presence of Cd^{115m} in evacuated ampoules for 48 hr. The diffusion coefficient was determined from the activity of thin specimen layers removed with KZM-14 abrasive paper. The activity was measured with the MST-15 counter. The distribution of Cd in InSb according to

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ACCESSION NR: AP4039686

annealing temperature is shown in Fig. 1 of the Enclosure. The dependence of the diffusion coefficient on temperature was described by

$$D = 1.26 \exp\left(-\frac{1.75}{kT}\right).$$

The activation energy was 1.75 ev. Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: none

SUBMITTED: 10Nov63 DATE ACQ: 19Jun64 ENCL: 01

SUB CODE: PH NO REF SOV: 002 OTHER: 001

Card 2/3

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

ENCLOSURE: 01

ACCESSION NR: AP4039686

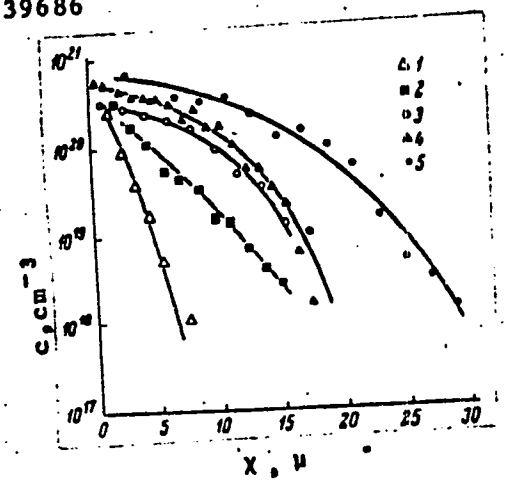

Fig. 1. Penetration curves of Cd^{115m} into InSb single crystals T, °K: 1 - 673, 2 - 698, 3 - 723, 4 - 748, 5 - 773; t = 48 hr.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.A.; MURIN, A.N.

Cobalt diffusion in indium antimonide. Fiz. tver. tela 6 no.9: 2859 S '64. (MIRA 17:11)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 8817-65 EWT(m)/EWP(q)/EWP(b) Pad IJP(c)/HAEM(a)/AFWL/SSD/ESD(gs)/ESD(t) JD/HW

ACCESSION NR: AP4044968 S/0181/64/006/009/2859/2859

AUTHOR: Gusev, I. A; Murin, A. N.

TITLE: Cobalt diffusion in indium antimonide

SOURCE: Fizika tverdogo tela, v. 6, no. 9, 1964, 2859

TOPIC TAGS: indium antimonide, cobalt, cobalt diffusion, cobalt 60

ABSTRACT: Diffusion of radioactive cobalt, Co^{60}, in n-type indium antimonide was investigated in the 425 — 500C range. Plate-shaped InSb specimens were cut perpendicular to the [111] direction from a single crystal. Co^{60} was electrolytically applied to the etched surface of the specimens, and diffusion was carried out and studied by methods described earlier (I. A. Gusev, A. N. Murin, FTT, 6, 1208, 1964). The results suggest that diffusion proceeded from a constant [concentration] source. The temperature dependence of the diffusion coefficient (D) fitted the equation

$$D = 2.7 \cdot 10^{-11} \exp\left(-\frac{0.39}{kT}\right) cm^2/sec.$$

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 8837-65

ACCESSION NR: AP4044968

Co solubility in InSb was approximately $2 \times 10^{19} cm^{-3}$ in the 425-500C range. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 15Apr64 ATD PRESS: 3107 ENCL: 00

SUB CODE: SS, MP NO REF SOV: 001 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 52777-65 EWT(1)/EWT(m)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c) IJP(c)

ACCESSION NR: AP5010752 UR/0181/65/007/004/1254/1256

AUTHOR: Belozerskiy, G. N.; Gusev, I. A.; Murin, A. N.; Nemilov, Yu. A. 41 40 B

TITLE: Mossbauer effect in indium antimonide

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1254-1256

TOPIC TAGS: Mossbauer effect, indium antimonide, iron impurity, absorption spectrum, iron valence

