

NEKRASOV, V.

A manual which stands in need of thorough revision. "Manual of weight by volume for freight transported by trucks" B.F.Maidenov. Reviewed by V.Nekrasov. Avt. transp. 33 no.4:40 Ap '55.

(MLRA 8:7)

(Weights and measures--Tables, etc.) (Transportation, automotive)

NEKRASOV, V.K.

Roads of the Moscow center. Avt.dor. 19 no.1:32 Ja '56.(MLRA 9-5)
(Moscow Province--Roads)

NEKRASOV, V.K., inzhener.

How to raise the quality of gravel road beds. Avt.dor.19 no.5:
22-23 My '56. (MLRA 9:8)

(Roads, Concrete)

~~MAKASOV, Vladimir Konstantinovich; KALECHITS, Yevgeniy Vital'yevich;~~
~~AMTSHEV, F.P., 1937; KOZAN, F.L., tekhn.red.~~

[The building of automobile roads] Stroitel'stvo avtomobil'nykh dorog.
Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1957. 486 p.
(Road construction) (MIRA 11:2)

KOZLOVSKIY, Boris Konstantinovich, inzh.; NEKRASOV, Vladimir Konstantinovich,
kand.tekhn.nauk; SLAVUTSKIY, A.K., inzh., nauchnyy red.; UDOD, V.Ya.,
red.izd-va; EL'KINA, E.M., tekhn.red.

[Handbook for builders of automobile roads for industrial
enterprises] Spravochnik stroitelia avtomobil'nykh dorog
promyshlennykh predpriyatii. Moskva, Gos.izd-vo lit-ry po
stroit., arkhitekt. i stroit. materialam, 1958. 339 p.
(Road construction) (MIRA 11:6)

PANTELEYEV, Fedor Nikolayevich, dotsent, kand.tekhn.nauk; VOLKOV,
Vasiliy Georgiyevich, dotsent, kand.tekhn.nauk; KOCHETKOV,
D.A., doktor tekhn.nauk, retsenzent [deceased]; KUZNECOV,
V.K., dotsent, kand.tekhn.nauk, retsenzent; IVANOV, S.S., red.;
LAKHMAN, F.Ye., tekhn.red.

[Road materials] Dorozhno-stroitel'nye materialy. Izd.2., perer.
i dop. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp.
i shosseinykh dorog RSFSR, 1958. 430 p. (MIRA 13:11)

1. Kafedre tekhnologii dorozhno-stroitel'nykh materialov Moskovskogo
avtomobil'no-dorozhnogo instituta (for Panteleyev, Volkov).
(Road materials)

MIR 11:00
IVANOV, N.N., doktor tekhn. nauk; MIKHAYLOV, V.N., kand. tekhn. nauk; NEKRASOV,
V.K., kand. tekhn. nauk.

Compulsory requirements in laying pavements of soft stone materials.
Avt.dor. 21 no.3:11-22 Pr 158. (MIRA 11:00)
(Road construction)

NEKRASOV, V.K., inzh.

Why are precast concrete pavements being introduced so slowly?

Avt. dor. 21 no.12:13-14 D '58.

(MIRA 12:1)

(Pavements, Concrete)

VOLKOV, M.I., prof.; IVANOV, P.M. kand. tekhn. nauk; KLIMASHEV, F.S., inzh.;
KOROLEV, I.V., inzh.; KURILENEOV, B.I., inzh.; MYSHKOVSKAYA, S.A.,
kand. tekhn. nauk; NEKRASOV, V.K., kand. tekhn. nauk; SPERANTOV, N.A.,
kand. tekhn. nauk; YAKUNIN, O.A., inzh.; MOTYLEV, Yu.L., red.;
LAKHMAN, F.Ye., tekhn. red.

[Metallurgical slags in road construction] Metallurgicheskie
shlaki v dorozhnom stroitel'stve. Moskva, Nauchno-tekhn. izd-vo
M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959.
182 p. (MIRA 12:4)

(Road materials)

(Slag)

BEZRUK, Vasilii Makarovich, doktor geol.-miner.nauk; ZASHCHEPIN, Aleksey Nikitich, kand.tekhn.nauk; IVANOV, Fedor Mikhaylovich, kand.tekhn.nauk; MIKHAYLOV, Valentin Vasil'yevich, kand.tekhn.nauk; ~~MEKRASOV~~, Vladimir Konstantinovich, kand.tekhn.nauk; KURDENKOV, Boris Ivanovich, inzh.; ZASHCHUK, Igor' Vsevolodovich, kand.tekhn.nauk; GORELYSHEV, N.V., kand.tekhn.nauk, red.; YEGOZOV, V.P., red.; GALAKTIONOVA, Ye.N., tekhn.red.; DONSKAYA, G.D., tekhn.red.

