

L 21171-65

ACCESSION NR: AP5003033

source has shown absorption due to GaO only in the 4000 Å region. Although there is no final proof that the lower state of the investigated system is the ground state of GaO, this assumption is quite likely. The equilibrium of the reactions of Ga and In with the flame combustion products was investigated by determining the partial pressures of the metals from the relative intensity of the atomic lines in the flame spectra. The corresponding equilibrium constants were calculated from the measured partial pressures and from those calculated theoretically for equilibrium conditions. It was impossible to determine the dissociation energies of GaOH and InOH in the flames of carbon monoxide, because of the high temperature and the low concentration of the hydroxyl. In hydrogen and oxygen flames, the dissociation energies of GaOH and InOH were  $101 \pm 5$  and  $90 \pm 5$  kcal/mole, respectively. It is concluded that the main compounds of Ga and In in the 12 types of flames employed are the hydroxides, produced in the reaction  $\text{Me} + \text{H}_2\text{O} = \text{MeOH} + \text{H}$  ( $\text{Me} = \text{Ga or In}$ ). Other effects observed in the flames are briefly discussed.

ASSOCIATION: None

SUBMITTED: 04Nov63

ENCL: 00

SUB CODE: OP, JC

NR REF SOV: 003

OTHER: 004

Card 2/2

L 22894-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5003037

S/0051/65/018/001/0143/0145

AUTHOR: Gurvich, L. V.; Ryabova, V. G.

TITLE: Investigation of the dissociation energy of BaO and BaOH B

SOURCE: Optika i spektroskopiya, v. 18, no. 1, 1965, 143-145

TOPIC TAGS: barium compound, dissociation energy, binding energy, flame spectroscopy

ABSTRACT: In a book by one of the authors (with G. A. Khachkinov, V. A. Medvedev, and I. V. Veys "Termodynamicheskiye svoystva individual'nykh veschestv" [Thermodynamic Properties of Individual Substances], AN SSSR, M., 1962) it is stated that the value of the dissociation energy  $D_0$  obtained as a result of the investigation of equilibrium reactions of Ba in flames and by determining the heat of sublimation of BaO by various methods are in agreement, and yield a value  $137 \pm 2$  kcal/mole. However, since these two methods of measurement can result in a considerable dispersion of the results, the authors have redetermined the dissociation energy by measuring the partial pressure of atomic barium in a flame of carbon monoxide with oxygen, in which no BaOH molecules are formed to distort

Card 1/2

L 22894-65

ACCESSION NR: AP5003037

O

the results. The measurements were made in the flame with composition  $2\text{O}_2 + 0.03\text{H}_2\text{O}$  ( $T = 2,965\text{K}$ ). The partial pressure was determined from the absolute intensity of the  $\lambda = 5535\text{\AA}$  line. At the same time, the partial pressure of the  $\text{Ba}^+$  ions was determined from the absolute intensities of the  $4,554$  and  $4,934\text{\AA}$  lines. Check measurements were also made in three hydrogen-air flames with different compositions, and the results were much higher dissociation values, the difference being due to the fact that the flame contained appreciable amounts of  $\text{BaOH}$ . The effect of the presence of  $\text{BaOH}$  on other measurements is discussed briefly, and the values of  $134 \pm 8$  and  $114 \pm 5$  kcal/mole respectively are recommended for the dissociation energies of the molecules  $\text{BaO}$  and for the binding energy of  $\text{BaOH}$ , respectively. Orig. art. has: 2 formulas and 1 table.

ASSOCIATION: None

SUBMITTED: 03Feb64

ENCL: 00

SUB CODE: OP

NR REF Sov: 010

OTHER: 002

Card 2/2

ACCESSION NR: AP4042467

S/0294/64/002/003/0401/0405

AUTHORS: Gurvich, L. V.; Ryabova, V. G.

TITLE: The determination of metal halide dissociation energies on the basis of equilibrium reaction studies in flames. 1. Dissociation energy of BaF

SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 3, 1964, 401-405

TOPIC TAGS: equilibrium reaction, hydrogen air flame, barium, partial pressure, fluorine, dissociation rate, atomic line intensity

ABSTRACT: The equilibrium reaction rate of Ba in a hydrogen-air flame,  $aH_2 + bO_2 + cN_2 + dH_2O$ , with the addition of  $(C_2F_5)_3N$  vapor, was investigated experimentally. Barium was added to the flame in the form of 0.02 M  $BaCl_2$  solution. The absolute value of Ba partial pressures in eight different flames, at 20-mm height, was determined by the absolute line intensity  $\lambda = 5535 \text{ \AA}$  with the additions of several fluorine rates (5.5, 15.8, 35, and 50 mg/min of  $(C_2F_5)_3N$ ) and also in the absence of fluorine. From this the dissociation energy  $D_0(BaF)$  of barium fluoride was determined, using

Card 1/2

ACCESSION NR: AP4042467

the expression

$$D_0(\text{BaF}) = T[\Delta\Phi_T - R \ln K_p(\text{BaF})],$$

which gave a value of  $147.6 \pm 1.7$  kcal/mol. The dissociation energy was also determined from the ratio  $I_{\text{Ba}}/I'_{\text{Ba}}$  (relative atomic line intensity) as a function of the partial pressure  $P_{\Sigma F}$  which in turn gave a value of  $147.6 \pm 2.2$ , in excellent agreement with the first method. Orig. art. has: 5 formulas, 2 tables, and 1 figure.

ASSOCIATION: Nauchno-issledovatel'skiy institut vyssokikh temperatur (Scientific Research Institute of High Temperatures)

SUBMITTED: 06Apr64

ENCL: 00

SUB CODE: FP

NO REF SOV: 006

OTHER: 008

Card: 2/2

GURVICH, L.V.; RYAPOVA, V.C.

Studying the dissociation energies of oxygenous compounds of gallium and indium on the basis of their reaction equilibrium in flames. Part 1. Experimental methods and study of flames of the type  $aH_2 + bO_2 \rightarrow cN_2 + dH_2O$ . Teplofiz. vys. temp. 2 no.4:540-548 Jl-Ag '64. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur.

L 24480-65 EWT(m)/EPF(c)/EPR/EWP(j)/EWP(b) PC-4/Pr-4/Ps-4 RPL JD/  
WW/JW/RM

ACCESSION NR: AP4047388

S/0294/64/002/005/0834/0835

AUTHORS: Ryabova, V. G.; Gurvich, L. V.

B

TITLE: Determining dissociation energies of metal halides on the basis on investigating the equilibrium of reactions in flames. 2. Dissociation energies of CaF, CaF<sub>2</sub>, SrF and SrF<sub>2</sub>.

SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 5, 1964, 834-835

TOPIC TAGS: chromatographic analysis, dissociation energy, fluorine compound, halide

ABSTRACT: The authors present a continuation of research results in investigating dissociation energies of metal halides based upon studies of the equilibrium of reactions in flames (L. V. Gurvich and V. G. Ryabova, Teplofizika vysokikh temperatur, 2, No. 2, 215, 1964; and 2, No. 3, 401, 1964). Spectroscopic determination of equilibrium constants for the reactions forming CaF and SrF molecules was carried out by introducing strontium and calcium into hydrogen-air flames containing a small percentage of fluorine (about 0.4% of the flame gases). The flame composition was varied according to the formula  $a H_2 + b O_2 + c N_2 + d H_2O$ , where a, b, c, and d are varied to produce 8 different flame types. The authors described the experimental setup and combustion products in an earlier work

Card 1/2

L 24480-65

ACCESSION NR: AP4047388

(Teplofizika vy\*skikh temperatur 2, No. 4, 1964). In the reaction of the type  $\text{Me} + \text{HF} \rightleftharpoons \text{MeF} + \text{H}$ , the equilibrium constants were determined by spectroscopic measurement of partial pressures and by the variation of the relative intensity of the metal line in the flame spectra with and without fluorine addition for varying quantities of fluorine. Reaction equilibrium constants showed close agreement for all tests. The corresponding dissociation energies were found to be  $135 \pm 7$  and  $132 \pm 7$  kcal/mole for  $\text{CaF}$  and  $\text{SrF}$  respectively.  $\text{CaF}_2$  and  $\text{SrF}_2$  molecules were formed by the reaction type  $\text{MeF} + \text{HF} \rightleftharpoons \text{MeF}_2 + \text{H}$  in an excess of fluorine. Consideration of partial pressures led to association energies of  $\approx 136$  kcal/mole for  $(\text{CaF}-\text{F})$  and  $\approx 110$  kcal/mole for  $(\text{SrF}-\text{F})$ . Summing the dissociation and association energies yielded close agreement with earlier work performed in a different manner. Orig. art. has: 4 equations.

ASSOCIATION: Nauchno-issledovatel'skiy institut vy\*skikh temperatur (Scientific Research Institute of High Temperatures)

SUBMITTED: 31Aug64

ENCL: 00

SUB CODE: GC

NO REF Sov: 004

OTHER: 001

Card 2/2

I 40786-65    EWG(j)/EWT(m)/EPF(c)/EWG(m)/EPR/T/EWP(t)/EWP(b)  
IJP(c)/RPL    JD/JW/JG/RM  
ACCESSION NR: AP4044520

Fr-4/Ps-4

S/029L/64/002/004/0540/0548

41  
40  
B

AUTHORS: Gurvich, L. V.; Ryabova, V. G.