ABSTRACT: The purpose of the investigation was to study the Mossbauer effect and to investigate the states of impurity atoms of iron in indium antimonide. The attempt was made to observe the absorption spectrum in spite of the fact that the amount of iron that can be introduced in InSb samples of ordinary dimensions is at the limit of sensitivity of the Mossbauer method. The procedure of preparing the sample was described elsewhere (FTT v. 6, 2859, 1964). The source was Co^{57}, thoroughly purified, introduced into the lattice of indium antimonide. The Mossbauer apparatus consisted of a motor with reduction gear producing a uniform reciprocating motion of the absorber (stainless steel Kh23N18T) relative to the source. The detector was a proportional counter. The effect obtained at room temperature

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L 52777-65

ACCESSION NR: AP5010752

was approximately 31%, which was much higher than observed in the same geometry and with the same absorber with sources of stainless steel, chromium, and tungsten. The chemical shift, 0.4 mm/sec, is characteristic of iron in trivalent state. It is pointed out that the Mossbauer spectrum of indium antimonide differs from that of indium arsenide, in spite of the fact that both have the same crystal structure. The temperature dependence of the Mossbauer effect and of the chemical shift was also investigated. Both the effect and the chemical shift increased with decrease in temperature (~20% on going from room temperature to that of liquid nitrogen) and decreased by the same amount on going to 200C. An abrupt change in the Mossbauer spectrum takes place when the sample is heated to 400C, due to the change in the stoichiometric composition of the sample. It is concluded on the basis of the data that iron in indium antimonide has a configuration $3d^5$ and is trivalent. The rather weak dependence of the effect on the temperature indicates that the iron atoms vibrate in the optical modes. A study of the dynamic dependence of the Mossbauer effect on the stoichiometry of the crystal is now under way. "The authors thank S. B. Tomilov for help in preparing the sources." Orig. art. has: 1 figure and 1 table.

ASSOCIATION: None

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 52777-65

ACCESSION NR: AP5010752

SUBMITTED: 17Nov64 ENCL: 00 SUB CODE: SS, IE

NR REF SOV: 003 OTHER: 005

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

L 04801-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) GG/GD

ACC NR: AP6024475 SOURCE CODE: UR/0181/66/008/007/2112/2116

61
59
B

AUTHOR: Belozerskiy, G. N.; Gusev, I. A.; Nemilov, Yu. A.; Shvedchikov, E. V.

ORG: none

TITLE: Investigation of the behavior of impurity atoms in the diatomic InSb and GaSb crystal lattices

SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2112-2116

TOPIC TAGS: indium compound, gallium compound, antimonide, crystal impurity, gamma spectroscopy, line shift, line width, Mossbauer spectrum

ABSTRACT: The authors introduced Fe^{57} in single-crystal InSb and GaSb and investigated the behavior of the Fe^{57} atoms in these crystals with the aid of nuclear gamma resonance, making use of data of earlier measurements (FTT v. 8, 604, 1966 and v. 7, 3607, 1965). The quantities measured were the absolute values of $f = \exp[-2W(T)]$, where $W(T)$ is the Debye-Waller factor, the chemical shifts, and the line widths at different temperatures. The measurements of f were by comparing the areas under the obtained Mossbauer spectra. The results show that for Fe^{57} in the InSb lattice the interaction forces are harmonic in the entire temperature range. The observed values of f for Fe^{57} in InSb were so large, that they could not be explained even under the assumption that the Fe^{57} oscillate only in the optical branches. It is therefore proposed that the Fe^{57} atoms oscillate at discrete frequencies lying above the optical branches of the ideal lattice. It is shown that, accurate to 6%, the Mossbauer effect for Fe^{57}

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L 04801-67

ACC NR: AP6024475

2

in the InSb spectrum has no anisotropy. The Mossbauer spectrum of GaAs was found to be very similar to that of InSb. Possible applications of the results for further study are discussed. The authors thank Yu. M. Kagan and Ye. Broverman for valuable discussions. Orig. art. has: 1 figure, 2 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 15Dec65/ ORIG REF: 008/ OTH REF: 006

Card 2/2 gd

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

ACC NR: AT7001816 (N) SOURCE CODE: UR/2778/66/000/015/0107/0120

AUTHOR: Gulyayev, A. A.; Gusev, I. D.

