"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, M.G.

Effect of the size of unconditioned food reinforcement on the limit of the working capacity of a cortical cell. Trudy Inst.vys.nerv. deiat. Ser.fiziol. 1:37-45 '55. (MIRA 9:8)

1. Iz laboratorii vegetativnykh uslovnykh releksov, zaveduyushchiy M.A.Usiyevich.
(CONDITIONED RESPONSE)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, M. G.

6850. Dynamics of the blood sugar level in various functional conditions of the highest nervous centres. I. M. G. Airapetiants. Trav. Inst. vizth. nerv. Ukr. Akad. Nauk, S.S.S.R., 1955, 1, 116-139; Referat. Zh. Biol., 1956, Abstr. No. 8[illegible]08.—Changes of blood sugar level were determined in 3 dogs while fasting, and after loading with sugar, during the exertion and over exertion of an internal (differential) inhibition. The exertion of internal inhibition was produced by the gradual establishment of a narrow discrimination between tones of 600 cycles (positive) and 300-[illegible] cycles (negative). In the initial period the establishment of each following narrower stage of dissemination shewed in all the animals not only changes in conditioned reflex activity (inhibition of the previously elaborated discrimination, lowering of the magnitude of positive conditioned reflexes etc.) but also a rise of the fasting blood sugar level, that was the greater, the greater the change of conditioned reflex activity. With completion of the establishment and reinforcement of the discrimination, the fasting blood sugar level returned to the original value, or sometimes fell below it, in which case the fall was the more marked the finer the discrimination established. At the same time there was a lowering of the max. rise of the glycaemic curves. A switching over in error of the discriminated tone on to the positive led to greater or lesser interference with higher nervous activities and coincided in all the animals with a rise of fasting blood sugar level. (Russian)

T. R. PARSONS

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

USSR/Human and Animal Physiology. The Nervous System. V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27442

Author : M.G. Ayrapetyants
Inst : The Institute of Higher Nervous Activity of the Academy of Sciences of the USSR.

Title : The Dynamics of the Blood Sugar Level in Various Functional States of the Higher Divisions of the Central Nervous System. Report 2. The dynamics of the blood sugar level and glycemic curve associated with a disturbance in equilibration of nervous processes in the cerebral cortex of the dog.

Orig Pub: Tr. In-ta vyssh. nervn. deyat-sti AN SSSR. Ser. fiziol., 1956, 2, 223-236.

Abstract: In three dogs with a reinforced sterotype of salivatory feeding reflexes which included discrimina-

Card : 1/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

USSR/Human and Animal Physiology. The Nervous System. V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27442.

of a normal blood sugar level and glycemic curve.
Part I: see Ref. Zhur-Biol., 1956, 83308.

Card : 3/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPET'YANTS, V. G.

"The Greatest Modification of The Activity of the Higher Nerves Can Be Found Three Days After Irradiation."

report presented at the Conference on Influence of Ionizing Radiation upon the Higher Developed Parts of the Central Nerve System, Inst. of Higher Nervous Activity, AS USSR, 8-10 May 1958.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, M.G.

Second conference on the effect of ionizing radiation on the higher segments of the central nervous system. Med.rad 3 no.5:95-96 S-O '58 (MIRA 11:12)

(RADIATION--PHYSIOLOGICAL EFFECT)
(NERVOUS SYSTEM)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

SOV-26-58-9-42/42

AUTHOR: Ayrapetyants, M.G., Candidate of Medical Sciences

TITLE: The Effect of Solar Radiation on the Organism (O deystvii solnechnykh luchey na organizm)

PERIODICAL: Priroda, 1958, 47, Nr 9, pp 127-128 (USSR)

ABSTRACT: The author answers the question of a reader from Leningrad concerning the effect of solar radiation on the human organism. In summing up a detailed survey of individual facts, he concludes that the solar radiation is a powerful means of increasing the general tonus of the organism and its resistance against infectious diseases; it makes possible a better regulation and intensification of the metabolism, especially calcium and phosphorus, and the formation of vitamin D; it has a great antirachitic effect and stimulates the processes of bone formation and regeneration and increases the resistance of the skin against pyogenic infection. It is also pointed out that harmful effects of solar radiation to the human organism are possible and the individual organisms react differently. There are 7 Soviet references.

Card 1/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

The Effect of Solar Radiation on the Organism SOV-26-58-9-42/42

ASSOCIATION: Institut vysshey nervnoy deyatel'nosti AN SSSR, Moskva (Institute of Higher Nervous Activity AS USSR, Moscow)

1. Sun--Radiation 2. Radiation--Physiological effects

Card 2/2

USCOMM-DC-55488

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

SOV/26-58-12-44/44

AUTHOR: Ayrapetyants, M., Candidate of Medical Sciences

TITLE: Is Long-Distance Thought Transmission Possible? (Vozmozhna li peredacha mysley na rasstoyanii)

PERIODICAL: Priroda, 1958, 47, Nr 12, p 128 (USSR)

ABSTRACT: The author replies to a reader's question on the possibility of thought transmission at a distance in the negative. There is 1 Soviet reference.

ASSOCIATION: Institut vysshey nervnoy deyatel'nosti AN SSSR (The Institute of Higher Nervous Activity of the AS USSR)

Card 1/1

USCOMM-DC-60357

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AIRAPETYANTS, M.G.

Dynamics of the blood sugar level in various functional conditions of the higher portions of the central nervous system. Report No.3: Dynamics of the blood sugar in dogs during the development of neurotic condition. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 4:165-171 '60. (MIRA 13:7)

1. Iz Laboratorii vegetativnykh uslovnykh refleksov Instituta vysshey nervnoy deyatel'nosti AN SSSR. Zaveduyushchiy laboratoriyey -- A.A. Pavlovskaya.
(BLOOD SUGAR) (NERVOUS SYSTEM) (CONDITIONED RESPONSE)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, N.G.

Influence of small doses of X rays on the alimentary conditioned reflexes in dogs. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 4:228-235 '60. (MIRA 13:7)

1. Iz Laboratorii radiobiologii Instituta vysshey nervnoy deyatel'nosti AN SSSR. Zaveduyushchiy laboratoriyey - I.A. Piontkovskiy.
(CONDITIONED RESPONSE) (X RAYS--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, M.G.

Local functional diseases of the cortex in dogs. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 5:157-161 '60. (MIRA 13:10)

1. Iz Laboratorii vysshey nervnoy deyatel'nosti zhivotnykh (zav. - A.A. Pavlovskaya) instituta vysshey nervnoy deyatel'nosti.
(LIGHT--PHYSIOLOGICAL EFFECT) (SOUND--PHYSIOLOGICAL EFFECT)
(CONDITIONED RESPONSE) (CEREBRAL CORTEX--DISEASES)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

PIONTKOVSKIY, I.A.; AYRAPETYANTS, M.G.

Effect of small doses of ionizing radiation on internal inhibition in dogs. Radiobiologiia 1 no.2:233-241 '61. (MIRA 14:7)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR, Moskva.
(X RAYS--PHYSIOLOGICAL EFFECT) (INHIBITION)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, M.G., PIONTKOVSKIY, I.A.