TITLE: Investigation of dissociation energies of gallium and indium oxygen compounds in flames during equilibrium reaction I. Experimental method and investigation of  $aH_2 + bO_2 + cN_2 + dH_2O$  flames

SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 4, 1964, 540-548

TOPIC TAGS: combustion, flame, gallium oxide, indium oxide, dissociation, metallized flame, reaction rate constant, line spectrum, partial pressure/ UM 2 monochromator, M 106/1 millivoltmeter, Orekh power source, LT 3 lamp, SI 16 lamp

ABSTRACT: The relative and absolute spectral line intensities of metal atoms in flames were studied in order to determine the dissociation energy of metallic compounds in the combustion products of the flames. It is shown that if the metal Me forms a compound MeX with a radical in the flame (O, OH, or H) one can calculate the reaction rate constant  $K_p$  in  $MeX \rightleftharpoons Me + X$  by determining the partial pressure of the metal. This in turn can be accomplished from the absolute spectral line intensities of the metal atoms in the flame obtained by comparing relative intensities with standard calibrated sources of continuous spectra. Thus

Card 1/3

L 40786-65

ACCESSION NR: APL044520

$$P_{Mo} = \frac{k\lambda}{hc g_m A_{mn}} \gamma \frac{T}{l} Q(T) e^{\epsilon_e^* E_m/T} BI_{\text{lamp}}^{\text{abs}}$$

and

$$I_{\text{lamp}}^{\text{abs}} = \epsilon_c(T) \lambda^{-1} c_1 e^{\epsilon_c^* E_m/T}$$

To measure these absolute and relative resonance lines, type  $aH_2 + bO_2 + cN_2 + dH_2O$  flames were used and the metal was introduced in the flames as salts. The flame temperatures were measured by the spectral line-reversal technique and ranged between 1765°C and 2159°C. These results were checked by measuring D-line intensity of Na after introducing  $5 \times 10^{-3}$  M solution of NaCl in the flame. In order to determine radical concentrations in the flames, the equilibrium reaction of lithium with the combustion products was investigated. At 1600–2000°C temperatures lithium exists as Li atoms and LiCH compounds with a known reaction constant. This in turn allows one to determine  $p_H$  and subsequently  $p_{OH}$  and  $p_O$ . The results of the measurement on the equilibrium reaction of Ga and In with combustion products will be given in a further study. Orig. art. has: 11 formulas, 3 tables, and 1 figure.

ASSOCIATION: Nauchno-issledovatel'skiy institut vysokikh temperatur (Scientific Research Institute of High Temperatures)

Card 273

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001446310018-3

L 40786-65  
ACCESSION NR: APL044520

SUBMITTED: 28Apr64

ENCL: 00

SUB CODES: FP, CC

NO REP SOV: 006

OTHER: 009

Card 3/3

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001446310018-3"

RYABOVA, V.G.; GURVICH, I.V.

Metal - hydroxyl bonding energy in CaOH, SrOH, and BaOH molecules.  
Teplofiz. vys. temp. 3 no.2:318-321 Mr-Ap '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur, Moskva.

GURVICH, L.V.; RYABOVA, V.G.

Determination of the dissociation energy of metal halides based  
on a study of the equilibrium of reactions in flames. Part 1.  
Dissociation energy of BaF. Teplofiz. vys. temp. 2 no.3:401-405  
(MIRA 17:8)  
My-Je '64.

1. Nauchno-issledovatel'skiy institut vysokikh temperatur.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001446310018-3

GUR/ICH, L.V.; RYABOVA, V.G.

Dissociation energy of the BaCl molecule. Teplofiz. vyss. temp.  
2 no.2:215-218 Mr-Ap '64. (MIRA 17:6)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001446310018-3"

RYABTSEV, V.I., inzh.

Operational effectiveness of OV-10 type condensate cooler for  
high-pressure heaters of K-50-90 turbines. Energetik 12 no.6:  
14-15 Je '64. (MIRA 17:9)

RYABUVA, V. V.

25(2) 251 INFORMATION 807/17/85

Budzhe-tekhnicheskaya obshchinitet nauchno-tekhnicheskikh i tekhnologicheskikh issledovaniy.

Sistemnye issledovaniya po voprosam proizvodstva (Advanced Technology of Control Production) Izdat. Nauk. i Tekhn., 1980. 132 p. 6,000 copy print.

M. I. V. E. Ryabova, S. M. D. V. Ryabova, Material'nyy Burell R. N. Arzamaz', T. Z. Pashchenko (pen. M.), S. G. Zelenaya, N. V. Polyak, Oleg' M. (Fizicheskaya Kibernetika), N. V. Ryabova, N. V. Ryabova, N. V. Ryabova, N. V. Ryabova.

This book is intended for scientific personnel, of founders, and workers of scientific research institutions.

**content:** This book is a collection of articles and papers given by representatives of plants, production-research institutes, and universities on problems of advanced methods, substantiation, organization, and realization of productivity in industry at a conference organized by the Kirov Oblast Scientific Research Institute of Machine-building Industry of the machine-building industry of the Urals. The conference was held in the city of the Academy of Sciences, Ural'sk. The conference was attended by leading world experts, one of whom, Academician of the USSR Academy of Sciences (Budapest), and others from the United States, France, and other countries. The conference proceedings are summed up in this book. In article by A. N. Sereinikov, a new method for synthesis of polymer materials preventing shortcircuiting of conductive particles is proposed. In article of V. V. Ryabova, the author describes a new method for synthesis of polymer materials of high molecular weight. In article by N. V. Ryabova, a new method of electron-beam welding is described developed by the author with the help of electron-beam gun. In article by N. V. Ryabova and called "Gold elektrode," the author describes the use of electrodes with an indirect arc action. At the time of synthesis of the polymer materials, the authors work only indirectly on the welded metal passing between the cathode and the anode. Such welding insures shallower fusion of the metal. Formation of a conductive surface layer is either absent or limited to a thin layer of not more than 0.2 mm, which favors mechanical properties. No references are mentioned. There are no references.

251 INFORMATION (cont.) 807/27/85

- ✓ Protopopov, B. I., Budzhe-tekhnicheskaya obshchinitet nauchno-tekhnicheskikh i tekhnologicheskikh issledovaniy.
- ✓ Mat'jushov, B. D., Budzhe-tekhnicheskaya obshchinitet nauchno-tekhnicheskikh i tekhnologicheskikh issledovaniy.
- ✓ Romanov, S. L., Budzhe-tekhnicheskaya obshchinitet nauchno-tekhnicheskikh i tekhnologicheskikh issledovaniy.
- ✓ Avilov, V. S., Budzhe-tekhnicheskaya obshchinitet nauchno-tekhnicheskikh i tekhnologicheskikh issledovaniy.
- ✓ Ryabova, V. V., Budzhe-tekhnicheskaya obshchinitet nauchno-tekhnicheskikh i tekhnologicheskikh issledovaniy.
- ✓ Sloboda, B. N., candidate of Technical Sciences, candidate in Geological Sciences.

Sistemnye issledovaniya po voprosam proizvodstva (Advanced Technology of Control Production) Izdat. Nauk. i Tekhn., 1980. 132 p. 6,000 copy print.

M. I. V. E. Ryabova, S. M. D. V. Ryabova, Material'nyy Burell R. N. Arzamaz', T. Z. Pashchenko (pen. M.), S. G. Zelenaya, N. V. Polyak, Oleg' M. (Fizicheskaya Kibernetika), N. V. Ryabova, N. V. Ryabova, N. V. Ryabova.

Card 4/6

PERSOVA, A.P.; RYABOVA, V.V.

Solubility of boric acid in aqueous solutions of oxalic acid.  
Zhur. neorg. khim. 10 no. 1, 209-214 Ja '65. (MIR 18, 11)

I. Voronezhskiy meditsinskij institut, kafedra biokhimii.  
Submitted July 17, 1963.

Ryabova, V. V.

AUTHOR: Ginzburg, Z.L., Engineer,

128-58-4-15/18

TITLE: Scientific-Technical Session on Progressive Technology of Casting Molds (Nauchno-tehnicheskaya sessiya po progressivnoy tekhnologii liteynoy formy)

PERIODICAL: Liteynoye Proizvodstvo, 1958, No. 4, pp 28-30 (USSR)

ABSTRACT: A conference on the technology of casting molds - organized by the NTOMASHPROM of the Khar'kov Oblast' - convened in Khar'kov on 14-16 November 1957. More than 200 delegates from plants, research institutes, vuzes and other organizations of the Khar'kov and other regions participated. Problems of earth-mold casting were discussed. A total of 24 reports were delivered on hardening and exothermic mixes and the mechanized processes in USSR and abroad. B.A. Noskov and V.I. Ryzhkov (KhPI) gave information on molding sand and clay available in the Khar'kov economic region. The following reports were also heard: V.V. Ryabova - on the use of carbon dioxide, at NKMZ, for chemical strengthening of molds, which has reduced the drying period and cut the consumption of generator gas, improved the quality of castings, and nearly

Card 1/5

128-58-4-15/18

Scientific-Technical Session on Progressive Technology of Casting Molds

doubled the production of molds; N.Kh. Ivanov - on the use of the same quick-hardening mixes, with cold carbon dioxide, at the Slavyanskiy mashinostroitel'nyy zavod (Slavyansk Machinebuilding Plant); Engineer D.A. Lur'ye (Giprostanok) - on modern methods and an installation for production of carbon dioxide; Engineer Ye.P. Tolmachev of the Voroshilovgradskiy teplovostroitel'nyy zavod (Voroshilovgrad Diesel-Locomotive Plant) - on experience with molding sand milled in a special vibration mill, which solves the problem of obtaining castings with a clean surface not only with shell molds, but also with conventional molding methods; A.Ya. Izmalkov - on the oil-less binder "P" used at the plant "Serp i Molot"; A.I. Veynik - on the theory of forced cooling of castings and the experience in this method at the Novo-Kramatorskiy i Minskiy stankostroitel'nyy zavodov (Novo-Kramatorsk and Minsk Machine Tool Plants) which developed this method in the production of large castings; I.V. Ryzhov - on the physico-chemical nature of sand crust (on castings) and the ways of eliminating this crust by producing a de-oxidizing atmosphere between the mold and the metal, casting in vacuum, or crystallization-preventive additions to water glass; P.G. Novikov (of TsNIITMASH) - on

