HUNGARY/Pharmacology. Toxicology. Tranquilizers.

٧

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 102790

Author : Szabo, Gy.; Solti, F.; Rev, J.; Refi, A.;

Megyesi, K.

Inst : -

Title : The Effect of Chlorpromazine on Hypoxia of the

Heart Muscle.

Orig Pub: Magyar belorv. arch., 1958, 11, No. 1, 10-12

Abstract: No abstract

Card 1/1

HUMBARY

THACZ, Mihaly, FUCY, Jozsef, JAKAB, Tivadar, ACFI, Miklos: Medical University of Eudapest, II. Surgical Clinic (Budapesti Orvostudomanyi Egyetem, II. sz. Seceszeti Klinika).

"Effect of Icterus on the Small Intestinal Mucosa."

Budapest, Miscrietes Cryostudomany, Vol XVIII, No 5, Oct 66, pages 490-495.

Abstract: [Authors' Hungarian summary] In dogs, in a state of icterus produced by ligation of the ductus choledochus and at certain serum bilirubin levels, motion of the intestinal villi is greatly decreased or ceases. If bile from the fall bladder or salts of the bile acids are introduced into the mesenterial artery, an initial increase in automatism is followed by a reversible inhibition or suspension of motion of the villi; the strongest effect is exerted by Ma-glycocholate, followed by that of Ma-taurocholate; Ma-dehydrocholate had the weakest effect. Local application of bile or salts of bile acids to the mucosa exert a concentration-dependent stimulating effect on the motion of the villi. The stimulating effect of concentrated bile is more sluggish than that of the dilute one. The mechanism of the effect can be explained in terms of the influence of bile acids on the ganglions of the intestinal wall. Some references are made to the clinical aspects of these observations. 4 Hungarian, 23 Western references. [Manuscript received 13 Oct 65.] 1/1

- 52 -

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

MAGYAR, Imre, Dr.; MARTON, Istvan, Dr.; MATHE, Zoltan, Dr.; REFI, Zoltan, Dr.; KERTAI, Pal, Dr.

Mechanism of action of oral antidiabetics. Orv. hetil. 99 no.26:885-889 29 June 58.

1. A Budapesto Orvostudomanyi Eryetem I. sz. Belklinikajanak (igazgato: Rusznyak Istvan dr. eryet. tanar) kozlemenye.

(ANTIDIABETICS

carbutamide & tolbutamide, mechanism of action (Hun))

SOLTI, F.; SIMONYI, G.; ISKUM, M.; PETER, Agnes; REFI, Z.; HERMANN, R.

On the effect of stellate block on arterial and venous brain circulation. Acta med. Hung. 18 no.3:287-292 '62.

1. I. Medizinische Klinik (Direktor: Prof. Dr. I. Rusznyak) und Neurologische Klinik (Direktor: Prof. Dr. B. Horanyi) der Medizinischen Universitat Budapest. (AUTONOMIC NERVE BLOCK) (BRAIN) (BLOOD CIRCULATION) (CEREBRAL ARTERIES)

SOLTI, F.; PETER, A.; SIMONYI, G.; ISKUE, M.; REFI, Z.; DUBSKI, K.; RAMDL, J.

The effect of strophanthin on cerebral blood flow, potassium and sodium metabolism, and cerebral venous pressure. Acta med. Hung. 18 no.2:163-168 '62.

1. First Department of Medicine (Director: Professor I. Rusznyak) and Department of Meurology (Director: Professor B. Horanyi), University Medical School, Budapest.

(STROPHANTHIN pharmacology) (BRAIN blood supply)
(BRAIN metabolism) (SODIUM metabolsim) (POTASSIUM metabolism)

SOLTI, F.; PETER, A.; OLAH, I.; ISKUM, M.; REV, J.; HERMANN, R.; REFI, Z.

The acute effect of nicotine on cerebral blood flow and cerebral venous pressure. Cor vasa 5 no.3:197-202 '63.

1. First Medical Clinic and Neurological Clinic of the University Medical School, Budapest.

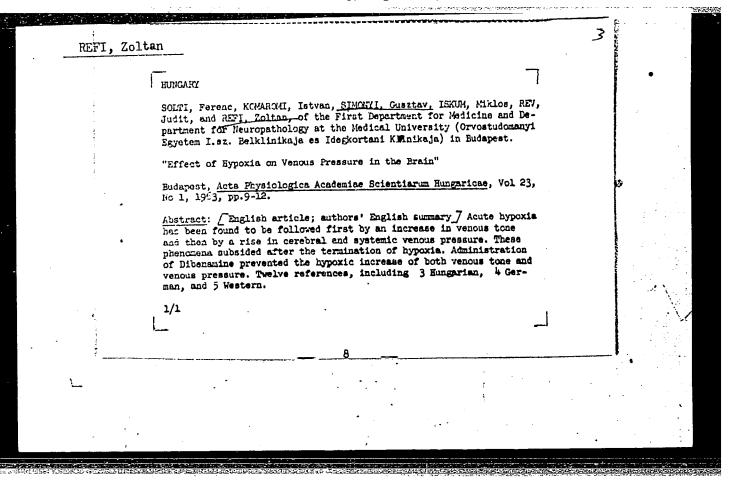
(CEREBROVASCULAR CIRCULATION) (RETINAL VESSELS)

(BLOOD PRESSURE) (BLOOD FLCW VELOCITY)

(NICOTINE)

SOLTI, F.; KOMAROMI, I.; SIMONYI, G.; ISKUM, M.; REV, Judit; REFI, Z. with the technical assistance of BRAUN, E.

Effect of hypoxia on venous pressure in the brain. Acta physiol. acad. sci. hung. 23 no.1:9-12 '63.



SOLTI, F.; PETER, A.; OLAH, I.; ISKUM, M.; REV, J.; HERMANN, R.; REFI, Z.

Effect of r' otine on cerebral blood circulation and venous pressure. Kiserl. orvostud. 14 no.3:269-272 Je '62.

1. Budapesti Orvostudomanyi Egyetem I. sz. Belklinikaja es Idegklinikaja. (BRAIN blood supply) (NICOTINE pharmacol)

SOLFI. F.; REV. J.; MARTON, I.; REFI. Z.; KOLTAY, E.

The effect of dibenamine on the increased excretion of water, sodium and potassium in sweat caused by strophanthin. Acta med. hung. 12

no.3-4:305-309 1958.

1. 1st Department of Medicine, Medical University, Budapest. (STROPHANTHIN, effects

on potassium & sodium excretion in sweat after dibenamine admin.)

(SYMPATHOLYTICS, effects

dibenamine on strophamthin-induced changes in potassium & sodium excretion in sweat.)

(SWEAT

potassium & sodium excretion, eff. of strophanthin after dibenamine admin.)

FOLDI, M.; STARK, E.; REV, J.; MIHALY, K.; HERMAN, R.; REFI, Z.

Spontaneous bensoic acid excretion in kidney diseases. Acts med.hung. 14 no.3:303-311 159.

1. Forschungsinstitut für Experimentelle Medizin der Ungarischen Akademie der Wissenschaften und I. Medizinische Universitatsklinik, Budapost.

(BENZOATES urine) (KIDNEY DISEASES urine)

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SOLTI, Ferenc; PETER, Agnes; SIMONYI, Gusztav; ISKUM, Miklos; REFI, Zoltan; DUBSKY, Maria

Effect of strophanthin on the blood circulation and potassium and sodium metabolism of the brain, also on cerebral venous pressure. Ideg. szemle 13 no.3:85-90 Mr '60.

1. A Budapesti Orvostudomanyi Egyetem I. sz. Belklinikajanak (Igazgato: Dr. Rusznyak, Istvan egyetem tanar) es Idegkortani Klinikajanak (Igazgato: Dr. Horanyi, Bela egyetemi tanar) kozlemenye. (STROPHANTHIN pharmacol.)

(BRAIN pharmacol.)

(POTASSIUM metab.)

(SODIUM metab.)
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FOLDI, Mihaly, dr.; STARK, Ervin, dr.; REV, Judit, dr.; MIHALY, Katalin, dr.; HERMANN, Robert, dr.; REFI, Zoltan, dr.

Spontaneous excretion of benzoic acid in renal patients. Magr. belorv.arch. 12 no.6:164-168 D '59.

1. A Magyar Tudomanyos Akademia Kiserleti Orvostudomanyi Kutato Intezete es a Budapesti Orvostudomanyi Egyetem I. sz. Belklinikaja (igazgato: Dr. Rusznyak Istvan egyetemi tanar) kozlemenye.

(KIDNEY DISEASES urine)

(BENZOATES urine)

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SZABO, Gy., SOLTI, F., Rev.; RKFI, Z.; MEGYESI, K.

Iffect of chlorpromazine on Twocardial hypoxia. Magy. belorv. arch.
11 no.1:10-12 Feb 58.

