"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3



function of the backing plate temperature. It was found that, depending on the backing plate temperature, two precipitation zones were formed on the plate. In zone I, at a temperature below $T_{c1}$ (the critical temperature characteristic of the boundary between zones I and II) condensation proceeds by direct crystallization from vapor. In zone II, when the temperature is $> T_{c1}$, but $\leqslant T_{c2}$, (second critical temperature, separating zone II from the pure plate) condensation proceeds through the liquid phase. The metal, being in liquid state, is then contracted into drops which during further cooling (below $T_{c1}$) are transformed into polycrystals with a fine-dispersed non-oriented structure. It was established that for Bi $U + U_0 = 38$ kcal/g-atom, and for Sb - 37 kcal/g-atom, where $U + U_0$ is the energy required to decompose the condensate and to remove the atoms, precipitated on the plate. An analysis is made of Bi and Sb phase diagrams in coordinates 1/T versus $\lg p_{mmHg}$. On the phase diagram for Bi, curves are plotted for "twodimensional" Bi during its condensation on a neutral backing plate in a vacuum. The curves separate the zones of phase subsistence, i.e. twodimensional vapor, twodimensional liquid and twodimensional crystalline phase. The conclusion is drawn that the initial stage of condensate formation on a neutral plate should be considered as twodimensional crystallization or liquefaction of twodimensional metallic vapor, formed on the plate.

[Abstracter's note: Complete translation] B. Linchevskiy



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

38703

S/181/62/004/006/007/051
B125/B104

26.2532

AUTHORS: Palatnik, L. S., Koshkin, V. M., Gal'chinetskiy, L. P., Kolesnikov, V. I., and Komnik, Yu. F.

TITLE: Some properties of semiconducting compounds of the type $A_2^{I}B^{IV}X_3^{VI}$

PERIODICAL: Fizika tverdogo tela, v. 4, no. 6, 1962, 1430 - 1431

TEXT: This paper deals with the conductivity and thermo-emf of compounds with the general formula $A_2^{I}B^{IV}X_3^{VI}$ ($A^{I}$ = Cu, $B^{IV}$ = Ge or Sn, $X^{VI}$ = S, Se, or Te). Most of these compounds have covalent bonds. Samples were molten in evacuated quartz ampoules and purified by zone refining in 12 to 16 operations. Compounds based on sulfur and selenium can be purified by zone refining more easily than compounds based on tellurium. The values of the conductivity $\sigma$ ($ohm^{-1}cm^{-1}$) and of the thermo-emf $\alpha$ ($\mu v/deg$) at room temperature are as follows:

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

S/181/62/004/006/007/051
B125/B104

Some properties of semiconducting...

SUBMITTED: December 22, 1961

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

S/070/62/007/004/005/016
E132/E435

AUTHORS: Palathik, L.S., ~~Komnik, Yu.~~F., Komkin, V.M.

TITLE: The crystal chemistry of compounds with tetrahedrally coordinated atoms

PERIODICAL: Kristallografiya, v.7, no.4, 1962, 563-567

TEXT: The reasons for deviations of lattice periods of covalent crystals from the values calculated from the tetrahedral radii of L. Pauling and M. C. Huggins are analysed. It is shown that for resolving this difficulty it is necessary to include the fact of the partially ionic character of the bonds. Tables of new "truly" covalent tetrahedral radii for the elements have been compiled. Formulae are then given for calculating the lattice periods of many-component compounds from these purely covalent radii taking account of the ionic components. Usually the interatomic distance is calculated from

$$d_{AB} = r_A + r_B - 0.09(x_A - x_B)$$

where $x$ is the electronegativity and $r$ is the normal covalent radius (given by Pauling and Huggins). A table of the purely

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

The crystal chemistry of ... S/070/62/007/004/005/016
E132/E435

covalent radii is given, the main alterations being in groups 1, 5, 6, 7. Comparisons can be extended to include triple compounds by a generalization of the formula given above. The differences in the analysis carried out are all on the borderline of significance. There are 3 tables.

ASSOCIATIONS: Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo (Khar'kov State University imeni A.M.Gor'kiy) Nauchno-issledovatel'skiy institut osnovnoy khimii (Scientific Research Institute of Fundamental Chemistry)

SUBMITTED: August 31, 1961

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

PALATNIK, L.S.; KOMNIK, Yu.F.; BELOVA, Ye.K.; ATROSHCHENKO, L.V.

Ternary semiconductor compounds containing copper and elements of group IV and VI. Kristallografiia 6 no.6:960-964 N-D '61. (MIRA 14:12)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo i Nauchno-issledovatel'skiy institut osnovnoy khimii.
(Semiconductors)
(X-ray crystallography)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

PALATNIK, L.S.; KOSHKIN, V.M.; KOMNIK, Yu.F.

Isoelectronic series of semiconductor compounds. Kristallografiia 7 no.1:124-125 Ja-F '62. (MIRA 15:2)

1. Khar'kovskiy nauchno-issledovatel'skiy institut osnovnoy khimii i Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.

(Periodic law)
(Semiconductors)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

PALATNIK, L.S.; KOMNIK, Yu.F.; KOSHKIN, V.M.

Crystal chemistry of compounds with a tetrahedral coordination of atoms. Kristallografiia 7 no.4:563-567 Jl-Ag '62. (MIRA 15:11)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kogo i nauchno-issledovatel'skiy institut osnovnoy khimii.
(Crystallography)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

PALATNIK, L.S.; KOSHKIN, V.M.; GAL'CHINETSKIY, L.P.; KOLESNIKOV, V.I.; KOMNIK, Yu.F.

Some properties of semiconductor compounds of the type $A^{I}_{2}B^{IV}X^{VI}_{3}$. Fiz. tver. tela 4 no.6:1430-1431 Je '62. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut osnovnoy khimii, Khar'kov.
(Semiconductors)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

S/185/63/008/002/012/012
D234/D308

AUTHORS: Palatnik, L. S., Komnik, Yu. F., Belova, Ye. K. and Atroshchenko, L. V.

TITLE: X ray investigation of ordering processes in 3-component semiconductor alloys

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 2, 1963, 263-268

TEXT: The authors investigated $A_2BC_3$ type alloys, A being Cu, B being Ge or Sn, C - Se or Te. The c/a ratio is tabulated. Conclusions: alloys containing Ge and having tetragonal lattice distortions have concentrational ordering of cations. This is indicated by the disappearance of the tetragonal lattice if the ratio of cations to anions decreases, and by its absence in Sn-containing alloys. There are 1 figure and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut osnovnoy khimii (Scientific Research Institute of Basic Chemistry, Khar'kov

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

S/181/63/005/004/003/047
B102/B186

AUTHOR: Komnik, Yu. F.

TITLE: Measurements of thermal effects during condensation of thin films

PERIODICAL: Fizika tverdogo tela, v. 5, no. 4, 1963, 990 - 997

TEXT: The heating of substratum and condensate during the formation of thin films of Bi and In molecular deposition was measured with the help of a Bi-Sb film thermocouple. The Bi condensate film was at least $10^{-4}$ mm thick in order to avoid a size effect on the thermoemf of the thermocouple. Usually the Bi films were $2 \cdot 10^{-4}$ cm and the Sb films $4 \cdot 10^{-5}$ cm, this difference being compensated by different widths of the film stripe (0.3 and [illegible] mm) deposited on a lacquer film ($\sim 1 \cdot 10^{-5}$ cm) in a quartz frame. The thermo-emf of the thermocouples was thus 75 μv/deg, their sensitivity was [illegible] deg/mm. It was found that the thermal effects caused by the heat [illegible] of the evaporator, by the release of the condensation heat, and by [illegible] kinetic energy losses of the molecular beam particles hitting the film [illegible] can be determined separately. From the measured dependences of the thermal effect $\Delta T_{cond}$ and of the molecular beam density on the evaporation

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

X-Ray investigation of the structure of alloys in the system $CuGaSe_2$-$Ga_2Se_3$. L. S. Palatnik, Yu. F. Komnik, Ye. K. Belova.