Card 2/5

128-58-4-15/18

Scientific-Technical Session on Progressive Technology of Casting Molds

results of the collective work of TsNIITMASH and NKMZ on technological problems of the production of large molds, and the new method of forced or controlled cooling of castings in the ground, as well as on the experiments with a system of universally applicable cast parts; B.K. Dymshin of the Khar'kovskiy turbinnyy zavod (Khar'kov Turbine Plant) and Engineer I.Ye. Gabey (NKMZ) - on exothermic mixes for heating the feeding heads of steel and cast iron castings; M.L. Turovskiy - on investigation of internal stresses at the Khar'kovskiy zavod transportnogo mashinostroyeniya (Khar'kov Plant of Transport Machines); V.S. Ladnov - on mechanized casting into shell molds by shot-strewing the mold boxes, being introduced at the same transport machine plant; K.I. Kostinenko - on the organization of boxless molding at the plant Rostsel'mash; N.A. Gerashimov of the Kremenchugskiy zavod dorozhnykh mashin (Kremenchug Road Machine Plant) - on casting parts in molds produced under pressure up to 100 kg/cm<sup>2</sup>, without mold boxes, which nearly completely eliminates the necessity of machining the castings and greatly reduces the consumption of foundry materials and metal; A.M. Petrichenko of the Khar'kovskiy

Card 3/5

128-58-4-15/18

Scientific-Technical Session on Progressive Technology of Casting Molds

avtodorozhnnyy institut (Khar'kov Auto-Road Institute) - on the experience of the Chinese Democratic Republic with semi-permanent molds for thin-wall castings; Ye.A. Sukhodol'skaya of the Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnical Institute) - on some peculiarities of foundry technology in China; V.D. Bezuglov of the Khar'kovskiy zavod zubovrachebnykh materialov (Khar'kov Plant of Dentistry Materials) - on self-hardening plastics "AST" which is readily machineable, well suited for decorative correction of surface faults on metal castings, and also for making light core boxes, press-molds for wax patterns, etc. The conference recommended that the Khar'kov Sovnarkhoz organize the exploitation of molding sands and clays in the region and a centralized production of carbon dioxide. The conference pointed out the necessity of extensive use of quick-drying mold mixes, forced cooling of castings, exothermic mixes for heating the feeding heads, and the necessity to introduce the shell-mold and the chill-casting methods. The method of making molds

Card 4/5

128-58-4-15/18

Scientific-Technical Session on Progressive Technology of Casting Molds

under high pressure was recommended for use. The importance of the Khar'kov Dentistry Materials Plant and KhTZ work with self-hardening plastics for foundry use was emphasized.

AVAILABLE: Library of Congress

Card 5/5

1. Castings-Scientific reports

L 35352-66 EWT(1)/EWT(m) RO

ACC NR: AR6017800

SOURCE CODE: UR/0058/66/000/001/A058/A058

48

6

8

AUTHOR: Korotin, B. A.; Mysev, I. P.; Ryabova, Ye. A.

TITLE: Simplified procedure for calculating the counting rate of detectors and determination of optimal dimensions of measuring volumes in the radiometry of beta-active gases

SOURCE: Ref. zh. Fizika, Abs. 1A498

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr. vyp. 1, 1964, 44-53

TOPIC TAGS: radiometry, scintillation counter, pulse counting, Beta detector, gas discharge counter

ABSTRACT: One of the most reliable and simplest methods of measuring the concentration of  $\beta$ -active gases is considered - the method of direct registration of the activity of the gas (contained in a limited volume) with the aid of gas-discharge or scintillation counters. It is noted that the analytic expressions that relate the counting rate of the detector with the concentration of the  $\beta$ -active gas are complicated and cumbersome when rigorous account is taken of the geometry of the measurement and absorption of the  $\beta$  radiation by the medium, so that their practical use is very limited. Since a calculation accuracy of ~15 - 20% is perfectly adequate for many problems, it is possible to simplify the formulas and make them more universal for the determination of the sensitivity for different geometries of the measuring gas volumes. The method of obtaining simpler qualitative relations consisted in the following:

Card 1/2

L 35352-66

ACC NR: AR6017800

the counting rate  $N_0$  of a point-like detector is calculated without account of  $\beta$ -particle absorption. From an analysis of the data obtained for non-point and point-like detectors, the correction for the deviation from a point is calculated and is found to be close to unity. Similarly, the correction for absorption is determined from a comparison of the expression for  $N_0$  with the expression in which account is taken of the  $\beta$ -particle absorption (for a point-like detector). M. L. [Translation of abstract]

SUB CODE: 20, 09

Card

2/2 *[Signature]*

KRYLOV, P.N.; MAYYER, V.F.; ZHIDKOVA, M.V.; LAGUTIN, N.S.; KOROVKIN, G.N.; KIRICHENKO, N.Ya.; AGABAB'YAN, E.M.; KUZ'MINA, Ye.I.; GALYNSKIY, V.T.; SKRYLEVA, V.N.; GLAZER, L.S., red.; RYABOVA, Ye.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning national consumption in the U.S.S.R.; current problems] Planirovanie narodnogo potrebleniia v SSSR; sovremennye problemy. Pod red. V.F. Maiera i P.N. Krylova. Moskva, Izd-vo "Ekonomika," 1964. 134 p. (MIRA 17:1)

1. Moscow. Nauchno-issledovatel'skiy ekonomicheskiy institut.

FILIPPOV, V.V., red.; RYABOVA, Ye.A., red.

[Methodology of planning labor productivity in industry]

Metodika planirovaniia proizvoditel'nosti truda v pro-  
myshlennosti. Moskva, Ekonomika, 1964. 79 p.

(MIRA 17:10)

PLYSHEVSKIY, Boris Pavlovich, st. nauchn. sotr., kand. ekon. nauk;  
YAREMENKO, Yuriy Vasil'yevich, mlad. nauchn. sotr.; KATS,  
V.I., doktor ekon.nauk, red.; TRIFSIK, G.B., red.; RYABOVA,  
Ye.A., red.; PONOMAREVA, A.A., tekhn. red.

[Regularities of the development of the national product and  
national income] Zakonomernosti dvizheniya obshchestvennogo  
produkta i natsional'nogo dokhoda. Moskva, Ekonomizdat,  
1963. 187 p. (MIRA 16:8)

(Gross national product) (Income)

BRAGINSKIY, B.I., doktor ekonom. nauk, red.; KARPUKHIN, D.N., kand. ekon. nauk, red.; MASHENKOV, V.F., kand. ekon. nauk, red.; KONIKOV, L.A., red.; RYABOVA, Ye.A., red.; PONOMAREVA, A.A., tekhn. red.

[Work planning] Voprosy planirovaniia truda. Moskva, Ekonom-izdat, 196a. 349 p. (MIRA 15:6)

1. Moscow. Nauchno-issledovatel'skiy ekonomicheskiy institut.  
(Labor productivity)

S/169/63/000/001/017/062  
D263/D307

AUTHORS: Andreyeva, A.N., Karmanov, V.G. and Ryabova, Ye.P.

TITLE: A semiconductor bolometric radiant energy receiver  
for phytophysiological and microclimatic investiga-  
tions

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1963, 6,  
abstract LB46 (Sb. tr. po agron. fiz., 1962, no. 9,  
162-170)

TEXT: Construction of the bolometer is described. The  
receiving semiconducting layer is 6 - 8 mm<sup>2</sup> in area and ~ 10  $\mu$  thick.  
Its resistance is 20 - 50 k $\Omega$  at 20°C, with a temperature coefficient  
of 3.5% per degree at 20°C, and a power dissipation of 200 - 300  $\mu$ v  
per degree. Paired blocks of the bolometer are blackened and are  
placed in an internally blackened box, covered with fluorite filters.  
The device is 10 mm high and 11 mm in diameter and possesses a 20 mm  
tubular handle. The bolometer is connected into a bridge with a  
supply of 3 - 7 v. Sensitivity of the receiver is such as to allow

Card 1/2

S/169/63/000/001/017/062  
D263/D307

A semiconductor ...

operation with light intensities varying from direct solar illumination to e.g. 0.01% of that value (from 1.1 to 0.0001 volt.cm<sup>-2</sup>). The disadvantage of the bolometer is the nonlinearity of response when the film is heated, and a dependence of response on the bridge voltage. The following points are considered: measurement of the radiation balance components of leaves of vegetation, measurement of the intensity of monochromator light beams, measurement of the indicatrix of dispersed light, study of the radiational field of light installations, determination of the relative emissive characteristics of various bodies and the determination of the rate of drying of the ground and of leaves.

[ Abstracter's note: Complete translation ]

Card 2/2

KAGAN, V.K.; RYABOVA, Ye.P.

Calculating the spectral brightness distribution for a cloudless sky using a two-parameter model of the atmosphere. Trudy  
GGO no.152:16-30 '64. (MIRA 17:7)

KAGAN, V.K.; RYABOVA, Ye. P.