"The influence of radiation in the period of embryonic development on the central nervous system."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

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27.1140
27.1220

S/247/62/012/006/006/006
D296/D307

AUTHOR: Ayrapetyants, M.G.

TITLE: The mobility of nervous processes in dogs of differing ages, which had previously been exposed to ionizing radiation in utero

PERIODICAL: Zhurnal vysshey nervnoy deyatel"nosti, v.12, no. 6, 1962, 1055 - 1064

TEXT: Pregnant bitches were exposed to total body radiation by means of a single dose of 200 r. Nine of their puppies were used for the experiments and 9 healthy puppies served as the control group. Conditioned reflexes based on local and general motor responses were established at the age of 2 months and the mobility of the nervous processes was tested by reversing the signals, so that the formerly positive signal now became the negative signal and vice versa. At the age of 1 year the classical alimentary conditioned reflex based on salivation was established and the signals were again reversed. This test was repeated at the age of 1.5 years but now the

Card 1/3

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task was facilitated by the introduction of a regular pattern with the formerly positive, and now negative stimulus always preceding the formerly negative (now positive) stimulus. It had earlier been shown by M.K. Petrova that such regular patterns enabled castrated dogs to cope with complex tasks, normally beyond their capacity. In both the experimental and the control dogs the reflex response to the buzzer underwent 3 consecutive phases. During the initial 'orientation reflex' consisting of a diffuse motor reaction, the response to the positive stimulus became less marked and the dogs were unable to recognize the differential signal, almost completing the reverse response to the signal given. This phase persisted in the irradiated dogs for 2 - 3 days but in the control group it happened only in a single experiment. In the second phase, the response corresponded to the previous, now reversed, meaning of the stimulus applied. This stage lasted 6 - 7 days in the irradiated and only 2 - 3 days in the control dogs. The intensity of the response in the experimental group showed sudden variation, from maximal 'explosions' to complete apathy or sleepiness, suggestive of a task outside the limits of the animals' capacity. The beginning of the third phase was marked by the first correct response to the new meaning of the reversed



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stimulus. This occurred after 8 - 9 days in the experimental group and after 3 - 4 days in the control group. In the latter group complete reversal was achieved, i.e. every stimulus was followed by the new, correct response. This could never be achieved in the irradiated dogs. The findings were the same for all age groups in question. Dogs irradiated in utero thus seem to possess less labile nervous systems. This refers above all to the inhibitory process, which explains the pathological lability of the excitatory process. There are 5 figures and 3 tables.

ASSOCIATION: Laboratoriya neyroradiologii Instituta vysshey nervnoy deyatel'nosti i neyrofiziologii Akademii nauk SSSR (Laboratory of Neuroradiology, Institute of Higher Nervous Activity and Neurophysiology, Academy of Sciences, USSR)

SUBMITTED: May 28, 1962



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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AIRAPETYANTS, M.G.; IVANITSKIY, A.M.

"Effect of ionizing radiations on the nervous system" by A.V. Lebedinskii, Z.N. Nakhil'nitskaia. Reviewed by M.G. Airapetiants, A.M.Ivanitskii. Pat. fiziol. i eksp. terap. 7 no.2: 94-95 Mr-Ap'63. (MIRA 16:10)

(RADIATION—PHYSIOLOGICAL EFFECT)
(NERVOUS SYSTEM)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, M.G.

On typological features of higher nervous activity in dogs subjected to ionizing radiations in the fetal period of antenatal development. Zh. vyssh. nerv. delat. Pavlov 13 no.3: 511-520 '63. (MIRA 17:9)

1. Laboratoriya neyroradiologii Instituta vysshey nervnoy deyatel'nosti i neyrofiziologii Akademii nauk SSSR.
(CENTRAL NERVOUS SYSTEM) (PHYSIOLOGY)
(FETUS) (RADIATION EFFECTS)
(REFLEX, CONDITIONED)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

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S/219/63/055/001/001/005
D292/D308

AUTHORS: Piontkovskiy, I.A. and Ayrapetyants, M.G.

TITLE: Some characteristics of the higher nervous activity of animals exposed to ionizing radiation *in utero*. V. Characteristics of the higher nervous activity in early post-natal ontogenesis in puppies irradiated during embryonic development

PERIODICAL: Byulleten' eksperimental'noy biologii i meditsiny, v. 55, no. 1, 1963, 26 - 31

TEXT: Six bitches were totally irradiated with 200 r x rays on the 20th or 45th day of pregnancy or were left untreated. Puppies from irradiated bitches showed a number of vegetative nervous disorders from the first days of life, pulse and respiration rates increased, and urination, defecation and regurgitation were frequent. Development was uneven and retarded in all but 1; the variation in weight between individuals was

Card 1/3

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of internal inhibition, were more marked in those irradiated on the 45th day *in utero*.

ASSOCIATION: Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR, Moscow (Institute of Higher Nervous Activity and Neurophysiology of the AS USSR), Moscow

PRESENTED: by V.V. Parinyy, Member of the AMS USSR

SUBMITTED: March 13, 1962



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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

PANKRATOV, M.A.; YAROSLAVTSEVA, O.P.; AYRAPETYANTS, M.G.

Book reviews. Zhur. vys. nerv. deiat. 15 no.5:953-954 S-O '65. (MIRA 18:11)

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L 33327-66 EWT(m)/EWP(j) RM

ACC NR: AP6012108 SOURCE CODE: UR/0413/66/000/007/0014/0014

10
B

INVENTOR: Sokolovskiy, M. A.; Ayrapetyan, S. G.; Lagunova, V. N.

ORG: none

TITLE: Preparation of N-phenyl-Beta-aminoethyl Beta-chloroethylphenylphosphinate

Class 12, No. 180192

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 14

TOPIC TAGS: phosphinate ester, organophosphorus compound

ABSTRACT: An Author Certificate has been issued describing a method of preparing N-phenyl-Beta-aminoethyl Beta-chloroethyl phenylphosphinate. N-phenylethanolamine is treated with Beta-chloroethylphenyl phosphinoyl chloride in dichloroethane with heating. The solvent is subsequently removed by distillation. The reaction product, N-phenyl-Beta-aminoethyl Beta-chloroethylphenylphosphinic acid hydrochloride is dried, treated with sodium ethoxide in absolute ethanol, filtered, and reduced by evaporation. [LD]

SUB CODE: 07/ SUBM DATE: 19Jun64

UDC: 547.26'.118.07
UDC: 678.699:678.85

Card 1/1 ULR

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPET'YANTS, S.Sh.

Expansion of the assortment of textile and dry goods. Tekst. prom. 21 no. 4:29-32 Ap '61. (MIRA 14:7)

1. Direktor TSentral'noy nauchno-issledovatel'skoy laboratorii tekstil'no-galanteynoy promyshlennosti Upravleniya tekstil'noy i trikotazhnoy promyshlennosti Mosgorsovnarkhoza.
(Dry goods) (Textile fabrics)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, S.V.

7

Increase in the effectiveness of semiconductor thermocouples. A. V. Ioffe, S. V. Airapetiants, A. V. Ioffe, N. V. Kolomoets, and L. S. Stil'bans. *Soviet Phys. "Doklady"* 1, 132(1950)(English translation).—See *C.A.* 51, 841a.