Electrical and optical properties of alloys in the system $CuGaSe_2$-$Ga_2Se_3$. V. M. Koshkin, L. G. Manyukova, Yu. F. Komnik, L. S. Palatnik.

X-Ray investigation of the system $CuInSe_2$-$In_2Se_3$. L. S. Palatnik, Yu. F. Komnik, E. I. Rogacheva, L. V. Atroshchenko.

Electrical properties of alloys in the system $CuInSe_2$-$In_2Se_3$. L. S. Palatnik, V. M. Koshkin, Yu. F. Komnik, L. N. Gal'chinetskiy, L. G. Manyukova.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

ACCESSION NR: AP4019852 S/0181/64/006/003/0873/0878

AUTHOR: Komnik, Yu. F.

TITLE: Observation of packing defects in thin silver layers by means of an electron diffraction camera

SOURCE: Fizika tverdogo tela, v. 6, no. 3, 1964, 873-878

TOPIC TAGS: packing defect, silver film, line shift, electron diffraction camera, maximum line intensity

ABSTRACT: The packing defect theory with no principle limit relative to the crystal dimensions has been studied, and it is shown that for very thin silver films the basic cause of line shift on the electron diffraction camera (EDC) are the packing defects. The amount of packing defects in very thin silver films (3-5 Å thick, condensed at room temperature, and containing one strong and two weak diffraction broadening maxima) have been evaluated and their origins discussed. The change in diffraction ring dimension relative to the standard shows both magnitude and direction in the displacement of the maximum line intensity on the EDC to agree with the theory of packing defects. The relative content of such

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

ACCESSION NR: AP4019852

defects is shown to decrease with growth in crystal dimensions upon condensation. Orig. art. has: 9 formulas and 3 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut osnovnoy khimii, Khar'kov (Institute of Scientific Research in Basic Chemistry)

SUBMITTED: 15Apr63 DATE ACQ: 31Mar64 ENCL: 00

SUB CODE: CH NO REF SOV: 010 OTHER: 011

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNIK, Yu.F.

Electronographic observation of the formation process of thin metal films. Fiz. met. i metalloved. 16 no.6:867-871 D '63. (MIRA 17:2)

1. Khar'kovskiy nauchno-issledovatel'skiy institut osnovnoy khimii.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

BR

ACCESSION NR: AP4013529 S/0181/64/006/002/0611/0618

AUTHOR: Komnik, Yu. F.

TITLE: A possible cause of diminution of the lattice constant in thin films

SOURCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 611-618

TOPIC TAGS: lattice constant, thin film, electron microscope EM 5, electron diffraction study

ABSTRACT: Analyses of a series of electron-diffraction photographs, obtained from very thin films of Ag, Al, Pb, and Bi having different thicknesses, shows that the lattice constants decline steadily with diminution in thickness. The change in lattice dimension is on the order of hundredths or tenths of an angstrom. In preparing the material, to eliminate accidental factors, the films were condensed directly in the vacuum tower of the electron-diffraction camera. Photographs were obtained by means of an EM-5 electron microscope with adaptations for this purpose. Several methods of computing particle size in the very thin films are discussed. Shape of the particle is an important factor here, and the author, from his studies and from others, concludes that in such thin films the

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[illegible]

[illegible], Yu. F.

[illegible] diffraction study of the [illegible] of thin metal films

[illegible] metallov i metallovedeniye, v. [illegible], No. [illegible]

[illegible] film, thin metal film, thin film, metal film condensation, [illegible] tin film, lead film, indium film

[illegible] diffraction study was made of the condensation mechanism [illegible], In, and Pb on an [illegible] film of [illegible] mesh). The equipment, [illegible], was [illegible] of the substrate [illegible] of the metal [illegible] column. Concentration of [illegible] in the metals did [illegible] electron acceleration voltage [illegible] and beam cross-section [illegible]. It was found that at a [illegible] above a [illegible] temperature $T_1$, which is substantially below the melting tem- [illegible] the metals tested condensed with formation of the liquid phase. [illegible] appears to result from the very [illegible] of the metal particles.

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[illegible] particles
[illegible] condensed
[illegible]
[illegible]
able, and [illegible]

[illegible] Khimii
[illegible] Research Institute [illegible]

[illegible] ENCL: 01

SUB CODE: MM, OP NO REF SOV: [illegible] OTHER: 000

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

[illegible] /2908

[illegible] F.

[illegible] condensat[illegible]

[illegible] tela, [illegible]

[illegible] film, condensation, [illegible] characteristic [illegible]ical temperature, melting temperature

[illegible] is offered [illegible] characteristic [illegible] of thin [illegible] characteristic temperature [illegible] condensation [illegible] temperature at which [illegible] mechanism [illegible] $T_g$ -- melting temperature [illegible] and the [illegible] $T_g/3$. It is assumed that the metal atoms fall on [illegible] from the molecular beam and stay on it for a certain

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[illegible]

[illegible] a state of "two-dimensional vapor. During the initial period of the condensation the number of atoms in the two-dimensional [illegible] increases rapidly, so that conditions are created for the for- [illegible] condensate [illegible] place [illegible] and [illegible] mechanism [illegible] the [illegible] observations [illegible] Al., Canad. [illegible] features associat[illegible] tem- [illegible] ssed. [illegible]

[illegible] Chemistry

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNIK, Yu.F.

Characteristic condensation temperatures for thin films.
Fiz. tver. tela 6 no.10:2897-2908 O '64. (MIRA 17:12)

1. Nauchno-issledovatel'skiy institut osnovnoy khimii, Khar'kov.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

PALATNIK, L.S.; KOMNIK, Yu.F.; ROGACHEVA, Ye.I. [Rohachova, O.I.]

X-ray diffraction study of semiconducting alloys in the system Cu--In--Se. Ukr. fiz. zhur. 9 no.8:862-866 Ag '64.
(MIRA 17:11)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

PALATNIK, L.S.; KOMNIK, Yu.F.; KOSHKIN, V.M.; GAL'CHINETSKIY, L.P. [Hal'chynets'kyi, L.P.]; MANYUKOVA, L.G. [Maniukova, L.H.]

Electric properties of alloys in the system $CuInSe_2$--$In_2Se_3$. Ukr. fiz. zhur. 9 no.9:962-972 S '64.

(MIRA 17:11)

1. Nauchno-issledovatel'skiy institut osnovnoy khimii, Khar'kov.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

EWT(1)/EWT(m)/EWP(w)/EWP(m)/EW

AP5010787 ...04/0464/0468

...nik, L. S.; Komnik, Yu. F., Kos... ...yneta'kyy, L. P. ...
... P.); Manyukova, L. P. (Ma...

...al and optical properties of ... Se system

... UkrRSR. Dopovidi, no. ..., 19..,

... alloy, indium alloy, ...
mobility, thermal emf, electric conductivity

... investigated the ...
... of the system ...
... decreases with ...
... increases ...
... absolutely, and ...
... mobility ...
... The ...
... is concluded that ...

Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

[illegible]

[illegible] high content of [illegible]
[illegible] begins as soon as a [illegible]
[illegible] suppression of the [illegible]
[illegible] of the [illegible]
[illegible] octahedra [illegible]
[illegible] the dimensi[illegible]
[illegible] and their elec[illegible]
[illegible] (V. Ye. [illegible]

[illegible]'kyy politekhnicheskyy inst[illegible]
[illegible]'kov polytechnic institute [illegible]
[illegible]ovnoy khimii] (Scientific [illegible] [illegible] Chemistry)

ENCL: 00

OTHER: 005

[illegible]: SS, MM

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

[illegible]

[illegible]05298 S/0181/[illegible]/002/0539/0542

[illegible], Yu. F.; Palatnik, L. S.