[Handbook on laboratory testing of road materials and soils]
Spravochnoe rukovodstvo po laboratornym ispytaniyam dorozhno-stroitel'nykh materialov i gruntov. Pod obshchey red. N.V.Gorelysheva. Moskva, Nauchno-tekhn.isd-vo M-ve avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1960. 381 p. (MIRA 13:11)
(Road materials--Testing)

MEKRASOV, Vladimir Konstantinovich; RITOV, Maks Nikolayevich; ROYER,
Yevgeniy Nikolayevich; TOVSTOLUZHSKIY, Nikolay Iosifovich;
ZAMAKHAYEV, M.S., red.; IVANOV, S.S., red. izd-va; MAL'KOVA,
N.V., tekhn. red.

[Handbook for the road construction technician] Sprevochnik
tekhnika-dorozhnika. Izd. 3., perer. i dop. Moskva, Nauchno-
tekhn. izd-vo M-va avtomobil'nogo transp. i sho-seinykh dorog
SSSR, 1960. 767 p.

(MIRA 14:5)

(Road construction)

NIKRASOV, V.K., insh.

Technical evaluation of soft stone materials. Avt.dor. 22
no.1: 9-11 Ja '60. (MIRA 13:6)
(Stone, Crushed) (Road construction)

KLIMASHEV, Fedor Sergeyevich; KURDENKOV, Boris Ivanovich; NEKRASOV, Vladimir Konstantinovich; YAKOVLEVA, A.I., red.; NIKOLAYEVA, L.N., tekhn. red.

[Construction of base courses of low-strength coarsely crushed stone]
Stroitel'stvo dorozhnykh osnovanii iz krupnogo shchebnia ponizhennoi
prochnosti. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp.
i shosseinykh dorog RSFSR, 1961. 43 p. (MIRA 14:10)
(Road construction) (Stone, Crushed)

NEKRASOV, V.K., inzh.

Again on road-technical terminology. Avt.dor. 2^o n. 0:30-31 8 1954.
(MIRA 1954)

(Road construction--Terminology)

BOCHIN, Valeriy Aleksandrovich, laureat Gosud. premii SSSR;
VEYTSMAN, Mikhail Iosifovich, kand. tekhn.nauk; KOLKER,
Iosif Yakovlevich; LEVITSKIY, Yevgeniy Fedorevich.
Prinimal uchastiye NEKRASOV, V.K.; ORNATSKIY, N.V., doktor
tekhn. nauk, prof., glav. red.; GANYUSHIN, A.I., red. izd-va;
KCVRIZHNYKH, L.P., red. izd-va; GALAKTIONOVA, Ye.N., tekhn.
red.

[Handbook for road engineers] Spravochnik inzhenera-dorozhnika.
Pod glav. red. N.V.Ornatskogo. Moskva, Avtotransizdat, Vol.2.
[The building of automobile roads] Stroitel'stvo avtomobil'nykh
dorog. 1963. 775 p. (MIRA 16:7)