B. M. R.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, S.V.

537.324

8216. ON INCREASING THE EFFICIENCY OF SEMI-CONDUCTING THERMOCOUPLES. A.F.Ioffe, S.V.Airapetyants, A.V.Ioffe, N.V.Kolomoets and L.S.Stil'bans. Dokl. Akad. Nauk SSSR. Vol. 108, No. 6, 971 (1956). In Russian.

Consideration of semiconductors in thermo-electric generators and refrigerators leads to three requirements: (1) discovery of materials with a high ratio of electrical carrier mobility to lattice thermal conductivity, (3) carrier concentrations which will result in the optimum thermal e.m.f. of ±200 μV/degree, (3) further increasing the above ratio in these materials. This might be done by making a binary material using a second element as an impurity which crystallizes in the same system as the first in such a way that the electrical mobility is little affected but the thermal conductivity is reduced.

W.Hardsley

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AUTHOR: AYRAPETYANTS, S.V. PA - 2536

TITLE: Thermo-e.m.f. and Additional Thermo-Conductivity of Statistical Muxtures. (Termoelektrodvizhushchaya sila i dobavochnaya teploprovodnost' statisticheskoy smesi, Russian)

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 3, pp 478 - 483 (U.S.S.R.)
Received: 4 / 1957 Reviewed: 5 / 1957

ABSTRACT: Joffe stated in his papers (1950, 1956, Academy of Science of the U.S.S.R.) that the efficiency of the thermoelectric generator or the cooling-coefficient of the thermo-electric cooler is determined by the operation-temperature and the quantity Z which depends on the thermoelectric properties of the semi-conductors used for the thermo-elements.

$Z = \frac{\alpha^2 \sigma}{\varkappa}$, here $\alpha$ denotes the coefficient of thermo-electromotoric force, $\sigma$ the specific electric-conductivity, $\varkappa$ the specific heat conductivity. A maximum of Z is obtained in the case of a certain value $\alpha_{opt} \simeq 200$ $\mu$V/grade, $\alpha$, however, reaches an optimum value in the case of corresponding admixtures which regulate the number of current-carriers. The compressed tablets used for the thermo-elements are a statistical mixture, i.e. the particles of the various phases are chaotically distributed and have different $\alpha$, $\sigma$ and $\varkappa$. Odelevskiy's method is used here for the calculation of thermo-emf. The spherical particle of the

Card 1/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

Thermo-emf and Additional Thermo-Conductivity of Statistical Mixtures. PA - 2536

phase i is investigated and it is assumed that it is surrounded by a homogeneous substance whose thermo-electric parameters are equal to those of the mixture and thus equal to the required quantities. It is assumed that $\sigma$ and $\chi$ are known. Spherical coordinates are introduced and the conditions for the circulation-currents are written down. The potential-difference for two points is determined which are at the interjection of the sphere-surface with the straight parallel axis Z. For the determination of the amount of the thermo-emf of the model one moves along Z and summates all potential differences of all spheres which are intersected by the straight line z. Finally the coefficient $\alpha$ is obtained. Corrections for heat-conductivity i.e. the increase of heat-conductivity by the Peltier-effect are then computed and a sample shows how z can be reduced in the mixtures. Annealing of the tablets leads to an increase of z. (2 illustrations)

ASSOCIATION: Institute for Semiconductors of the Academy of Science of the U.S.S.R., Leningrad

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

57-9-33/40

AUTHOR: Ayrapetyants, S.V., Yefimova, B.A., Stavitskaya, T.S., Stil'bans, L.S., Sysoyeva, L.M.

TITLE: On the Mobility of Electrons and Holes in Solid Solutions Obtained on the Basis of PbTe and $Bi_2Te_3$

(O podvizhnosti elektronov i dyrok v tverdykh rastvorakh, poluchennykh na osnove telluridov svintsa i vismuta)

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 9, pp. 2167 - 2169 (USSR)

ABSTRACT: On the strength of the facts mentioned here it may be said that in all investigated cases the electrons move along the sublattice of the cathions and the holes move along the anion sublattice. Expressed in terms of quantum mechanics this means that the modulated amplitude of the wave function of electrons moving in the conduction zone attains its maximum values near nodes occupied by positive ions, while its lowest are attained near the negatively charged nodes. For holes in a nearly completely filled zone the opposite is the case. Therefore electron mobility is considerably reduced by the distortions of the "positive sublattice", and hole mobility is considerably reduced by those of the "negative sublattice". Furthermore, the conclusion is drawn that, if it is intended to reduce the heat conductivity

Card 1/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

57-9-33/40

On the Mobility of Electrons and Holes in Solid Solutions Obtained on the Basis of PbTe and $Bi_2Te_3$

of a compound destined to be used as material for the positive thermoelement branch without thereby reducing the mobility of holes, it is necessary partly to replace the cathions in the lattice. On the other hand, the anions must be replaced in the material used for the negative branch. There are 4 figures and 8 Slavic references.

ASSOCIATION: Institute for Semiconductors, Leningrad (Institut poluprovodnikov, Leningrad)

SUBMITTED: June 24, 1957

AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AUTHORS: Ayrapetyants, S. V., Yefimova, B. A. SOV/57-58-8-26/37

TITLE: Thermoelectrical Properties and the Nature of Bonds of the System $Bi_2Te_3 + Sb_2Te_3$ (Termoelektricheskiye svoystva i kharakter svyazey sistemy $Bi_2Te_3 + Sb_2Te_3$)

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1958, Nr 8, pp 1768-1774 (USSR)

ABSTRACT: On account of an analysis of the structure of $Bi_2Te_3$, $Bi_2Se_3$, and $Sb_2Te_3$ the conclusion was drawn that three types of binding exist in $Bi_2Te_3$ and in the alloy $Bi_2Te_3 + Sb_2Te_3$: An ion-, a covalent and a weak residual binding. As proceeds from evidence presented in reference 5 the electron conductivity proceeds along the Bi layers, in $Bi_2Te_3$ as well as in the solid solution $Bi_2Te_3 + Sb_2Te_3$.

This means that the zone of conductivity is formed by superimposed excited levels of the Bi-atoms, whereas the holes propagate along the Te layers. In such a conductivity scheme the mobility of electrons must be reduced and that of the

Card 1/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

Thermoelectrical Properties and the Nature of Bonds of the System $Bi_2Te_3 + Sb_2Te_3$ SOV/57-58-8-26/37

holes must vary slightly if the Bi-atoms are partly substituted by Sb-atoms. The experiments confirmed this hypothesis. (Ref 5 is still in the press). This is a study of the thermoelectrical properties of polycrystalline samples. The development of an ordered (uporyadocheniye) state was found in the solid solution with a composition of the samples of $1/3\ Bi_2Te_3 + 2/3\ Sb_2Te_3$ and $2/3\ Bi_2Te_3 + 1/3\ Sb_2Te_3$. As an attachment a method is presented for determining the width of the forbidden zone according to the measured thermo e.m.f. Since this method yields the total value of the thermal activation energy at the measured temperature and permits to determine the width of the forbidden zone $\Delta E$ in substances with a narrow forbidden zone this method is very convenient. Still this method exhibits great shortcomings: 1) It requires to provide a series of samples with different carrier concentrations of either sign with a near-stoichiometric composition. 2) The production of samples with an near $\alpha_{max}$ at $\Delta E > 0,3$ eV proves to be difficult, (as a homogeneous sample