TITLE: On the influence of the structure on the electric conductivity of thin films

[illegible] tela, v. [illegible], no. [illegible]

[illegible], thin film, electric [illegible] path

[illegible] The authors consider the influence of [illegible] the mean [illegible] electrons, the thickness of thin [illegible] average dimension [illegible] on the electric conductivity of [illegible] This research was [illegible] fact that bismuth, which has a [illegible] free path at [illegible], does not display the expected [illegible] the variation of [illegible] with the film thickness. [illegible] condensation mechanism are [illegible], one above a certain critical temperature and constituting con- [illegible] form of liquid particles, and one below the critical temperature, [illegible] is in the form of crystalline particles, and it is shown

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

AP5005298

[illegible] certain conditions the expected irregularities of the thickness variation of electric resistivity can occur in bismuth, in qualitative agreement with theory. This deduction was confirmed by an X-ray diffraction [illegible] of films 0.4 and 0.8 μ thick, obtained with substrate temperatures [illegible]. Orig. art. has: 1 figure and 5 formulas.

[illegible] Politekhnicheskiy institut im. V. I. Lenina (Polytechnic Institute); [illegible] Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR, Khar'kov (Physicotechnical Institute of Low Temperatures, AN UkrSSR)

[illegible]

ENCL: 00 SUB CODE: SS, EM

OTHER: 005

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

EWA(h)/EWT(1)/EWT(m)/EWG(m)/EWP(b)/T/EWP(...) ... EW/AT/JD

... 18714

... 47
44
... B

... 47

...allium compound, ...
...ystal ...

... The structure of alloys in the ... system formed
... The ... by
... initial components in ... After
... the alloy ...
...perature. The x-ray studies were carried out with Debye-

Card 1/4

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

[illegible] NR: AP5018714

[illegible] graphs taken in a [illegible] radiation. [illegible] constants were determined [illegible] being [illegible] standard. The microstructure [illegible] was investigated [illegible] microscope after [illegible] was meas- [illegible] standard method (PMT [illegible] loading). [illegible] constants were [illegible] ± [illegible] 11.006 ± 0.0[illegible] kX [illegible] .411 ± [illegible] The $(CuGaSe_2)_{3(1-x)}$ [illegible] large $CuGaSe_2$ [illegible] single phase for [illegible] the chal- [illegible] With increasing [illegible] distortion de- [illegible] the microhardness in [illegible] of samples [illegible] show subgrain [illegible] x [illegible] graphs of [illegible] perfect [illegible] structure result [illegible] of the [illegible] each grain contains [illegible] regions of the [illegible] mixture of two [illegible]

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

two phases (tetragonal and cubic). Alloys with x > 0.521 are single

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

ACCESSION NR: AP5018714

[illegible] and layer [illegible] and nondefe[illegible] [illegible] regions [illegible] are: 0--20 mole % ($2Ga_2Se_3$), 52--70 mole % [illegible] with tetragonal coor- [illegible] [illegible] the [illegible]

[illegible] 01Ju164 ENCL: 00 SUB CODE: SC

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

CHUMAKOV, V.P., kand.tekhn.nauk, dotsent; KOMNOV, V.A., inzh.

Analyzing the performance of the forced drive of a driven coil in the SNP machine for winding potentiometers on flat spools. [Trudy] MVTU no.105:131-140 '61.
(Winding machines--Testing) (MIRA 15:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNOTA, A.V., inzh.

Effect of defects in fabrics used in shoe manufacture on their utilization. Nauch.-issl. trudy TSNIKP no.28:26-44 '57.

(Shoe manufacture) (MIRA 11:10)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNOVA, A. V.: Master Tech Sci (diss) -- "The effect of flaws in the utilization of shoemaking fabrics". Moscow, 1959. 14 pp (Min Higher Educ USSR, Moscow Tech Inst of Light Industry), 130 copies (KL, No 10, 1959, 126)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

MORKHODOV, G.A.; SHUSTOROVICH, M.L. [deceased]; BELYAYEV, A.V.; GRIGOR'YADI, M.G.; KOMNOVA, A.V.

Adequate thickness of Russian leather. Kozh.-obuv.prom. 2 no.2:21-23 F '60. (MIRA 13:5)
(Leather)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNOVA, A.V.; SHEYNERMAN, Ye.M.

Grades of fabrics for footwear. Standartizatsiia 24 no.8;47-48 Ag '60. (MIRA 13:9)
(Textile fabrics--Standards) (Shoe manufacture)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNOVA, A.V., kand. tekhn. nauk;

Are there any new features in the information about the wear resistance of sole leather? Kozh.-obuv. prom. 6 no.8:43 Ag '64.

(MIRA 17:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNOVA, A.V., kand. tekhn. nauk

Drafting of new state standards for the classification of leather for shoe uppers. Kozh.-obuv. prom. 7 no.1:11-15 Ja '65.

(MIRA 18:3)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KRUTIKOV, A.; SELISHCHEV, G.; GABIS, V.; LIBERMAN, A.; KOMNOVA, L.; BUT, A.; SUTANKIN, A.; ZHEROMSKAYA

Unremitting attention to self-service stores! Sov.torg. 33 no.7:12-13 Jl '60. (MIRA 13:7)

1. Direktor moskovskogo magazina samoobsluzhivaniya "Gastronom" No.65 (for Krutikov). 2. Direktor moskovskogo magazina samoobsluzhivaniya "Gastronom" No.64 (for Selishchev). 3. Direktor magazina No.65 Moskvoretskogo RPT (for Gabis). 4. Direktor moskovskoy bulochnoy No.44 (for Liberman). 5. Direktor moskovskoy bulochnoy No.367 (for Komnova). 6. Direktor moskovskogo magazina samoobsluzhivaniya "Mosovoshch" (for But). 7. Direktor moskovskogo magazina samoobsluzhivaniya No.78 "Mosmoloko" (for Sutankin). 8. Zamestitel' direktora magazina No.22 "Ogonek" Sverdlovskogo RPT (for Zheromskaya).
(Self-service stores)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

AUTHORS: Komochkov, M. M., Mekhedov, V. N. 89-4-5-13/26

TITLE: Activation of the Air by Radiation From a Synchrocyclotron (Aktivatsiya vozdukha izlucheniyami ot sinkhrotsiklotrona)

PERIODICAL: Atomnaya Energiya, 1958, Vol 4, Nr 5, pp. 471-474 (USSR)

ABSTRACT: By aid of a collecting chamber with a volume of 7.51 l equipped with a cylindrical aluminium counting tube (thickness of the wall 150 $\mu$) as detector, the concentration of the radioactive gases in the air is measured by their $\beta$-activities. The air present at the site of the 680 MeV synchrocyclotron of the United Institute of Nuclear Physics and its activity during the operation of the apparatus is measured. The following measuring results were obtained:

| Isotope | Relative yield | |
|---|---|---|
| | Protons leave the apparatus | Neutrons leave the apparatus |
| $O^{15}$ | 0.12 | 2.7 |
| $N^{13}$ | 0.06 | 0.31 |
| $C^{11}$ | 0.06 | 0.46 |


Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

Activation of the Air by Radiation From a Synchrocyclotron 89-4-5-13/26

| | | |
|---|---|---|
| $A^{41}$<br>$F^{18}$ | -<br>$3.10^{-4}$ | 0,04<br>- |

With 660 MeV-protons and at a proton-intensity of $\sim 10^{10}$ p/sec the air in the neighborhood of the tube window has an activity of less than $3.10^{-8}$ C/l.
With neutrons which originate in the charge exchange of protons on beryllium the dose at the same place amounts to about $\sim 1 \cdot 10^{-8}$ C/l.
A control measurement in the air exhaust canal of the building in which the apparatus is set up, showed, that the exhaust air is practically not active and that there is no danger for the staff of the adjoining laboratories.
There are 3 figures and 1 table.