1. A Budanesti Orvostudomanyi Egyetem I. sz. Belklinikajanak (igazgato:
Rusznyak Istvan dr. egyetemi tanar) kozlemenye.
(HAART, eff of drugs on
chlorpromazine on exper. Twocardial anoxia in human volunteers (Hun))
(GHLORPROMAZINE, eff.
on exper. myocardial anoxia in human volunteers (Hun))
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REFORMATSKAYA, A.F., kand.med.nauk

Mpidemiological characteristics of sporadic cases of typhus fever in Alma-Ata between 1949 and 1955. Zdrav.Kazakh. 17 no.7:16-19 '57. (MIRA 12:6)

1. Iz kliniki infektsionnykh bolezney Kazakhskogo gosudarstvennogo meditsinskogo instituta im. V.M.Molotova. (ALMA-ATA--TYPHUS FEVER)

## REFORMATSKAYA, A.F.

Clinical characteristics of typhus in Alma-Ata during 1949-55. N \*56.

(MIRA 10;1)

1. Iz kliniki infektsionnykh bolezney Kazakhskogo meditsinskogo instituta imeni V.H.Moletova.

(TYPHUS, epidemiology.

in Russia, in Alma-Ata (Rus))

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

"Sur l'equilibre dans les solutions. III. Solubilite et tension de la vapeur des solutions de l'oxyde d'ethylene dans l'eau et dans le dichlorethane." Kaplan, S. I. et Reformatskaja, A. S. (p. 545)

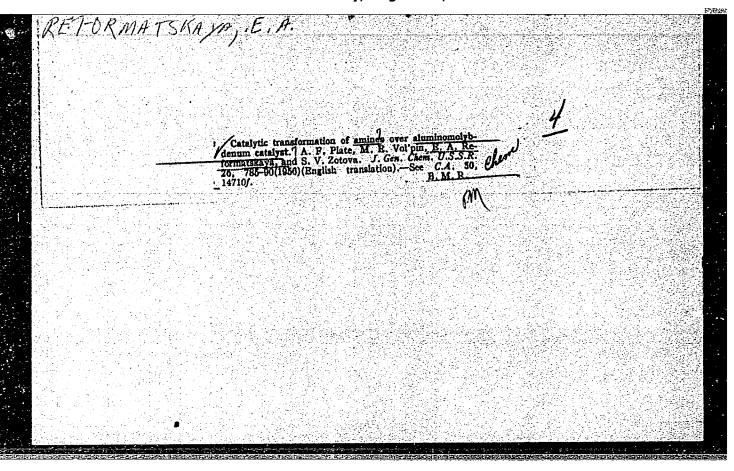
SO: Journal of General Chemistry (Zhurnal Obshchei Khimii). 1937, Volume 7, No. 2.

REFORMATSMATA, A. S.

TT.307 (Equilibrium in solution, III. The solubility and vapour pressure of solutions of ethylens oxide in water and in dichlorethane) O ravnovesii v rastvorakh. III. Rastvorimost' i uprugost' para rastvorov okisi etilena v vode i v dikhloretane.

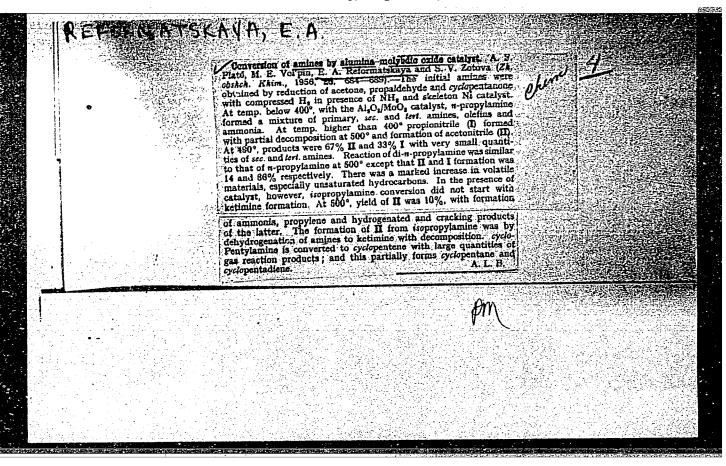
Zhurnal Obshchei Khimii, 7(2): 545-549, 1937.

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444



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|                   | luminomolybdenum catalyst.            |            |
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| Zhur.ob.khim. 26  | no.3:684-689 Mr '56.                  | (MLRA 9:8) |
| 1. Moskovskiy gos | sudarstvennyy universitet<br>(Amines) | •          |
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REFORMATSKIY, A. A. (Mescow)

"Translation 'sub Specie Structuralismi'"

Theses - Conference on Machine Translations, 15-21 May 1958, Moscow.

GORSHKOV, V.K.; IVANOV, R.N.; KUKAVADZE, G.M.; REFORMATSKIY, I.A.

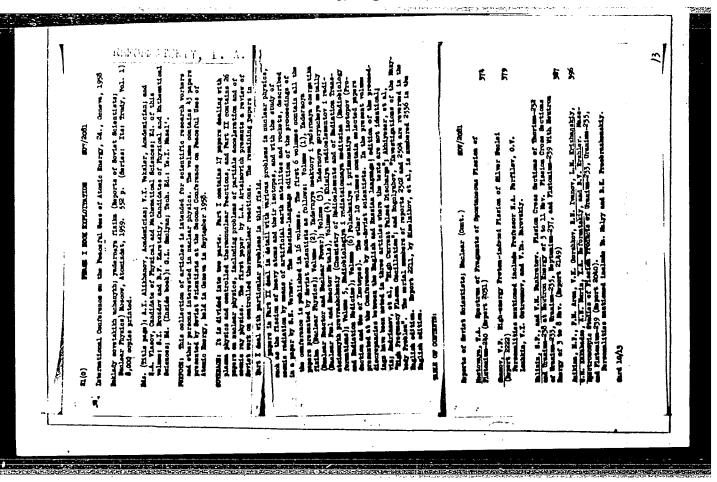
Yield of U<sup>235</sup> fission products in the rare earth group. Atom.
energ. 3 no.7:11-14 J1 '57. (MIRA 10:7)

(Fission products) (Uranium-Isotopes)

MURIN, A. N., ERSHIER, B. V., KUKWADZE, G. M., ANIKHINA, M. P., GORSHKOV, V. K., IVANOV, R. N., KRIZANSKIY, L. M. and REFORMATSKIY, I. A.

"Mass-Spectrometric Study of  $\mathrm{U}^233$  ,  $\mathrm{U}^235$  and  $\mathrm{Pu}^239$  Fission Products."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.



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YAKOVLEV, G.N.; DERGUNOV, Ye.P.; REFORMATSKIY, I.A.; DEDOV, V.B.

[Analytical hot laboratory] Geriashaia analiticheskaia laboratoriia. Moskva, 1955. 15 p. (MIRA 14:7)

(Testing laboratories) (Nuclear research)

REFORMATSKIY, Igor' Aleksandrovich; PODOSHVINA, V.A., red.

[Laboratories for work involving radioactive substances] Laboratorii dlia rabot s radioaktivnymi veshchestvami. Moskva, Gosatomizdat, 1963. 127 p. (MIRA 17:4)

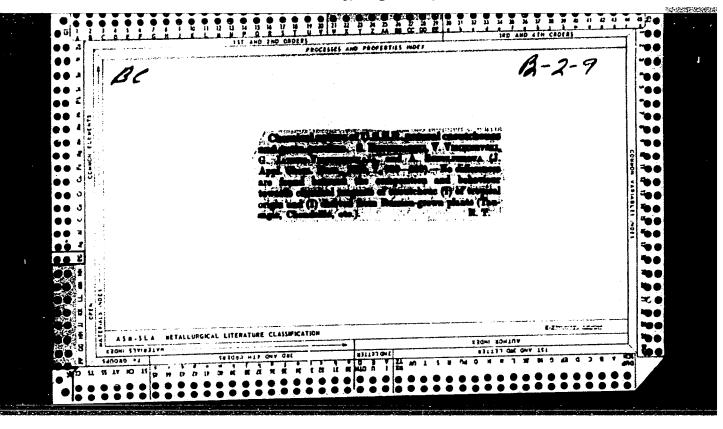
REFORMATSKIY, Igor' Aleksandrovich; PODOSHVINA, V.A., red.; VLASOVA, N.A., tekhn. red.