Calculating the components of radiation balance of the surfaces  
of engineering structures. Inzh.-fiz. zhur. no.2:131-143 F '61.  
(MIRA 14:4)

1. Agrofizicheskiy institut, Leningrad.  
(Solar radiation)  
(Building)

AUTHOR:

Ryabova, Ye. P.

SOV/50-58-11-2/25

TITLE:

Certain Peculiarities of Irradiation of Ridge-like Soil Surfaces Through Direct Solar Radiation (Nekotoryye osobennosti oblucheniya grebnistoy poverkhnosti pochvy pryamoy solnechnoy radiatsiyey)

PERIODICAL:

Meteorologiya i gidrologiya, 1958, Nr 11, pp 11-17 (USSR)

ABSTRACT:

Most of the agricultural plants of the USSR outside the black-earth belt suffer from lack of warmth and excessive humidity. Since a long time the methods of using ridge-like soil formations for the growing and harvest increase of early vegetables is employed. It was shown that by cultivating ridge-like beds temperature conditions in the soil are notably changed. In order to clarify this the author has, in the years of 1954 and 1955, investigated by experiment all elements of heat balance relative to a soil with ridge-like beds and to level soil. In the present paper the author deduces equations which permit solution of different problems related with the said problem whereby investigation results of N. N. Kalitin (Ref 1, Table 1) were used (1) - (7b). The diagrams (Figs 2,3) show the results of calculations. The said equations make it possible to sort .

Card 1/3

SOV/50-58-11-2/25

Certain Peculiarities of Irradiation of Ridge-like Soil Surfaces Through  
Direct Solar Radiation

out the importance of direct solar radiation in the heat balance of a ridge-like surface. Especially, the following data were found: 1) the irradiation of a ridge-like surface through direct solar radiation takes place irregularly as one ridge overshadows the other. The most intense radiation hits the upper part of the ridge-like beds; for a latitude  $\gamma = 60^\circ$ , however, the shadow until the half height of the ridge is quite unimportant. 2) At the beginning of irradiation, one flank of the ridge receives a larger amount of radiation (relatively as well as absolutely) at all azimuths than this is the case with a level surface. 3) At some azimuths, the proportion of the radiation amount hitting a ridge-like and a level surface can increase indefinitely. However, the high values of this amount are not characteristic as the absolute radiation amount reaching the earth's surface is negligible. The difference of absolute radiation amounts, therefore, hitting a ridge-like and a level surface, constitutes a more important comparative characteristic factor. From this point of view, the Northeast-Southwest ( $\beta - \text{azimuth of ridge} = 45^\circ$ ) direction of ridges is

Card 2/3

SOV/50-58-11-2/25

Certain Peculiarities of Irradiation of Ridge-like Soil Surfaces Through  
Direct Solar Radiation

more favorable. In doing so, the south-eastern flank receives the largest amount of direct solar radiation (as compared with a level surface) during the first half of the day. A little less favorable is the North-South direction of the ridges ( $\beta = 0$ ) although, in this case, the warming up of the eastern part at the beginning and of the western part towards the end of irradiation takes place in a very intense degree. There are 3 figures, 1 table and 9 references, 8 of which are Soviet.

Card 3/3

RYABOVA, YE. G.

SUSHILIN, V.A.; ROMANOVA, N.L.; RYABOVA, YE. G.

Adsorption test for water injection wells. Neft. khos. 34 no.12s  
36-37 D '56.  
(Oil field flooding)

(MLRA 10:8)

RYABOVA, Ye.K.

One theorem on orthogonal functions. Uch.zap.Kaz.un. 116 no.5:10-  
12 '56. (MLRA 10:4)

1. Kafedra differentsiyal'nykh uravneniy.  
(Functions, Orthogonal)

RYABOVA, Ye.P.

Thermal sound for measuring soil tempeature along a vertical  
line. Sbor.trud.po agron. fiz. no.5:97-101 '52. (MIRA 11:7)  
(Soil temperature--Measurement)

Kyabekov, Yu. P.

## PLATE I BOOK EXPLANATION

SOV/117  
SOV/2-2,100

Indulgens. Glavnoye geofizicheskoye obshchestvo

Izdatelstvennoye redaktsionnoye i proizvodstvo (Investigation of Radiation Processes).

Leningrad, Glazmashpolit, 1950. 157 p. (Soviet State Prize, vyp. 100).

Kreva sliy inserted. 1,000 copies printed.

Additional Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy

sluzhby.

Ed. (title page): E.S. Bulkin, Doctor of Physics and Mathematics, and V.I.

Gavrilov, Candidate of Geography; Ed. (Index book): D.V. Zhdanov; Tech.

Ed.: M.I. Berezina.

PURPOSE: The publication is intended for meteorologists and students of hydro-

meteorology at higher technical schools.

CONTENTS: This issue of the Transactions of the Main Geophysical Observatory issue

A.I. Terpilov contains 27 articles on investigation of the radiation processes

occurring in the atmosphere and on the active surface. Individual articles on

the rolling copper are included. Light dispersion in a two-layered atmosphere

is considered. A study is made of the atmospheric temperature inversion

investigation of long-wave radiation of the atmosphere, optical characteristics

of the atmosphere, instruments for measuring the optical properties of long-wave

radiation, aircraft instruments for measuring the atmospheric transparency, and the dependence of long-wave

atmospheric radiation upon the meteorological elements. References: 130

17

Kargin, V.F., A.I. Terpilov, and T.P. Rybina. Brightness of a Cloudless Sky in a Two-Layered Model of Atmosphere. 20

Terpilov, A.I. Mean Daily Values of the See Albedo. 21

Terpilov, A.I. Investigation of the Meteorological Distance of Visibility During Rainfall. 25

Bel'skikh, T.A. and V.B. Postnikov. Investigation of the Meteorological

Range of Visibility During a Snowfall. 29

Sal'manovich, L.I. Microstructure and Transparency of Snowfall. 33

Prudnikov, F.P. Spectral Variation of Ground Contrasts in the Visible and Near-Infrared Region of Spectra. 37

Dorofin, V.I. Device for Measuring and Recording the Transparency of the Atmosphere. 39

Ogurcov, Yu. Investigation of the Langmuir Radiation of the Atmosphere. 85

Frolovskiy, A.M. Black Radiator With a Large Aperture. 93

Torilova, T.O., and V.I. Goryainik. Electronic Temperature Controller. 105

Krasil'nikov, L.B., and O.I. Gol'tser. Photometric Device for Measuring Spectral Coefficients of Reflection. 110

Rabinovich, Ju.I. Aircraft Instruments for Measuring Spectral Optical Characteristics of Atmosphere and Underlying Surface. 115

Fridman, M.I. Application of Interference Filters or the Fabry-Perot Interferometer Type for Standardized Spectral Measurements of Direct Solar Radiation in the Ultraviolet Region or Spectra. 124

Fridman, M.I. Problem of Seeing With Lens Receivers Through a Cloudy Atmosphere. 128

KAGAN, V.K.; PEREL'MAN, A.Ya.; RYABOVA, Ye.P.

Brightness of a cloudless sky in a two-parameter atmospheric  
model. Trudy GGO no.100:20-24 '60. (MIRA 13:6)  
(Solar radiation)

*Cond.*  
RYABOVA, Ye. P.: Master Phys-Math Sci (diss) -- "Radiational and thermal conditions of the friable surface of soil". Leningrad, 1958. 16 pp (Main Geophysical Observatory im A. I. Voevodov), 150 copies (KL, No 2, 1959, 118)

RYABOVA, Ye.P.

Some features of direct solar irradiation of furrowed soil surfaces. Meteor. i gidrol. no.11:11-17 N '58. (MIRA 11:12)  
(Solar radiation) (Vegetable gardening)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001446310018-3

KAGANOV, M.A.; RYABOVA, Ye.P.; CHUDNOVSKIY, A.F.

Soil temperature of fields between strips of forest. Sbor. trud.  
po agron.fiz. no.6:96-104 '53. (MIRA 11:?)  
(Soil temperature) (Forest influences)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001446310018-3"

S/170/61/004/002/018/018  
B019/B060

AUTHORS: Kagan, V. K., Ryabova, Ye. P.

TITLE: Calculation of the Components of the Radiation Equilibrium  
of Structure Surfaces

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 2,  
pp. 131-143

TEXT: The part played by radiation in building construction was discussed  
in a number of lectures at the II Vsesoyuznyy soveshchanii po  
aktinometrii i atmosfernoy optiki (2nd All-Union Conference on Actinometry  
and Atmospheric Optics) (1959). The present paper is devoted to the  
construction of a computation scheme for the determination of all  
components of the radiation equilibrium of a surface element when the  
radiative exchange with other surfaces surrounding this surface element  
is taken into account. After a definition of designations and geometrical  
relations the direct solar radiation is first dealt with and an expression  
is obtained for the solar radiation flux, which is a function of the ✓  
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Card 1/2

Calculation of the Components of the  
Radiation Equilibrium of Structure Surfaces

S/170/61/004/002/018/018  
B019/B060

geographic latitude, sun's altitude, and time of day. An expression for the scattered radiation is derived in the following section. The longest section is devoted to reflected radiation. Expressions concerning the radiation flux are developed for regularly and diffusely reflected radiation. A set of formulas is finally set up for the calculation of the radiative exchange. The radiative exchange is the resultant of counter radiation, of reflection from the surrounding objects, heat radiation, and reflections of the element investigated. Expressions are given for these components of radiant exchange. M. P. Yelcvskikh is mentioned. There are 2 figures, 3 tables, and 15 references: 14 Soviet and 1 German.