SUBMITTED: June 21, 1957

AVAILABLE: Library of Congress

Card 2/2

1. Air--Radioactivation analysis 2. Radioactive gases--Measurement 3. Synchrocyclotrons--Radiation effects

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

AFANAS'YEV, V.P.; GOLOVINA, V.A.; KOMOCHKOV, M.M.; MEKHEDOV, V.N.; OGANESYAN, K.O.; ROZHKOV, V.Ye. [deceased]; ROZANOVA, A.M.

Dosimetric check. Med. rad. 5 no.1:6-12 Ja '60. (MIRA 15:3)
(RADIATION--DOSAGE)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

21.2000

77252
SOV/89-8-2-17/30

AUTHORS: Komochkov, M. M., Mekhedov, V. N.

TITLE: Some Data on Radiation Distribution From the OIYaI Synchrocyclotron. Letter to the Editor

PERIODICAL: Atomnaya energiya, 1960, Vol 8, Nr 2, pp 152-153 (USSR)

ABSTRACT: Measurements were performed while producing neutrons by protons bombarding a beryllium target with up to 680 mev of energy and 0-0.3 $\mu$a of current in the outer orbit region. Detectors were placed in the plane of the accelerated protons. One of them served as an intensity monitor. Neutrons above 50 mev were detected by means of an ionization chamber registering fragments from bismuth fission. Fast protons were eliminated using 15-20 cm of lead shielding. The background of the aluminum-built chamber without the bismuth cover was 1.5%. Data were taken also by carbon counters, with a threshold around 20 mev, which permitted flux measurements in areas where the fission chamber was unable to work due to the action of electromagnetic fields of the

Card 1/5

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

Some Data on Radiation Distribution From the OIYaI Synchrocyclotron. Letter to the Editor

77252
SOV/89-8-2-17/30

accelerator. Figure 1 shows the results, using the following code: numerator - point index; denominator - particle flux in relative units. There is evident a sharp cone of particles which in the case of $E_n > 50$ mev has an angular spread of $29 \pm 1^{\circ}$. The authors also estimated, using the C counter, the flux of neutrons from the beryllium target in a collimated beam, 14 m from the target. They got a flux of 3 to $7 \cdot 10^4$ neutrons/$cm^2 \cdot sec$ for $E_n > 20$ mev neutrons. The authors computed that for every 10 protons of the circulating beam one neutron with $> 50$ mev would appear outside the cyclotron chamber. Behind the shielding walls, where the intensity was low, the authors used for $E_n > 50$ mev the photoemulsion K-200. Neutrons with $E_n > 0.5$ mev were registered by means of a scintillation counter using a mixture of organic glass and zinc

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

Some Data on Radiation Distribution From the OIYaI Synchrocyclotron. Letter to the Editor

77252
SOV/89-8-2-17/30

sulfide. The code to the right of the shield is: numerator - point number; first number in denominator - neutron flux with $E_n > 0.5$ mev; second number - intensity of $\gamma$-ray dose in $\mu$ R/sec. In laboratories 1, 2, and 3 the measurements were made under most unfavorable conditions--when two beams in full strength of $10^7$ neutrons/sec were going through the laboratories. The authors also determined the level of radiations in the whole accelerator building, including the roof. A thickness of 41-43 cm of concrete would cut the neutron $E_n > 50$ mev flux to one-half. The authors concluded that the accelerator shielding was sufficient to secure the safety of the working personnel. In future constructions a more compact arrangement of shielding walls should be introduced to obtain the effect needed with less material. V. P. Dzhelepov helped and showed interest. There is 1 figure; and 2 Soviet references.

SUBMITTED: April 20, 1959

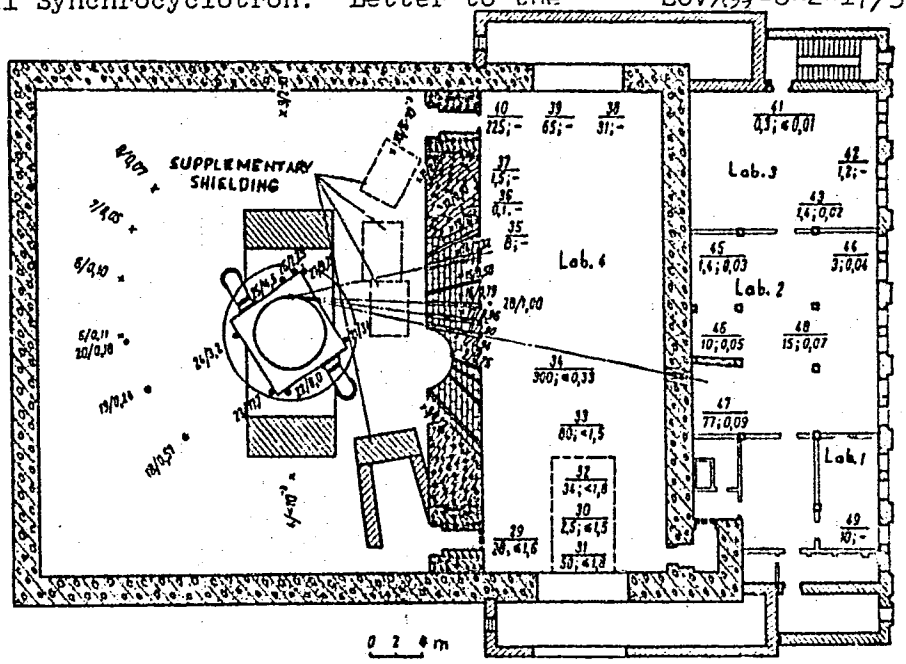
Card 3/5

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

Some Data on Radiation Distribution From the OIYaI Synchrocyclotron. Letter to the Editor

77252
SOV/89-8-2-17/30




Card 4/5

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

Some Data on Radiation Distribution From the OIYaI Synchrocyclotron. Letter to the Editor

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SOV/89-8-2-17/30

Caption for Fig. 1.

Fig. 1. Radiation distribution around 6-meter synchrocyclotron. x - Measurements utilizing bismuth chamber; o - measurements using carbon detectors.

Card 5/5

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

27526
S/089/61/011/004/008/008
B102/B138

21.3100

AUTHOR: Komochkov, M. M.

TITLE: Neutron flux attenuation in the concrete shield of a synchrocyclotron

PERIODICAL: Atomnaya energiya, v. 11, no. 4, 1961, 399 - 401

TEXT: Since there exist no data on the half thickness $\Delta_{1/2}$ (the thickness of matter in which the neutron flux has dropped to half its value) of neutrons with energies of more than 300 Mev, the author determined these values for concrete ($\varrho$ = 2.35 g/cm$^3$). Measurements were carried out at the Laboratoriya yadernykh problem Ob"yedinennogo instituta yadernykh issledovaniy (Laboratory of Nuclear Problems of the Joint Institute of Nuclear Research). The attenuation was measured in the 2-m concrete shielding wall of the synchrocyclotron. The neutron fluxes were determined by threshold detectors or from nuclear reactions induced by the neutrons in emulsions. The neutron flux at the wall was constant within an area of 2 m diameter, whose center coincided with the center of the

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experimental hole. The angular divergence of the beam was 3°. For resonance and thermal neutrons, indium and copper foils, were used for detection, and for neutrons with $\gtrsim$ 50 Mev, thick photoemulsions. From the attenuation curves (Fig. 2) it was found, that there exist two groups of neutrons with $\Delta_{1/2}$ = 6 - 9 and $\Delta_{1/2}$ = 41 - 43 cm. They corresponded to neutrons of a few Mev and of hundreds of Mev, respectively. Equilibrium between these two groups was reached after 90 cm of concrete. For the second group, the $\Delta_{1/2}$ values were in good agreement with the calculated ones, using the relation $\Delta_{1/2} = \ln 2/\sum_i A_i \sigma_i$ ($A_i$ - number of nuclei of the i-th element per $cm^3$ of concrete, $\sigma_i$ - inelastic interaction cross sections for nuclei of the i-th element and 650-Mev protons. The author thanks V. P. Dzhelepov and V. P. Afanas'yev for help and interest. There are 2 figures, 1 table, and 5 references: 3 Soviet and 2 non-Soviet. The latter read as follows: P. Gugelot, H. White. J. Appl. Phys., 21, 369 (1950); Conference on Shielding of High-Energy Accelerators. New York, April, 1957.