[Laboratories for works with radioactive substances] Laboratorii dlia rabot s radioaktivnymi veshchestvami. Moskva, Gosatomizdat, 1963. 127 p. (MIRA 17:1)

(Laboratories—Safety measures)

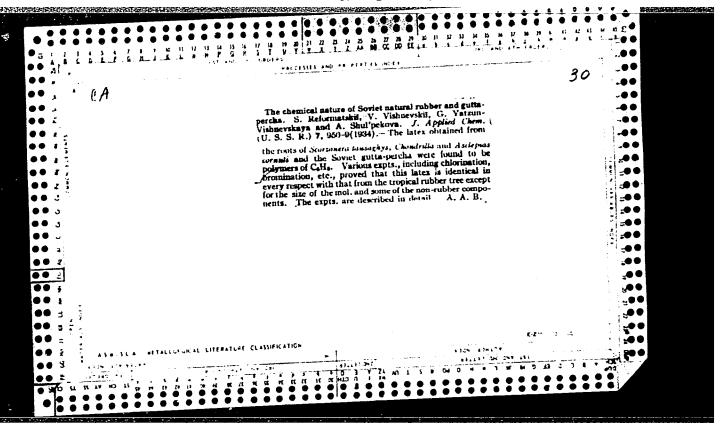
(Radioactive substances)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444



#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

## CIA-RDP86-00513R001444



AUTHORS:

Gorshkov, V.K., Ivanov, R.N., Kukavadze, G.M.,

89-7-2/32

Reformatskiy, I.A.

TIPLE:

The Yield of Fission Products of U235 Within the Domain of Rare Earths (Vykhod produktov deleniya U235 v redkon smel'acy oblasti)

PERIODICAL:

Atomnaya Energiya, 1957, Vol. 3, Nr 7, pp. 11-14 (USSR)

ABSTRACT:

The present paper describes the measuring of these yields by means of the integral mass-spectrographic method, with the help of which the relative share (in %) of several elements contained in the sample can be determined simultaneously during the experiment. This method permits the mass-spectroscopical measuring of the yields on La<sup>139</sup>, Pr<sup>141</sup>, Pm<sup>147</sup> and Pm<sup>149</sup>. Working out this method and measuring took place on a mass spectrograph with a resolving capacity of 1: 800. First, the production of the samples is dismused. The uranium preparation enriched somewhat with U<sup>235</sup> was here irradiated with thermal reutrons in a reactor. The final results of these mass-spectrographic measurings are shown in a table and are compared with some data given in publications.

Card 1/3

Lanthanum, praeseodymium, promethium, samprium: The increased yield of La139 can hardly be explained by means of the hitherto emisting

The field of Fission Products of  $\mathbf{U}^{235}$  Within the Domain of Rare Earths

89-7-9/32

theoretical investigations concerning the course of the curve of the yields. The peak "composed" from  ${\rm Fm}^{14.7}$  and  ${\rm Sm}^{14.7}$  was separated on the basis of the difference between the sublimation temperatures of samarium and promethium. According to various details given concerning the above mentioned elements the authors compute the cross section of the absorption of neutrons for  ${\rm Fm}^{14.7}$  and find:

section of the absorption of neutrons for Im  $d_{147} = 90 \pm 20$  barm.  $d_{147} = 90 \pm 20$  barm.  $d_{147} = 1000 \pm 1000$  barm. Needym: The yields of:

Notedym: The yields of:

Notedym: Two isotopes are contained mainly in the sample investigated here, namely Ce is and Ce is and Ce is with the ratio of the masses  $M_{140}/M_{142} = 1,082 \pm 0,029$ . The lack of noticeable amounts of Ce is explained by their decay in Noted in Samarium: For the lower limit of the absorption cross section of Sm is found. The following composition of isotopes for semarium was found by the authors (in %):

Card 2/3

The Yield of Fission Products of U<sup>235</sup> Within the Domain of Rare Earths

89-7-2/32

 $\text{Sm}^{146}$ :  $40 \pm 3$ ;  $\text{Sm}^{148}$ :  $15 \pm 2$ ;  $\text{Sm}^{150}$ :  $38 \pm 3$ ;  $\text{Sm}^{152}$ :  $7 \pm 2$ . There are 1 figure, 3 tables, and 6 references, 3 of which are Slavic.

SUBMITTED:

January 12, 1957

AVAILABLE:

Library of Congress

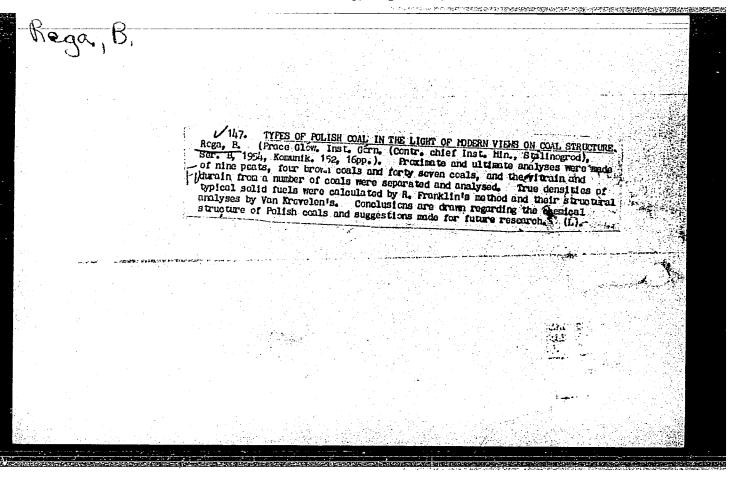
Card 3/3

1. Uranium isotopes (Radioactive)-Fission 2. Rare earths-Mass spectra 3. Lanthanum isotopes (Radioactive)-Determination 4. Praesecdymium isotopes (Radioactive)-Determination 5. Promethium isotopes (Radioactive)-Determination 6. Samarium isotopes (Radioactive)-Determination 7. Neodym isotopes (Radioactive)-Determination

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0014445

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444



Robertson H. V.

112-1-345

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957

Nr 1, p.58 (USSR)

AUTHOR:

Regachev, A.V.

TITLE:

On the Problem of Hydrological Design Parameters for Small Rivers, the Left Shore Tributaries of the Samara River (K voprosu o raschetnykh gidrelogicheskikh parametrakh dlya malykh rek - levoberezhnykh prito-

kov reki Samary)

PERIODICAL:

Tr. Kuybyshevsk.inzh.-stroit. in-ta, 1956, Nr 3, pp.147-161

ABSTRACT:

Results of determining the rate of runoff, the maximum discharge, and the rates of sediments carried by the Bezymyanka, S"yezzhaya, Vetlyanka and Chernovka Rivers, left-shore tributaries of the Samara River, are presented. Basic hydrographic data for these rivers are given as well as a description of water-stage recorder installations, and the insufficiency of available hydrological observations is noted (no observations were made

Card 1/3

on sedimentation). The need of determining the rate of

112-1-345
On the Problem of Hydrological Design Parameters for Small Rivers (Cont.)

runoff for these rivers not from direct observations but through indirect means is noted, namely: 1. from the map of average yields for several years prepared by B.D. Zaykov (1946); 2) by applying the data derived from the available short observation series to periods of long duration; 3) by the analogy method. Calculations made with all three methods are presented. For the second method, G.P. Ivanov's syltem was applied and the Yelshanskiy reservoir with an available series of observations for 60 years, was accepted as an analogy. Maximum design discharges were determined according to the formula of D.L. Sokolovskiy. In order to determine the rate of runoff of suspended matter a graph representing the relation between the discharge of suspended matter and water (with a linear relationship) was constructed. As a result of a thorough analysis of physical and geographical conditions

Card 2/3

On the Problem of Hydrological Design Parameters for Small Rivers (Cont.)

of the basins of the above-enumerated rivers and of the field hydrological material, the author established that the utilization of general formulas or maps those of [B.D. Zap-kov, D.L. Sokolovskiy, G.I. Shamov and others) leads to inaccurate results. The author suggests accepting the rated runoff as equal to 1.65 liters per second per 1 sq km instead of the 2 liters per sec per/sq km obtained from the map of B.D. Zaykov, and the rated discharge of suspended matter as 0.405 kg per cu m instead of 0.646 kg per cu m (as obtained from the data of G.I. Shamov). Bibliography: 11 titles.

Card 3/3

Yu.M.S.

AID P - 2785

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 13/19

Authors Regak, N. Ya. and N. I. Smirnov

Title Adsorption of unsaturated gases by activated carbon.

Part II.

Periodical Zhur. prikl. khim. 28, 4, 433-436, 1955

The adsorption of mixtures of ethylene, propylene, Abstract

butylenes, and divinyl was studied. Activated carbon AG was used as adsorbent. An equation formulated for the adsorption process was confirmed by the experiments.

Three diagrams, 9 refs. (8 Russian: 1935-1955)

Institution: Chair of Technology of Synthetic Rubber of the Leningrad

Technological Institute im. Lensovet.

Submitted 0 31, 1953

AID P - 2279

KEGAK, N Ya.

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 5/21

. . .

Authors : Regak, N. Ya. and N. I. Smirnov

Title : Study of adsorption processes. Part I.

Periodical: Zhur. prikl. khim., 28, no.3, 262-267, 1955

Abstract : Absorption of gases by activated carbon has been studied.

