"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

HLAVON, J.; MRSKOS, A.

Nutritional status of Vietnamese children and its reflection in serum proteins. Cesk.pediat.15 no.12:1072-1079 D '60.

1. Cs. nemocnice v Hai-phongu, Vietnamska demokraticka republika.
(NUTRITION SURVEY)
(BLOOD PROTEINS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRSTINA, J., inz. (Praha)

Role of the production preparation in increasing the quality of machine industry products. Strojirenstvi 14 no.1:1-7 Ja'64.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRSTINA, J., inz.

New types of elements for automatic computers. Podn org 18 no.10:469 C '64.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRSTINA, Josef, inz.

Some experiences in ensuring the quality of products. Podn org 18 no.11:487-489 N '64.

1. Ceskomoravska-Kolben-Danek National Enterprise, Prague.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

CHECINSKI, Edward, inz.; [illegible], Janusz, mgr inz.

Reductibility of zinc compounds in certain zinc concentrates.
Rudy i metale 9 no. 5:250-253 My '64.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUCHKOV, Vasil

Protection of woman labor. Trud tseni 4 no.4:54-59 '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUCHKOV, Vasil

Discharge of the urban workers and employees for lack of residence permit. Trud tseni 4 no.9:101-107 '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUGALSKI, Eugeniusz, inż.

Testing installations for combustion engines. Biul techn Wojsk
5-140-142 Special issue 161.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

BRZEZINSKI, Krzysztof, inz. [illegible]
Ryszard, inz.

Design and construction [illegible]
H.Cegielski Works, [illegible] Special [illegible].

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUGALSKI, Z.; TRYLINSKI, W.

The method of forced joining for M 58 hard brass and sleeves of a diameter smaller than 6 mm. p. 149.

POMIARY, AUTOMATYKA, KONTROLA. Warszawa, Poland. Vol. 5, no. 2, Feb. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUGALSKI, Zdzislaw, mgr. inz.

Warm gearing with contact ratio one. Pomiary 8 no.5:222-225 My '62.

1. Katedra Podstaw Konstrukcji Przyrzadow Precyzyjnych, Politechnika, Warszawa.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUGALSKI, Zdzislaw, mgr inz.

Some problems concerning the precision of the construction of small module involute gears. Pomiary 8 no.12:566-567 D '62.

1. Katedra Podstaw Konstrukcji Przyrzadow Precyzyjnych, Politechnika, Warszawa.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

CATEGORY : [illegible] Medicinal. Essential Oil. M
Toxic.

ABS. JOUR. : RZhBiol., No. 3, 1959, No. 11156

AUTHOR : Kolodziejski, J., Nruk, A.

INST. : -

TITLE : Anatomical Structure of the Above Ground Parts of Artemisia absinthium L.

ORIG. PUB. : Dissert. pharmac. PAN, 1958, 10, No. 1, 63-68

ABSTRACT : An anatomical characteristic of the female and monoclinous flowers, of the leaf and of the stem at several of its levels is given.

CARD: 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

KOLODZIEJSKI, Jozef; GILL, Stanislaw; MRUK, Anna; SUREWICZ-SZEWCZYK, Halina

Variable content of ethereal oils and tannic compounds during the vegetation stage of Salvia officinalis L. Acta pol. pharm. 20 no.3:269-276 '63.

1. Z Katedry Farmakognozji Akademii Medycznej w Gdansku Kierownik: prof. dr J. Kolodziejski.
(PLANTS, MEDICINAL) (OILS, VOLATILE) (TANNINS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUK, Jozef; PANCEWICZ, Ignacy (Krakow)

A case of perforation of deep femoral artery in the course of endocarditis lenta. Przegl.lek., Krakow 11 no.5:136-138 '55.

1. Z II Kliniki Chorob Wewnetrznych A.M. w Krakowie Kierownik: Prof. dr J. Boguszewski.

(ENDOCARDITIS SUBACUTE, BACTERIAL, complications femoral artery, deep, rupt.)
(ARTERIES, FEMORAL rupture with endocarditis subacute, bacterial)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

CETNAROWICZ, Jan; HANICKI, Zygmunt; KIRCHMAYER, Stanislaw; KOSTKOWSKI, Andrzej; MRUK, Jozef; WIEJOWSKI, Michal, (czesc kliniczna); GOLINSKI, Kazimierz, (czesc radiologicnz).

Clinical aspects of diseases of the osteo-hemoietic system according to data of the Second Internal Clinic of the Academy of Medicine in Krakow. Polskie arch. med. wewn. 29 no.2:224-240 1959.

1. Z II Kliniki Chorob Wewnetrznych A. M. w Krakowie Kierownik prof. dr med. T. Tempka. Adres: Krakow, ul. Kopernika 15. II Klinika Chor. Wewn. A.M.

(BLOOD DISEASES, statist.
hosp. statist. (Pol))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

JEDLINSKI, Jerzy; MRUK, Jozef; LEWANDOWSKI, Jerzy

Insuloma of the pancreas simulating epilepsy cured surgically. Polski tygod. lek. 15 no.19:721-723 9 My '60.

1. Z Kliniki Chorob Nerwowych; kierownik: prof. dr. Wl. Jakimowicz; Kliniki Chorob Wewnetrznych; kierownik: prof. dr. T. Tempka i II Kliniki Chirurgicznej A. M. w Krakowie; p.o. kierownik: doc. dr. J. Oszacki.

(EPILEPSY diag.)
(ISLET CELL TUMOR diag.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

KUBICZEK, Mieczyslaw [deceased]; MRUK, Jozef; URASINSKI, I.

A case of monocytic leukemia type "Schilling" in cytochemical picture. Polskie arch.med.wewnetrz. 30 no.1:77-84 '60.

1. Z II Kliniki Chorob Wewnetrznych A.M.w Krakowie. Kierownik: prof.dr.nauk med. T. Tempka.
(LEUKEMIA MONOCYTIC pathol.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUK, Jozef

Comparative studies of blood serum and bone marrow serum proteins with reference to total protein levels and protein fractions determined by electrophoretic separation. Acta med. Pol. 4 no.3:291-304 '63.

1. IInd Clinic of Internal Diseases, Medical Academy, Cracow, Director: Prof. Dr. T. Tempka.

(BLOOD PROTEIN ELECTROPHORESIS)
(BONE MARROW EXAMINATION)
(BLOOD PROTEINS) (PUNCTURE)
(LEUKEMIA) (HODGKIN'S DISEASE)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUSKOVIC, S.

"A conference on the protection of historic monuments of folk architecture."

SLOVENSKY NARODOPIS, Praha, Czechoslovakia, Vol. 7, No. 2, 1959.