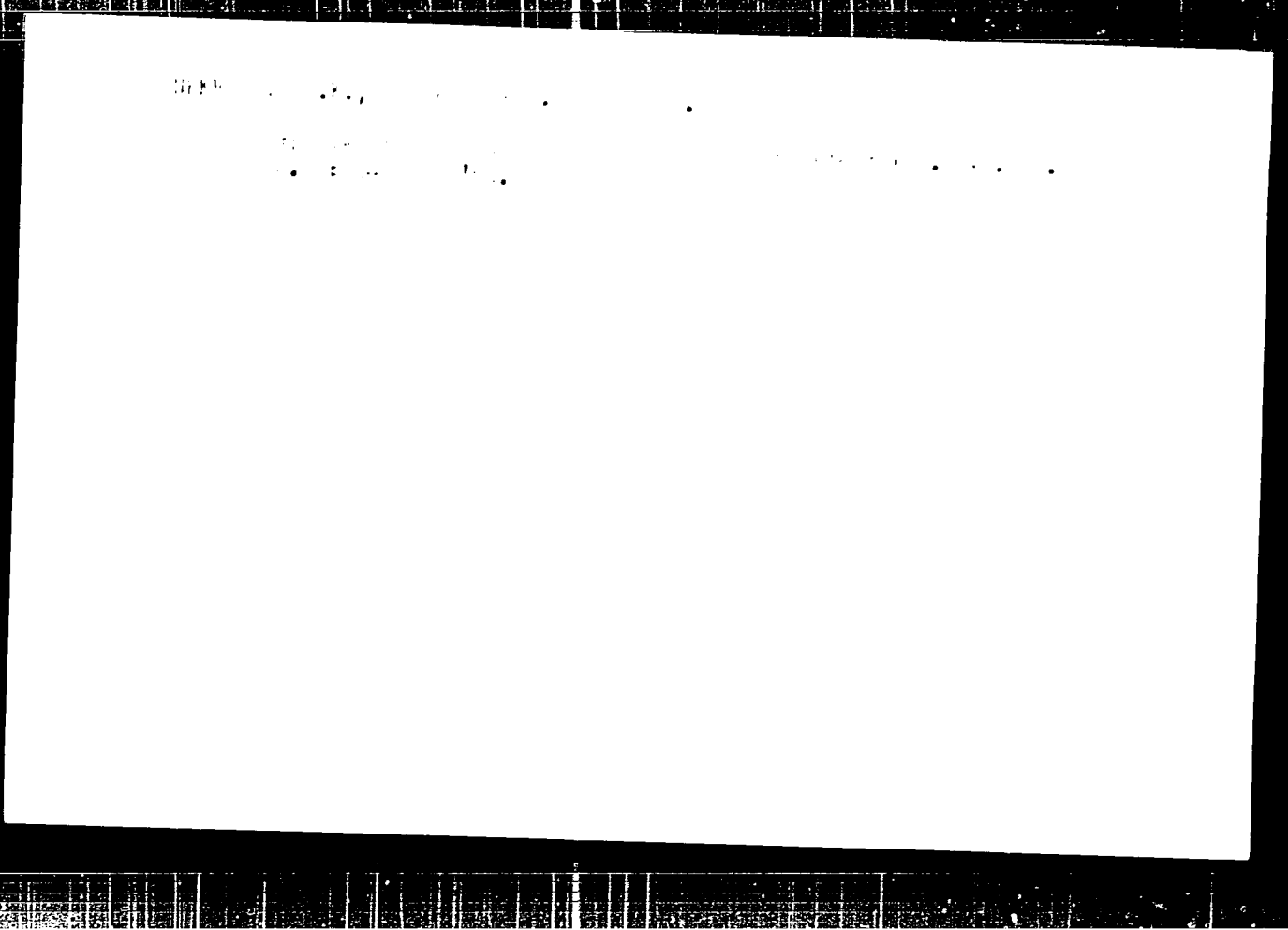
(Road construction)

NSA, APT, ...

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NEKRASOV, V.K.

Evaluating water absorption of mineral materials. Avt. ser. 17
no.9:20-21 8 1962. MIRA 1962.



ШЕПТУН, Григорий Саулович; МЕКАКОВ, В.К., доктор техн.
наук, ред.

{Cement and concrete in the construction of city streets.
Цемент и бетон в городском дорожном строительстве.
Moskva, Stroizdat, 1965. 95 p. (O.S.A. 1819)

ZHEREBIN, B.N.; DEMBOVETSKIY, V.I.; MINKIN, V.M.; NIKULINSKIY, I.D.;
Prinimali uchastiye: OZSHAROV, V.M., inzh.; RAYEV, Yu.O., inzh.;
ZHIGULEV, P.T., inzh.; LUCHKOV, I.A., inzh.; BEREZKIN, B.S.,
inzh.; NEKRASOV, V.M., inzh.; ZHUKOVICH, A.I., inzh.

Use of coke-oven gas in blast furnaces. Stal' 21 no.8:63-679
Ag 1(1). (MIRA 14:9)

1. Kuznetskiy metallurgicheskiy kombinat i Sibirskiy me-
tallurgicheskiy institut.

(Blast furnaces--Equipment and supplies)

RYCHAGOV, V.V., kand.tekhn.nauk; NIKRASOV, V.M., inzh.