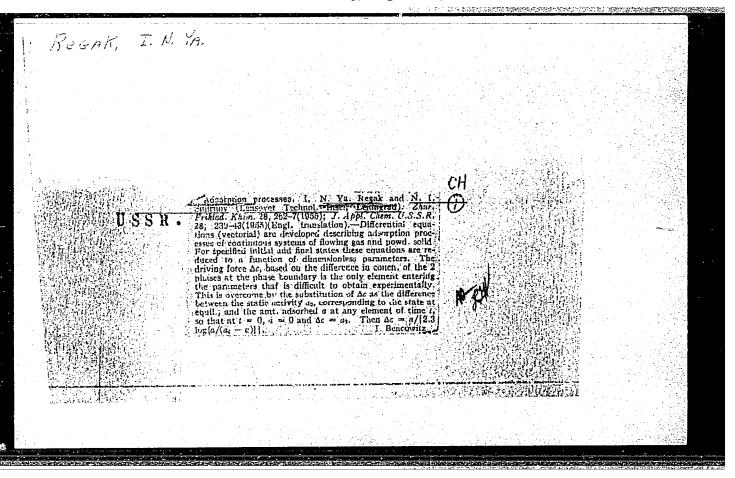
Differential equations are given to characterize the absorption processes. Seven references (6 Russian:

1938-1951).

Institution: Chair of Technology of Synthetic Caoutehoucs of the

Leningrad Technological Institute (im. Lensovet)

Submitted : 0 31, 1953



SLAVYANOV, Yu.N.; REGAK, N.Ya.; GVOZDEV, N.V.

Regeneration of alcohol from wastes of vegetable raw material. Med. prom. 14 no.8:33-35 Ag '60. (MTRA 13:8)

1. Leningradskiy khimiko-farmatsevticheskiy institut i Leningradskiy khimiko-farmatsevticheskiy zavod No.1:
(ALCOHOL) (DRUG INDUSTRY-BY-PRODUCTS)

SLAVYANOV, Yu.N.; RECAK, N.Ya.

"Reversed" rectification with the squeezing out of the solvent.

Izv.vys.ucheb.zav.;khim.i khim.tekh. 4 no.4:676-679 '61.

(MIRA 15:1)

1. Leningradskiy khimiko-farmatsevticheskiy institut, kafedra

protsessov i apparatov.

(Distillation, Fractional)

SLAVYANO, Yu.M.; REGAK, M.Ya; FILIPIM, M.A.

Construction of extractors of continuous action. Trudy Len.
khim-farm. inst. no.14: 107-112 '62 (MIRA 17:2)

REGAK, N.Ya; SLAVYANOV, Yu.N.

Distillation of alcohol from the products of the galenic industry. Trudy Len. khim.-farm. inst. no.14:82-86 62 (MIRA 17:2)

SLAVYANOV, Yu.N.; REGAK, N.Ya.

Distillation of solvents directly from battery extractors.

Med. prom. 15 no.6:44-47 Je '61. (MIRA 15:3)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(SOLVENTS)
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

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| SO: Monthly list of East European Accessions, Vol. 2, 78, Library of Congress, August 1953, Uncl.  |  |
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REGAL, V.

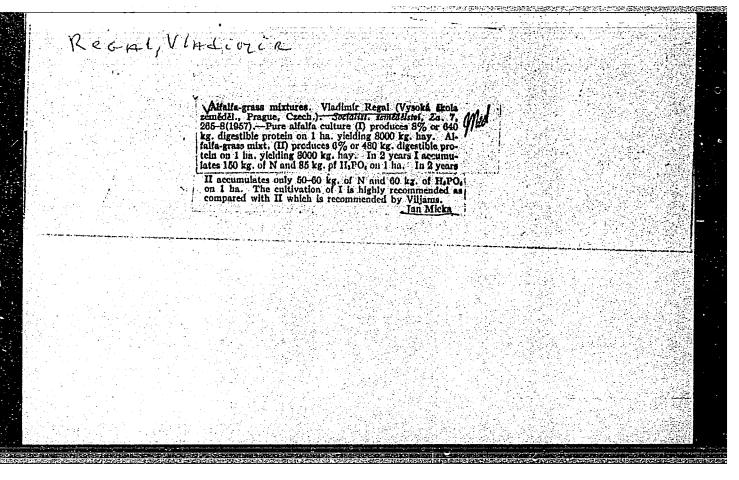
"Questions Connected With the Harrowing and Rolling of Clover and Alfalfa Grass Mixtures." p. 1267 (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 3, No. 11, Nov. 1953) Fraha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

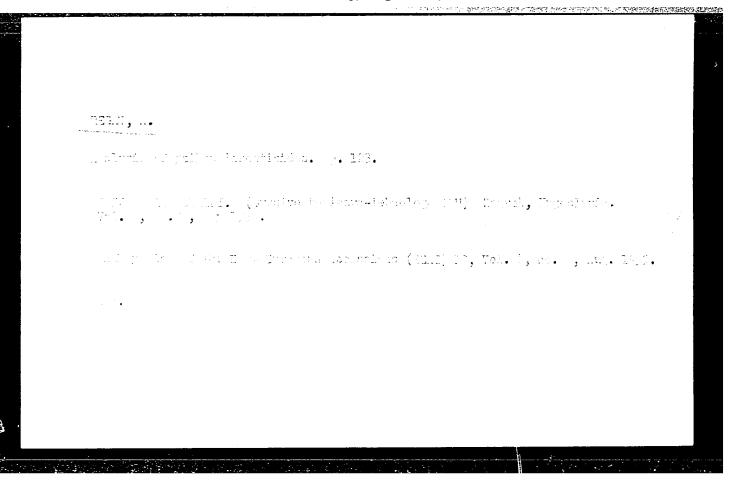
REGAL, Vladimir, doc. dr.

Ecology of the ten most importan: neadow grasses in Czecholovakia. Rost vyroba 10 no. 3:317-330 Mr '64.

1. Higher School of Agriculture, Department of Feeds, Prague.



| COUNTRY<br>CATEGORY | : IVUSSIAVIA<br>: Chardeal Pechrology. Chardeal Products and<br>Their Secs. Part 3. Pecticides   |
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REGAH, A.

Poisonous character of means for protecting plants. p. 47.

KEMIJA U INDUSTRIJI. (Drustvo kemicara-tehnologa NHR) Zagreb, Yugoslavia, Vol. 8, no. 2, Feb. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 6, June 1959.

Uncl.

YUGOSLAVIA/Plant Diseases. Diseases of Cultivated Plants

ე-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44463

Author : Lusin V., Panjan M., Regan Mastnak A.

Inst : The Croation Nature Society

Title : The Problem of Chemical Methods of Diagnosing W.rus Diseases

in Young Fruit Cultures

Orig Pub : Glasnik biol. sek. Hrvatsko prirodosl. drustvo, 1953, (1955),

Ser. 2B, 7, 239-241

Abstract : No abstract

Card : 1/1



Dwelling house construction in Budapest from the point of view of civil engineering. Magy ep ipar 13 no.8/9:491-496 '64

REGET, Role, CIMONOSICS, Jozapel

M.dornization of Stabedbattyan-Tapolog railroad line, Vasut
14 nu.6:9-10 Je '64.

3(4) AUTHOR:

Regearing (Hungary)

SOV/6-59-4-17/20

TITLE:

The Method Applied in Establishing the New Hungarian Triangulation Network of Highest Order ( Metod, primenennyy pri sozdanii novoy vengerskoy triangulyatsionnoy seti

vysshego klassa)

PERIODICAL: Geodeziya i kartografiya, 1959. Nr 4. pp 62-75 (USSR)

ABSTRACT:

A historical survey on triangulation in Hungary is first given here. All references were lost in 1945 and one had to start from the baginning. From 1949-52, the basic network of first order was established with average triangle sides of 30 km. The work according to the classical method proceeded very slowly. The principal causes for the slowness and increase in cost of the geodetic work in Hungary are two circumstances: the careful measurement of angles in points of first and second order takes, under atmospheric conditions, 2 - 4 weaks, and high signals must be built. The signals are built of pinewood which is very expensive in Hungary, and they must often be rebuilt after they have been destroyed in the time between their erection and the triangulation. Experience shows that it is convenient to build a wooden pyramid for the apparatus and a steel pyramid for the observer. As it is difficult

Card 1/3

SOV/6-59-4-17/20

The Method Applied in Establishing the New Hungarian Triangulation Network of Highest Order

for high signals to make them stable, it was attempted to obtain a sufficient view from signals as low as possible. This again made it necessary to establish the triangle network with shorter sides which, on the other hand, speeds up the observations and makes light signaling superfluous. All this led to the decision to renounce the principle of transition from large to small, and establish no separate networks of 1st, 2nd and 3rd order but to build a standard network with sides of ? - 8 km in the whole country; the necessary accuracy must be secured by corresponding preliminary calculations. It is investigated whether in this way the same accuracy is attained as by the classical method. The results of the investigation show that the necessary number of working operations for the measurement of directions fixed for the triangulation of 3rd order offers the same accuracy for the fictitious network of ist order as the classical method. A short survey on the development work of triangulation in Hungary is given here. The building of geodetic signals is first described, then the triangulation proceeding in 3 stages. In the first stage the points of the fictitious network of