ASSOCIATION: Agrofizicheskiy institut, g. Leningrad (Institute of Agricultural Physics, Leningrad)

SUBMITTED: August 3, 1960

Card 2/2

RYABOVA, Ye. P.

"Measurement of the Temperature Profile of Air in Sod, and of the Temperature of Winter Wheat's Leaf and Spike".  
Sbornik tr. po agron. fizike, No 7, pp 217-223, 1954.

Certain results of investigations on the phytoclimate of winter wheat during the period of spike formation and waxy ripeness are given. By means of microthermometers (diameter of the globe, 0.1 cm) measurements of the air temperature of the leaves and spikes of winter wheat were carried out. (RZhGeol, No 10, 1955)

SO: Sum No 884, 9 Apr 1956

KVNOVA, Yu. V.

6100 570

Meteorological Abst.  
Vol. 4 No. 9  
September 1953  
Part 1  
Radiation and  
Temperature

4.9-125 551.525.4-551.584.43  
Rozenfel'd, L. M. and Riabova, E. P. Izmerenie temperatury uzla kushchenia ozimykh kul'tur v period ikhi perezimovki. [Measurement of the stooling node temperatures of winter crops during the wintering period.] Vsesoiuznaya Akademiia Sel'skokhoziaistvennykh Nauk imeni V. I. Lenina, Doklady, No. 1:26-29, 1952. 3 figs., table, 3 refs. DLC—Investigations were made during the winter of 1950/1951 at Ershovo experimental point of Saratov Agricultural Institute. Thermocouples of great sensitivity were brought into close connection with the stooling nodes of plants for measurement of their temperatures. Insignificant differences have been found between the temperatures of stooling nodes and the soil near the nodes. This permitted the determination of the temperature of stooling nodes by measurements of soil temperature near by. The peculiarities of the microrelief caused much greater differences, and that is why the representative characteristics of thermal conditions can be obtained with sufficient accuracy by measurements of soil temperature in many points of the field. Subject Headings: 1. Plant climatology 2. Microclimatology 3. Agricultural meteorology.—N.T.Z.

EH  
5/21/54

RYAN'KOVA, Ye. V.

"Transverse Impact With Variable Velocity Along a Flexible Filament." Sub 13 Dec 51.  
Sci Res Inst Mechanics and Mathematics, Moscow Order of Lenin State Univ. M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, May 55.

RYABCOVA, YE. V.

*fix*  
Defended ~~his~~ Candidates dissertation in the Mechanics and Mathematics Faculty  
of Moscow State University on 7 May 1952.

Dissertation: "Transverse Stroke With Variable Speed Along an Elastic Thread."

SO: Vestnik Moskovskogo Universiteta, Seriya Fiziko-Matematicheskikh i  
Yestestvennykh Nauk, No. 1, Moscow, Feb. 1953, pp 151-157: transl. in  
W-29782, 12 April 54, For off. use only.

RYABOVA, Ye.V.

RYABOVA, Ye.V.

The problem of striking a string with a wedge. Vest.Mosk.un.  
Ser.mat.,mekh.,astron.,fiz.,khim. 11 no.1:57-62 '56. (MIRA 10:12)  
(Elastic rods and wires) (Wedges)

RYABOVA, Ye.V., kand.fiz.-matem.nauk, dotsent

Solution of one impact problem by the "method of characteristics".  
Nauch. trudy MPI no.7/8:121-141 '58. (MIRA 14:12)  
(Elastic rods and wires)  
(Impact)

RYABKOVA, Ye.Ya., kand.tekhn.nauk; BAZELYAN, E.M., inzh.; SOKOLOV,  
S.A., inzh.

Deformation of underground communication cables due to  
lightning discharges. Izv.vys.ucheb.zav.; energ. 2 no.9:  
38-42 S '59. (MIRA 13:2)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena  
kafedroy tekhniki vysokikh napryazheniy.  
(Electric lines, Underground) (Lightning)

22(1)

SOV/3-59-3-36/48

AUTHOR: Ryabova, Ye.V.

TITLE: Conference of Scientist-Lawyers (Soveshchaniye  
uchënykh-yuristov)

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 3, p 71 (USSR)

ABSTRACT: The "Further Development of Soviet Democracy and Strengthening of Socialist Law" was the subject of a conference convened by the USSR Ministry of Higher Education at the Juridical Department of Moscow University. Among the more than 500 persons participating were not only instructors of Law vuzes and workers of scientific institutes, but also workers of courts, the procurator's offices, other state and social organizations, State Publishing Office of Law literature, editors of journals and post-graduate students of the MGU Juridical Department. The following lawyers-scientists from countries of people democracies also participated: Boris Spasov, Pro-Rector of Sofia University; Leon Kurovskiy, Dean of

Card 1/4

Conference of Scientist-Lawyers

SOV/3-59-3-36/48

the Juridical Department of Warsaw University; Ion Oancha, Head of Chair for Criminal Law and Action of the Bucharest University imeni Parkhon; Professor Oswald Unger, Head of Chair of State and Administrative Law of the German Academy of State and Law imeni W. Ulbricht, Professor Laslo Nevai of Budapest University, and others. The plenary session was opened by Professor D.S. Karev, Dean of the Juridical Department of the MGU. Three reports called for the special attention of the conference: Professor N.G. Aleksandrov (MGU) elucidated the problem of Soviet democracy and Socialist law during the period of a gradual transition to Communism; **Corresponding Member** AS USSR, Professor S.A. Golunskiy (MGU), who has visited the USA, familiarized the conference participants with the latest trends in ideology in the field of law in that country; **Corresponding Member** AS USSR, Professor P.S. Romashkin (Law Institute AS USSR) reported on the discussion of questions of Socialist law at the International Conference in Warszawa. At meetings of the

Card 2/4

Conference of Scientist-Lawyers

SOV/3-59-3-36/48

9 sections of the conference, 65 reports and scientific messages were given and 146 persons participated in the discussions. The problems discussed referred to the development of democracy and strengthening of Socialist law, and to law projects of the Union and individual republics. Joint sessions of various sections discussed reports concerning general problems of several branches of law. A joint meeting of the Sections of Theory and History of State and Law, and of Criminal Action and Civil Action heard reports on "The Inner Belief of Judges and Socialist Law" (Docent P.O. Nedbaylo - L'vov University) on "Socialist Justice of a Court's Decision in the Soviet State" (Docent V.G. Sokurenko - L'vov University), and several others. The addresses of Candidate of Juridical Sciences V.M. Lesnoy (MGU) on "Democratic Centralism and the Further Development of the Soviet System of Administration" and of Docent Ya.M. Bel'son (Kazakh University) on "The Basic Tendency in Modern Bourgeois Science of State and Law" were delivered to the joint session of the

Card 3/4

Conference of Scientist-Lawyers

SOV/3-59-3-36/48

Sections for Theory and History of State and Law, and for State and Administrative Law. The report of Professor A.A. Gertsenzon (Vsesoyuznyy nauchno-issledovatel'skiy institut kriminalistiki - All-Union Scientific-Research Institute of Criminal Law), delivered at the joint meeting of the Section for Criminal Action and Section for Criminal and Reformatory - Labor Law, on some problems of studying and preventing criminality caused lively discussions. The conference members recommended that in 1959 a conference be convened to study the causes of criminality, that for this subject a special course be introduced in the higher educational institutions, and that a scientific center for studying and preventing criminality be established.

Card 4/4

RYABOVOI, I.M., inzh.

Automatic control of the temperature for heating mineral materials  
in the D-138 mixer. Avt.dor. 24 no.12-12-13 D '61. (MIRA 14:12)  
(Thermostat)

BRODYANSKIY, B.A., inzh.; RYABOVOL, I.M., inzh.

Building roads in the virgin territories of the Golodnaya Steppe.  
Avt.dor. 24 no.5:5-6 My '61. (MIRA 14:6)  
(Golodnaya Steppe—Road construction)

RYABOVOL, V. A., MIKHAYLOV, V. I.

Sugar - Manufacture and Refining

Conference of innovators. Sakh. prom. 26 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June, 1952. UNCLASSIFIED

MIKHAYLOV, V. I. - RYABOVOL, V. A.

Hose

More on the use of rubber tubing for sulfur dioxide. Sakh. prom. 26, no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; IVLIYЕVA, Ye.A.; RYABOVICH, V.V.  
PAPASHNIKOV, L.M.

Kinetic method of evaluating systems of percolation hydrolysis of  
sawdust. Gidroliz. i lesokhim. prom. 11 no.6:3-6 '58.  
(MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i  
sul'fitno-spirtovoy promyshlennosti.  
(Hydrolysis)

YANAKIEVICH, G.V., inzh.; RYABOV, V.V., inzh.

Effect of the manganese content on the durability of the ingot molds.  
Stal' 24, no.9:300-301 S '64. (MIRA-1710)

i. Magdeburgskiy metalurgicheskiy kombinat.

LIPIN, Aleksandr Ivanovich, inzh.; SHLUGER, Mikhail Aleksandrovich,  
kand. tekhn. nauk; RYABOY, Ayzik Yakovlevich, inzh.; SHOVIK,  
L.Ye., inzh., ved. red.; SOROKINA, T.M., tekhn. red.

[Reducing the loss of chromium anhydride in electrolytic  
chromium plating. Chromium plating from a cold tetrachromate  
electrolyte] Umen'shenie poter' khromovogo angidrida pri elek-  
troliticheskem khromirovani. Khromirovanie iz kholodnogo  
tetrakhromatnogo elektrolita. [By] A.IA.Riaboi, M.A.Shluger.  
Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958.  
16 p. (Perevodoi nauchno-tehnicheskii i proizvodstvennyi  
opyt. Tema 13. No.M-58-203/21) (MIRA 16:3)  
(Chromium plating) (Electrolytes)

RYABOY, A. YA.