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), LC, Vol. 8, No. 7, July 1959, Unclas.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUVKA, S.

Mrówka, S. Remark on P. Aleksandrov's work "Two theorems of Yu. Smirnov". Fund. Math. 43 (1956), 399–400. (Russian)

Still another proof of theorem (I) of the paper reviewed above. *E. Hewitt* (Seattle, Wash.).

1-FIW

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUZ, Z. (Varshava); SAVCHUK, A. (Varshava)

Carrying capacity of annular plates reinforced along both edges. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.3: 72-78 My-Je '60. (MIRA 13:6)
(Elastic plates and shells)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRUZEK, Jiri, inz.

Deficiency of the design of a new heat and power plant.
Energetika Cz 15 no.3:158 Mr '65.

1. Vychodoslovenske zeleziarne, Kosice.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

UHLIR, Jaromir; UHLIR, Miloslav; SEDLARIK, Karel; MRUZEK, Maximilian; DOLINA, Jiri; RICHTER, Josef

Replacement of a part of the wall of the urinary bladder with terylene tissue prosthesis. Sb. med. fac. med. Brunen. 35 no.4:161-164 '63

1. II. chir. klinika v Brne, prednosta prof. dr. Jan Havratil II. gynecolog. klinika v Brne, prednosta doc. dr. Uher.
(BLADDER surgery) (PLASTICS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRVA, J.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Analytical Chemistry

Determination of resinous matter in the presence of fatty acids. K. Metyl and J. Mrva (Pardubice-Rybitví, Czech.). *Chem. Listy* 47, 1099-1100(1953).—The detn. is based on direct weighing of the resinous acids liberated from their Ag or Na salts with HCl and extd. with ether. The sapon. of a sample is carried out either with Ag_2O in toluene or with NaOH in abs. EtOH. M. Hudlický

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

CZECHOSLOVAKIA / Cultivated Plants. Fruits, Berries, Nutbearing, Teas. M-6

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6455

Author : Mrva, Josef
Inst : Sci.-Res. Institute of Vini- and Viticulture in Bratislava
Title : Results of Experiments on Establishing the Nutritional Needs of Grapevines

Orig Pub : Sbor. Ceskosl. akad. zemed. ved. Rada-Rostl. vyroba, 1956, 29, No 4, 303-317

Abstract : The scientific-research institute of vini- and viticulturein Bratislava (Czechoslovakia) recommended analyzing both the soil and the grape plants, in order to establish the needs of vineyards for fertilization.

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRVA, Vlastimil; PROCHAZKA, Zdenek; BURIANOVA, D.

Morphological changes in pigs and piglings caused by the wood impregnation compound sodium pentachlorophenolate. Veterinarni medicina 6 no.12:909-912 '61.

1. Vyzkumny ustav veterinarni, Ceskoslovenska akademie zemedelskych ved, Brno - Medlanky.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRVA, Zdenek

A conference on new techniques in the ceramic industry in Karlovy Vary. Sklar a keramik 12 no.10:298 O '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRVIK, Frantisek, dr.

Working conditions in agricultural enterprises and their effect on utilization of workers during the idle season. Prace mzda 12 no.8:361-367 Ag'64

1. Ministry of Agriculture, Forestry and Water Resources Management, Prague.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRVIK, Frantisek, dr.

Lump sum compensation of travel expenses in agriculture. Prace mzda 13 no.4:188-191 Ap '65.

1. Ministry of Agriculture, Forestry, and Water Resources, Prague.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

5

YUGOSLAVIA

V. MILJKOVIC, N. MLADENOVIC, P. DRAGA, G. MRVOS, V. JOVANOVIC, D. NIKODIJEVIC, V. STOJADINOVIC and A. DAVIDOVIC, Clinic for Reproduction Sterility and Artificial Insemination of Veterinary Faculty (Klinika za porodiljstvo, sterilitet i vestacko osemenjavanje Veterinarskog fakulteta) Belgrade.

"Ten Years of Artificial Insemination of Cattle in Serbia."

Belgrade, Veterinarski Glasnik, Vol 17, No 4, 1963; pp 315-322.

Abstract [German summary modified]: Gratified review of excellent results achieved with artificial insemination in Serbian and Yugoslav cattle. In Yugoslavia in 1961, 783,875 cows were inseminated by 608 bulls from 42 artificial insemination centers. Detailed statistical data by 7 breeds; 13 Serbian centers; many technical details and comments. One urgent need now is for a specialized national scientific journal dealing with bovine sterility and artificial insemination. Eighteen Yugoslav references.

1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYGIN, I. V.

USSR/Miscellaneous-Metallurgy

Card 1/1

Author : Mrygin, I. V.

Title : Use of metal screens in chill casting.

Periodical : Lit. Proizv. 1, 7 - 8, Jan-Feb 1954

Abstract : Metal screens enable the foundry workers to remove the casting heads during the chilling of the ingots. The screen is made of sheet steel 3 - 5 mm in thickness by drilling through holes 5 - 7 mm in diameter depending upon the mass of the ingot. In order to prevent clogging of holes by the smelt during the separation of the screen from the cast they are counterbored on both sides with a drill bit of larger diameter. During the removal of casting heads the chipping takes place through the center of the screen height where the diameter is the smallest. The screen is placed at the tip of the chill mold directly over the ingot which affords better feeding. The screen together with the casting head is removed from the mold by hammer and chisel at the moment when the hardening of the alloys has discontinued.

Institution: ....

Submitted : ....

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYGLODOWICZ, T.

First application of a Soviet method of hydropneumatic cleaning of water pipes in Poland, p. 75.

GAZ, WODA I TECHNIKA SANITARNA, (Polskie Zrzeszenie Gazownikow, Wodociagowcow i Technikow Sanitarnych) Warszawa. Vol. 30, no. 2, Feb. 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 5, no. 7, July 1956.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

POLAND

MRYGON, Jozef [Affiliation not given]

"Tumor in Uterus Preventing Partuition in a Cow."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 18, No 9, Sep 62, pp 554-555.

Abstract: Description of case. Effect of surgical removal uncertain, since farmer sold cow for slaughter. No references.

1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYKA, Jerzy (Mgr. Inz.)

Mgr. Inz. Jerzy Mryka (Gliwice), "Die Dauerfestigkeit UP-geschweisster Verbindungen nach Versuchen des Institutes Spawalnictwa in Gliwice," Schweisstechnik (Berlin), 8/2, February 1958, pp. 53-4.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYKA, J.

Welding conference "Construction and Strength" in Halle an der Saale, October 9-11, 1958. p. 163.