Effect of the work of the discharge siphon on the capacity
of the pumping station. Gidr.i mel. 12 no.5:37-40
My '60. (MIRA 13:7)
(Pumping stations)

NEKRASOV, V.M., inzh.

Operation of irrigation pumping stations in the Tajik S.S.R. Gidr.
i mel. 12 no.11:14-20 N '60. (MIRA 14:1)
(Tajikistan--Irrigation) (Pumping stations)

NEKRASOV, V.M., aspirant

Studying hydraulic valves for breaking the vacuum of siphon gates in irrigation pumping stations. Izv. TSKHA no.2:157-164 '62. (MIRA 15:9)

1. Mashinnyy rukovoditel' doktor tekhn.nauk, prof.
M.M. Florinskiy.

(Pumping stations)
(Valves)

ACC NR: AM000891

SOURCE CODE: UR/0419/66/000/004/0120/0123

AUTHOR: Gol'tsov, V. P.; Nekrasov, V. N.; Sokolov, S. N.

ORG: Institute of Nuclear Power, AN BSSR (Institut yadernoy energetiki AN BSSR)

TITLE: Electron microscopic study of lanthanum hexaboride LaB_6

SOURCE: AN BSSR. Vestsi. Seriya khimichnykh navuk, n. 4, 1966, 120-123

TOPIC TAGS: lanthanum compound, boride, lanthanum oxide, boron, *electron*

ABSTRACT: Lanthanum boride powder was prepared by reacting La_2O_3 and B powders, and studied with an EM-5 electron microscope (magnification 5000 to 140000). The interplanar spacings of the compound LaB_6 were determined by electron and x-ray diffraction, and the data obtained are in satisfactory agreement with the calculated data. A small portion of the lines (3-5%) corresponds to a phase different from LaB_6 , apparently, La_2O_3 . The study of the shape, size and crystal structure of the synthesized powder confirmed that the product of borothermic reduction of lanthanum oxide is lanthanum hexaboride. Authors thank V. I. Lisovets for providing the LaB_6 powder for the study. Orig. art. has: 3 figures, 2 tables and 1 formula.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 005
20/

Card 1/1

NEKRASOV, V.P., zasluzhennyy deyatel' nauki i tekhniki, professor.

Review of design standards for brick and reinforced brick structures.
Stroi.prom. 25 no.8:8-11 Ag '47. (MLRA 9:1)
(Bricks)

NEK AUCV, V. P.

Cand Geograph Sci

Dissertation: "Central Cyclones Characteristic for the Natural
Synoptic Period."

17 April 49

Central Inst of Weather Forecasting

**80 Vecheryaya Moskvø
Sum 71**

NEKRASOV, V.P.

Forecasting the length of natural synoptic periods. Trudy TSIP
no.109:59-72 '61. (MIRA 14:5)
(Weather forecasting)

MEKRASOV, V.P.; ORLOVA, M.V. (Moskva)

Family epidemic of acute pancreatitis. Klin.med. 124-127
#157. (IRA 11:5)

1. Iz Glavnogo voyennogo gospihalya imeni akad. N.N.Burdenko
(nach. N.M.Nevskiy)
(PANCREATITIS, case reports
acute, familial (Rus))

GAMALEYA, A.N.; GYURDZHIAN, A.A.; KOSHKIN, A.F.; NEKRASOV, V.P.; SIMONOV, P.V.

Characteristics of the postoperative period in acute radiation sickness in dogs. Med. rad. 4 no.4:64-70 Ap '59. (MIRA 12:7)

1. Iz otdeleniya luchevoy terapii (nach. A.N. Gamaleya) i eksperimental'noy laboratorii (nach. - kandidat med. nauk A.A. Gyurdzhian) Glavnogo voyennogo gospi'talya imeni akad. N.N. Burdenko.

(ROENTGEN RAYS, effects,

on postop. course in exper. surg. in dogs (Ris))

(SURGERY, OPERATIVE

eff. of x-rays on postop. course in exper. surg. in dogs (Ris))

8/25 46/63/000/127/0101/0119

ACCESSION NR: AT4035462

AUTHOR: Nekrasov, V. P.