Card 2/3

SOV/6-59-4-17/20 The Method Applied in Establishing the New Hungarian Triangulation Network of Highest Order

ist order are selected at intervals of about 30 km. To calculate the angles of the fictitious triangles, the networks of triangles filling up every large triangle are compensated individually. Compensation is done by the correlation method. Finally the coordinates of the vertices of the large triangles, and then the angles of the fictitious triangles, are calculated. The second stage is the compensation of the fictitious nevwork of first order within the provisional chain (karkasnaya tsep') carried out according to the method of coordinates The final coordinates for all points of 1st order are obtained as a result. In the 3rd stage, the small triangles within the fictitious large triangles are compensated once more on the condition that the coordinates of the points of the fictitious network remain unchanged. To solve this task the method suggested by Engineer Henni was used. Besides the other conditions, also the condition of diagonals applies to this method (i.e. the length of the sides of the triangles of the fictitious network is invariable). In the last stage equations are solved which contain, besides the corrections of the measured values, also corrections of the values not measured. There are 7 figures and 4 tables.

Card 3/3

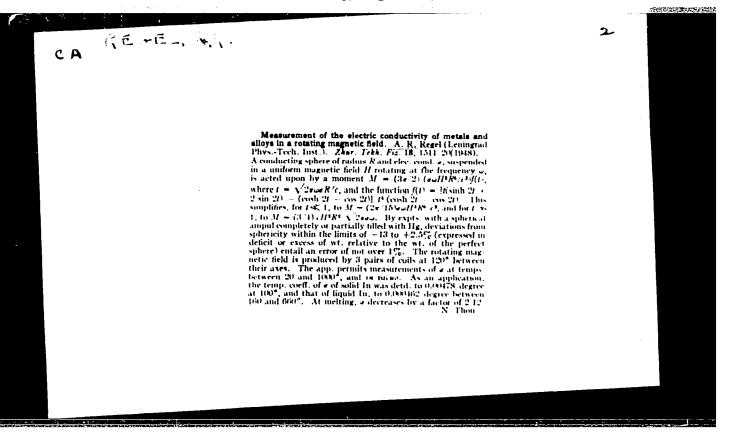
HEGEDA, H.; PINNEKER, V.; DOLGUSHIN, G.

Characteristics of tillage in virgin lands. Zemfedelie 26 no.9: 23-24 S 164. (MIRA 17:11)

1. Direktor sovkhoza "TSelinnyy" Russko-folyanskogo proizvodstvennego upravleniya (for Regeda). 2. Glavnyy agronom sovkhoza "TSelinnyy" Russko-Polyanskogo proizvodstvennego upravleniya (for Pinneker).
3. Zaveduyushchiy Russko-Polyanskim sortouchastkom (for Pelgushin).

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

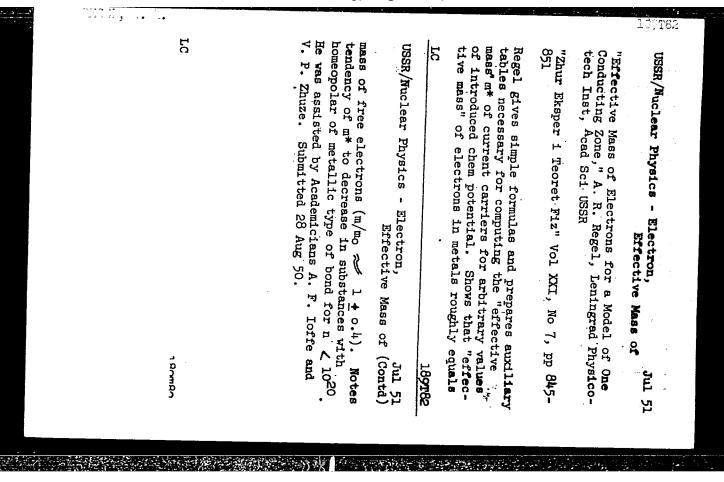
#### CIA-RDP86-00513R001444



APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0014445

100 147 HETH, I. N. USSR/Electricity - Conductivity, Selenium Mar 51 "Electric Properties of Solid Solutions of Mercury Selenide and Selenium," A. I. Blum, A. R. Regel, Leningrad Physicotech Inst, Acad Sci USSR "Zhur Tekh Fiziki" Vol XXI, No 3, pp 317-327 Tested elec cond of mercury selenide with small admixt of selenium within temp range from -190 to +850°C. Measured Hall's effect and differential thermoelec force within range of -180 to +200°C. Detd fusion point of mercury selenide on these bases to be  $690 \pm 10^{\circ}$ C. Detd limited soly of selenium in solid mercury selenide. 180T45 LC



APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0014445

فأدافك وطارات

Wilk/Physics - Sericonlantors, Conductivity

Far/Apr 52

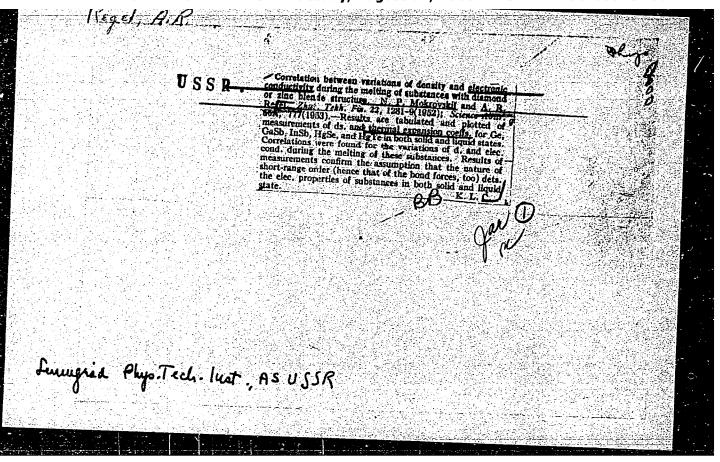
"Study of Electric Conductivity of Semiconductors and of Intermetallic Alleys in Solid and Liquid States. I," A. I. Elum, N. P. Mokrovskiy, A. R. Regel; Lenin rad Phys-Tech Inst, Acad Sci USSR

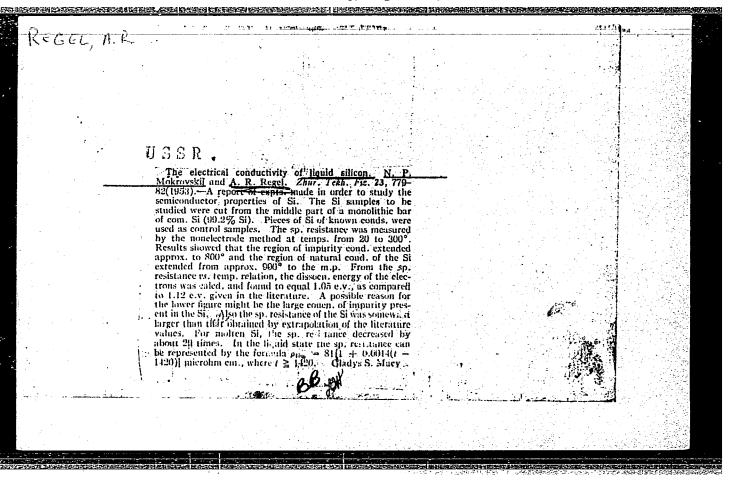
"Iz Ak Mank, Ser Fiz" Vol XVI, He 2, pp 139-153.

Study was started on suggestion of A. I. Ioffe. Analysis of data on processed samples (Ge, Te, Te \* 10% Se, MgSe, MgTe, InSb) and from literature proved that conditions governing transition of electrons into "free state," enabling them to become current carriers, depend on close order of adjacent atoms. From this viewpoint a review of foreign literature was made. A. I. Ioffe sees no basic difference in formation of free electrons in solids and in liquids. Indebted to A. I. Ioffe and V. P. Z uze.