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27526

Neutron flux attenuation... S/089/61/011/004/008/008
B102/B138

SUBMITTED: April 6, 1961

Fig. 2. Neutron flux densities at various depths of concrete. Detector: x - In ($\Delta_{1/2}$ = 42 ± 1 and 8 ± 0.3 cm); 0 - In + Cd ($\Delta_{1/2}$ = 41 ± 1 and 6.5 ± 0.5 cm); $\Delta$ - Cu ($\Delta_{1/2}$ = 41 ± 1 and 9 ± 0.5 cm); ● - photoemulsion ($\Delta_{1/2}$ = 43 + 2 cm); □ - $C^{12}$ ($\Delta_{1/2}$ = 42 ± 2 cm). Ordinate: neutron flux in relative units, abscissa: concrete thickness in cm.

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

ZAYTSEV, L.N.; KOMOCHKOV, M.M.

Optimum amount of water in the concrete shielding of a reactor. Sbor. trud. MISI no.41:33-44 '62. (MIRA 16:6)

(Shielding(Radiation))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

38448
S/089/62/012/006/012/019
B102/B104

21.5250

AUTHORS: Zaytsev, L. N., Komochkov, M. M., Sychev, B. S.

TITLE: Attenuation of high-energy neutrons in concrete

PERIODICAL: Atomnaya energiya, v. 12, no. 6, 1962, 525 - 527

TEXT: The intensity losses of fast neutrons passing through special heavy concretes were studied on the synchrocyclotron of the Laboratoriya yadernykh problem Ob"yedinennogo instituta yadernykh issledovaniy (Laboratory for Nuclear Problems of the Joint Institute of Nuclear Research). Previously, such studies had been made only for ordinary concretes. Three types of concrete (densities, 2.35, 3.2, and 4.1 g/cm$^3$) were studied, the first being the same as that used in the synchrocyclotron. The neutron flux was determined from the $C^{11}$ activity in the concrete. The $C^{12}(n, 2n)C^{11}$ reaction has a threshold of 20 Mev and a constant cross section in the energy range considered. At $E_n > 20$ Mev, the drop of intensity in concrete 20 - 40 cm thick was found to follow an exponential law. The authors' experiments refuted the assumption that the thickness which reduces the intensity to

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50 % be inversely proportional to the concrete density (Callan, Amer. Inst. 25, 17, 1953). Economic considerations show that a reduction of the required thickness cannot compensate for the rise in cost resulting from the use of heavy concretes. The concretes in question cost 28.9, 75.0, and 209.6 rubles/$m^3$. There are 3 figures and 3 tables.

SUBMITTED: February 10,11962



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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

L 17587-63 EWT(m)/BDS AFFTC/ASD DM

ACCESSION NR: AP3005220 S/0089/63/015/002/0126/0130

54
52

AUTHOR: Komochkov, M. M.

TITLE: Activation of various materials upon radiation with protons of 660 Mev energy.

SOURCE: Atomnaya energiya, v. 15, no. 2, 1963, 126-130

TOPIC TAGS: activation of material on irradiation, prompt Gamma, induced Gamma, induced Beta, ionizing radiation

ABSTRACT: The radiation damage to the personnel working with proton accelerations of several hundred Mev is caused by three types of ionizing radiations: neutrons, prompt Gammas, and induced Betas and Gammas. Induced radiations are the most dangerous. Author found that Betas constitute only 25% of induced radiation from the synchrocyclotron material. Hence, only the yield of the induced Gamma radiation was determined in this study. The activity of materials after being irradiated for 40 min. by 660 Mev protons was measured at various times after irradiation. The specific activity varies from 15 to 700 microgram-equiv·Ra/gm for different materials after one hour of irradiation by a proton flux of $10^{10}$ protons/$cm^2$·sec. "In conclusion, the author expresses his gratitude to Prof.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

L 17587-63
ACCESSION NR: AP3005220

V. P. Dzhelepov for suggesting the problem and to V. N. Mekhedov for a constant interest in this work." Orig. art. has: 1 figure, 1 table and 5 equations.

ASSOCIATION: none

SUBMITTED: 14Sep62 DATE ACQ: 06Sep63 ENCL: 00

SUB CODE: PH NO REF SOV: 004 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOCHKOV, M.M.; SYCHEV, B.S.

Attenuation of a high-energy neutron flux in a shielding. Atom. energ. 15 no.4:325-327 O '63. (MIRA 16:10)

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[illegible] Kamochkov, M. M.

[illegible] ntent in the concret [illegible]

[illegible] erno-stroitel'nyy [illegible] 1962.
[illegible] a vadernykh ustanovok. [illegible]
[illegible] Department for the [illegible] in-
stallations. Design and construction of nuclear engineering installations), 33-

[illegible] shielding, concrete s [illegible]
[illegible] gamma ray shielding

[illegible] rs note that nuclear [illegible] for
[illegible] happen to be in the Compt [illegible]
[illegible] gamma ray neutron initial [illegible] of
[illegible] ray shielding dictates a heavy [illegible]
[illegible] area loading of 500 grams [illegible]
[illegible] of concrete for the most [illegible] neutrons in
[illegible] zone depend mostly on the ratio [illegible]

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elements with average atomic weight. This shows the importance
tent for shielding against fast neutrons. Thus, the main para-
ete shielding which must be optimized become the density of the
s water content. The optimum water content in the concrete is
but is a function of the concrete density, the required radiation
the ratio of the initial flow of gamma radiation to the neutron
f the shielding installations analyzed, the optimum required
ntuates between 2 and 6%. [illegible] shielding covers
of water loss by evaporation [illegible] the con-
[illegible] gradients within [illegible] the phy-
requiring the use of one or [illegible] composi-
[illegible] of optimum water content [illegible] a
[illegible] to the selection [illegible] results
[illegible] considered tentative, [illegible] able to
[illegible] of any nuclear installation. On the contrary, these results show
[illegible] to other classes [illegible] proceed
[illegible] caution. Orig. art. has: 1 table, 3 figures and 18 formulas.

ASSOCIATION: Kafedra stroitel'stva yadernykh ustanovok, Moskovskiy inzhenerno-stroitel'nyy institut (Department for the Construction of Nuclear Engineering Installations, Moscow Engineering and Construction Institute)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

L 58913-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pt-7 IJP(c) GS

ACCESSION NR: AT5007938 S/0000/64/000/000/0547/0555

AUTHOR: Glazov, A. A.; Denisov, Yu. N.; Dmitriyevskiy, V. P.; Zamolodchikov, B.I.; Zaplatin, N.L.; Kol'ga, V. V.; Komochkov, M. M.; Kropin, A. A.; Dzhelepov, V. P.; Gashev, M. A.; Malyshev, I. F.; Monoszon, N. A.; Popkovich, A. V.