ORG: none

TITLE: Hydraulic and hydropneumatic dampers for a depth gauge with an elastic sensor

SOURCE: Leningrad. Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 15, 1966, 107-120

TOPIC TAGS: oceanography, ocean dynamics, oceanographic instrument, pressure gage, manometer

ABSTRACT: Design and construction of hydraulic and hydropneumatic dampers for depth gauges with elastic sensors is described and theoretical calculations and analysis of their properties are given. The dampers serve to eliminate or reduce the effects of wind waves and other short period variations in sea level, correcting the dynamic properties of the apparatus. Operation of the dampers is described in Figures 1 and 2: the outer pressure p_0 on the sensor equals atmospheric pressure at the instant of immersion; p (or p_m) is the pressure on the interior of the manometer (Bourdon) tube 1 caused by direct contact (or by contact through the separating system 6) with the sea at a given depth. For the hydraulic damper a variable capacity comprising vessel 2, bellows 3 with spring 4, calibrated jet 5, and separating system 6 is connected

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parallel with the manometric tube. These are filled with a viscous liquid. In the absence of pressure variation, p (p_m) and pressure p_x in the tube are equal, so movement x of the end of the tube is proportional to the measured pressure p. In case of variations in pressure p, variations in pressure p_x and movement x level out—p_x equates with p by flow of a certain volume of the liquid through 5. The degree of damping depends on the frequency with which the measured pressure varies and the parameters of the damper. In the hydropneumatic pressure damper (Fig. 2) the variable capacity elastic element 1 contains a volume of air over the effective liquid, and the manometric tube is filled with air. Calculations are given showing relative parameters in these devices required to give the necessary degree of damping at a given pressure variation frequency. Liquid PMS-1500 (polymethylsiloxane) was found to have the required flow characteristics of a damping fluid. An arrangement is shown for filling the hydraulic damper with the viscous liquid. Simulated tests showed variations in sea level can be reduced by these dampers: hydraulic damping units with a metallic elastic element are preferred in devices to be used at different depths in the presence of a wide range of variations in level; the hydropneumatic elastic element with a relatively large damping chamber gives maximum damping of swells for small (< 0.5 wave length) swells.

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Figure 1. General scheme of the hydraulic damper.

Figure 2. General scheme of the hydropneumatic damper.

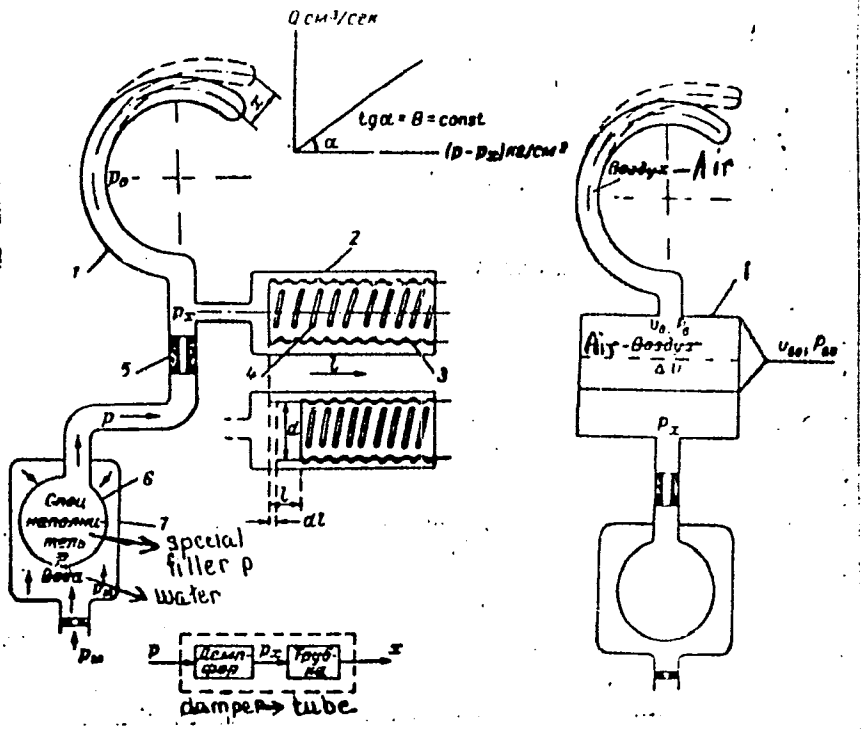

Figure 1.