PA 220136

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|--------------|--|
| 2261101      | 226  |
| ĝ.<br>V      | to attain reliability, rapidity and simplicity of measurement of small size samples. Received 8 May 52.  |
| or <b>ed</b> | iquids, the authors em   |
|              | "Zhur Tekh Fiz" Vol 22, No 8, pp 1376-1384  Authors state that all available methods require a long time for measurement. In developing a nonstationary method of detg the coeff of temp |
| ient ys-     | "A Method for Rapidly Determining the Coefficient of Temperature Conductivity of Solids and Liquids," V. P. Zhuze, A. R. Regel, Leningrad Phys-Tekh Inst, Acad Sci USSR                  |
| Aug 52       | USSR/Physics - Thermoconductivity Au   |
|              |  |

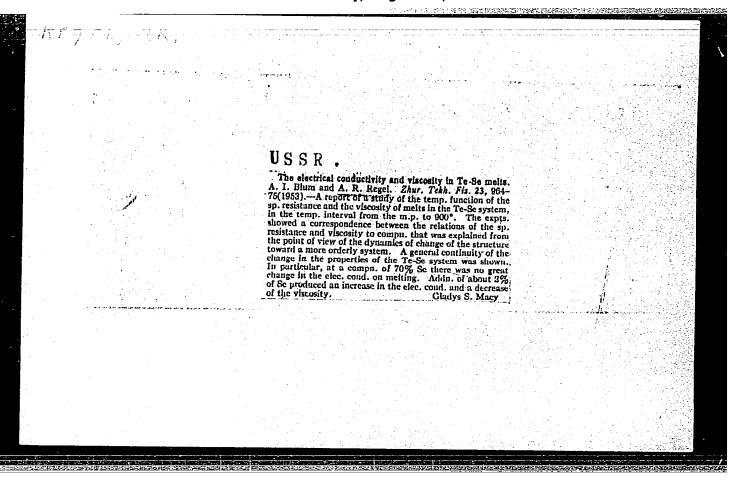


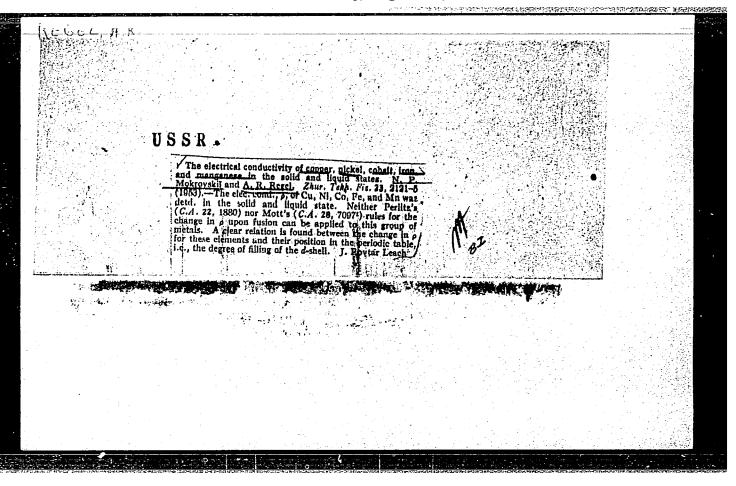


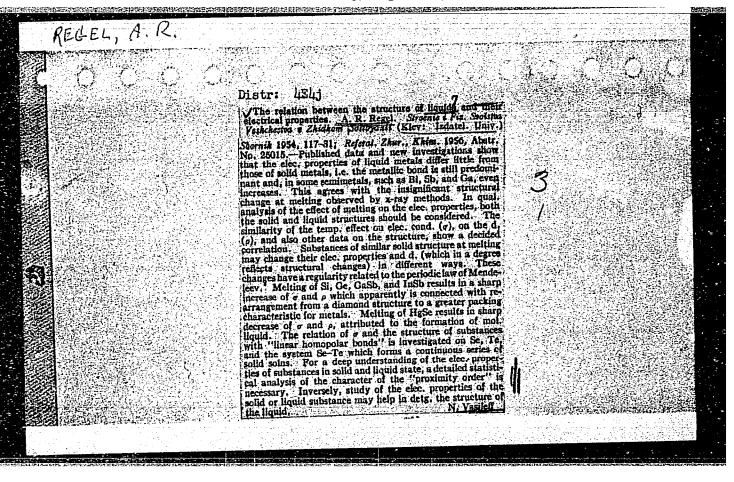
RECEL, A. R. and BLUM, A. I.

"Study of the Thermoelectromotive Force of Alloys of Tellurium and Selenium in the Solid and Liquid States.," Zhur. Tekh. Fiz. 23, 783-7, 1953.

Report of an exptl. study of the effect of temp. on the thermo e.m.f. of Te and two of its alloys with Se (85% Te + 15% Se; 30% Te + 70% Se) in the temp. range from 100-500°. A diagram of the app. is provided. The expts. showed that, for melts of Te and its alloys with Se, the thermo emf. decreased. This confirms the idea of the increase of the metallic character of the bonds in these alloys during their melting. Electrical perperties of solid solutions of Te-Se.







USSR/Physics-Pulsating cathode-ray tube

FD-1238

Card 1/1

Pub. 153-22/22

Author

: Barsukov and Regel, A. R.

Title

: Cathode-ray tube as a pulsating light source

Periodical

: Zhur. tekh. fiz., 24, 1729-1730, Sep 1954

Abstract

: Letter to the editor. After the authors terminated their study W. T. Link and D. Walker published their article on the same topic: "A method of testing the linearity of response of photomultipliers under pulsed conditions." J. Scientific Instr., 13, No 3, 110 (1954). One

quoted reference.

Institution:

Submitted: April 14, 1954

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

Regel, A.R.

USSR/Physics - Semi-conductors

Card 1/1

Pub. 22 - 19/47

Authors

Bredov, M. M.; Komarova, R. F.; and Regel', A. R.

Title

Study of the change in the rectifying properties of metal-semi-conductor systems of point-contact couplings which take place due to irradiation of the semi-conductors by ions of alkali metals

Periodical

Dok. AN SSSR 99/1, 69-72, Nov 1, 1954

Abstract

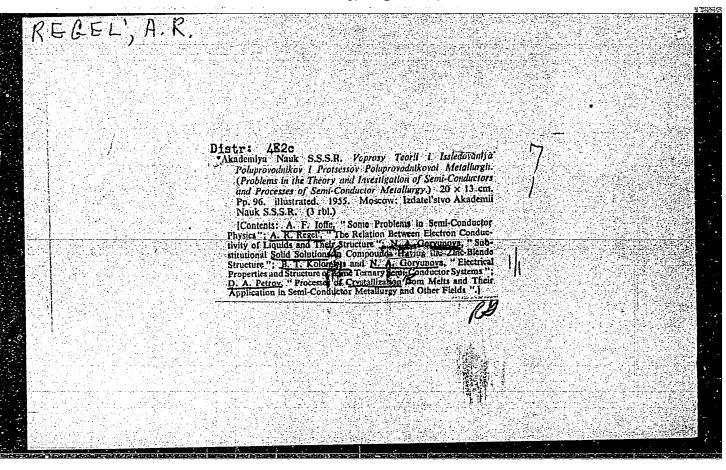
Experiments with metal-semi-conductor systems of point-contact couplings are described. The experiments are intended to establish a certain dependence of the rectifying properties of semi-conductors on their degree of irradiation by ions of alkali metals. Results of the study are presented. One reference (1950). Table; graph; diagrams.

Institution : Laboratory of Semi-Conductors of the Acad. of Scs. of the USSR

Presented by: Academician A. F. Ioffe, June 14, 1954

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

### CIA-RDP86-00513R001444



REGEL', A. R.

"Certain Peculiarities of the Temperature Dependence of the Electrical Conductivity of Liquid Metals of the Second Group in the Period Table", a paper Presented at the second conference on the Liquid State of Matter, Kiev, 30 May to 3 June 1955, Usp. Fiz. Nauk, April 1955

MEDEL, A.R.
USSR/Electricity - Semiconductors

G-3

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12190

Author

: Kaganer, V.E., Regel', A.R., Sorokin, O.V.

Inst

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Title

: Effect of Ion Bombardment on the Detecting Properties of

Semiconductors.

Orig Pub

: Sb. statey Leningr. in ta tochnoy mekhan. i optiki, 1955,

vyp. 18, 126-141

Abstract

: An investigation was made of the influence of ion bombardment (IB) on the voltage-current characteristics of a point
contact Si, Ge, SiC, PbS, and SbZn with tungsten. The ion
bombardment was carried out with ions of hydrogen, air,
oxygen, benzine, tellurium, and manganese, in order to obtain p-n and p-n-p junctions on the surface of the crystals. The effect of ion bombardment on the rectifying
properties of the crystals was established as a function
of the initial treatment of the semiconductor, of the

Card 1/3

ment makes it possible to obtain good detectors. The best

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001

FD-2402

USSR/Physics - Bismuth alloys

Card 1/1

Pub. 153-6/21

Author : Ivanov, G. A., and Regel', A. R.

Author : Ivanov, G. A., and Regel , A. H.