Cand Tec Sci, Diss -- "Electrolytic chromium plating from a tetrachromate electrolyte". Moscow, 1961. 13 pp, 21 cm (Min of Higher and Inter Spec Educ RSFSR. Krasnoyarsk Inst of Nonfer Metals imeni M. I. Kalinin), 200 copies, Not for sale (KL, No 9, 1961, p 184, No 24367). [61-523167]

5(2)

SOV/80-32-3-21/43

AUTHORS: Ryaboy, A.Ya., Shluger, M.A.

TITLE: The Electric Precipitation of Chromium From a Tetrachromate Bath  
(Elektroosazhdeniye khroma iz tetrakhromatnoy vanny)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 3, pp 588-595  
(USSR)

ABSTRACT: The electric precipitation of chromium from an electrolyte of the following composition is studied here: CrO<sub>3</sub> 360 - 400 g/l, NaOH 50 - 60 g/l, H<sub>2</sub>SO<sub>4</sub> 2 - 2.5 g/l, sugar 0.8 - 2 g/l. The current density is 50 a/dm<sup>2</sup>, the temperature 20 ± 0.2°C. At a H<sub>2</sub>SO<sub>4</sub> concentration of 1.5 - 2.5 g/l the precipitates are of good quality and are easily polished. The optimum is between 2.0 and 2.5 g/l. The optimum of the alkali content is 60 g of caustic soda per liter. The content of trivalent chromium is determined by the quantity of sugar present. The addition of 1.5 - 2 g/l to the electrolyte which corresponds to 8 - 10 g of trivalent chromium per liter shows the best results. A content of 350 - 400 g/l of chromium anhydride produces precipitates of good quality. The optimum temperature is 45°C. At this temperature shining chromium is precipitated. The current density may

Card 1/2

SOV/80-32-3-21/43

The Electric Precipitation of Chromium From a Tetrachromate Bath

vary between 40 and 80 a/dm<sup>2</sup>. The precipitates from tetrachromate have a low hardness of 350 - 400 kg/mm<sup>2</sup>. The porosity of covers produced at a temperature of 20 - 25°C and a current density of 40 - 60 a/dm<sup>2</sup> is satisfying. Under other conditions it is very high. The inner stresses are lower than in chrome-plating from the usual electrolyte.

There are 11 graphs and 5 references, 4 of which are Soviet and 1 English.

SUBMITTED: February 14, 1958

Card 2/2

SHLUGER, M.A., RYABOV, A.Ya., KAZAKOV, V.A.

Internal stresses in chromium platings deposited from a tetra-chromate electrolyte. Zhur.prikl.khim. 33 no.5:1217-1218 My '60.  
(MIRA 13:?)

(Chromium plating) (Strains and stresses)

MAR'YANOVSKIY, I.M.; GORBACHEV, A.G.; RYVKIN, G.M.; RYABOY, A.Ya.; KONAKOV, G.A.; GRIGOR'YEV, N.I.

Authors' abstracts of dissertations. Vest.mashinostr. 42 no.5:89 My '62. (MIRA 15:5)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina (for Mar'yanovskiy, Gorbachev).
2. Moskovskiy stankoinstrumental'-nyy institut (for Ryvkin).
3. Krasnoyarskiy institut tsvetnykh metallov imeni M.I.Kalinina (for Ryaboy).
4. Khar'kovskiy politekhnicheskiy institut imeni A.A.Zhdanova (for Konakov).
5. Leningradskiy korablestroitel'nyy institut (for Grigor'yev).

(Bibliography--Mechanical engineering)

S/080/61/034/001/015/020  
A057/A129

AUTHORS: Ryaboy, A.Ya., Shluger, M.A.

TITLE: Investigation of the Cathodic Process during Electrodeposition of Chromium from a Tetrachromate Electrolyte

PERIODICAL: Zhurnal Prikladnoy Khimii, 1961, Vol. 34, No. 1, pp. 177-181

TEXT: The present work is a detailed investigation into the influence of each component in a tetrachromate electrolyte on the cathodic electrodeposition of chromium. The obtained results were discussed from the assumption stated by M.A. Shluger and V.A. Kazakov [Ref.4: ZhFKh, 33, 7, 1666 (1959)] that a colloidal film is formed on the cathode during electrodeposition of chromium. Tetrachromate electrolytes are of practical interest because of essential advantages to other chrome-plating electrolytes and were already investigated by the present authors [Ref.2: ZhPKh, 32, 588 (1959)] and M.A. Mitskus [Ref.3: Voprosy teorii khromirovaniya (Problems of the theory of chrome-plating), AN LitSSR, 53 (1959)], but insufficiently. The present electrolysis were made in a H-shaped cell at 20°C using a lead-lamina anode and Pt-lamina

Card 1/9

S/080/61/034/001/015/020  
A057/A129

Investigation of the Cathodic Process during Electrodeposition of Chromium  
from a Tetrachromate Electrolyte

cathode (both  $0.36 \text{ cm}^2$ ). The electrolyte was prepared from chromium anhydride, sodium hydroxide and sulfuric acid. Polarization curves were obtained by measurements on a PPTB-1 (PPTV-1) potentiometer by the compensation method. The polarization curve (Fig.1) obtained from an electrolyte of the optimum composition:  $\text{CrO}_3$  400 g/l,  $\text{NaOH}$  60 g/l,  $\text{H}_2\text{SO}_4$  2.5 g/l and sugar 2 g/l shows three sections. According to polarization curves obtained from a normal electrolyte containing  $\text{CrO}_3$  and sulfate these sections characterize the following processes: Section 1 represents the incomplete reduction of  $\text{Cr}^{6+}$  to  $\text{Cr}^{3+}$ . Increasing current density effects (section 2) discharge of hydrogen. A further rise in current density increases pH near the cathode making possible the formation of the colloidal chromium film on the cathode. This results in the third shift (section 3) of the curve. Thus 3 reactions occur on the cathode. The effect of  $\text{NaOH}$  additions is demonstrated on the polarization curves in Fig.2. The polarization curve (curve 1) obtained without  $\text{NaOH}$  addition does not have the above-mentioned 3 sections, while 20 g/l  $\text{NaOH}$  addition (curve 2) effects a curve of this type. Increase in  $\text{NaOH}$  concentration (curves Card 2/9)

S/080/61/034/001/015/020  
A057/A129

Investigation of the Cathodic Process during Electrodeposition of Chromium  
from a Tetrachromate Electrolyte

3 and 4) facilitate the cathode process by two factors: 1. Reaction of NaOH with chromic acid decreases concentration of the latter, and 2. According to A.I. Levin and A.I. Falicheva [Ref.7; Sb. "Teoriya i praktika elektrolitičeskogo khromirovaniya" (Symposium "Theory and practice of the electrolytic chrome plating"), Izd. AN SSSR, 44 (1957)] discharge of  $\text{CrO}_4^{2-}$ -ions occurs on the cathode and increasing NaOH concentration shifts the ionic equilibrium to  $\text{CrO}_4^{2-}$  formation. Addition of NaOH and formation of tetrachromate ions influence the nature of the cathode film. Without NaOH brittle and useless deposits were obtained. High NaOH concentration (curve 5) eliminates the formation of chromium deposits, since all chromic acid reacts with NaOH. The same effect is caused by decreasing  $\text{CrO}_3$  concentration (Fig.3). The cathodic film is formed mainly from  $\text{Cr}^{3+}$  ions. At low concentrations of  $\text{H}_2\text{SO}_4$  the rate of formation of  $\text{Cr}^{3+}$  from  $\text{Cr}^{6+}$  ions is low. Thus 2 g/l sugar must be added to reduce partly the  $\text{Cr}^{6+}$  ions to  $\text{Cr}^{3+}$  ions and compensate the low reduction rate (see Fig.4). A principally new assumption was made by one of the authors, (Ref.4) namely, that the  $\text{SO}_4^{2-}$  ion promotes the formation of the

Card 3/9

S/080/61/034/001/015/020  
A057/A129

Investigation of the Cathodic Process during Electrodeposition of Chromium  
from a Tetrachromate Electrolyte

cathode film and does not destroy it. Comparison of the chromium yield and NaOH concentration (see Tab) shows that the latter changes the cathodic potential and the chromium yield. Increase in cathodic polarization decreases the current yield. Thus a concentration of 20 g/l NaOH increases cathodic polarization and decreases the current yield, while with 40-60 g/l NaOH the cathodic polarization decreases and the current yield increases. There is not always a correlation between cathodic polarization and current yield, but in the present case increase in polarization indicates inhibition of the cathodic process, namely of the reduction of chromium to chromium metal. There are 4 figures, 1 table and 8 references; except Soviet references 2 references to the English-language publications are given: F. Taylor, Electroplating, 5, 4 (1952); R. Pinner, Electroplating and Metal Finishing, 5 (1955).

SUBMITTED: March 19, 1960

Card 4/9

SHUMSKAYA, L.S., kand.tekhn.nauk; MILEYKOVSKIY V.I., inzh.; NALETOV, D.V.,  
inzh.; MININA, G.M., inzh.; RYABOY, E.B., inzh.

Automatic control of the combustion process in the TP-10 boiler.  
Teploenergetika 8 no.11:30-37 N '61. (MIRA 14:10)

1. TSentral'nyy kotloturbinnyy institut i Turbinno-kotel'nyy  
zavod.

(Boilers) (Automatic control)

SHUMSKAYA, L.S., kand.tekhn.nauk; RYABOV, E.B., inzh.