Card 2/3

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with a low carrier concentration is required). The constant supervision of the work and the suggestions made by L.S. Stil'bans are acknowledged by the authors.
There are 6 figures, 2 tables, and 11 references, 6 of which are Soviet.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors, AS USSR, Leningrad)

SUBMITTED: November 4, 1957



APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AUTHOR: [illegible] SOV/[illegible]-7/33

TITLE: Fluctuations of the Carrier Density in Semiconductors (Fluktuatsiya plotnosti nositeley v poluprovodnikakh)

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1958, Vol 28, Nr 9, pp. 1913-1916 (USSR)

ABSTRACT: This is a report of the investigation of "frozen" carrier density fluctuations in semiconductors which are caused by fluctuations in the distribution of the donors $N_d$ and the acceptors $N_a$ not in thermodynamical equilibrium. Both donors and acceptors are present in about the same quantity. The formula describing the volume concentration of the fluctuations c has been derived $c \simeq \frac{1}{a} e^{-a^2}$, with $a = \frac{1}{7}\left(\frac{21}{\pi}\right)^{1/4} n^{1/4} N^{-1/2} \left(\frac{\varepsilon \Delta\mu}{e}\right)^{3/2}$, and where $\Delta\mu$ denotes the displacement of the level of the chemical potential in the range of the fluctuations expressed in terms of potential units. $n = |N_a - N_d|$, $N \simeq N_a \simeq N_d$, where $\varepsilon$ denotes the dielectric constant. The linear dimensions of the fluctuations are given by $L \simeq 10^3 \left(\frac{\Delta\mu\varepsilon}{n}\right)^{1/2}$. It is emphasized that fluctuations

Card 1/3

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can also be produced by other causes, apart from the simultaneous injection of donors and acceptors into the semiconductor. This may be the existence of defects in the crystal lattice as for example in a semiconductor of binary compounds of an AB type. The defects, however, must comply with the following conditions: 1) Atom A in the site B and atom B in the site A produce current carriers with different sign. 2) The domain with an empty site A and the domain with an empty site B either produce carriers with a different sign or no carriers at all. If in this process no defects represented by ions in interstitial sites are generated the number of donor defects will be equal to the number of acceptor defects in a semiconductor with stoichiometrical composition. This means that the occurrence of fluctuations is possible. Such fluctuations can come into being at high temperatures. They are maintained for a certain length of time t after cooling or after annealing the semiconductors: $t \simeq \frac{L^2}{D} \simeq 10^{-5} \div 10^{4}$ sec, where L denotes the linear dimensions of the fluctuations and D the diffusion coefficient of the defects. There are 1 figure and 1 table.



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Fluctuations of the Carrier Density in Semiconductors SOV/[illegible]

ASSOCIATION: Institut poluprovodnikov Leningrad (Institute of Semiconductors Leningrad)

Card [illegible]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AUTHORS: Agrapetyants, S. [illegible], Bresler, [illegible] [illegible]-28-[illegible]-11/3[illegible]

TITLE: Thermoelectromotive Force and the Additional Heat Conductivity of Heterogeneous Systems (Termoelektrodvizhushchaya sila i dobavochnaya teploprovodnost' geterogennykh sistem)

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1958, Vol 28, Nr [illegible], pp. 1935-1938 (USSR)

ABSTRACT: The paper under review reports on the investigation of a polycrystalline sample which consists of anisotropic crystals. The thermoelectric properties of these crystals are determined by the principal terms of the tensor of the thermo e.m.f., of the tensor of the specific electric conductivity and of the tensor of heat conductivity. The crystals are assumed not to be under extension stress. In the computation they are replaced by equivalent spheres. In this paper the method of Odelevskiy (Ref [illegible]) is used. A computation is made of the coefficient of the thermo e.m.f. of the polycrystal, of the increase of heat conductivity caused by the heterogeneities of the thermoelectric properties and of the coefficient of [illegible] the matrix system. This is done for the case of small concentrations of the matrix phase and of small concentrations of the impurities. In ref-

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SOV/51-2-3-11/33

Thermoelectromotive Force and the Additional Heat Conductivity of Heterogeneous Systems

erence 1 the coefficient of the thermo e.m.f. of a statistical mixture was computed. In this study the coefficients of two other types of a heterogeneous system are computed: of a polycrystal and of a matrix system. A heterogeneous system is specified as matrix system if one of the phases is a unitary (uniform ?) matrix, (into which the particles of the other phase (impurity) are interspersed, which are always separated by a matrix phase). B. Ya. Moyzhes assisted in the work. There are 2 figures and 3 references, 3 of which are Soviet.

AUTHOR: Institut poluprovodnikov, Leningrad (Institute of Semiconductors, Leningrad)

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, S.V.; BRESLER, M.S.

Four-probe method for measuring anisotropic electic conductivity in semiconductors. Fiz.tver.tela 1 no.1:152-153 Ja '59. (MIRA 12:4)

(Semiconductors)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, S. V., Cand Phys-Math Sci -- (diss) "Thermoelectric properties of heterogeneous systems based on tellurides of antimony and bismuth." Leningrad, 1960. 14 pp; (Academy of Sciences USSR, Leningrad Physicotechnical Inst); 250 copies; free; (KL, 31-60, 140)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, S.V.; SHMELEV, G.I.

Method of growing uniform single crystals of doped semiconducting materials, solid solutions, and intermetallic compounds with a definite composition, determined by the constitution of the melt. Fiz. tver. tela 2 no.4:747-755 Ap.'60. (MIRA 13:10)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Crystals)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

S/030/61/000/003/007/013
B105/B215

AUTHOR: Ayrapetyants, S.V.

TITLE: Thermoelectric properties of semiconductors

PERIODICAL: Vestnik Akademii nauk SSSR, no. 3, 1961, 108

TEXT: In the Institut poluprovodnikov Akademii nauk SSSR (Institute of Semiconductors of the Academy of Sciences USSR) a conference on thermoelectric properties of semiconductors took place from December 13, to 17, 1960. In the opening speech, A.R. Regel' characterized the main tasks in the development of thermoelectricity. Physical problems of thermoelectricity and ways of increasing the efficiency of substances as thermocouples were studied in a report by A.F. Ioffe (Deceased), L.S. Stil'bans, B.Ya. Moyzhes, and Ye.D. Devyatkova. The formation of solid solutions was shown to be a suitable method for reducing the thermal conductivity of substances, especially if the masses of the atoms forming the solid solutions, do not differ much. The efficiency of a thermoelectric generator can be increased by a coordination of the current of cold and hot sections

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ty have considerably expanded during the last years. The work of a number of institutions was mentioned as being of great importance to a further increase in the efficiency of heatgenerators.



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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, S.V.

Direction of the maximum thermoelectric efficiency in monoaxial crystals. Fiz. tver. tela 3 no.9:2856-2867 S '61. (MIRA 14:9)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Thermoelectricity) (Crystals)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

L 29776-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6015069 (A) SOURCE CODE: UR/0363/66/002/005/0855/0863

63

AUTHOR: Neshpor, V. A.; Ayrapetyants, S. V.; Ordan'yan, S. S.; Avgustinik, A. I.