Figure 2.

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ACC NR: AT7001816

Orig. art. has: 3 tables, 7 figures and 25 equations.

SUB CODE: 08, 17/ SUBM DATE: none/ ORIG REF: 003

Card 4/4

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

ZHEGALIN, I.K.; PUSTYGIN, A.A., glav. agronom; SPODENYUK, N.I.; BYKOV, N.I.; REDIN, P.N., glav. agronom; LOGVIN, N.P., Geroy Sotsialisticheskogo Truda; GUSEV, I.D.; PETROV, S.N.; VLASOV, A.N., glav. zootekhnik; SHEREMET, L.D., glav. bukhgalter; SKAKUNOV, N.V., glav. inzh.; SHUMILIN, V.S., glav. inzh.; CHERNORUBASHKIN, N.A., kombayner; DRYABO, N.Ye.; ZABNEV, V.F., redaktor; SHIROKOV, B.G.; SHEPELEV, M.A.; LEONOVA, T.S.; SAYTANIDI, L.D., tekhn. red.

[Hundred million poods of grain from Stalingrad Province] 100 millionov pudov stalingradskogo khleba. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 133 p. (MIRA 14:9)

1. Pervyy sekretar' Stalingradskogo oblastnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Zhegalin). 2. Oblastnoye upravleniye sel'skogo khozyaystva Stalingradskoy oblasti (for Pustygin). 3. Nekhayevskiy rayonnyy komitet Kommunisticheskoy partii Sovetskogo Soyuza (for Spodenyuk). 4. Nachal'nik Kotel'nikovskoy rayonnoy sel'skokhozyaystvennoy inspektsii, Krayniy Yugo-vostok(for Bykov). 5. Kolkhoz "Deminskiy" Novo-Annenskogo rayona, Stalingradskoy oblasti (for Redin). 6. Predsedatel' kolkhoza "Zavety Il'icha" Kalininskogo rayona (for Logvin). 7. Nachal'nik Novo-Annenskoy rayonnoy sel'skokhozyaystvennoy inspektsii (for Gusev). 8. Direktor sovkhoza imeni Frunze Serafimovichskogo rayona Stalingradskoy oblasti (for Petrov). 9. Stalingradskoye oblastnoye upravleniye sel'skogo khozyaystva (for Vlasov). 10. Sovkhoz "Dinamo" Nekhayevskogo rayona Stalingradskoy oblasti (for Sheremet).

(Continued on next card)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

ZHEGALIN,I.K.— (continued) Card 2.

11. Oblastnoye upravleniye sel'skogo khozyaystva Stalingradskoy oblasti (for Skakunov). 12. Sovkhoz "Verkhne-Buzinovskiy" Stalingradskoy oblasti (for Shumilin). 13. Otdeleniye No.6 sovkhoza "Serebryakovskiy" Mikhaylovskogo rayona Stalingradskoy oblasti (for Chernorubashkin). 14. Zven'yevoy kolkhoza imeni Lenina Zhirnovskogo rayona Stalingradskoy oblasti (for Dryabo). 15. Danilovskaya rayonnaya gazeta "Kolkhoznoye znamya" Stalingradskoy oblasti (for Zabnev). 16. Zamestitel' predsedatelya oblastnogo ispolnitel'nogo komiteta Stalingradskoy oblasti (for Shirokov).

(Volgagrad Province—Grain)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.D.

Reorganization of a dinas brick manufacturing plant. Ogneupory 28 no.7:301-303 '63. (MIRA 16:9)

1. Krasnogorovskiy ogneupornyy zavod im. Lenina.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

25(1,7) PHASE I BOOK EXPLOITATION SOV/3127

Gusev, Ignat Fedorovich, Planer (Srednevolzhskiy Machine-building Plant)
Stroganiye metallov silovym metodom (Coarse-feed Metal Planing)
[Kuybyshev] Kuybyshevskoye knizhnoye izd-vo, 1954. 29 p. (Series: Opyt peredovikov proizvodstva) 3,000 copies printed.