TITLE: Relativistic 700-Mev proton cyclotron

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 547-555

TOPIC TAGS: proton accelerator, relativistic particle

ABSTRACT: Current theoretical concepts and experimental data conclusively show that to understand the microcosm further it is necessary to increase the beam intensity of accelerators by a factor of $10^3$ and produce accelerators with energies up to thousands of Bev's. For the past 5-6 years constant gradient accelerators (500-900 Mev cyclotrons) have appeared to be the best way to produce particles with energies up to 1 Bev (1 Gev) with beam currents of the order of 1 milliampere instead of 1 microampere (as found in synchrocyclotrons). The present report describes the design for a 700-Mev proton cyclotron developed by the Laboratory of Nuclear Prob-

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ACCESSION NR: AT5007938

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blems of the OIYaI jointly with the NIIEFA GKAE SSSR and other scientific research institutes with rated current proton beam up to 500 microamperes. The choice of energy was made on the basis of the fact that at 700 Mev the cross-sections for formation of pions in nucleon-nucleon and nucleon-nuclei collisions are close to maximum, and also because of the possibility of utilizing the electromagnet of the 680-Mev synchrocyclotron of the OIYaI for the new accelerator. The following new problems were considered in the design because there is now no similar operational high-energy accelerator: (a) verification of the linear theory and development of the nonlinear theory of spatial stability and of the phase motion of particles in the accelerator; (b) creation in a large space of a magnetic field with complex configuration and its stabilization with an unusually high degree of accuracy; (c) production of apparatus for the measurement of strongly nonhomogeneous magnetic fields (gradients up to 4000 oe/cm) with an accuracy better than $10^{4}$; (d) production of high-frequency oscillators with power up to 2 MW at a frequency of 12 megacycles per second (12 Mc), with frequency stability of the order of $10^{-5}$, which operate with a resonance system with amplitude of the accelerating high-frequency voltage of up to 100 kilovolts; (e) design of an accelerator and its auxiliary systems which ensure effective operation and maintenance under conditions of high levels of activity; (f) development of a highly effective system for the channeling of proton beams from the accelerator, and also solution of the problems connected with

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ACCESSION NR: AT5007938

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producing beams of secondary particles and their channeling and focusing; (g) development of plans for the protection of personnel and instruments from radiation. The paper concludes that the relativistic cyclotron offers wide new possibilities for nuclear research in radiobiology, solid state physics, etc. Orig. art. has: 7 figures, 3 tables.

ASSOCIATION: (I) Ob"yedinennyy institut yadernykh issledovanniy, Dubna (Joint Institute of Nuclear Research, Dubna); (II) Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury imeni D. V. Yefremova GKAE SSSR (Scientific Research Institute of Electrophysical Equipment, GKAE SSSR)

SUBMITTED: 26May64 ENCL: 00 SUB CODE: NP

NO REF SOV: 009 OTHER: 002

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Card 3/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

L 28845-66 EPF(n)-2/EWA(h)/EWP(j)/EWT(m)/ETC(f)/EWG(m)/EWA(1) RM

ACC NR: AP6013737 (A) SOURCE CODE: UR/0089/66/020/004/0355/0356

AUTHOR: Sychev, B. S.; Mal'kov, V. V.; Komochkov, M. M.; Zaytsev, L. N.

ORG: None

TITLE: Passage of high-energy neutrons through a heavy concrete shielding 19

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 355-356

TOPIC TAGS: neutron energy distribution, neutron shielding, nuclear shielding, concrete

ABSTRACT: The authors present in a brief form the results of their experiments, conducted in the GIYaI synchrocyclotron laboratory, on shielding consisting of a series of slabs (53 mm thick). The slabs are made of heavy (hematite) concrete having a density of 3480 kg/cu m. The chemical composition of concrete slabs is given, being expressed in percent by weight. The content of hydrogen is 0.35wt.%. The experimental data characterizing the neutron attenuation for different energy groups are plotted for various concrete thicknesses (up to 4000 kg/sq m). The neutron groups include high-energy neutrons (E≥20 Mev), fast neutrons 2 to 20 Mev), intermediate neutrons (E about 1.44 ev). These three

Card 1/2

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Card 2/2

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L 41035-66 EWT(m)/T

ACC NR: AP6013725 (A) SOURCE CODE: UR/0089/66/020/004/0323/0327

43
40
B

AUTHOR: Sychev, B. S.; Mal'kov, V. V.; Komochkov, M. M.; Zaytsev, L. N.

ORG: none

TITLE: The passage of high energy neutrons through iron-water mixtures

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 323-327

TOPIC TAGS: neutron shielding, neutron diffusion, neutron detector, neutron flux

ABSTRACT: The accumulation of slow neutrons (E < 1 MeV) during the passage of high energy neutrons through iron and iron-water mixtures was determined experimentally and theoretically. A set of 20 mm thick 980 x 980 mm steel plates was placed into a 1000 x 1000 x 2000 mm metal container located in the synchrocyclotron chamber of the OIYaI. Concrete blocks shielded the device from scattered radiation. Neutrons were generated by 170, 250, 350, 480, and 660 MeV protons. The paper presents the characteristics of the three detectors used, the attenuation of the neutron flux generated by high energy protons, the relaxation length of high energy neutrons (for various energies of primary protons and differing concentrations of water), the buildup factors of intermediate neutrons, and the thickness of iron-water shielding of varying hydrogen content for a 200-fold attenuation. An analysis of the results shows that the use

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L 41035-66

ACC NR: AP6013725

3

of iron without the addition of hydrogen is not expedient. The authors are deeply indebted to V. S. Kiselev for his help in the calculation of the buildup factors of intermediate neutrons, and to V. P. Afanas'yev and V. M. Nazarov for making available the calibrated high-energy and intermediate-energy neutron detectors. Orig. art. has: 7 formulas, 2 figures, and 3 tables.

SUB CODE: 18/ SUBM DATE: 29Jun65/ ORIG REF: 004/ OTH REF: 001

Card 2/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

L 06454-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JR

ACC NR: AP6024543 SOURCE CODE: UR/0089/66/021/001/0056/0057

AUTHOR: Zaytsev, L. N.; Komochkov, M. M.; Mal'kov, V. V.; Cherevatenko, Ye. P.; Sychev, B. S.

ORG: none

TITLE: Attenuation of high-energy neutron fluxes by heterogeneous shields

SOURCE: Atomnaya energiya, v. 21, no. 1, 1966, 56-57

TOPIC TAGS: reactor shielding, reactor neutron flux, neutron absorption

ABSTRACT: The authors present results of experimental investigations of the distribution of neutron fluxes of varying energy groups in layered shields. The investigations were made with the OIYaI synchrocyclotron in a neutron flux obtained by bombarding a beryllium target with 660-Mev protons. The geometry of the experiment is described elsewhere (Atomanaya energiya v. 12, 525, 1962). The neutron fluxes were registered with threshold detectors of $In^{115}$, $P^{31}$, and $C^{12}$, which were briefly described earlier (Atomnaya energiya v. 20, 323, 1966). X ray films of individual gamma dosimeters were also used. The following shield combinations were used: iron - water, iron - heavy concrete, and water - iron - water. An analysis of the measured attenuation produced by these shields leads to the conclusion that the presence of the first layer does not influence the character of attenuation of the neutron flux in the second layer. Secondary effects connected with resonant neutrons produced at the boundary of the two materials are discussed. It is recommended that the second layer

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ACC NR: AP6024543

be made of hydrogen-containing material to reduce the effect of accumulation of intermediate neutrons in heavy materials. The authors thank Z. Tsisek and A. P. Cherevatenko for help with the experiments. Orig. art. has: 3 figures and 3 formulas.

SUB CODE: 18/ SUBM DATE: 22Feb66/ ORIG REF: 005

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

ACC NR: AM6023941 Monograph UR/

Broder, D. L.; Zaytsev, L. N.; Komochkov, M. M. Mal'kov, V. V.; Sychev, B. S.

Concrete in the shielding of nuclear installations (Beton v zashchite yadernykh ustanovok) Moscow, Atomizdat, 1966. 239 p. illus., biblio., tables. 2050 copies printed.

TOPIC TAGS: accelerator, concrete, nuclear engineering, nuclear radiation, radiation shielding, reactor shielding

PURPOSE AND COVERAGE: This book is intended for designers of nuclear devices and readers working in the nuclear industry. Methods and techniques for swift evaluation of various nuclear shieldings are presented. Approximate methods of calculating concrete shieldings are covered in the following sequence: the determination of emitted radiation and its distribution, of the distribution of radiation fluxes along the thickness of the shield, and of the permissible radiation levels beyond the shield. Particular attention is given to the shieldings of high-power accelerators. Prof. A. N. Komarovskiy and Docent V. B. Dubrovskiy provided advice, and A. V. Kudryavtseva, A. M. Tugolukov, V. S. Kiselev, and P. A. Lavdanskiy cooperated.