ORG: State Institute of Applied Chemistry (Gosudarstvennyy institut prikladnoy khimii); Institute of Semiconductors, AN SSSR (Institut poluprovodnikov AN SSSR); Leningrad Technological Institute im. Lensovet (Leningradskiy tekhnologicheskiy institut)

TITLE: Effect of the chemical composition of group IV and V transition metal monocarbides in the region of homogeneity on the temperature dependence of their resistivity and thermal emf

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 5, 1966, 855-863

TOPIC TAGS: carbide, zirconium carbide, vanadium compound, niobium compound, tantalum compound, thermal emf, resistivity, transition element, temperature dependence, chemical composition, electron structure

ABSTRACT: Continuing their study of the electronic structure of group IV and V transition metal monocarbides, the authors investigated the temperature dependence of the electrical resistivity and absolute differential thermal emf of zirconium,

Card 1/2 UDC: 546.261:669.018.5

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

L 46929-66 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6015447 (N) SOURCE CODE: UR/0181/66/008/005/1336/1340

AUTHOR: Ayrapetyants, S. V.; Vinogradova, M. N.; Dubrovskaya, I. N.; Kolomoyets, N. V.; Rudnik, I. M.

ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR)

66
63
B

TITLE: Structure of the valence band of highly alloyed lead telluride

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1966, 1336-1340

TOPIC TAGS: valence band, telluride, thermal emf, carrier density

ABSTRACT: An attempt is made to determine quantitatively the parameters of the valence band by studying the electrical properties of highly alloyed lead telluride. The electrical properties of p-type lead telluride, having carrier concentrations of $2 \cdot 10^{18}$ to $1.4 \cdot 10^{20}$ $cm^{-3}$ (according to the Hall effect), are studied. The energy gap between the two valence zones is calculated, and the effective mass of heavy holes is determined. The temperature dependence of the thermal emf is used to determine the variation in the gap as a function of temperature. As temperature increases, the gap decreases ($\Delta E = \Delta E_0 - \alpha$), where $\alpha = 2 \cdot 10^{-4}$ ev/deg. Results, which are considered as interim, show that the valence zone structures of highly alloyed tellurides of lead, germanium, and apparently tin as well, are similar. Comparison with the results of

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, Yu.R.; SEVAST'YANOV, S.I., redaktor; PIMCHENKO, S.I., tekhnicheskiy redaktor

[Lengthening the interval between repairs in well operation; based on the practice of the "Starogroznoft'" trust] Uvelichenie mezhremontnogo perioda raboty skvazhin; iz opyta tresta "Starogroznoft'." [Groznyi] Groznenskoe kn-vo, 1953. 39 p. [Microfilm] (MLRA 10:4)
(Oil well drilling)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, Ye.P.

Methods of increasing petroleum production. Neftianik 1 no.4: 21-22 Ap '56. (MLRA 9:10)

1. Ratsionalizatsiya neftepromyslovog upravleniya Starogrozneft'. (Petroleum industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRAPETYANTS, Ye. P.

112-1-893

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 143 (USSR)

AUTHOR: Ayrapetyants, Ye. P.

TITLE: Automat for the Disconnection of Compressor Electric Motors when Technical Operating Conditions are Disturbed (Avtomat dlya otklyucheniya elektrodvigateley kompressorov pri narushenii tekhnologicheskogo rezhima)

PERIODICAL: Novosti neft. tekhn. Neftepromysl. delo, 1956, Nr 2, pp. 22-23

ABSTRACT: In the circuit of the automatic machine there are 2 potentiometers of the СП -6 type, each of them servicing 6 compressors, one the first stage of compression, the other the second stage, with the placing of a thermocouple on every stage of each compressor. The following items are placed in the potentiometer: a 6-way switch set in motion from the carriage shaft, 6 signal lamps, 2 relays of the ЭМ-101 type, and 2 contacts on a scale: one for setting up a given operating condition, the other, which is movable, for fixing the temperature. If on any stage of any one of the compressors the temperature exceeds the permissible one, the potentiometer switch of this stage will take the position corresponding to the number of the compressor and the potentiometer slider will move along the scale up to the point of the terminal tempera-

Card 1/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRBAYEV, B. A.

"The Penicillin Therapy of Pneumonia During Dysentery in Young Children." Cand Med Sci, Kazakh State Medical Inst imeni V. M. Molotov, Alma-Ata, 1955. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

USSR/Human and Animal Physiology. The Nervous System T-12

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65735

Author : Ayrikyan Ye.A.
Inst :
Title : Conditinned-Reflex Activity in Dogs Subjected to Barbiturate Narcosis

Orig Pub : Zh. Vyssh. nervn. deyat-sti, 1957, 7, No 1, 92-102

Abstract : After pentothal and hexenal narcosis lasting ½ to 1 hour, a decreased level of conditioned food-salivatory reflexes was noted in dogs. Sequential inhibition and disturbance in differentiation disappeared later than the reduction in the level of positive conditioned reflexes, as fact which reflects a greater effect of narcosis on the process of inhibition. The changes were confined to a period of 1 to 6 days and depended upon the type of higher nervous acitivity. --T.G. Veteleva

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIKYAN, Ye.A.; GASKE, O.D.

Electrical activity of the hippocampus. Fiziol. zhur. 51 no.1:105-110 Ja '65. (MIRA 18:7)

1. Kafedra normal'noy fiziologii Meditsinskogo instituta imeni Pirogova, Odessa.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYAN, A. P., Cand Med Sci -- (diss) "Some complications and secondary actions in antibioticotherapy." Yerevan, 1960. 20 pp; (Yerevan State Medical Inst, Chair of Factual Surgery); 200 copies; price not given; (KL, 22-60, 143)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYAN, A.P.

Spreading medical knowledge through a rural museum of public health. Med. sestra 19 no.11:38-39 N '60. (MIRA 13:11)
(ARMENIA--HEALTH EDUCATION)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYAN, A.P. (selo Armash Armyanskoy SSR)

Side effect of antibiotics. Fel'd. i atush. 25 no.2:29-31 F '60. (MIRA 13:5)

(ANTIBIOTICS--TOXICOLOGY)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYAN, A.P.

Multiaperture injection needle for local infiltrative anesthesia. Eksper. khir. i anest. 8 no.4:89-90 Jl-Ag '63. (MIRA 17:5)

1. Armashskaya sel'skaya bol'nitsa Vedinskogo rayonna ArmSSR.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYAN, S.P. (selo Armash)

Some results of work at the Armash rural medical district. Sov. zdrav. 20 no.7:59-62 '61. (MIRA 15:1)
(ARMASH (ARMENIA)--PUBLIC HEALTH, RURAL)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYANTS, A., inzhener; SILAYEV, A., kandidat tekhnicheskikh nauk.