PRZEGLAD SPAWALNICTWA. Warszawa, Poland. Vol. 11, no. 6, June 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 9, September 1959. Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

P/036/61/000/011/002/003
D001/D101

AUTHOR: Mryka, Jerzy, Master of Engineering

TITLE: Mechanical properties of welds at low temperatures

PERIODICAL: Przegląd spawalnictwa, no. 11, 1961, 292-295

TEXT: The II Krajowa Konferencja Wytrzymałościowa SIMP (All-Country Conference on Material Strength of the Association of Polish Mechanical Engineers and Technicians) was convened in Warsaw on June 12-14, 1961. The report on research task No.Id-12, "Investigations of mechanical properties of low carbon welds at low temperatures" was read at this conference. The purpose of this research carried out at the Instytut Spawalnictwa (Welding Institute) was to investigate the influence of low temperatures on mechanical properties of low-carbon weld joints. The investigation included impact, bending, and tension strength tests. All tests were carried out at +20, 0, -20 and -40°C, using CO_2 dissolved in alcohol for coolant. The samples were cut out along and across the rolling direction from 20 mm thick steel sheet. Two types of steel were used: the St52, containing 0.20% C, 1.06% Mn, 0.43% Si.

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

P/036/61/000/011/002/003
D001/D101

Mechanical properties of ...

0.043% P, 0.038% S, and 0.03% Al, and the St3S, containing 0.22% C, 0.48% Mn 0.19% Si, 0.046% P, 0.032% S, 0.05% Cr, 0.16% Cu. EP55-22P and EP-52-28P electrodes were used for welds on St52 steel and EP52-28P and EP49-29P electrodes on St3S steel. Results of tests were plotted on graphs reproduced in the article. They show that the impact strength of St52 steel cut along the rolling direction is of the order of 5 kg/cm^2 at -40°C and increases to 10-11 kg/cm^2 as temperature rises to +20°C; the impact strength at -40°C in samples cut across the rolling direction is about 4 kg/cm^2, and increases insignificantly with growing temperature. The values for St3S steel are about 1 kg/cm^2 at -40°C and 11-12 kg/cm^2 at +20°C for samples cut along the rolling direction, while for cross cut samples the impact strength is less than 1 kg/cm^2 at -40°C and increases to only 4-5 kg/cm^2 at +20°C. Bending tests of welded joints were carried out on a hydraulic ZDMk 30t machine designed for tension and compression tests of metal samples at temperatures ranging from -60° to +100°C and manufactured by the VEB Werkstoffpruefmaschinen Leipzig (SZG). Samples for these tests were prepared from the same types of steel and electrodes as described above, with double

Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

Mechanical properties o...

P/030/61/000/[illegible]
D001/D101

vee weld seams. All samples were bent 180° at +20°, 0°, -20° and -40°C, respectively. No cracks in the weld or in the transition zone, nor any influence of temperature were noted. The tensile strength of welded joints was tested on the same machine and within the same temperature range. Both steels, St3S and St52, showed a high tensile strength. In all samples with a flawless butt weld, except one, the disruption appeared in the basic material. The tensile strength is inversely proportional to temperature. Disruption in samples with a projection always occurred in the weld. Conclusions: Temperature has little effect on the mechanical properties of welds without a projection while extensive changes occur in welds with a projection. With a view to low temperature operation, a strict control of weld quality is recommended. There are 8 graphs, 2 figures and 1 photo.

ASSOCIATION: Instytut Spawalnictwa (Institute of Welding).

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYKHIN, N. I. I ZAKURDAYEV, P. D.

30370

Opyt raboty na nyetsryeryvno dyeystvuyushchyey zustraktsionnoy ustanovkye s odnokratnym pryedvarit ye l'nym s'yemom masla. Pishch. Prom-st' SSSR, Vyp. 13, 1949, S. 27-31.

SO: Letopis' No. 34

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYKIN, N. I.

Processing of unhulled cottonseed on Uch-Kurgansk oil-extraction plant. V. G. Klepikov, V. A. Ivanov, and N. I. Mrykin. *Maslobolno-Zhirovaya Prom.* 21, No. 7, 18-19(1956). The work shows that both the quality of oil and the refining methods involved were not effected by the hulls from the whole cottonseed in the solvent (benzene) extn. process. — Vladimir N. Krukovsky

3

Med

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYKHIN, N.I.

KLEPIKOV, V.G., inzhener; IVANOV, V.A., inzhener; MRYKHIN, N.I., inzhener.

Processing cottonseeds without removing hulls at the Uch-Kurgan Oil Extraction Plant. Masl.-shir. prom. 22 no.7:15-19 '56. (MLRA 9:12)

1. Uch-Kurganskiy masloekstraktsionnyy zavod (for Klepikov) 2. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta zhirov (for Ivanov) 3. Ministerstvo promyshlennosti prodovol'stvennykh tovarov SSSR (for Mrykhin).
(Cottonseed)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYKHIN, N.I.; YEVTUSHENKO, Ye.D.

Practices of the Khabarovsk Oil Extraction Plant. Masl.-zhir.prom. 23 no.7:37-38 '57. (MLRA 10:8)

1.Ministerstvo promyshlennosti prodovol'stvennykh tovarov (for Mrykhin) 2.Khabarovskiy maslozhirkombinat (for Yevtushenko)
(Soybean)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACC NR: AM6036119 (N) Monograph UR/

Skvortsov, Mark Ivanovich; YUkhov, Ivan Vasil'yevich; Zemlyanov, Boris Ivanovich; Abchuk, Vladimir Avramovich; Mrykhin, Oktyabr' Aleksandrovich

Principles of ship maneuvering (Osnovy manevrirovaniya korabley) Moscow, Voyenizdat M-va obor. SSSR, 1966, 269 p. illus., biblio., 1 fold chart. Errata slip inserted. Number of copies printed not given.

TOPIC TAGS: naval operation, marine engineering, ship navigation, naval tactic

PURPOSE AND COVERAGE: This book is intended for naval officers and students of naval schools; it can be also used by the scientific and engineering staffs of research institutes and the marine industry. Problems of ship navigation, handling, and maneuvering at sea are discussed with particular application to military purposes, such as approach to target or changing position of the ship in relation to some specific object. Theories of probability, detection, and errors are used extensively in the text, particularly for the theoretical and practical analysis of problems of maneuverability. There are 16 references, all Soviet.