Title : Electrical properties of bismuth alloys. I. Solubility of admixtures

and the character of their action upon the electrical properties of

bismuth

Periodical: Zhur. tekh. fiz. 25, 39-48, Jan 1955

Abstract : The authors investigate the action of Zn, Cd, Hg, Ga, In, Tl, Sn, Pb,

As, Sb, S, Se, Te, and I upon the electrical properties of bismuth (namely, upon resistivity in ohm cm; R(H) in cgsm; alpha in microvolts/degree; a in l/degree) and show that a noticeable action is exerted only by admixtures of Sn, Pb, As, Sb, Se, and Te. They discuss certain ideas concerning the deficiencies of the Jones theory relative to the electrical properties of bismuth with admixtures, and point to the possibility of taking account of specifics in the changes in the character of the close order by atoms of the admixtures of various substances. (Note: R(H) is the Hall constant.) Twenty-three references: e.g. S. T.

Konobeyevskiy, Izvestiya Sekt. fiz. - khim. anal. AN SSSR, 16, 119, 1943.

Institution: -

Submitted: May 6, 1954

FD-2403

USSR/Physics - Bismuth alloys

Card 1/1

Pub. 153-7/21

Author

Ivanov, G. A.; and Regel', A. R.

Title

Electrical properties of bismuth alloys. II. Dependence of the elec-

trical properties of bismuth alloys on concentration of admixtures

Periodical:

Zhur. tekh. fiz. 25, 49-65, Jan 1955

Abstract

The authors evaluate the solubility of Sn, Te, and As in bismuth in 1.5, 0.25, and not more than 1.0 atomic percent. They investigate the electrical properties of the alloys Bi-Sn, Bi-Te, Bi-Sb, Bi-As, Bi-Pb-Se, Bi-Te-Sn as functions of magnetic field strength and concentration of the admixtures. The analysis of the data indicates the deficiencies of the Jones model of bismuth, which takes into account only the valence of the admixtures, and points to the necessity for taking into account during an investigation of influence of admixtures upon the electrical properties of many semimetals and semiconductors the individual peculiarities in the action of various admixtures, which clearly appear among alloys of bismuth. The authors thank Academician A. F. Ioffe and Professor V.P. Zhuze. Twenty-four references: e.g. S. T. Konobeyevskiy, Uch. zap.

MGU, 74, 17, 1944.

Institution:

Submitted :

June 17, 1954

| RECEL, A.R.   |  |
|---|--|
| McReet of Impurities on the Electrical Conduction Mechanism of AISh: A. R. Regel & M. S. Sominski, (Zh. tesh. Fiz. April 1935, vol. 3. No. 4. pp. 788-770.)  Experimental evidence shows that an admixture of Ge does not alter the conduction mechanism of AISh while admixtures of Sn. Pb. As. Bi, Se and Te transform it into a-type. The rectifying properties of AISh are also greatly affected by impurities. A theoretical interpretation of the results is presented. |  |
|   |  |
|   |  |

USSE, Physics - Electrical properties

FD-3103

Pan. 153 - 2/24

Author

: Zhuze. V. P.; Regel', A. R.

Title

: Electrical properties of alloys in the system NiTe-NiTe2

Periodical : Zhur. tekh. fiz., 25, No 6 (June), 1955, 978-983

Abstract

: The authors investigate electrical conductivity, its temperature coefficient, thermoelectromotive force, and temperature conductivity of the system of alloys with composition from NiTe to NiTe2. They note that the problem of clarifying the relation between electrical properties of chemical compounds and their crystallochemical characteristics is presently a pressing one. They acknowledge helpful discussions with Academician A. F. Ioffe, and help of scientific associates V. M. Sergeyev and Ye. L. Shturm and laboratory assistant V. M. Medvedev. Nine references.

Institution

: February 1, 1955 Submitted

FD-3171

USSR/Physics - Solid Solutions

Card 1/1 Pub. 153-1/21

Authors : Nikol'skaya, Ye. I. and Regel', A. R.

Title : Formation of solid solutions and magnetic susceptibility in the systems

HgTe-HgSe, HgTe-βHgS, HgSe-βHgS

Periodical: Zhur. tekh. fiz., 25, No 8 (August), 1955, 1347-1351

Abstract : The authors describe the apparatus which they used in studying solid solutions and magnetic susceptibility of the above mentioned systems. The re-

sults are presented in graphic form. The authors conclude that annealing leads to a considerable variation in magnetic susceptibility, characterized by an increase in absolute value. The addition of even small amounts of HgTe and HgSe to cinnabar leads to a considerable increase of diamagnetism of the system after annealing. This is connected with the transition of cinnabar into metacinnabarite when HgTe and HgSe are added. The general course of the dependence of magnetic permeability upon the concentration of component original substances is typical for systems of continuous solid

solutions.

Submitted: March 9, 1955

FD-3172

USSR/Physics - Solid Solutions

Card 1/1 Pub. 153-2/21

Authors : Nikol'skaya, Ye. I. and Regel', A. R.

Title : Some electrical characteristics of solid solutions HgTe-HgSe, HgTe-etaHgS

and HgSe-βHgS

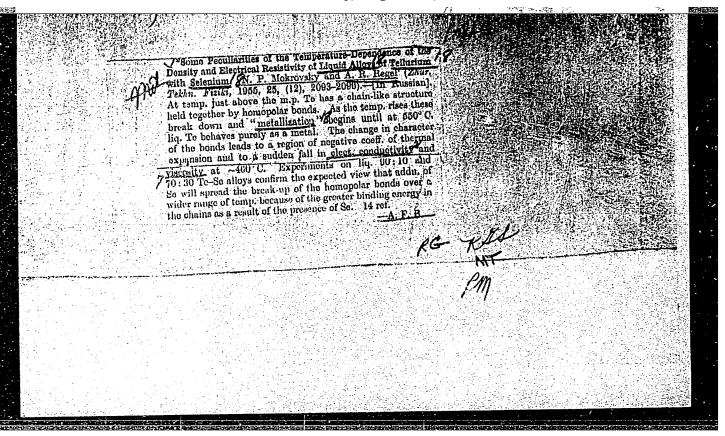
Periodical: Zhur. tekh. fiz., 25, No 8 (August), 1955, 1352-1356

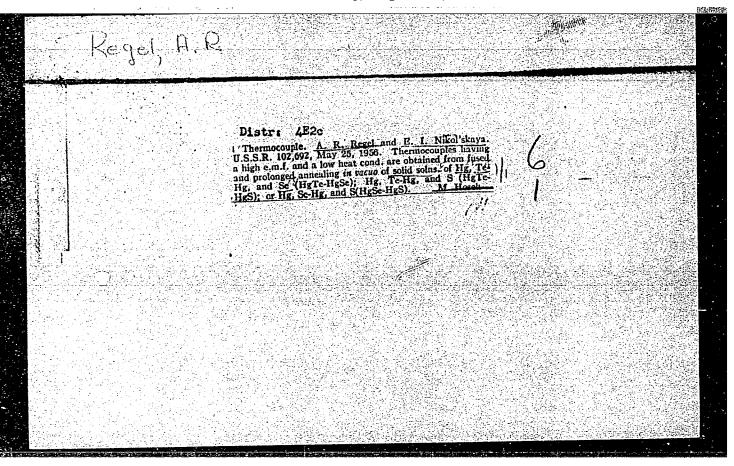
Abstract : The authors discuss the results of investigations of the solid solutions

given in the title. This article is a sequel to the preceding one, and considers specific resistance and its temperature coefficient, thermoelectromotive force and the Hall effect. The results are presented in graphical form. These graphs show the dependence of electroconductivity upon composition of solid solutions, dependence of the Hall coefficient upon composition, dependence of thermo e.m.f. and electronic mobility upon composition, and relative variation of specific resistance and Hall coefficient in dependence upon mag-

netic field intensity. The authors thank A. F. Ioffe and V. P. Zhuze.

Submitted: March 9, 1955





SURASHIYEV, V.K., kand.fiz.-mat.nauk; IOFFE, A.F., akademik, glavnyy red.; SOMINSKIY, M.S., kand.fiz.-mat.nauk, zav.glavnogo red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL. A.P., kand. fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Semiconductor converters of solar energy] Poluprovodnikovye preobrazovateli solnechnoi energii. Leningrad, 1956. 58 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Poluprovodniki i ikh tekhnicheskoe primenenie, no.9).

(MIRA 14:4)

(Solar batteries)

Keyel JAK

USSR / Electricity

G

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9680

Author

: Regel', A.R.

Inst

: Institute of Semiconductors, Academy of Sciences USSR,

Leningrad

Title

: Electrodeless Method of Measuring Electric Conductivity and the Possibility of its Application for Problems in Physico-

Chemical Analysis.