Casting parts in shell moulds. Mor.flot 15 no.4:20-22 Ap '55. (MIRA 8:5)
(Founding)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYNIYANTS, [illegible]; [illegible], V.V.; [illegible], [illegible]

Crushing the cuttings between the body of a [illegible] and the cell walls. Izv. vys. uchebn. zav.; neft' i gaz [illegible] no.[illegible]: 37-41 '65. (MIRA 18:[illegible])

1. Moskovskiy institut neftekhimicheskoy i gazovoy [illegible] im. Akademika I.M. Gubkina.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

ATRIYANTS, A., inzhener

The operations of a cupola furnace with double tuyere. Mor.flot 15 no.9:30-31 S'55. (MLRA 8:11)

(Cupola furnaces)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYANTS, A. A.

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1

Distr: 4E2c

18

Heat Resisting Cast Irons for Casting Furnace Accessories. A. F. Silaev and A. A. Ariyants. (Liteinoe Proizvodstvo, 1956, (2), 28-29). (In Russian). The compositions and properties of some alloy cast irons for high temperature service in furnace structures are discussed. A silicon iron alloyed with chromium is recommended and directions for its production are given.—S. K.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

AYRIYANTS, A.S.; MITEL'MAN, B.I.; ROZENBERG, G.D.; SHUMILOV, L.P.

Removing well cuttings from the well bottom zone in turbine drilling. Neft.khoz. 41 no.10:19-22 O '63. (MIRA 17:4)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

6(4) SOV/111-59-3-13/26

AUTHOR: Ayriyev, A.S.

TITLE: Observance of the Centennial of A.S. Popov's Birthday in Countries of the Socialist Camp (Stoletiye so dnya rozhdeniya A.S. Popova otmechayetsya v stranakh sotsialisticheskogo lagerya)

PERIODICAL: Vestnik svyazi, 1959, Nr 3, p 19 (USSR)

ABSTRACT: This article notes some of the events in connection with observance of the centennial of A.S. Popov's birth in several of the countries of the socialist camp, i.e. China, Czechoslovakia, Rumania, Poland, Bulgaria, and the GDR. Some indication of the condition of the radio industry in many of these countries is given. Specific items are as follows: the Scientific-Research Institute of Communications Engineering of the Academy of Sciences in the Czechoslovakian Republic was named after Popov last fall, and his daughter, Ye.A. Popova-K'yandskaya, attended the opening of an exhibition at the Institute, devoted to the life and work of the scientist. Director

Card 1/3

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SOV/111-59-3-13/26

Observance of the Centennial of A.S. Popov's Birthday in Countries of the Socialist Camp

of the Institute, Rada, observed in a speech, that one of the principle problems at present is the development of color television. A festive session of the Academy of Sciences of the Rumanian Republic is being held in Bucuresti. Two Soviet books, translated into Rumanian, "Radio Reception and Operation of the Radio Receiver" by N.I. Chistyakov, and "Radio Engineering for the Amateur" by I.P. Zherebtsov, are mentioned. The following Soviet books, in Polish translation, have appeared in Poland: "Popov - the Inventor of Radio" by D. Belov; "The Birth of Radio" by F. Chesnov; "From the History of Inventions" by V. Danilevskiy. During the Polish-Soviet friendship month the society "Pol'skaya Elektrika" (SEP) is organizing a series of lectures on Popov and his inventions, and the development of Soviet radio engineering. In Bulgaria the author notes that 1,700

Card 2/3

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ANTONOV, Mikhail Vasil'yevich; DZHAFAROV, Abdulla Fataliyevich; VOLKOV, Yevgeniy Nikitich; SABUROV, N.V., prof., retsenzent; SKROBANSKIY, G,G., prof., retsenzent; RUKOSUYEV , A.N., red.; SINEL'NIKOVA, TS.B., red.; AYRIYEVA, N.S., red.; TERYUSHIN, M.I., tekhn. red.

[Commercial guide to food products; vegetables and fruit]Tovarovedenie prodovol'stvennykh tovarov; ovoshchi i plody. Pod red. A.N.Rukosueva. Moskva, Gostorgizdat, 1962. 400 p. (MIRA 16:1)

(Vegetables) (Fruit)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

VYSHCHEPAN, Aleksandr Georgiyevich; MEL'MAN, Mikhail Yevdokimovich; NAZAROV, Boris Aleksandrovich; AYRIYEVA, N.S., red.; TERYUSHIN, M.I., tekhn. red.

[Commercial study of vegetables, fruit and vine]Tovarovedenie ovoshchei, plodov i vina. Izd.2., perer. Moskva, Gostorgizdat, 1963. 303 p. (MIRA 16:4)
(Vegetables) (Fruit) (Wine and wine making)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

MONTITSKIY, R.I.; VASILISHINA, M.S.; YEVSTAF'YEVA, R.G.; AYRIYEVA, N.S., red.; MAMONTOVA, N.N., tekhn. red.

[Packing materials for the packaging of food products] Upakovochnye materialy dlia rasfasovki prodovol'stvennykh tovarov. Moskva, Gostorgizdat, 1963. 82 p. (MIRA 17:2)

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DANILOV, Matvey Maksimovich; SUKHANOVA, Ye.Yu., kand. tekhn. nauk, retsenzent; AZAROV, V.N., st. prepod., retsenzent; LAZAREV, Ye.N., dots., retsenzent; AYRIYEVA, N.S., red.; VOLKOVA, V.G., tekhn. red.

[Commercial study of food products; meat and meat products] Tovarovedenie prodovol'stvennykh tovarov; miaso i miasnye tovary. Moskva, Izd-vo "Ekonomika," 1964. 230 p. (MIRA 17:3)

1. Nauchno-issledovatel'skiy institut torgovli i obshchestvennogo pitaniya (for Sukhanova). 2. Zaochnyy institut sovetskoy torgovli Ministerstva torgovli RSFSR (for Azarov). 3. Leningradskiy institut sovetskoy torgovli im. Fr.Engel'sa (for Lazarev).

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LYUBICH Mikhail Galileyevich; AYZIYEVA, N.S., red.

[Commercial study of shoes] Tovarovedenie obuvi. Izd.2. perer. Moskva, Ekonomika, 1964. 266 p. (MIRA 18:1)

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DZHAFAROV, Abdulla Fataliyevich; AYRIYEVA, N.S., red.

[Rare vegetables] Malorasprostranennye ovoshchi. Moskva, Ekonomika, 1964. 75 p. (MIRA 18:1)

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KOLESNIK, A.A., prof.; GRYUNER, V.S., prof.; BAKZEVICH, D.D., dots.; ZABOLOTSKIY, M.S., dots.; OCHEVA, O.K., dots.; SMIRNOVA, N.A., dots.; SMOL'SKIY, N.T., kand. tekhn. nauk, prepod.; AYRIYEVA, N.S., red.

[Study of food products] Tovarovedeniye prodovol'stvennykh tovarov. [By] A.A.Kolesnik i dr. Moskva, Ekonomika, 1965. 607 p. (MIRA 18:7)

1. Moskovskiy institut narodnogo khozyaystva im. G.V. Plekhanova (for all except Ayriyeva).

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AYRUMOV, Arsen Mikhaylovich, kandidat ekonomicheskikh nauk; YEZHIKOVA, V.A., redaktor; DEMIDOVA, L.F., tekhnicheskiy redaktor

[Analyzing the economic aspects of cotton growing collective farms] Analiz khozyaistvennoi deiatel'nosti khlopkovodcheskogo kolkhoza. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1955. 181 p. (MLRA 9:8)
(Collective farms) (Cotton growing)

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AYRUMOV, A.M., kand.ekonom.nauk, otv.red.; BEZRODNOV, N.A., kand.ekonom. nauk, otv.red.; SAPIL'NIKOV, N.G., kand.ekonom.nauk, otv.red.; RAYEVSKIY, L.A., red.; SALAKHUTDINOVA, A., tekhn.red.