TABLE OF CONTENTS [abridged]:

Introduction -- 3

Card 1/2 UDC: 359:656.61.052

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACC NR: AM6036119

Ch. 1. Principles of the general theory of ship maneuverability -- 9
Ch. 2. Sea search for enemy -- 38
Ch. 3. Determining elements of target motion -- 91
Ch. 4. Changing distance and position in relation to an object -- 133
Ch. 5. Special cases of maneuvering by a single ship -- 170
Ch. 6. Principles for the evaluation of maneuvering accuracy -- 196
Ch. 7. Joint maneuver of ships -- 209
Ch. 8. Solving maneuvering problems with electronic computers -- 234

Appendix. Maneuvering tables (19 tables) -- 252

Bibliography -- 266

SUB CODE: 15,17/ SUBM DATE: 03May66/ ORIG REF: 027/ OTH REF: 001/

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

KOCHO, V.S.; BARZILOVICH, V.S.; LYADOV, K.P. Prinimali uchastiye: MRYKHINA, V.I., inzh.; OMEL'CHENKO, T.Ye., tekhnik; SHAKARIMOV, Yu., student; YASTOCHKIN, A.I., student; ULANOVSKAYA, L.V., student

Investigating the operation of continuous furnaces with a rolling hearth. Stal' 24 no.2: 177-179 F '64. (MIRA 17:9)

1. Kiyevskiy politekhnicheskiy institut i Kommunarskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

KOCHO, V.S.; REVUN, M.P.; MOISEYENKO, A.I.; STREL'CHENKO, Yu.G.; MRYKHINA, V.I.

Investigating the heat conditions of regenerative soaking pits. Izv.vys.ucheb.zav.; chern.met. 8 no.8:155-158 '65. (MIRA 18:8)

1. Kiyevskiy politekhnicheskiy institut i Kommunarskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

KOCHO, V.S., doktor tekhn. nauk; REVUN, M.P.; AL'BOKHA, V.P.; MRYKHINA, V.I.

Investigating the thermal conditions of compartments of regenerative soaking pits. Met. i gornorud. prom. no.3:40-42 My-Je '65. (MIRA 18:11)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRYSHA, G.N.

Effect of sorbic acid combined with tetracycline on the microflora of tomato pulp. Kons. i ov. prom. 14 no.10:31-33 O '59. (MIRA 12:12)

1.TSentral'nyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.
(Tomatoes, Canned) (Food preservatives)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRZENA, A.

Standard lengths of cables for production and dliveries. p. 255.

ELEKTROTECHNIK. Praha, Czechoslovakia, Vol. 14, no. 8, Aug. 1959

Monthly list of East European Accessions, (EEAI) LC, Vol. 8, No. 10,
Oct. 1959
Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRAZEK, B.

6

Portable liquid analyzer KP-051. B. Mrzena. *Chem. Průmysl* 3(28), 197-8(1953).—A liquid analyzer is described. Frank J. Hendel

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRZENA, B.

(1)

Anticorrosive mud. B. Mrzena. *Chem. Průmysl* 3(28), 199(1953).—Waste mud contg. CrO_4^{--} can be used as an anticorrosive medium for underground iron tanks, pipes, etc. Even 0.01% CrO_4^{--} in the mud passivates iron according to the reaction: $2Fe + 2CrO_4^{--} + 5H_2O \rightarrow Fe_2O_3 + 2Cr(OH)_3 + 4OH^-$. Products of the reaction do not peel off from iron.

Frank J. Hendel

10-13-53

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRZENA, B

Apparatus for gas analysis by infrared absorption. B. Mrzena and M. Mach. *Chem. Průmysl* 5, 270-91(1955). In a new type of analyzer 2 radiators emit thermal waves having the max. in the range of 3 μ. The radiation from one source passes through the tube through which the sample is flowing; that from the other source passes through a similar tube in which the gas is const. in compn. Before the radiation enters the tubes it passes through a rotating screen by which it is intermittently interrupted. The radiation from each tube enters a "measuring chamber" connected with the end of each tube, which contains a pure sample of the gas to be detd. (CH_4, CO_2, CO, etc.). The measuring chambers are sepd. from each other by a metallic foil which at the same time forms a membrane of a condenser microphone. Through unequal heating of the 2 chambers a pressure difference is caused between them which actuates the condenser microphone. L. A. Helwich

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

L 41816-66 EWP(j)/T WW/JW/JWD/RM

ACC NR: AP6031691 (N) SOURCE CODE: PO/0099/66/040/003/0391/0404

AUTHOR: Mrzewinski, Tadeusz; Okon, Kazimierz

ORG: Military Technical College, Warsaw (Wojskowa Akademia Techniczna)

TITLE: Studies on substances inhibiting nitrocellulose decomposition

SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966, 391-404

TOPIC TAGS: chemical decomposition, nitrocellulose, polarographic analysis, spectrophotometric analysis, aromatic hydrocarbon

ABSTRACT: Comparative studies were performed on the thermal decomposition of nitrocellulose with the use of some arylamines, phenols, aromatic hydrocarbons, and their nitro derivatives as inhibitors. The polarographic and spectrophotometric in UV methods were jointly applied for qualitative and quantitative determination of nitroso and nitro derivatives of the substances used. Orig. art. has: 7 figures and 5 tables. [Based on authors' Eng. abst.] [JPRS: 36,002]

SUB CODE: 07 / SUBM DATE: 15Jun65 / SOV REF: 001 / OTH REF: 009

Card 1/1 af

0919 0391

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

SEGAL, Pawel; ALICHNIEWICZ-CZAPLICKA, Halina; MRZYGLOD, Stanislaw

Studies on the effect of cortisone on the course ocular burns in experimental animals. Klin.oczna 30 no.1:95-102 '60.

1. Z Kliniki Chorob Oczu W.A.M. Kierownik: doc.dr med. P. Segal.
(EYE wds.& inj.)
(BURNS exper.)
(CORTISONE pharmacol.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

SEGAL, Pazel; JABLONSKA, Stefania; MRZYGLOD, Stanislaw

Neurotrophic changes in the choroid in scleroderma of the type "en coup de sabre". Klin.oczna 30 no.4:381-388 '60.

1. Z Kliniki Chorob Oczu W.A.M. w Lodzi, Kierownik: doc. dr med. P.Segal. Z Kliniki Dermatologicznej A.M. w Warszawie, Kierownik: prof. dr med. S.Jablonska.
(SCLERODERMA pathol)
(CHOROID pathol)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

SEGAL, Pawel; MRZYGLOD, Stanislaw

Glaucoma as a complication of self-inflicted injuries. Klin. oczna 32 no.4:381-384 '62.

1. Z Kliniki Chorob Oczu w Lodzi. Kierownik: prof. dr med. P. Segal.
(GLAUCOMA) (EYE INJURIES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

POLAND

SEGAL, Pawel, KIKIELA, Marian, MRZYGLOD, Stanislaw, and ZEROMSKA-ZHIERSKA, Izabela; Clinic of Eye Diseases (Klinika Chorob Oczu) WAM [Wojskowa Akademia Medyczna, Military Medical Academy] in Lodz (Director: Prof. Dr. med. P. SEGAL) and Eye Division (Oddzial Oczny), Military Hospital (Szpital Wojskowy) in Zielona Gora (Ordynator: Dr. M. KIKIELA)

"On the Coexistence of the Familiar Form of Pigmentary Degeneration of the Retina with Kartagener Triade. Case Report."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 23, 3 Jun 63, pp 809-812.