TITLE: State and change of the troposphere in natural synoptic seasons over Europe and the North Atlantic Ocean

SOURCE: Moscow. Tsentral'ny'y Institut prognozov. Trudy*, no. 127, 1963. Voprosy* sezonny*kh prognozov pogody* (Seasonal weather forecasting), 101-119

TOPIC TAGS: meteorology, troposphere, solar radiant energy, atmospheric circulation, atmospheric temperature, atmospheric friction layer, atmospheric temperature gradient, atmospheric stratification, atmospheric water vapor

ABSTRACT: The author analyzes the annual variation of the meteorological elements over the continents and oceans and reviews the characteristics of the state of the troposphere in natural synoptic seasons. He compares the state and change of the troposphere for conditions of virtually identical influx of solar radiant energy, which acts differently on the air of the troposphere due to oceanic and continental conditions. It is noted that the state of the troposphere and its change are the result not only of the thermal process in a particular place, but also tropospheric air circulation. It is known that in the course

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ACCESSION NR: AT4035462

of natural synoptic seasons over the oceans and continents there are predominant synoptic processes leading to either intensification or attenuation of air exchange between the oceans and continents. When the air exchange between the latter is insignificant the thermal factor is still predominant. This cannot be said of seasons with stable air exchange between the continents and oceans. Circulation causing stable transport of warm air from the oceans to the continents can introduce an appreciable contribution to the state and change of the troposphere over continents, even in its mean long-term aspect. Winter is the period with the lowest air temperatures in the entire troposphere. This season is characterized by isothermy and inversion in the friction layer. The air mass of the troposphere, the water vapor content, and the thickness of the layer of significant water vapor condensation in the ascending air are minimal during the year and remain quasi-constant during the entire season. The weight of the air mass lying above the troposphere is also quasi-constant. Spring is a period of strong increase of air temperature in the entire troposphere, particularly in the friction layer. The vertical temperature gradients are less than the moist-adiabatic gradients. The entire season is characterized by stable stratification, but some signs of convection have appeared. The water vapor content and the thickness of the layer of significant water vapor condensation in the ascending air increase rapidly. The air mass of the troposphere increases and accordingly the mass of the air in the above-lying layers decreases. The first half of summer resembles spring, but there is characteristic moist-unstable stratification with well-developed

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exchange between the lower and upper air layers of the troposphere. The water vapor content and the thickness of the layer of significant water vapor condensation in the ascending air increase, but more slowly than in the spring. The mass of tropospheric air increases more slowly, but in the above-lying layers it decreases more rapidly. The second half of summer is the season with the highest air temperature at all levels of the troposphere and stratification is moist-unstable. There is well-developed convective exchange between the lower and upper layers of the troposphere. The mass of tropospheric air, the water vapor content and the thickness of the layer of significant water vapor content in the ascending air have maximal values and remain quasi-constant during the entire season. The weight of the air mass lying above the troposphere is constant. Autumn is a period of strong decrease of air temperature in the entire troposphere, with high values in the friction layer. In this period convection attenuates, but does not disappear. There is a rapid decrease in water vapor content and the thickness of the layer of significant water vapor condensation in the ascending air. The decrease of the tropospheric air mass is less than its increase in the higher layers. Early winter is a period of quasi-constant decrease of temperature and stable stratification. Water vapor content and the thickness of the layer of significant water vapor condensation in the ascending air decrease rapidly. The decrease of the tropospheric air mass corresponds to an increase in the above-lying layers. Changes in air temperature in the troposphere during the year are identical at all its levels, with the exception of the lowest level and the second half of summer. The

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ACCESSION NR: AT4035462

amplitude of variation of day-to-day changes of mean temperature in the entire troposphere is 1.9 times greater over the continents than over the ocean. Changes of air temperature in the troposphere over the continents are greater in the friction layer and less in the free troposphere. The duration of the increase of air temperature in the troposphere over the oceans exceeds the duration of this same phenomenon over the continents by almost an entire month. From May to the middle of September the mean air temperature of the entire troposphere over the oceans is lower (by approximately 2C), and during the remainder of the year is higher (in January up to 9C) than over the continents. Orig. art. has 2 formulas, 8 figures and 6 tables.