Study of the dynamics of the deaerat'on system of an 800 Mw. block.  
Teploenergetika 12 no.1:10-15 Ja '65.

(MIRA 18:4)

1. TSentral'nyy kotloturbinnyy institut.

MEL'NIK, S.O.; RYABOY, G.B.

Table for "Neva" phototelegraphy apparatus. Vest. sviazi 22 no.7: p.3  
of cover Jl '62. (MIRA 15:7)

(Phototelegraphy—Equipment and supplies)

RYABCY, L.Ya., kand. tekhn. nauk; SHLUGER, M.A., kand. tekhn. nauk

Properties of chromium platings obtained in a tetrachromate  
electrolyte. Mashinostroenie no.5:64-65 S-0 '64  
(MIRA 18:2)

ZOLOTAREV, S.V., student; OVSEPYAN, M.A.; ONDASYNOVA, A.I.; RYABOV, M.I.;  
SHEYNIS, Ye.S., rukovoditel' raboty kand. tekhn. nauk, dotsent

Elements of physics in leather and shoe manufacture. Nauch. trudy  
MTILP no.28:85-95 '63. (MIRA 17:11)

1 Kafedra fiziki Moskovskogo tekhnologicheskogo instituta legkoy  
promyshlennosti.

Ryaboy, M. Ya.

25(5) PHASE I BOOK EXPLOITATION SOV/2354

Moscow, Dom nauchno-tekhnicheskoy propagandy imeni P.N. Dzerzhinskogo

Kompleksnaya avtomatizatsiya v mashinostroenii i mehanizatsiya v mashinostroenii [Overall Automation and Mechanization in Machine Manufacturing]. Moscow, Gosudarstvennoye Uchebnoe Izdatelstvo po Metalloobrabotke, Mashinostroenii i Kollektivnym Uchebnikam i Collection of Articles] Moscow, Rastorguz, 1959. 312 p. 8,000 copies printed.

Additional Sponsoring Agency: Obshchestvo po raspredeleniyu politicheskikh i nauchnykh zhurnalov RSPFA.

Ed.: A.N. Malov, Candidate of Technical Sciences; Tech. Ed.: B.I. Model, Managing Ed. for Literature on Metallurgy and Toolmaking (Maschiz); B.D. Berezman, Engineer.

PURPOSE: This collection of articles is intended for engineering and technical personnel of plants manufacturing machines and instruments.

COVERAGE: This book acquaints industrial workers with devices and equipment necessary for the overall mechanization and automation of technological processes in machine manufacturing. Individual articles deal with general problems of automation and mechanization of processes in preparatory, machine, and assembly shops, and with problems arising from the introduction of transfer lines. The book also includes examples of devices and equipment tested and used under actual plant conditions. The source of these data was the meeting on overall mechanization and automation of technological processes held in 1957 by the Moscow Vsesoyuznoye Obshchestvo nauchno-tekhnicheskoy propagandy imeni P.E. Dzerzhinskogo (Moscow House for Scientific and Technical Propaganda imeni P.E. Dzerzhinskogo). No personalities are mentioned. Several of the articles are followed by references.

Tribulov, N.Y. /Candidate of Technical Sciences/ Programmed Control of Metallurgical Machine Tools 105

Bol'sukhin, A.K. /Engineer/ Mechanization and Automation of Machining Processes on Milling Machines 123

Khilruk, N.S. /Engineer/ Mechanization and Automation of Grinding Machines 132

Perel'man, O.D. /Engineer/ Self-resetting or Automatic Cutting Machine Tools 171

Bobrov, N.Ya. /Engineer/ Automation of Assembly Processes in Instrument Manufacture 196

Lyubarskii, D.G. /Engineer/ Automatic Lines for Production of Bearings 213

Kostin, L.-N. /Candidate of Technical Sciences/ Automatic Rotary Lines /Rotary Machines/ Transfer Systems 221

Bobrov, V.P. /Candidate of Technical Sciences/ Transfer Lines of Automatic Lines 231

Malov, A.N. /Candidate of Technical Sciences/ Modern Designs of Machine Feeding Devices 246

Bobrov, V.P. /Candidate of Technical Sciences/ Automation and Mechanization of Chip Removal on Metallutting Machine Tools 268

Card 4/5

(5)

RYABOV, M.Ya., inzh.

Vibrating mechanisms as means for the automation of technological processes. Mekh.i avtom.proizv. 14 no.3:12-15 Mr '60.

(MIRA 13:6)

(Automation)

(Vibrators)

Safonov N. D.

PHASE I BOOK EXPLOITATION SOV/5112

Idlin, Mikhail Markovich, and Nikolay Danilovich Safonov

Osnovy sborki, regulirovki, i kontrolya aviatcionnykh elektro-giroskopicheskikh priborov (Principles of the Assembly, Regulation, and Checking of Aircraft Gyroelectrical Instruments) Moscow, Oborongiz, 1960. 354 p. Errata slip inserted. 6,500 copies printed. (Series: Bibliotekha rabochego aviatcionnoy promyshlennosti)

Ed. (Title page): G. A. Slomyanskiy, Candidate of Technical Sciences, Docent; Reviewer: V. I. Bostorin, Docent; Ed. of Publishing House: F. G. Tubanskaya; Tech. Ed.: N. A. Pukhlikova; Managing Ed.: S. D. Krasil'nikov, Engineer.

PURPOSE: This book is intended for students of production engineering courses, for engineering schools for foremen who lack higher education, and as an aid in training and improving the qualifications of electrical instrument fitters.

Card 1/13-

## Principles of the Assembly (Cont.)

SOV/5112

COVERAGE: The book examines the fundamentals of the assembly process of gyroelectrical instruments, with a brief review of basic information on mechanics and electricity. Results of the experience of industrial innovators and the personnel of a number of leading instrument plants are included. The authors thank M. P. Kovalev, Candidate of Technical Sciences, and V. I. Bostorin, Engineer. There are 19 references, all Soviet.

## TABLE OF CONTENTS:

Introduction	3
Ch. I. Some Information on Mechanics	
1. Mechanical motion. Inertia. Force. Equilibrium of forces. Mass	5
2. Scalar and vectorial values	9
3. Composition and resolution of parallel forces	11
4. Rotary motion. Angular velocity. Angular velocity of the diurnal rotation of the earth	13

Card 2/13

SHUGAL, Ye.G.; RYABOY, O.M.; BOCHAROVA, T.V.; KISLYAK, L.M.; KOBEL'KOVA,  
A.M.; LYKOV, A.D.; MANYAKHINA, O.V.; SHLENOVA, T.G.; YAGUPOVA,  
Ye. I.; IVANOV, N.A.; RYBKIN, I.P.; KHOKHLOVA, P.Ie.; KHRENTYAYINA,  
A.S.; PROLOVA, M.I.; RAKOV, F.M., red.; MARCHEMKO, V.A., red.;  
KOLPAKOV, B.T., red.; DEMINA, V.N., red.; MELEN'TYEV, A.M., tekhn.  
red.

[Soviet commerce of the R.S.F.S.R.; a statistical manual] Sovet-  
skaya torgovlia v RSFSR; statisticheskii sbornik. Moskva, Gos.  
stat. izd-vo, 1956. 342 p. (MIRA 11:10)

1. Russia (1917- R.S.F.S.R.) TSentral'noye statisticheskoye  
upravleniye. (Commercial statistics)

RYABOV, V.I.; GINZBURG, O.F.

Condensation of aryl alcohols with ethyl ester of nitroacetic acid. Zhur. org. khim. 1 no.11:2069-2071 N '65.

(MIRA 18:12)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.  
Submitted January 4, 1965.

RYABOV, V.I.; GINZBURG, O.F.

Products of the condensation of aminobenzhydrols with com-  
pounds containing a labile hydrogen atom. Izv. vys. ucheb.  
zav.; khim. i khim. tekhn. 8 no.3:426-431 '65. (MIRA 18:10)

L. Leningradskiy tekhnologicheskiy institut imeni Lensoveta,  
kafedra organicheskoy khimii.

S/169/61/000/011/018/065  
D228/D304

AUTHORS: Vol'vovskiy, B.S., Vol'vovskiy, I.S., and Ryaboy, V.Z.

TITLE: Laboratory use of the method of controllable directed reception for interpreting the data of deep seismic sounding.

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 21,  
abstract 11A197 (V sb. Razved. i promisl. geofiz., no.  
36, M., 1960, 8 - 13)

TEXT: The laboratory modification of the method of controllable directed reception was used for distinguishing waves reflected from deep discontinuity surfaces. The substantial difference in the frequency characteristics of the apparatus of deep seismic sounding and controllable directed reception was overcome by means of the approximately fourfold enlargement of the time scale and summation base. Extended hodographs (to 35 km) of reflected waves corresponding to the surface of the subcrustal and granitic layer were constructed as a result of the processing of seismograms. Reflected

Card 1/2

Laboratory use of the method of ...

S/169/61/000/011/018/065  
D228/D304

waves were also distinguished at the point of origin. Anomalous apparent velocities and sharp changes in the form of the wave recordings were observed in the region of the points of origin. [Abstractor's note: Complete translation]. ✓

Card 2/2

VOL'VOVSKIY, I.S.; RYABOY, V.Z.

Frequency composition of seismic waves corresponding to the  
main divisional boundaries of the earth's crust. Izv. AN Turk.  
SSR. Ser. fiz.-tekhn., khim. i geol. nauk no.4:50-55 '61.