Ed: P. Kulikov; Tech. Ed.: N. Spiridonov.

PURPOSE: This booklet is intended to acquaint the reader with the coarse-feed method of metal planing.

COVERAGE: The book deals with high-speed planing operations at the Srednevolzhskiy stankostroitel'nyy zavod (Srednevolzhskiy Machine Tool Plant). Among the topics discussed are economy and speed of operation, cooperation of plant personnel, the fundamentals of the coarse-feed process, and single-point planing tools. No personalities are mentioned. There are no references.

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Process of Planing and the Coarse-feed Method 13

Universal Gang Tool 17

Coarse-feed Finish Planing 23

Planing Tools 25

The New Method is Introduced 28

AVAILABLE: Library of Congress (TJ1205.G85)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I. G.

"Mechanical therapy for treatment of chronic arthritis in horses," Nauch.-prakt. raboty voyenvet. sluzhby, Moscow, 1948, 1. 1948, 1. 19-20

SO-U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

TARAKANOV, O.G.; GUSEV, I.G.

Using thermistors in determining molecular weights. Plast.massy no.11:47-48 '61. (MIRA 14:10)

(Molecular weights—Measurement)
(Transistor circuits)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.I., red.; NEGRIMOVSKAYA, R., tekhn. red.

[Some problems in the automatic control of lathes]Nekotorye voprosy avtomaticheskogo upravleniia tokarnymi stankami. Pod red. I.T.Guseva. Moskva, M-vo vysshego i srednego spetsial'nogo obrazovaniia RSFSR, 1961. 26 p. (MIRA 15:8)

1. Moscow. Inzhenerno-fizicheskiy institut.
(Lathes—Numerical control)

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ACCESSION NR: AR5006717 S/0282/65/000/001/0033/0033

33
B

SOURCE: Ref. zh. Khimicheskoye i kholodil'noye mashinostroyeniye. Otd. vyp., Abs. 1.47.175

AUTHOR: Merkulov, A. P.; Gusev, I. I.

TITLE: Industrial low-temperature cooling equipment

CITED SOURCE: Tr. Konferentsii po perspektivam razbitiya i vnedreniya kholodil'n. tekhn. v nar. kh-vo SSSR, 1962. M. Gostorgizdat. 1963, 241-245.

TOPIC TAGS: industrial refrigeration, nitrogen chamber, choke coil cooler

TRANSLATION: The article describes briefly and presents the technical specifications of a nitrogen cooling chamber and a choke coil cooler. Temperatures of 0 to -160C can be attained in the former, while the latter is capable of cooling air down to -180C. Four illustrations.

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Card 1/1

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.I.

Observations of occultations at the Stalinabad Astronomical Observatory of the Academy of Sciences of the Tajik S.S.R. Astron.Tsir. no.164:22-23 O '55. (MLRA 9:5)

1. Stalinabadskaya astronomicheskaya observatoriya AN Tadzhikskoy SSR.
(Occultations)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.I.

Observations of occultations. Astron.tsirk. no.169:22 '56.
(MLRA 9:10)

1.Stalinabadskaya astronomicheskaya observatoriya Akademii nauk Tadzhikskoy SSR.
(Occultations)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.I.

BAKHAREV, A.M.; GUSEV, I.I.

Observations of the partial lunar eclipse of May 24, 1956, at Stalinabad. Astron.tsirk. no.171:11-12 Jl '56. (MLRA 9:12)

1. Stalinabadskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskoye obshchestvo.
(Eclipses, Lunar--1956)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.I.

Observing lunar occultations of stars at Stalinabad in March-June, 1956. Astron.tsirk. no.171:28-29 Jl '56. (MLRA 9:12)

1. Stalinabadskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.
(Occultations)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

BAKHAREV, A.M.; GUSEV, I.I.