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Ch. 3. Calculation of the Attenuation of Medium-Energy Neutron and Gamma-Quantum Fluxes in Shieldings -- 74
Ch. 4. Calculation of Attenuation of Radiation from High-Energy Particle Accelerators -- 100
Ch. 5. Penetration of Neutrons Through Concretes -- 122
Ch. 6. Gamma-Radiation Penetration Through Concretes and Formation in Concretes -- 162
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SUB CODE: 18/// SUBM DATE: 16Feb66/ ORIG REF: 108/ OTH REF: 116

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMNOVA, Z.D.

Change in the tissues of the parodontium in periodontitis. Stomatologiia 40 no.1:20-24 Ja-F '61. (MIRA 14:5)

1. Iz kafedry patologicheskiy anatomii (zav. - prof. B.I.Migunov) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Baletskiy).
(GUMS--DISEASES)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

BIRKENVAL'D, P.V.; BURDIN, M.P.; GORKIN. S.F.; YEGOROV, V.P.; ZARZHETSKIY, V.A.; KOMODOV, A.A.; LAKTIONOV, A.T.; LEBEDENKO, D.P.; LIBEVSKIY, A.A.; LOBANOV, G.V.; LYAKHOVETSKIY, Z.Ya.; MIROYEVSKAYA, O.N.; MIKHAYLOV, P.N.; NIKOLAYEV, S.V.; PAKHODEYEV, V.I.; SOKOLOV, G.V.; STRIZHEV, N.I.; SHAPOVALOV, V.A.; YAVKIN, P.Ye.; IVANININ, F.D., redaktor; DROZDOV, A.I., redaktor vypuska; SERGEYEVA, N.A., redaktor izdatel'stva; BORISOV, A.S., tekhnicheskiy redaktor

[Handbook of consolidated estimate norms for geological prospecting operations] Spravochnik ukrupnennykh smetnykh norm na geologo-razvedochnye raboty (SUSN). Moskva, Gos. izd-vo geol. lit-ry. No.7 [Rotary drilling] Rotornoe burenie. 1950. 175 p. (MLRA 9:12) [Microfilm]

1. Russia (1923- U.S.S.R.) Ministerstvo geologii. (Boring)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGAYEVA, Z.P.

KOMOGAYEVA, Z.P.

Activities of a medical rural center in tuberculosis control in the Yakutsk A.S.S.R. Probl. tub. no.1:6-9 Ja-F '55. (MLRA 8:4)

1. Zav. Dyupsinskim sel'skim vrachebnym uchastkom.
(TUBERCULOSIS, prevention and control, in Russia, in rural areas)
(RURAL CONDITIONS, tuberc. control, in Russia)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGOR, L.A., elektrotekhnik.

Automatic control of a spiral twisting machine. Energetik 3 no.5:13-14 O '53. (MLRA 6:10)
(Spinning machinery)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGOROV, N. N.

1c

L 41159-65 EWT(m)/EWP(t)/EWP(k)/EWP(b) Pf-4 JD

ACCESSION NR: AP5007176 S/0286/65/000/003/0043/0043

AUTHOR: Vinichenko, G. G.; Tarasenko, V. A.; Shtan'ko, V. M.; Panyushkin, A. V.; Bobrov, V. G.; Komogorov, N. N.

17
B

TITLE: A cutting fluid for hot finishing of metals. Class 23, No. 167940

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 43

TOPIC TAGS: cutting fluid

ABSTRACT: This Author's Certificate introduces a cutting fluid for hot finishing of metals. The fluid is based on common salt, graphite, mineral oil and sawdust. In order to avoid surface carburization, the fluid also contains zinc sulfate, a mixture of ferrous and ferric hydroxides and potassium sulfate.

ASSOCIATION: none

SUBMITTED: 30Mar64 ENCL: 00 SUB CODE: MT

NO REF SOV: 000 OTHER: 000

Card 1/1

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGOROV, P.R., polkovnik med.sluzhby

Clinical forms of eczema. Sbor.nauch.trud.Kiev.okruzh.voen.gosp. no.4:328-332 '62. (MIRA 16:5)

(ECZEMA)

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KOMOGOROV, P.R.; KLIMENKO, A.V.; RYAKHOVSKIY, I.Ye.; GODOMILOVA, M.S.

Specific composition of fungi in epidermophytosis. Vest. derm. i ven. 37 no. 10:24-26 O '63. (MIRA 17:9)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGORTSEV, A. G., inzh.

Automatic switching-in of condenser discharge resistors. Energetik 12 no.4:16-17 Ap '64. (MIRA 17:7)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGORTSEV, I. I.

Dissertation defended for the degree of Candidate of Historical Sciences in the Insitute of History

"History of Ferrous Metallury of Eastern Siberia (Pre-October Period)."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGORTSEV, Ivan Ivanovich; KUDRYAVTSEV, F.A., prof., otv. red.; NAZARYANTS, T.M., red.

[History outline of ferrous metallurgy in Eastern Siberia; the pre-October period] Ocherki istorii chernoi metallurgii Vostochnoi Sibiri; dooktiabr'skii period. Novosibirsk, Red. izd. otdel Sibirskogo otd-niia AN SSSR, 1965. 214 p. (MIRA 18:9)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGORTSEV, Ivan Ivanovich, kand. ist. nauk; IVANNIKOV, B., red.

[Large-scale chemical industries in Siberia] Bol'shaia khimiia Sibiri. Novosibirsk, Zapadno-Sibirskoe knizhnoe izd-vo, 1964. 91 p. (MIRA 18:9)

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BOCHAROV, F.; DOBBA, A.; ZAYTSEV, N.; KALUTSKIKH, N.; KOMOGORTSEV, N.; KOPANITSA, Ya.; MIKHAYLENKO, I.; PLIKHIN, P.; PODZHAROV, P.; RUZOV, M.; SEMENOV, N.; STAKHANOV, A.; USKOV, A.

Fema Evgen'evich Tiurin; an obituary. Mast. ugl. 7 no.11:32 N '58. (MIRA 11:12)

(Tiurin, Fema Evgen'evich, 1898-1958)

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KOMOGORTSEV, N.

Sixth Congress of Trade Unions. Mast.ugl. 9 no.4:3-4 Ap '60. (MIRA 13:11)

1. Sekretar' TSentral'nogo Komiteta profsoyuza rabochikh ugol'noy promyshlennosti SSSR.
(Trade unions)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

BORYCHEV, N.I.; ZAV'YALOV, P.F.; KOMOGORTSEV, N.I., otv.red.; OSVAL'D, E.Ya., red.izd-va; KONDRAT'YEVA, M.A., tekhn.red.

[Handbook on work safety in coal mining] Spravochnik po okhrane truda v ugol'noi promyshlennosti. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1960. 302 p.

(MIRA 13:7)

1. Soyuz rabochikh ugol'noy promyshlennosti. TSentral'nyy komitet. 2. Otdel okhrany truda TSentral'nogo komiteta profsoyuza ugol'noy promyshlennosti (for Borychev, Zav'yalov).

(Coal mines and mining--Safety measures) (Coal miners)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

GUBANOV, V.Ye., inzh.; VASIL'YEV, K.A.; ZAV'YALOV, A.S.; KOMOGORTSEV, P.Ya., red.; BEGICHEVA, M.N., tekhn.red.

[Ship systems] Sudovye sistemy. Moskva, Izd-vo M-va rechnogo flota SSSR, 1951. 458 p. (MIRA 12:3)
(Marine pipe fitting) (Ships--Equipment and supplies)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGORTSEV, P.Ya.

HUFANOV, Pavel Grigor'yevich; POTAPOV, N.S., retsenzent; VYSOTA, I.I., retsenzent; KOMOGORTSEV, P.Ya., redaktor; SHLENNIKOVA, Z.V., redaktor; BEGICHEVA, M.N., tekhnicheskiy redaktor.