(MIRA 14:12)

1. Otdel razvedochnoy geofiziki i seismologii pri Prezidiume  
AN Turkmeneskoy SSR.

(Seismic waves)

S/552/61/000/031/001/003  
D218/D304

AUTHORS:

Vol'voskiy, B.S., Vol'vovskiy, I.S. and Ryaboy, V.Z.

TITLE:

Some data on seismic waves corresponding to the subcrustal layer (based on the results of seismic studies of the earth's crust in Uzbekistan)

SOURCE:

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki. Prikadnaya geofizika. No. 31, 1961, 3-10

TEXT: The authors report on some methodological results obtained during the 1958-1959 regional seismic studies of the earth's crust along the Leninabad-Karaungur, Abadan-Vuadil' and Karabekaul-Koytash profiles. This research was carried out by the Uzbekskiy geofizicheskiy trest (Uzbek Geophysical Trust) and the Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki (All-Union Scientific Research Institute for Geophysical Methods of Prospecting). It was the continuation of deep seismic soundings carried out in 1949-1955 in various regions of Soviet Central Asia by the Geofizicheskiy institut AN SSSR (Geophysical

Card 1/4

S/552/61/000/031/001/003

D218/D304

## Some data on seismic waves ...

Institute of the AS USSR) previously known as Institut fiziki Zemli (Institute of Physics of the Earth) on the initiative, and initially under the direction of Academician G.A. Gamburtsev. Multiple seismographs were employed (4 instruments per group), the distance between the groups being 100 m. 1-2 ton charges of TNT were exploded at distances between 15 and 70 km and the maximum distance of the points of observation from the charges was between 200 and 300 km. It was found that the recorded waves can be divided into 3 types, namely 1) longitudinal refracted waves recorded both in first and subsequent arrivals, 2) reflected waves from low-lying separation boundaries in the crust recorded both at near (60-80 km) and distant (300 km) points, and 3) waves which could be ascribed to multiple reflected-refracted composite waves due to low-lying separation boundaries. Some typical hodographs and velocity and amplitude spectra are reproduced and discussed. The experimental results have been evaluated on the basis of a dynamic theory of propagation of seismic waves developed at the Leningradskoye otdeleniye matematicheskogo instituta AN SSSR (Leningrad Branch of the Mathematical Institute AS USSR) by G.I. Petrashen<sup>1</sup>, A.S. Alekseyev and others. These calculations

Card 2/4

S/552/61/000/031/001/003

D218/D304

Some data on seismic waves ...

have shown that the predominating waves in uniformly layered media are not head waves (as it was assumed so far), but waves reflected beyond the critical angle (i.e. so-called postcritical reflections). In gradient media the dominating waves are reflected and refracted waves (the calculations were carried out for a perfectly elastic model of the crust). In the present studies waves reflected from the surface of the subcrustal layer (Mohorovicic discontinuity) were observable beginning at 30-40 km from the point of explosion and were recorded in subsequent arrivals in the entire range of distances. The apparent velocities of these waves were found to decrease from 9-10 km/sec at 80-90 km to 6.5-7.0 km/sec at 250-300 km. Their hodographs have a hyperbolic form. The predominating frequencies vary between 9-11 and 14-15 cps and tend to decrease slightly with distance. The refracted waves are weaker in intensity and have apparent velocities between 8 and 9.5 km/sec. They tend to increase slowly with distance. The predominating frequencies in the spectra of these waves lie in the range 10-16 cps and are as a rule greater by 2-4 cps than in the case of the reflected waves. The frequencies tend to decrease with distance. It is pointed out that the dynamic theory mentioned-above predicts that the reflected waves should have higher

Card 3/4

Some date on seismic waves ...

S/552/61/000/0031/001/003

D218/D304

frequencies than the corresponding refracted waves which is an apparent contradiction with observations. The general conclusion is that seismic studies of the earth's crust in Soviet Central Asia show that waves reflected from the Mohorovicic discontinuity before and after the critical angle can be determined from seismographs. There is also a complex reflected group consisting of head waves produced on the surface of the subcrustal layer and weakly refracted in the latter. For the purposes of deep seismic sounding these waves may be interpreted as head waves corresponding to the surface of the subcrustal layer. There are 8 figures and 10 Soviet-bloc references.

Card 4/4

S/169/62/000/006/002/093  
D228/D304

AUTHORS: Vol'vovskiy, I. S., Ryaboy, V. Z. and Shraybman, V.I.

TITLE: Abyssal geologic structure of the Ferganskaya Depression according to geophysical data

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 5, abstract 6A21 (Sov. geologiya, no. 1, 1962, 156-160)

TEXT: A brief description is given of the results of regional seismic investigations (deep seismic sounding) on the Ferganskaya Depression's territory in 1958-1959, as a result of which the crust's structure was ascertained to a depth of 50 - 60 km. Knowing the character of deep crustal interfaces (the surfaces of the folded basement and of the granite, the basalt, and the subcrustal layers) and the stratal velocities, has allowed a better grounded approach to be made to the solution of the question of the large gravity low over the Ferganskaya Depression. A correlative relation between the propagational velocity of elastic seismic vibrations and the density was derived in the form  $\sigma = (0.24 V_{Str} \text{ km/sec} +$

Card 1/2

S/169/62/000/006/002/093  
D228/D304

Abyssal geologic structure ...

$\pm 1.51$  g/cm<sup>3</sup> in order to ascertain the influence of various deep crustal layers upon the gravity field. In addition to this, data on the density of crustal rocks were obtained as a result of laboratory research and calculations by indirect methods. It is established as a result of the quantitative calculations: 1) that the relief of the folded basement surface has a considerable influence on the gravity field of the intermontane Ferganskaya Depression; this allows gravity survey data to be employed for determining its depth of occurrence; 2) that the observed gravity field cannot be due solely to peculiarities in the crust's structure; the existence in this area of a density irregularity in subcrustal matter may, therefore, be assumed. Abstracter's note: Complete translation. ✓

Card 2/2

VOL'VOVSKIY, I.S.; RYABOY, V.Z.; SHRAYBMAN, V.I.

Nature of regional gravity anomalies in the Bukhara-Khiva region  
and adjacent areas. Izv. AN SSSR. Ser.geofiz. no.5:644-651  
(MIRA 15:8)  
My '62.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh  
metodov razvedki i Moskovskiy institut neftekhimicheskoy i  
gazovoy promyshlennosti im. akad.Gubkina.  
(Uzbekistan—Gravity prospecting)

S/049/62/000/008/002/003  
I046/I246

AUTHORS: Belousov, V.G., Vol'vovskiy, B.S., Vol'vovskiy, I.S. and Ryaboy, V.Z.

TITLE: Experimental investigation of the registration of deep-reflected waves

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, no. 8, 1962,  
1034-1044

TEXT: A report on the deep seismic sounding with reflected (subcritical) waves carried out in 1960-1961 in the South-Eastern Turkmenia over a 120 km profile. The noise waves were eliminated by using directional reception: seismoreceivers and sources of seismic vibrations were grouped together (9 receivers spaced evenly over a linear distance of 400 m, each group removed by 100 m from its neighbors). Comparison of the results with the data obtained in 1958 in deep seismic sounding with reflected (hyper-critical) and leading waves shows good agreement in general features on the seismograms, though subcritical reflection is better in detecting fine details. It is

Card 1/2

Experimental investigation of the registration....

recommended to use as far as possible a combination of the two methods. There are 8 figures.

SUBMITTED: February 26, 1962

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki (The All-Union Scientific Research Institute of Geophysical Methods of Prospecting) V

Card 2/2

VOL'VOVSKIY, I.S.; RYABOY, V.Z.; SHRAYERMAN, V.I.

Use of the methods of frequency analysis and synthesis in interpreting the gravity field in the Bukhara-Khiva area. Prikl. geofiz. n.33:161-168 '62. (MIRA 15:10)

(Uzbekistan—Gravity)

GODIN, Yu.N., akademik [deceased]; VOL'VOVSKIY, I.S.; RYABOV, V.Z.

Some results of the use of seismic echo waves in a study of the earth's crust. Dokl. AN SSSR 146 no.2:340-343 S '62.

(MIRA 15:9)

1. Otdel razvedochnoy geofiziki i seismologii AN Turkmeneskoy SSR  
i Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh  
metodov razvedki. 2. AN Turkmeneskoy SSR (for Godin).  
(Seismic prospecting)

GODIN, Yu.N., akademik [deceased]; VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.;  
RYABOV, V.Z.; SHRAYERMAN, V.I.

Characteristics of the structure of the earth's crust in  
the western part of Central Asia. Dokl. AN SSSR 146  
no.4:813-815 O '62. (MIRA 15:11)

1. Institut geologii AN Turkmeneskoy SSR, Vsesoyuznyy  
nauchno-issledovatel'skiy institut geofizicheskikh  
metodov razvedki i Moskovskiy institut neftekhimicheskoy  
i gazovoy promyshlennosti. 2. AN Turkmeneskoy SSR (for Godin).  
(Asia-Central—Seismic prospecting)

ALEKSEYEV, A.S.; VOL'VOVSKIY, I.S.; YERMILOVA, N.I.; KRAUKLIS, P.V.;  
RYABOY, V.Z.

Physical nature of certain waves recorded in hodographic seismic  
sounding. Part 1. Izv. AN SSSR. Ser. geofiz. no.11:1620-1630 N  
'63. (MIRA 16:12)

1. Kontora "Spetsgeofizika", Leningradskoye otdeleniye  
Matematicheskogo instituta imeni Steklova AN SSSR.