Abstract: [Authors' English summary modified] Authors report a case of Kartagener triade, pigmentary degeneration of the retina, and congenital cataract. They review briefly the literature of this problem, and note that the changes observed in this syndrome are always due to developmental difficulty or degenerative changes, and may therefore have common pathological elements with the classical symptoms of the Kartagener triade. There are 21 references, about evenly divided between Polish, German, and Western publications.

1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MRZYGLOD, Stanislaw; BOBINSKI, Henryk

Experimental studies on the penetration of orisul into the liquid of the anterior chamber of the eye in the rabbit. Klin. oczna 33 no.3/4:373-380 '63.

1. Z Kliniki Okulistycznej Kierownik: prof. dr med. P. Segal Z III Kliniki Chorob Wewnetrznych w Lodzi Kierownik: prof. dr med. A. Himmel.
(SULFAPHENAZOLE) (AQUEOUS HUMOR)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

SEGAL, Pawel; KIKIELA, Marian; MRZYGLOD, Stanislaw; ZEROMSKA-ZBIERSKA, Izabela

On the problem of coexistent familial pigmentary retinal degeneration and Kartagener's triad. Pol. tyg. lek. 18 no.23: 809-812 3 Je '63.

1. Z Kliniki Chorob Oczu WAM w Lodzi; kierownik: prof. dr med. P. Segal i z Oddzialu Ocznego Szpitala Woj. w Zielonej Gorze; ordynator: dr M. Kiekiela.
(RETINITIS PIGMENTOSA) (KARTAGENER TRIAD)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSCICHOWSKI, Z.

Remarks on a preliminary draft of a long-term plan of the scope of the cultivation of corn. p.123

ZAGADNIENIA EKONOMIKI ROLNEJ. (Komitet Ekonomikictwa Polskiej Akademii Nauk, Instytut Ekonomiki Rolnej i Sekcja Ekonomike Rolnictwa Polskiej Towarzystwa Ekonomicznego) Warszawa, Poland. No. 3, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960

Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

GRABOWSKI, Andrzej, mgr inż.; KOWALIK, Tadeusz, mgr inż.; MSCIWOJEWSKI, Edward, mgr inż.; SZCZERBA, Zbigniew, mgr inż.

Transducter voltage controllers of RNGT-2 series for high-power synchronous generators. Energetyka Pol 17:Suppl.: Biul inst energetyki 5 no.1/2:4-8 F '63.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHANETSKIY, B.

Measures for the automation of the "Beloretsk" type motorships. Mor. flot. 24 no.5:23-25 My '64.

(MIRA 18:12)

1. Starshiy inzh. Odesskogo vysshego inzhenernogo morskogo uchilishcha.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

BOGOSLOVSKIY, Andrey Mikhaylovich; ZDANOVICH, Vasiliy Leont'yevich; MATVEYEV, Yevgeniy Nikolayevich; MUMZI, Georgiy Fedorovich; MSHANETSKIY, Boris Antonovich; NEBESNOV, Viktor Ivanovich; NOVIKOV, Georgiy Nikolayevich [deceased]; NUD'GA, Pavel Korneyevich; SAPRYKIN, Aleksey Petrovich; SACHKOVSKIY, Georgiy Semenovich; FRENK, M.TS., obshchiy red.; MELNYEV, A.S., red.; TIKHONOVA, Ye.A., tekhn.red.

[Textbook for engineers on marine internal combustion engines] Uchebnoe posobie dlia mekhanika III razriada po sudovym dvigateliam vnutrennego sgoraniia. Izd.2., perer. Pod obshchei red. M.TS.Frenka. Moskva, Izd-vo "Morskoi transport," 1959. 711 p. (Marine engineering) (MIRA 12:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHANETSKIY, B. A., starshiy inzh.

Full use of power potentialities of main engines. Mor.flot 22 no.4:19-20 Ap '62. (MIRA 15:4)

1. Odesskoye vyssheye inzhenernoye morskoye uchilishche. (Marine engines)

Odessa Inst of Maritime Fleet Engineers

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHENSKIY, V.A.

82486

24.2700

S/137/60/000/005/005/009
A006/A002

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 5, p. 229, # 10782

AUTHORS: Kot, M.V., Mshenskiy, V.A.

TITLE: Electric Properties of the Cu-Sb System in Thin Layers

PERIODICAL: Uch. zap. Kishinevsk. un-t, 1959, Vol. 39, pp. 73-78

TEXT: The authors investigated the electric conductivity σ and thermo-emf of thin layers of the Cu-Sb system, obtained by the Vekshinskiy method. The evaporation conditions of the initial components were selected in such a manner that film sections of 0.2-1.5 thickness were obtained; this corresponded to the stoichiometric compositions of Cu_2Sb and Cu_3Sb. σ was measured by potentiometric and bridge methods. The thermo-emf was determined in respect to the Ni-electrodes. On the σ-curve no singular points were obtained, neither for Cu_2Sb nor for Cu_3Sb. On the thermo-emf curve there was one maximum for both "compounds". It is concluded that in the Cu-Sb system there is only one metallic compound at temperatures $\leqslant$ 300°C, i.e. the Cu_2Sb (bertollide) which, with excess of Cu or Sb, forms solid solutions and has an electron conductivity mechanism. At room temperature specific σ for $Cu_2Sb \sim 10^4$ ohm^{-1} cm^{-1}, and the differential thermo-emf is 50 μv/degree.

Card 1/1

S. S.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

EWT(1)/BDS/EEC(b)-2--AFFTC/ASD/ESD-3--IJP(C)/GG
L 10045-63
ACCESSION NR: AR3000377

S/0058/63/000/004/E066/E067

59

SOURCE: RZh. Fizika, Abs. 4E449

AUTHOR: Kot, M. V.; Mahenskiy, V. A.