Observations of the total lunar eclipse of May 13, 1957, in Stalinabad. Astron. tsir. no.181:11-13 Je '57. (MIRA 13:3)

1.Stalinabadskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (VAGO).

(Eclipses, Lunar--1957)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

BAKHAREV, A.; GUSEV, I.

Lunar occultation and clearing of Saturn observed in Stalinabad on September 28, 1957. Astron. tsir. no.187:23 D '57. (MIRA 11:6)

1. Stalinabadskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.

(Saturn (Planet)) (Occultations)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.I.

Observing the rotation of Venus. BiulVAGO no.23:51-54 '58.
(MIRA 11:11)

1. Stalinabadskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.

(Venus (Planet))

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

SOV/35-59-8-6194

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 8, p 15

AUTHOR: Gusev, I.I.

TITLE: The Observation of the Occultation of Venus by the Moon on July 14, 1958, in Stalinabad

PERIODICAL: Astron. tsirkulyar, 1958, August 26, Nr 194, p 7

ABSTRACT: The occultation of Venus by the Moon and reappearance were observed in Stalinabad with an 80-cm Zeiss apochromat (120X). The moment of the first contact took place at $0^h41^m33.8^s$ universal time, the reappearance at $1^h22^m40^s.6$. At the moment of the first contact it seemed as if Venus' disk was pressed into the Moon's edge. At the moment of the reappearance Venus appeared instantly from behind the dark edge of the Moon.

N.B.P.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.M., elektromekhanik

Sleeve for plugs. Avtom., telem.i sviaz' 4 no.6:33 Je '60. (MIRA 13:7)

1. Bugul'minskaya distantsiya signalizatsii i svyazi Kuybyshevskoy dorogi.
(Railroads--Electric equipment)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.M.

Improvement of the quality of equipment in municipal step-by-step telephone exchanges. Vest. sviazi 24 no.4:28-29 Ap '64. (MIRA 17:9)

1. Glavnyy inzh. Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi i radiofikatsii Ministerstva svyazi SSSR.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, Leonid Mikhaylovich, kand. tekhn. nauk

[Controlling slipperiness in city streets] Bor'ba s skol'zkost'iu gorodskikh dorog. Izd.3., perer. i dop. Moskva, Stroiizdat, 1964. 99 p. (MIRA 18:3)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

TSURICHENKO, M.Ye.; GUSEV, I.N.; RUMYANTSEVA, Z.P., inzhener, retsenzent; SHPIGEL', A.M., inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor.

[Routing system in production calculation and work and time planning; from the practice of a machine-tool construction plant] Marshrutnaia sistema ucheta proizvodstva i operativno-kalendarnoe planirovanie; iz opyta zavodov stankostroeniia. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1954. 111 p. (MLRA 8:5)
(Machine-tool industry)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.N.

BOGOVTSEV, S.Ye.; GUSEV, I.N., redaktor; STUDENETSKAYA, V.A., tekhnicheskiy redaktor

[Analysis of the balance sheet and financial indices of the machinery manufacturing plant] Analiz balansa i finansovykh pokazatelei mashinostroitel'nogo zavoda. Moskva, TSentr.biuro tekhn.informatsii, 1957. 64 p. (MLRA 10:9)

1. Russia (1923- U.S.S.R.) Ministerstvo stankostroitel'noy i instrumental'noy promyshlennosti
(Machinery industry--Accounting)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I. [illegible]

Source: [illegible]

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

PROSKURIN, V.V.; GUSEV, I.P.

Readers' response to K.F.Sapitskii's and L.V.Zemlianskii's article "Effect of the length of a cutter-loader mined seam on labor productivity in the extraction of certain sloping seams less than 0.8 m. thick; Ugol'" no.7 1955. Ugol' 31 no.1: 41 Ja '56. (MLRA 9:4)

1.Tomskiy politekhnicheskiy institut.
(Coal mines and mining)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530006-3

GUSEV, I.P.

Determining the best face length for the use of "Donbass" cutter-loaders for integrated work organization in "Leninugol'" Trust mines. Izv.TPI 93:17-24 '58. (MIRA 13:5)

(Kuznetsk Basin--Coal mines and mining)

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