Orig Pub

: Zh. neorgan. khimii, 1956, 1, No 6, 1271-1278

Abstract

: A specimen in the form of solid sphere is suspended on a tungsten or quartz filament in a rotating magnetic field (H) produces by three coils, placed at an angle of 120° and fed from a three-phase network. The electric conductivity (c) is determined from the magnitude of the moment of the forces. The method makes it possible to carry out measure-

Card

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USSR / Electricity

G

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9680

Abstract

Card

: 2/2

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

USCR/Electricity - Se iconductors

ij-3

Abs Jour: Ref Zhur - Fizika, No 3, 1957, No 7031

Author : Ablova, E.S., Yelret yevskeya, O.D., Regelt, A.R.

Title : Electric Conductivity of Germanius-Silicon Alloys in Liquid

State.

Orig Fub : Zh. tekhn. fiziki, 1956, 26, No 6, 1366-1368

Abstract: Investigation results are given on the electric conductivity of germanium-silicon alloys at high temperatures. Measurements were made in vacuum with the application of the method of rotating magnetic fields. The dependences of the width of the forbidden zone, of the value of the jump in electric conductivity upon melting, and of the maximum electric conductivity in the liquid state on the percentage ratio of

the alloy component are all given.

Cerd : 1/1

USSR / PHYSICS CARD 1 / 2 PA - 1680

SUBJECT USSR / PHISICS
AUTHOR
AUTHOR
TITLE
On Some Possibilities of Measuring a Magnetic Field Strength with
Thin-Film-Like Donors of HALL'S Electromotoric Force produced from

HgSe, HgTe and their Solid Solutions.

PERIODICAL Zurn. techn. fis, 26, fasc. 11, 2432-2438 (1956)

Issued: 12 / 1956

For the production of donors of HALL'S electromotoric force, InSb, InAs, Ge, HgSe, HgTe, the solid solutions of HgSe - HgTe, Ag\_Te and Bi are, above all, suited. The possible applications of the HALL effect are above all determined by having to deal with a certain type of 4-pole, the reaction of which is practically inertialess up to frequencies of from 10 to 10 c. Some applications of such donors are given.

Summary: In the thin films of HgSe the mobility of electrons at room temperature attains 3000 cm²/v.sec. The concentration of the current carriers can, on this occasion, amount to from 10 to 10 cm². Thin films having such properties permit the production of donors of electromotoric force, the sensitivity of which approaches that of donors of Ge- and InSb-monocrystals. Similar results are obtained also with thin films of the solid solutions HgSe - HgTe.

The donors of HALL'S electromotoric force produced here had a sensitivity of from 20 to 40 microvolts/Ørstedt (at a width of 1 cm), and in certain cases up

Zurn.techn.fis, 26, fasc.11, 2432-2438 (1956) CARD 2 / 2 PA - 1680 to 100 microvolts/Ørstedt at room temperature without additional cooling and without any particular system of heat transfer. The temperature coefficient of the constant donor is small and usually does not exceed 0,02 volt/Ørstedt °C, the resistance of the donors may, within the range of from 20 to 2000 ohm.cm², easily be varied according to the thickness of the thin film and according to the technology of production, but operating currents at the donors are from 150 to 5 milliampère.

These donors offer, among others, the following advantages: It is possible to use them easily in narrow gaps of up to 50 microns, and in special cases also up to 10 microns, they are flexible without changing their characteristic, there is no rectification at the contact electrodes, stability is good, sensitivity with respect to the surrounding medium is low, and their simple construction makes it possible to produce donors of any shape at any size; material costs are comparatively low.

For the most simple type of the measuring device for magnetic field strength a thin-film-like donor of HALL'S electromotoric force, and as a sensitive indicator a transportable potentiometer is used. With such an apparatus it is possible to measure magnetic field strength of from some hundred gratedt up to 20000 gratedt with an accuracy of a few percent.

INSTITUTION:

SUBASHIYEV, Vagan Kasparovich, kand. fiz.-mat. nauk,: IOFFE, A.F., glavnyy red.; SOMINSKIY, M.S., kand. fiz.-mat. nauk, red.; MASLAKOVETS, red.; S. doktor fiz.-mat. nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALYT, S.S., doktor fiz.-mat. nauk, red.; REGEL, A.R. kand. fiz.-mat. nauk, red.; SHAGYRIN, K.A., inzh., red.; ACHKINADZE, Sh. D., inzh., red.

[Transistor diotes and triodes; point-contact diodes and triodes]
Poluprovodnikovye diody i triody; tochechnye diody i triody.
Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1957. 52 p.

(Poluprovodniki, no. 7).

(Transistors)

OSTROUNOV, Andrey Georgiyevich, inzh.; IOFFE, A.F., akademik, red.;
SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P.,
doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.
nauk, red.; SHALIT, S.S., doktor fiz.-mat.nauk, red.; EEGEL, A.B.,
kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk,
red.; SHACURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh., red.;
FHEGER, D.P., tekhn.red.

[Piezoelectric substances] P'ezoelektriki. Leningrad, Leningr.
dom nauchno-tekhn.propagandy, 1957. 30 p. (Poluprovodniki, no.16)
(Piezoelectric substances)

(Piezoelectric substances)

PASYNKOV, Vladimir Vasil'yevich, doktor tekhn.nauk; IOFFE, A.F., akademik, glavnyy red.; SOMINSKIY, kand.fiz.-mat.nauk, red.; MASLAKOVETS,Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R., kand. red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh.; FREGER, D.P., tekhn.red.

[Nonlinear semiconductor resistors; varistors] Nelineinye poluprovodnikovye soprotivleniia; varistory. Leningrad, Leningrodom nauchno-tekhn.propagandy, 1957. 35 p. (Poluprovodniki, no.5) (Electric resistors) (MIRA 11:1)

MIRLIN, David Naumovich; IOFFE, A.F., akademik, red.; SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk, red.; SMALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL, A.R., kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Semiconductor bolometers] Poluprovodnikovye bolometry. Leningrad, Leningr.dom nauchno-tekhn.propagandy. 1957. 36 p. (Poluprovodniki, no.4)

(Bolometer)

SMOLENSKII, Georgiy Anatol'yevich, doktor fiz.-mat.nauk; ISUPOV, Vladislav
Aleksandrovich, inzh.; IOFFE, A.F., akademik red.; SOMINSKII, M.S.,
kand.fiz-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk;
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doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-met.
nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; HEGEL,
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PA - 1949CARD 1 / 2 USSR / PHYSICS SUBJECT

ELPAT'EVSKAJA, O.D., REGEL', A.R. Some Special Features of the Electric Properties of EgSe- EgTe-AUTHOR

TITLE Films.

Zurn.techn.fis, 27, fasc.1, 45-50 (1957) PERIODICAL

Issued: 2 / 1957

At first a survey of the present stage of the problem is given. Dealing with the entire system of solid solutions HgSe-HgTe, the authors dealt with the closest attention with the properties of HgSe films, because they have formed the subject of the most intense study. The properties of the films of the entire system of the firm solutions HgSe - HgTe are essentially similar to the properties of HgSe films. The electric conductivity and the HALL effect of a group of transparent HgSe films (thickness from 0,1 to 6 microns) were measured. The films were produced by evaporation (in a vacuum) on a base of quartz, glass, mica, farfor, organic glass or getenacs (probably a material similar to farfor?). The material of these bases exercised but little influence on the properties of the films, and further glass and mica were mainly used as material for these bases. Electrodes of copper or silver were at first fixed on these bases, after which they were electrolytically coated with nickel or platinum. There follow some remarks concerning stability and reproducibility of results, as well as remarks on some peculiar features of the structure of the films. The following results were obtained from these investigations: The HgSe-HgTe films obtained by evaporation in a vacuum, in air and in steam differ only little with

RECELAR. 57-9-11/40 Regel', A.R. Gaybullayev, F., AUTHOR8 Peculiarities of the Temperature Dependence of Specific Resistance in Liquid Eutectic Systems. TITLE (Osobennosti temperaturnoy zavisimosti udel'nogo soprotivleniya zhidkikh evtekticheskikh sistem.) Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 9, pp.1996-2005 PERIODICAL (USSR) The electric conductivity of eutectics at temperatures ranging from room temperature to 1200°C was investigated ABSTRACT in the case of the following systems: Au-Sn, Pb-Te, Cu-Te, Ge-Te, Sn-Te, Cu-Sb, Bi-Te, Pb-Sn, Bi-Cd, Cd-Zn, Cd-Sn. Bi-Sn, Bi-Pb, Sn-Zn, Cd-Pb, Pb-Sbp Ag-Sb, Ag-Sn. It is shown that the dependence of electric conductivity on temperature has distinctly marked special points in the case of the following system: Au-Sn, Pb-Te, Cu-Te, Ge-Te, Sn-Te, Cu-Sb, Bi-Te, Sn-Zn, Cd-Pb, Ag-Sb, Pb-Sb, Ag-Sn. On the strength of the peculiarities in the course of temperature of electric conductivity it may be concluded that within this range of temperature a sufficiently marked melting transition from the quasieutectic structure to the homogeneous atomic solution occurs. The results obtained CARD 1/2