TITLE: Dependence of electric properties of thin layers of mercury selenide on the thickness

CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 70-76

TOPIC TAGS: dielectrics, thin layers, mercury selenide, electric properties

TRANSLATION: Layers of HgSe with thickness d ranging from 03 to 1.2 microns were prepared by thermal sublimation of bulk specimens in vacuum and evaporation of Se and mercury vapor. The investigations were carried out on n-type specimens, which were obtained at substrate temperatures 80-100°C. The measurement data for HgSe layers produced by both methods turned out to be analogous. It is observed that as the thickness of the layer (d) increases from 0.03 to 0.6 microns, the specific conductivity (Sigma) increases from 50 to 350 ohm sup -1 cm

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

L 10045-63

ACCESSION NR: AR3000377

sup -1 and its differential termal emf (Alpha) drops from 160 to 60 microvolts per degree. The Hall constant (R) does not depend on d when d ranges from 0.03 to 1.2 micron. Annealing in vacuum leads to a sharp increase in Sigma and R. The character of the dependence of Sigma and R on d in air remains the same after annealing. With increasing temperature of the layer, the value of R does not change, while Sigma decreases, indicating degeneracy of the electron gas and the presence of impurity conductivity at room temperature. From the measured values of Sigma, R, and Alpha, there were determined the carrier concentrations (m approximately equal to 6 times 10 sup 18 cm sup -3), their mobility (Mu approximately equal to 200--700Sq. cm/v. sec), and effective mass (m* equals 0.035 m sub 0). It is shown that on layers that are outgassed in vacuum the value of Alpha does not depend on d, while a dependence on the thickness is observed for Sigma when d is less than 0.5 Mu. These measurements have also disclosed the presence of surface states produced as a result of adsorbtion of air and serving as traps for the electrons. A. Zhdan.

DATE ACQ: 14May63 ENCL: 00 SUB CODE: PH

cs/ jc

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

24.7100

S/181/62/004/006/024/051
B104/B112

AUTHORS: Kot, M. V., Tyrziu, V. G., Simashkevich, A. V., Maronchuk, Yu. Ye., and Mshenskiy, V. A.

TITLE: The dependence of the activation energy on the molar composition in thin layers of some $A^{II}B^{VI}$ - $A^{II}B^{VI}$ systems

PERIODICAL: Fizika tverdogo tela, v. 4, no. 6, 1962, 1535 - 1541

TEXT: Thin layers of the systems ZnSe-CdSe, ZnTe-CdTe, ZnSe-HgSe, CdSe-HgSe, and CdTe-HgTe were prepared by Vekshinskiy's method. The layers were sputtered onto cold and heated glass and mica backings and subsequently annealed in vacuo or air. The layers sputtered onto cold backings revealed an inhomogeneous structure. The activation energy was determined from the temperature dependence of electrical conductivity, and from the spectral dependence of photo-conductivity at room temperature. Under certain temperature conditions, layers could be obtained having continuously variable composition. The optical activation energy of the systems ZnTe-CdTe, ZnSe-HgSe, and CdTe-HgTe

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

is a linear function of the molar composition; that of the systems ZnSe-CdSe and CdSe-HgSe is not a linear, but a monotonic function of the molar composition. In the former case, one is dealing with solutions with one type of lattice, and in the latter with solutions with two types of lattice. The decrease in the optical activation energy of the systems is as follows: for the system ZnSe-CdSe from 2.6 ev (100% ZnSe) to 1.7 ev (100% CdSe); for ZnTe-CdTe from 2.1 to 1.4ev; for ZnSe-HgSe from 2.6 to 0.4 ev; and for CdTe-HgTe from 1.4 to less than 0.1 ev. There are 5 figures.

ASSOCIATION: Kishinevskiy gosudarstvennyy universitet (Kishinev State University)

SUBMITTED: January 27, 1962

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

2

Some electrical and galvanomagnetic properties of films of indium arsenide. V. A. Kas'yan.

Concerning the influence of the structure of the layer on the value of the mobility of current carriers in films of indium antimonide. V. A. Kas'yan, M. V. Kot.

Dependence of effective mass of electrons and optical activation energy on the concentration of current carriers in mercury selenide. M. V. Kot, V. A. Mshenskiy.
(Presented by V. A. Kas'yan--15 minutes).

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

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACCESSION NR: AP4041369 S/0048/64/028/006/1023/1027

AUTHOR: Kot, M.V., Mshenskiy, V. A.

TITLE: Variation of the effective electron mass and optical activation energy in mercury selenide as a function of current carrier concentration [Report, Third Conference on Semiconductor Compounds held in Kishinev 16 to 21 Sep 1963]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 1023-1027

TOPIC TAGS: semiconductor, thin film, optical absorption, energy gap, carrier density, mercury selenide

ABSTRACT: Thin films of HgSe were deposited by vaproization on various substrates under different conditions, and their conductivities, Hall constants, thermal emf's and optical absorption coefficients were measured. Films were obtained having conduction electron concentrations from 8.1×10^{17} to 1.2×10^{19} cm^{-3}. The factor most strongly influencing the electron concentration was found to be the temperature of the substratum during deposition. The conductivities of all the films decreased slowly with increasing temperature, and the Hall constants were independent of the temperature. The Hall mobilities were proportional to $T^{-1.44}$ (T is the absolute tem-

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACCESSION NR: AP4041369

perature). The Fermi energy was calculated for each film from the temperature dependence of the mobility and the thermal emf, and from this and the electron concentration, the effective mass of the conduction electrons was derived. The effective mass increased from 0.033 to 0.095 electron masses as the electron concentration increased from 8.1×10^{17} to 1.2×10^{19} cm^{-3}. These values of the effective mass are in agreement with the findings of G.B.Wright, A.J.Strauss and T.C.Harman (Phys.Rev. 125,1534,1962), and their variation indicates that the conduction band deviates considerably from the parabolic form. The optical measurements revealed two absorption edges. One occurred at a photon energy of 2.8 eV independently of the electron concentration; it has been reported by M.Cardona and G.Harbeke (Phys.Rev.Letters 8, 90,1962), who ascribed it to L_3--L_1 transitions between the valence and conduction bands. The long wavelength absorption edge shifted from 0.24 to 0.35 eV as the electron concentration increased from 8.1×10^{17} to 1.2×10^{19} cm^{-3}. The energy gap was calculated by subtracting the corresponding Fermi energies from these values; it was found to be approximately 0.16 eV at room temperature. Orig.art.has: 3 formulas, 4 figures and 2 tables.

Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACCESSION NR: AP4041369

ASSOCIATION: Kishinevskiy gosudarstvenny*y universitet (Kishinev State University)

SUBMITTED: 00 ENCL: 00

SUB CODE: SS, IC NR REF SOV: 007 OTHER: 007

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACCESSION NR: AP4041379 S/0048/64/028/006/1069/1072

AUTHOR: Kot, M.V.; Mshenskiy, V.A.