[Marine steam engines and turbines] Sudovye parovye mashiny i turbiny. Izd. 2-e, ispr. i dop. Moskva, Izd-vo "Rechnoi transport," 1955. 530 p. (MIRA 8:4)

(Marine engines) (Steam turbines)

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ALEKSANDROV, Andrey Svyateslavovich; KOMOGORTSEV, P.Ya., redaktor; ARNOL'D, L.V., retsenzent; PRISYAGIN, V.V., retsenzent; SHLEMNIKOVA, Z.V., redaktor; KRASNAYA, A.K., tekhnicheskiy redaktor.

[Thermal calculations for water-tube boilers of ships] Teplovoi raschet sudovykh vodotrubnykh kotlov. Moskva, Izd-vo "Rechnoi transport", 1956. 111p. (MLRA 9:6)
(Boilers, Marine)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGORTSEV, P.Ya.

KLYUSHENKOV, Ivan Stepanovich; FEDOROV, V.F., retsenzent; PENKIN, I.S., retsenzent; KOMOGORTSEV, P.Ya., redaktor; SHLEMNIKOVA, Z.V., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Technology of machine-shop work in repairing machinery of river vessels] Tekhnologiia slesarno-montazhnykh rabot po remontu mekhanizmov rechnykh sudov. Moskva, Izd-vo "Rechnoi transport," 1956. 322 p. (MIRA 10:2)
(Ships--Maintenance and repair)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

SOBOLEV, Pavel Ivanovich; FENKIN, I.S., retsenzent; KOMOGORTSEV, P.Ya., redaktor; SHLEMNIKOVA, Z.V., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Servicing and repairing injectors] Obsluzhivanie i remont inzhektorov. Izd.2-oe, ispr. i dop. Moskva, Izd-vo "Rechnoi transport," 1957. 77 p. (MIRA 10:7)

(Injectors)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KOMOGORTSEV, P.Ya.

ARISTOV, Yuriy Kapitonovich; POPOV, V.Ya., retsenzent; KOLICHENKO, K.N., retsenzent; KOMOGORTSEV, P.Ya., red.; EBERLIN, K.Z., red. izd-va; TSVETKOVA, S.B., tekhn. red.

[Auxiliary machinery of ships] Sudovye vspomogatel'nye mekhanizmy. Moskva, Izd-vo "Rechnoi transport," 1958. 273 p. (MIRA 11:7)
(Ships—Equipment and supplies)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

KUZOVLEV, Vitaliy Aleksandrovich,; KOMOGORTSEV, P.Ya., red.; POTAPOV, N.S., retsenzent,; KAN, P.M., red. izd-va,; KUZ'MIN, G.M., tekhn. red.

[Steam boilers and engines for river and lake vessels] Rechnye parovye kotly i mashiny. Izd. 3., ispr. i dop. Moskva, Izd-vo "Rechnoi transport." Pt. 1. 1958. 301 p. (MIRA 11:11)
(Marine engines)
(Boilers, Marine)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

FEDOROV, Vasiliy Fedorovich; KOMOGORTSEV, P.Ya., red.; SENNIKOVSKIY, N.M., inzh., retsenzent; POLTAVTSEV, A.Ye., inzh., retsenzent; VITASHKINA, S.A., red. izd-va; YERMAKOVA, T.T., tekhn.red.

[Steam boilers and engines for river vessels] Rechnye parovye kotly i mashiny. Moskva, Izd-vo "Rechnoi transport," Pt.2. 1958. 312 p. (MIRA 12:1)
(Boilers, Marine) (Marine engines)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

VAKULOV, Nikolay Fedorovich; KOMOGORTSEV, P.Ya., red.; GAYDENKOV, V.M., retsenzent; VINOGRADOVA, N.M., red.izd-va; YERMAKOVA, T.T., tekhn.red.

[Heat-power equipment of hoisting and conveying machinery] Teplosilovoe oborudovanie pod"emno-transportnykh mashin. Moskva, Izd-vo "Rechnoi transport," 1959. 226 p. (MIRA 13:3)
(Hoisting machinery) (Conveying machinery)
(Heat engines)

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VYSOTA, Ivan Iosifovich; KORABEL'SHCHIKOV, N.Z., dotsent, kand.tekhn. nauk, retsenzent; NIKIFOROV, G.V., inzh., retsenzent; KOMOGORTSEV, P.Ya., inzh., red.; SHLENNIKOVA, Z.V., red.izd-va; YERMAKOVA, T.T., tekhn.red.

[Marine steam engines] Sudovye parovye mashiny. Moskva, Izd-vo "Rechnoi transport." Pt.1. [Construction and operation] Konstruktsiia i ekspluatatsiia. 1959. 350 p. (MIRA 13:4)
(Marine engines)

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VORONIN, M.A.; DMITROVSKIY, A.N.; KLYUSHENKOV, I.S.; KOMOGORTSEV, P.Ya.; MAYKOV, N.K.; OSIPOV, L.L.; PENKIN, I.S.; SHKURATOV, I.G.; FEDOROV, V.F.; CHERTKOV, Kh.A., red.; EBERLIN, K.Z., red.izd-va; BOBROVA, V.A., tekhn.red.

[Handbook on materials and equipment] Spravochnik po materialam i oborudovaniiu. Moskva, Izd-vo "Rechnoi transport." Vol.2.[Equipment] Oborudovanie. 1959. 607 p. (MIRA 13:3)

(Ships--Equipment and supplies)
(Harbors--Equipment and supplies)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

LAKHANIN, Vladimir Vladimirovich, prof., doktor tekhn.nauk; IKONNIKOV, S.A., dotsent, kand.tekhn.nauk, retsenzent; POTAPOV, N.S., inzh., retsenzent; KOMOGORTSEV, P.Ys., red.; SHLENNIKOVA, Z.V., red. izd-va; YERMAKOVA, T.T., tekhn.red.

[Marine steam engines] Sudovye parovye mashiny. Moskva, Izd-vo "Rechnoi transport," 1960. 342 p. (MIRA 13:10)
(Marine engines)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

VYSOTA, Ivan Iosifovich; KORABEL'SHCHIKOV, N.I., kand. tekhn. nauk, retsenzent; LEKHANIN, V.V., prof., doktor tekhn. nauk, retsenzent; PERVOV, V.M., retsenzent; KOMOGORTSEV, P.Ya., red.; SHLENNIKOVA, Z.V., red. izd-va; BODROVA, V.A., tekhn. red.

[Marine steam machinery] Sudovye parovye mashiny. Moskva, Izd-vo "Rechnoi transport." Pt.2. [Fundamentals of theory and maintenance] Osnovy teorii i ekspluatatsii. 1961. 280 p. (MIRA 14:11)
(Marine engines)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

CHERTKOV, Khaim Ayzikovich; TOMPAKOV, S.L., retsenzent; ALEKSANDROV, V.A., retsenzent; KOMOGORTSEV, P.Ya., red.; KAN, P.M., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Manual for marine boiler and ship hull building and repair workers] Posobie kotel'shchiku-sudokorpusniku. Moskva, Izd-vo "Rechnoi transport," 1963. 204 p. (MIRA 17:1)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824120010-3

RUKAVISHNIKOV, Nikolay Fedorovich; KOMOGORTSEV, P.Ya., red.;
SHLENNIKOVA, Z.V., red.

[Repair of marine low-speed diesels] Remont sudovykh tikhokhodnykh dizelei. Moskva, Transport, 1965. 310 p.
(MIRA 18:12)

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KOMOGORTSEVA, P.K.

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1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR.

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KOMOKHOV, P.G., assistant

Using vibration mills in producing hard silicalcite products. Sbor. LIIZHT no.157:15-24 '59. (MIRA 12:11)
(Building materials) (Crushing machinery)

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