[Economic and organizational aspects of socialist agricultural enterprises; textbook] Ekonomika i organizatsiia sotsialisticheskikh sel'skokhoziaistvennykh predpriiatii; uchebnoe posobie. Otv.red. A.M.Airumov, N.A.Bezrodnov, N.G.Sapil'nikov. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1960. 189 p. (MIRA 14:2)

(Uzbekistan--Agriculture)

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AYRUMOV, A. M.

CA

**New areometer of Mikhailov for measuring the specific gravity of mud fluid.** A. M. Airumov. *Neftyanoe Khoz.*, 25, No. 5, 28(1947).—The areometer consists of a tinplate tube 65 mm. in diam. and 305 mm. high closed at one end and having an iron disk with a circular hole at the other end. A calibrated scale is attached to the tube on the outside for reading off the sp. gr. after the tube has been filled with a 400-cc. sample of the mud and placed in inverted position in a pail of clean water. It can be used with muds up to 2.5 sp. gr., the error being about 0.01 with muds up to 2.0 sp. gr., the error being about 0.01 0.02.

Bruno C. Metzner

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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AYRUMOV, A. M., KHARIK, V. F.

Geology

"Retrieving Tools in the Exploitation and Repair of Petroleum Wells", Gostoptekhizdat, 1948

Summary No. 60, 26 May '52, BR 52056899

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AYRUMOV, A.M.; KONSTANTINOV, L.P., redaktor; MURATOVA, V.M., veduschiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor.

[Core bits for rotary drilling] Kolonkovye dolota dlia vrashchatel'nogo bureniia. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1953. 95 p. [Microfilm] (MLRA 7:10)

(Boring machinery)

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AYRUMOV, A.M., DZHAFAROV, A.A., KHARIK, V.F.

Fishing Tools and Appliances Employed During Exploitation and Major Overhaul of Oil Wells. Gostoptekhizdat, 1954, 76p, price: rubles 2.40. In the book is described the construction, principles of operation, preparation for operation, and care and repair of the basic fishing tools and accessory equipment used in the exploitation and overhaul of oil wells. The book is designed for engineers, technicians, and those employed in the physical operations and bureaus, concerned with major overhaul.

So: A-3080689

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AYRUMOV, A.N.

The SBS-2 double-deck vibrating screen. Biul.tekh.-ekon.inform. no.5:10-11 '59. (MIRA 12:8)
(Oil fields--Equipment and supplies)

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AYRUMOV, A M; V. A. BEZRODNOV; N. G. SAPIL'NIKOV.

The Economics and Organization of Socialist Agricultural Enterprises, Responsible Editors: A. M. Ayrumov, V. A. Bezrodnov, and N. G. Sapil'Nikov. Washington, U.S. JPRS, 1961.

145 p. (JPRS: 8934;CSO: 6287-D/A)

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AYRUMYAN, A.P.

Prospects for the organization and development of the feed yeast industry in the Armenian S.S.R. Izv.AN Arm.SSR.Biol.i sel'khoz. nauki. 2 no.1:71-80 '49. (MLRA 9:8)

1. Institut zhivotnovodstva Akademii nauk Armyanskoy SSR. (ARMENIA - YEAST)

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AYRUMYAN, K.

Ayrumyan, K., Khrimlyan, S.I. and Shakhbazyan, M.A. "The economics of Arzni-Shamiram irrigation" (On the plan for agricultural reconstruction of the area), Izvestiya (Akad. nauk Arm.SSR), Obshchestv. nauki, 1948, No. 11, p. 3-32

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GAMBARYAN, P.P.; KARAPETYAN, V.S.; AYRUMYAN, K.A.; KAZARYAN, K.G.; MKRHLUMYAN, S.K.

Ecology of the Promethean vole(Prometheomys schaposchnivkovi Sat.). Zool. sbor. no. 10:5-16 '57. (MIRA 11:7)
(Adshar--Imeretian Range--Field mice)

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AYRUMYAN, K.A.

Acclimatization of game pheasants in the Armenian S. S. R.
Izv. AN Arm. SSR. Biol. nauki 14 no.11:45-51 N '61. (MIRA 15:3)

1. Zoologicheskiy institut AN Armyanskoy SSR.
(ARMENIA--PHEASANTS)

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AYRUMYAN, K.A.

Effect of additional light on the egg-laying capacity of game pheasant. Izv. AN Arm. SSR. Biol. nauki 15 no.6:83-88 Je '62. (MIRA 15:6)

1. Zoologicheskiy institut AN Armyanskiy SSR.
(PHEASANTS)
(LIGHT--PHYSIOLOGICAL EFFECT)
(REPRODUCTION)

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1. Zoologicheskiy institut AN Armyanskoy SSR.

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~~KYRUMYAN, V.A.~~

Acclimatization of spotted deer in Armenia. Izv.AN Arm.SSR.Biol. nauki 15 no.11:69-78 N '62. (MIRA 15:12)
(ARMENIA--ANIMAL INTRODUCTION) (ARMENIA--DEER)

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ADRUMYAN, K.A.

Factors limiting the size of clutch of Galliformes and the survival of chicks. Izv. AN Arm. SSR. Biol. nauki 18 no.11: 82-87 N '65. (MIRA 19:1)

1. Zoologicheskiy institut AN Armyanskoy SSR. Submitted June 24, 1965.

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AYRUMYAN, N. A.

"Comparative Characteristics of Mutton and Beef Relative to Their Effect on the Stomach Secretions of a Dog." Cand Biol Sci, Yerevan Zooveterinary Inst, Yerevan, 1954. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

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AYRUMYAN, V. A.

Comparative characteristics of chilled and frozen meat judged by its effect on the gastric secretion in dog. V. A. Airumyan (Animal Husbandry and Vet. Inst., Erevan). *Veprosy Pitaniya* 15, No. 2, 11-14(1956). Dogs were fed 100-g. samples of beef followed by the dots of the amt. of gastric juice secreted and the total activity, free HCl, digestive power and the relative proteolytic enzyme activity of the juice. The beef, freshly obtained from slaughterhouse, was stored for 7 days at 1-4° (chilled beef), while another portion was frozen for 7 days at −18 to −20° followed by thawing at room temp. and storage at 1-4°. It was found that the latent period of the juice secretion was 8 min. for chilled beef and 9 min. and 30 sec. for frozen beef. The amt. of the juice secreted was 5.76-[illegible].10% less for the frozen meat; digestive power and the total proteolytic activity of the juice increased in the case of the frozen beef. Consequently, frozen meat is digested less readily than chilled meat, and therefore it requires a longer period of time for the digestion. The reason for these differences is thought to be the loss of the juice after thawing of the frozen meat. It was found that the juice, fed to the same dogs, showed much greater stimulating effects on the gastric secretion; also the digestion of the juice was faster, even in comparison with the chilled meat. R. Wierbicki

1. Iz. Kafedry veterinarno-sanitarnoy ekspertizy (zav.-prof. L. O. Arutyunyan) Zootekhnicheskogo veterinarnogo inst., Yerevan.