TITLE: Structure and electric properties of the cadmium selenide-mercury selenide system [Report, Third Conference on Semiconductor Compounds held in Kishinev 16 to 21 Sep 1963]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 1069-1072

TOPIC TAGS: semiconductor property, solid solution, cadmium selenide, mercury selenide, Hall coefficient, electric resistivity

ABSTRACT: This paper reports a continuation of earlier work on the properties of solid solutions of the composition $(CdSe)_x(HgSe)_{1-x}$ (M.V.Kot,V.G.Ty*rziu, A.V.Simashkevich,Yu.Ye.Maronchuk,V.A.Mshenskiy, Fiz.tverdogo tela 4,1536,1962). The earlier work was concerned with thin films; investigations of the bulk materials are reported in the present paper. The materials for investigation were obtained by heating spectroscopically pure Se, Cd and Hg with vibration at a temperature between 800 and 1300°C. The ingots thus obtained were annealed for 100 to 200 hours. The final specimens were large grained homogeneous polycrystalline materials that x-ray dif-

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACCESSION NR: AP4041379

fraction showed to be solid solutions. The material could be obtained with a crystal structure of the sphalerite type at all compositions or, by altering the synthesis conditions, it could be obtained with the wurtzite structure for $x > 0.5$. Only the sphalerite type materials were investigated. The lattice constant was measured at room temperature, and the conductivity and the Hall coefficient were measured at temperatures up to about 600°K. All the materials were n-type conductors. The lattice constant decreased monotonically but not linearly with composition from 6.07 Å at $x = 0$ to 6.04 Å at $x = 1$. The resistivity at room temperature increased smoothly from 1.25×10^{-3} ohm cm at $x = 0$ to 1.4×10^{6} ohm cm at $x = 1$. The Hall coefficient at room temperature increased from 9 cm^3/coulomb at $x = 0$ to 10^3 cm^3/coulomb at $x = 0.7$. The Hall coefficient was nearly independent of temperature for $x < 0.3$ and decreased with increasing temperature for materials with greater cadmium content. Intrinsic conductivity was not manifested in the temperature range investigated by materials with $x < 0.3$. The materials with greater cadmium content showed an activation energy for conduction which rose from about 0.2 eV at $x = 0.3$ to 1.68 eV at $x = 1$. "In conclusion, the authors consider it their duty to thank V.A.Korotov for participating in the work." Orig.art.has: 5 figures.

Card2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ACCESSION NR: AP4041379

ASSOCIATION: Kishinevskiy gosudarstvenny*y universitet (Kishinev State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: SS,IC

NR REF SOV: 001

OTHER: 001

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

L 31448-66 EWT(1)/EWT(m)/ETC/EWP(i)/EWG(m)/T/EWP(t)/EWP(b)/EWA(h) IJP(c)
RDM/JD/GS/AT

ACCESSION NR: AT5020490 UR/0000/64/000/000/0432/0445

AUTHORS: Kot, N. V.; Kas'yan, V. A.; Maryanchuk, Yu. Ye.; Mahenskiy, V. A.; Simashkevich, A. V.

TITLE: The dependence of the electrical properties of thin layers of certain binary compounds upon thickness and upon the surrounding atmosphere

SOURCE: Mezhvuzovskaya nauchno-tekhnicheskaya konferentsiya po fizike poluprovodnikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk, 1962. Poverkhnostnyye i kontaktnyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1964, 432-445

TOPIC TAGS: indium compound, mercury compound, cadmium compound, zinc compound, electric property, Hall constant, semiconductor, conductivity

ABSTRACT: The dependence of the conductivity, differential thermo-emf, and Hall constant upon thickness and the surrounding atmosphere was studied for thin layers of InSb, HgSe, HgTe, CdSe, ZnSe, and CdTe. The work was done to determine the effect of surface states on the electrical properties of semiconductors. Thin layers of the above compounds were prepared by vaporization of polycrystalline alloys or single crystals of these compounds, by the method of academician

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

L 3448-66

ACCESSION NR: AT5020490

Vekshinskiy, and by vaporization of a mixture of the components from a single vaporizer (for InSb). The films represented polycrystalline layers with crystal dimensions of $\sim 10^{-5}$-10^{-4} cm. Examples of graphs of conductivity versus thickness and the effect of sorbed oxygen on conductivity are shown in Figs. 1 and 2 on the Enclosures. It was concluded that the dependence of electrical properties upon thickness for layers of InSb, HgSe, and HgTe was due to the dependence of effective mobility upon crystal size and the influence of surface states when thickness was reduced. For layers of CdSe, ZnSe, and CdTe, the dependence was due chiefly to the influence of surface states. Orig. art. has: 10 graphs, 1 table, and 14 formulas.

ASSOCIATION: none

SUBMITTED: 06Oct64 ENCL: 02 SUB CODE: SS

NO REF SOV: 009 OTHER: 002

Card 2/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

L 3448-66

ACCESSION NR: AT5020490 ENCLOSURE: 01

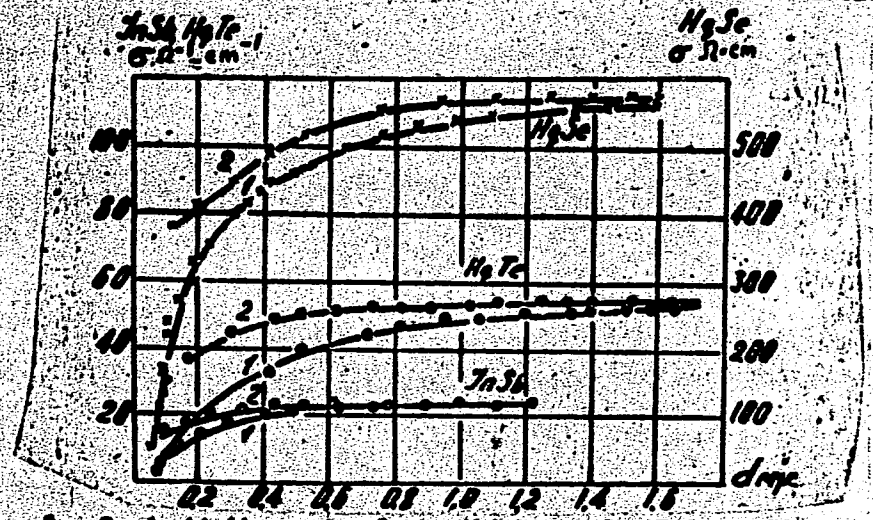

Fig. 1. Conductivity versus layer thickness for InSb, HgSe, and HgTe. 1—in oxygen atmosphere; 2—in vacuum of $\sim 10^{-5}$ mm Hg

Card 3/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

L 31148-66

ACCESSION NR: AP5020490 ENCLOSURE: 02

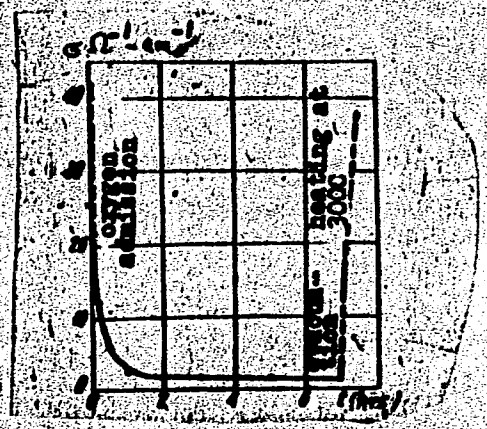

Fig. 2. Effect of sorbed oxygen on conductivity of CdSe layer

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSKHILADZE, G.G.

Contact problem of a thick plate. Soob. AN Gruz. SSR 38 no.1:139-146 Ap '65. (MIRA 18:12)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

ROKVA, M.L.; MSHVELIDZE, N.N.

Iron oxide mineral pigments in Georgia. Geol.sbor. [Kav.] no.1:116-124 '59. (MIRA 13:1)
(Georgia--Pigments)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

1. I. R. KAKHADZE, D. M. MSHVENIYERADZE

2. USSR (600)

4. Black Sea - Geology, Structural

7. Problem of the submerged Black Sea terraces. Soob. AN Gruz. SSR 12 no. 7. 1951.

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

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVENIYERADZE, D. M.

Mshveniyeradze, D. M. -- "Construction Practice in the Forests of Georgia." Dr Tech Sci, Georgian Polytechnic Inst, 12 Feb 54. (Zarya Vostoka, 20 Jan 54)

SO: SUM 168, 22 July 1954

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVENIXERADZE, D.M.; TOGONIDZE, V.R.; KVACHADZE, D.Ye.; SHENGELIYA, L.T.; DZHAPARIDZE, N.N.; CHKHEIDZE, V.V.; SACHALELI, I.A.; TKEMALADZE, R.K.

Results of studying the compaction of loess by heavy tampers in the city of Rustavi. Trudy GPI [Gruz.] no.1:139-144 '63. (MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVENIYERADZE, I.D.

Transformation of quadratic forms and a case of resonance during slight elastoplastic vibrations in a discrete system. Trudy GPI [Gruz.] no.1:75-79 '63. (MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

KAKABADZE, V.M.; NIKOLAYSHVILI, Z.G.; MSHVENIYERADZE, N.G.; BEREZHIANI, L.B.

Physicochemical analysis of the products of interaction between magnesium nitrate and urea. Dokl. AN SSSR 161 no.5:1156-1157 Ap '65. (MIRA 18:5)

1. Gruzinskiy politekhnicheskiy institut im. V.I.Lenina. Submitted October 14, 1964.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

NIKOLAYSHVILI, Z.G.; KAKABADZE, V.M.; MSHVENIYERADZE, N.G.

Production of a new fertilizer based on magnesium nitrate and urea. Soob. AN Gruz. SSR 33 no. 2:247-254 F '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVENIYERADZE, D.M.

Architecture in ancient Georgia. Trudy po ist.tekh. no.8:3-28 '54. (MIRA 8:2)

(Georgia--Architecture, Ancient)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVENIYERADZE, D.M.; TOGONIDZE, V.R.; CHKHEIDZE, V.V.

Nikolai Mikhailovich Gersevanov (Gersevishvili), an outstanding theoretician of the structural mechanics of soils and of hydraulic engineering. Trudy GPI [Gruz.] no.1:135-137 '63.

Stability of slopes with rock waste and automobile roads bordering the reservoir of the Ingur Hydroelectric Power Station. Ibid.:145-152 (MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVENIYERADZE, N. G.

26943: KAKABALZE, V. M. MSHVENIYERADZE, N. G. K voprosu izucheniya kinetiki okisleniya manganitnykh rud. Trudy (gruz. politekhn. in-t im. kirova) No. 18, 1949, s. 157-62 na gruz yaz. -rezyume na rus. yaz-Bibliogr: 5 nazv.

SO: Letopis' Zhurnal'nykh statey, Vol. 36, 1949.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVENIYERADZE, N.G.

27164 KAKABADZE, V. I., MSHVENIYERADZE, N.G. - Okisleniye toluola termicheski okislennoy manganitnoy rudoy. Trudy (Gruz. politekhn. in-t im. Kirova), No. 1[illegible], 1949, s. 163-72. - Na gruz. yaz. - Rezyume na rus. yaz. - Bibliogr: 9 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MAKABADZE, V.M.; NIKOLAISHVILI, Z.G.; MESHVENIYERADZE, N.G.

Production of magnesium oxide by carbonization of an aqueous suspension of sepentinite. Trudy Inst. prikl. khim. i elektrokhim. AN Gruz. SSR 4:53-58 '63. (MIRA 17:6

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

KAR[illegible]BRDLE, V.M., NIK[illegible]I, [illegible]; MSHVENIY [illegible], N.G.

Production of magnesium nitrate by treating serpentinite with nitrous vapors. Sobr. AN Gruz. [illegible] no. 2-3[illegible] Ag '63. [illegible]

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

1. MSHVIDOBADZE, A. Ye.

2. USSR (600)

4. Dissertations, Academic.

7. Abstracts of dissertations on pharmaceutical science defended at the Tbilisi State Medical Institute in 1950 and 1951. Apt. delo no.2 1952.

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

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVIDOBADZE, A.Ye., professor.

"Phytogherapy." E.IU. Shass. Reviewed by A.E. Mshvidobadze. Apt.delo 2 no.3:62-64 My-Je '53. (MLRA 6:6)
(Botany, Medical) (Shass, Ezekil' Iul'evich)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVIDOBADZE, A.Ye., prof., doktor farmatsevticheskikh nauk

Advance pharmatceutical training in the Georgian S.S.R.; on the 40th anniversary of the Great October Revolution. Apt.delo 7 no.4 35-39 Jl-Ag '58 (MIRA 11:8)

1. Dekan farmatsevticheskogo fakul'teta Tbilisskogo meditsinskogo instituta.
(GEORGIA--PHARMACY--STUDY AND TEACHING)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

MSHVIDOBADZE, A.Ye.

Tanning suvstances and their role as drugs. Apt.delo 8 no.1: 78-79 Ja-F '59. (MIRA 12:2)
(TANNINS--THERAPEUTIC USE)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3

GELBAKHIANI, prof.; MSHVIDOBADZE, A.Ye., prof., zasluzhennyy deyatel' nauki

Iovel' Girgor'evich Kutateladze; an obituary. Apt. delo 13 no.3:94-95 My-Je '64. (MIRA 18:3)

1. Chlen-korrespondent AN Gruzinskoy SSR (for Gelbakhiani).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135510020-3"