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AYRUNI, A.T.

Some peculiarities of gas emanations in cutter-loader mined sectors of thin steep-dipping seam workings. Trudy Inst.gor.dela no.2: 135-144 '55. (MLRA 9:3)

(Donets Basin--Mine gases) (Coal mining machinery)

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[illegible] GAS BALANCE AND POSSIBILITIES OF DECREASING THE METHANE [illegible] IN WORKING OF MINES IN THE CENTRAL REGION OF CONGRESS. [illegible] (Trud. Inst. Gorn. Dela Trans. Inst. Min., Acad. Sci. U.S.S.R.), [illegible] 356-170). Methods of draining methane from seams that are not being worked are considered. The seams run at about 35° to the horizontal. Recommended methods consist in drilling holes in a fan shape upwards from haulage roads, or in some cases from specially driven roads, to intersect the seams to be drained. Methane can then be pumped to the surface. (L).

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Aybuni, A. T.

LIDIN, G.D.; AIBUNI, A.T.; DMITRIYEV, A.M.; ONEDIN, V., red.izd-va; ANDREYEV, G.G., tekhn.red.

[Methods of extracting and utilizing methane from coal beds in foreign countries] Sposoby izvlecheniia i utilizatsii metana ugol'nykh mestorozhdenii za rubezhom. Moskva, Ugletekhizdat, 1957. 85 p. (MIRA 11:1)

(Methane)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

LEDIN, G.D., doktor tekhnicheskikh nauk; MYRUNI, A.T., inzhener.

Draining methane from adjacent strata by vent holes. Bezop. truda v prom. 1 no.4:33-36 Ap '57. (MLRA 10:6)
(Coals mines and mining--Safety measures)
(Methane)

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AYRUNI, A.T.

Methane emanations in contiguous steeply pitching seams worked with different extraction methods. Trudy Inst. gor. dela 4: 158-175 '57. (MLRA 10:6)

(Methane) (Coal mines and mining)

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LIDIN, Georgiy Dmitriyevich, doktor tekhn.nauk; AYRUNI, Arsen Tigranovich, kand.tekhn.nauk; DZHIMSHELEYSHVILI, Shota Pilatovich, gornyy inzh.; SABITOV, A., tekhn.red.

[Gas removal from coal seams and industrial use of methane] Degazatsiia ugol'nykh plastov i promyshlennoe ispol'zovanie metana. Moskva, Ugletekhizdat, 1959. 188 p. (MIRA 12:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy nauchno-tekhnicheskiy komitet.

(Mine gases) (Methane)

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LIDIN, Georgiy Dmitriyevich, nauchnyy sotr.; AYRUNI, Arsen Tigranovich, nauchnyy sotr.; KLEBANOV, Feliks Semenovich, nauchnyy sotr.; MATVIYENKO, Nikolay Grigor'yevich, nauchnyy sotr.; GNEDIN, V.Ye., otv. red.; SMIRENSKIY, M.M., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Controlling accumulations of methane in coal mines] Bor'ba so skopleniiami metana v ugol'nykh shakhtakh. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 140 p. (MIRA 15:1)

1. Institut gornogo dela im. A.A.Skochinskogo (for Lidin, Ayruni, Klebanov, Matviyenko).

(Mine gases)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710005-5

LIDIN, Georgiy Dmitriyevich, starshiy nauchnyy sotr., prof.; PETROSYAN, Artur Emmanuilovich, kand. tekhn. nauk. Prinimali uchastiye: AYRUNI, A.T., kand. tekhn. nauk; USTINOV, N.I., inzh.; SKOCHINSKIY, A.A., akademik, otv. red. [deceased]; GNEDIN, V.Ye., red. izd-va; MAKUNI, Ye.V., tekhn. red.

[Gas concentration in coal mines of the U.S.S.R.] Gazoobil'nost' kamennougol'nykh shakht SSSR. Otv. red. A.A.Skochinskii. Moskva, Izd-vo Akad. nauk SSSR. Vol.2. [Gas concentration in coal mines of the southwestern Donets Basin] Gazoobil'nost' kamennougol'nykh shakht iugo-zapadnoi chasti Donetskogo basseina. 1962. 258 p. (MIRA 15:6)

1. Akademiya nauk SSSR. Institut gornogo dela.
(Donets Basin—Mine gases)

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AYRUNI, A.T., otv. red.; VINOGRADOVA, G.V., red. izd-va; PROZOROVSKAYA, V.A., tekhn. red.; SABITOV, A., tekhn. red.

[Methods of determining the gas potential of seams and for predicting gas outbursts in mines] Metody opredeleniia gazonosnosti plastov i prognoza gazoobil'nosti shakht; trudy. Moskva, Gosgortekhizdat, 1962. 286 p. (MIRA 15:5)

1. Vsesoyuznoye nauchno-tekhnicheskoye soveshchaniye instituta gornogo dela Akademii nauk SSSR, Moscow, 1960.
(Mine gases)

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AYRUNI, Arsen Tigranovich, kand. tekhn. nauk; ALEKSEYEV, Viktor Borisovich; BURSHTEYN, Mark Aleksandrovich; GEYMAN, Leonid Mikhaylovich; GRABILIN, Yuriy Nikolayevich; KILIMOV, Sergey Leonidovich; SOSNOV, Vladimir Dmitriyevich; SENCHEVA, Valentina Ivanovna; SUYETIN, Georgiy Georgiyevich; FEYGIN, Lev Mikhaylovich; SHEVCHENKO, Vadim Dmitriyevich; KAZAKOV, B.Ye., otv. red. toma; TAYTS, T.L., red.; OSVAL'D, E.Ya., red. izd-va; MINSKER, L.I., tekhn. red.

[The coal industry of capitalist countries]Ugol'naia promyshlennost' kapitalisticheskikh stran. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.2.[Technology, mechanization, and organization of development workings]Tekhnologiia, mekhanizatsiia i organizatsii rabot pri provedenii podgotovitel'nykh gornykh vyrabotok. Otv. red. toma: B.E.Kazakov, V.D.Sosnov, G.G.Suetin. 1962. 351 p. (MIRA 16:2)

1. Moscow. TSentral'nyy institut tekhnicheskoy informatsii ugol'noi promyshlennosti. 2. TSentral'nyy institut tekhnicheskoy informatsii ugol'noy promyshlennosti, Moscow (for Suyetin, Sencheva). 3. Gosudarstvennyy proyektnyy institut po avtomatizatsii ugol'noy promyshlennosti (for Feygin). 4. Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (for Sosnov). 5. Vsesoyuznyy tsentral'nyy proyektnyy institut po proyektirovaniyu shakhtnogo stroitel'stva kamennougol'noy promyshlennosti (for Burshteyn, Shevchenko). 6. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo po ugol'noy promyshlennosti(for Geyman).

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AYRUNI, Arsen Tigranovich— (continued). Card 2.

7. Ukrainskiy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva (for Alekseyev, Klimov).
8. Institut gornogo dela imeni Skochinskogo (for Ayruni).
(Coal mines and mining)

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