ASSOCIATION: Tsentral'nyy institut prognozov, Moscow (Central Institute of Forecasts)

SUBMITTED: 00

DATE ACQ: 20May64

ENCL: 00

SUB CODE: ES

NO REF SOV: 006

OTHER: 000

Card 4/4

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USSR/Engineering - Hydraulics, Dams Jan 52

"Certain Exploitation Problems of Multispan River
Dams," L.S. Kuskov, V. S. Nekrasov, Engineers

"Gidrotekh Stroi' No 1, pp 25-30

Clarifies certain exploitation factors which may be
useful in planning new hydraulic centers. Discusses
various problems, such as passing water through a
dam, spillway weirs with seasonal or daily regula-
tion of discharge, permissible opening height of
dam gates when there are ice and floating objects
in reservoir, causes of river bank erosion, etc.
Gives some operational and constructional sugges-
tions.

212758

YURKOV, V.A.; NEKRASOV, V.V.

Physical properties of copper-antimony alloys. *Izv. vys. uch. zaved. -
sav. fiz.* 2:62-69 '62. (MIRA 15:7)

1. Arkhangel'skiy lesotekhnicheskii institut imeni V.V. Kuybysheva.
(Copper-antimony alloys)

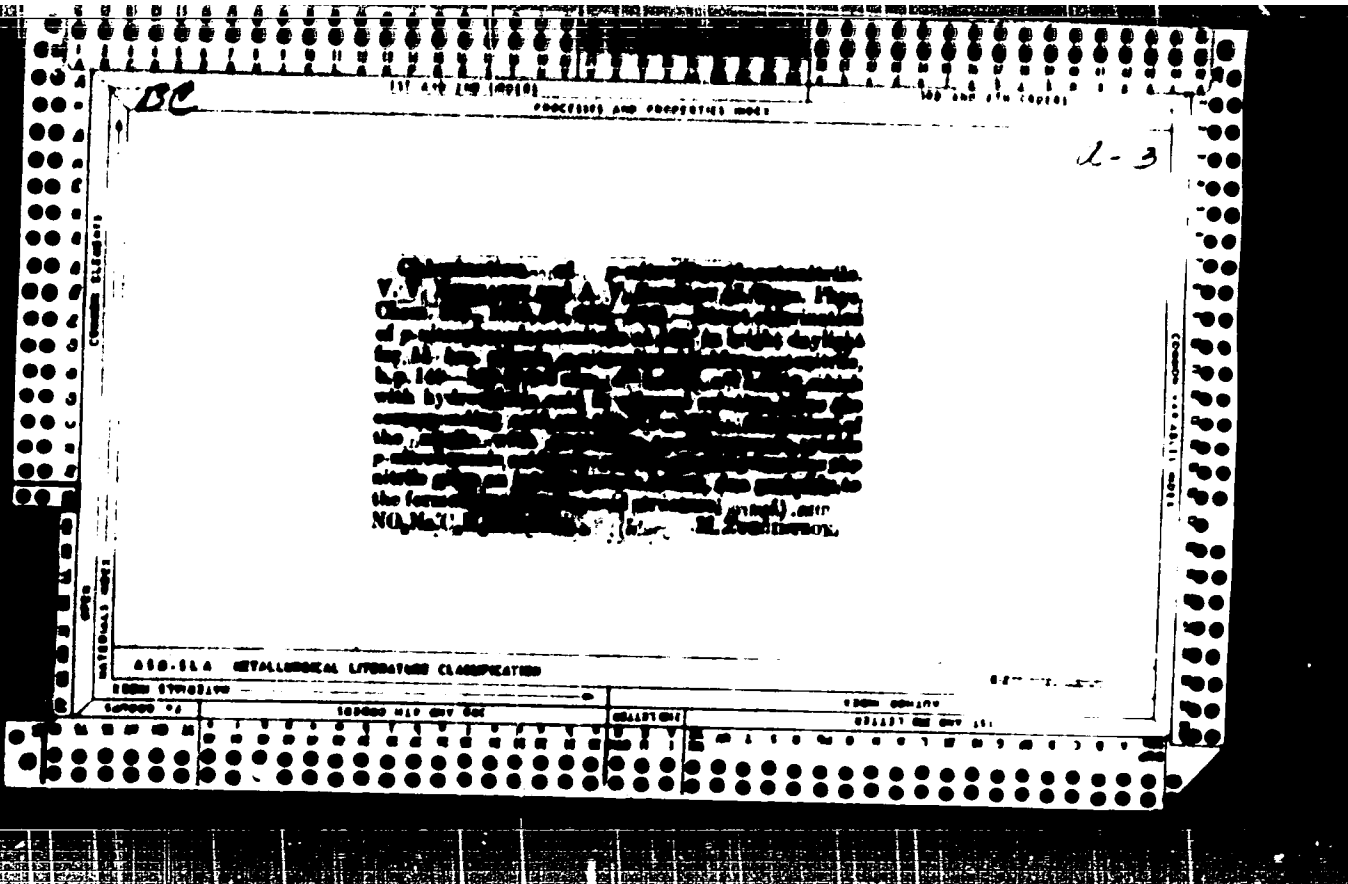
NEKRASOV, V.V., mashinist

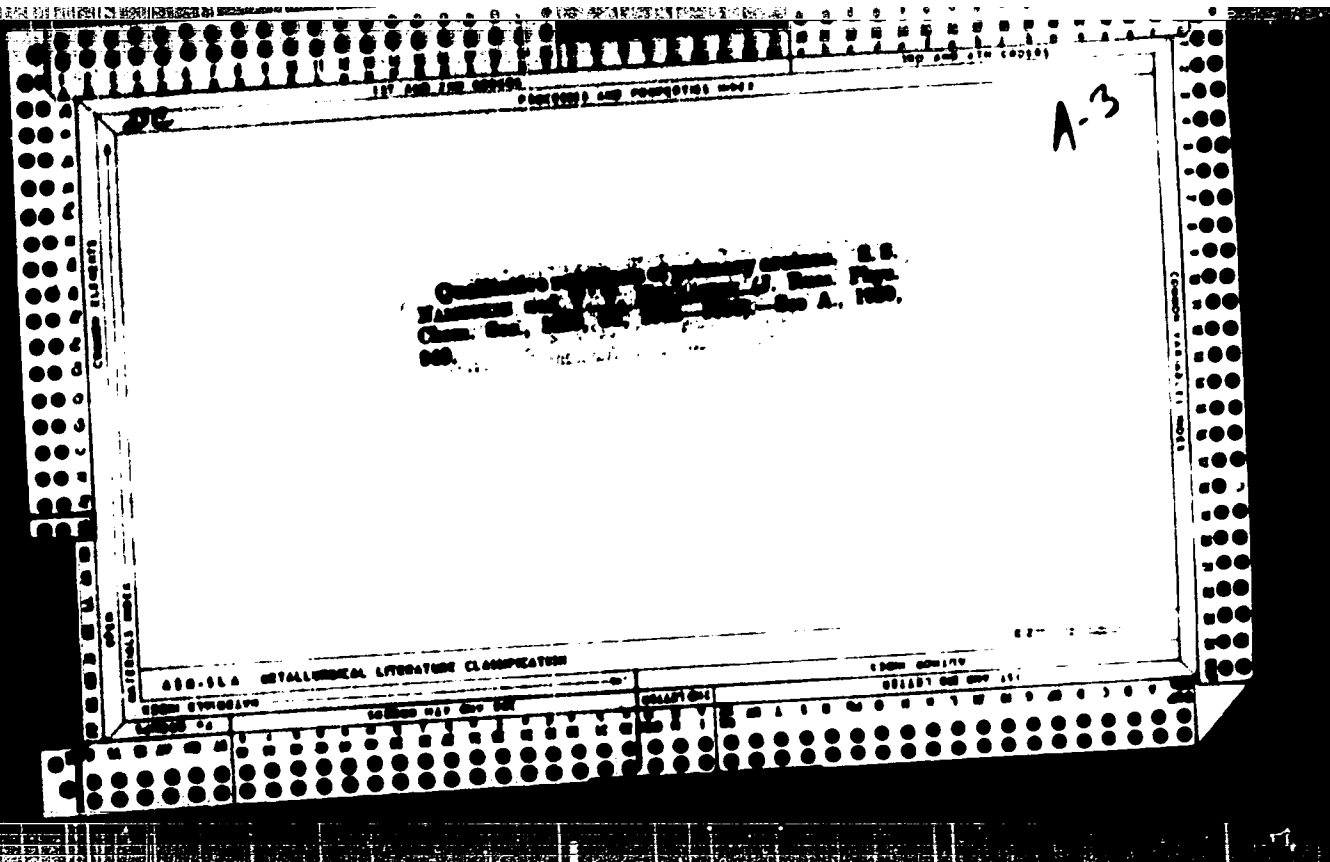
Method for increasing the life of electric lamps. Elek. i tepl.
tiaga 7 no.4:41 Ap '63. (MIRA 16:5)

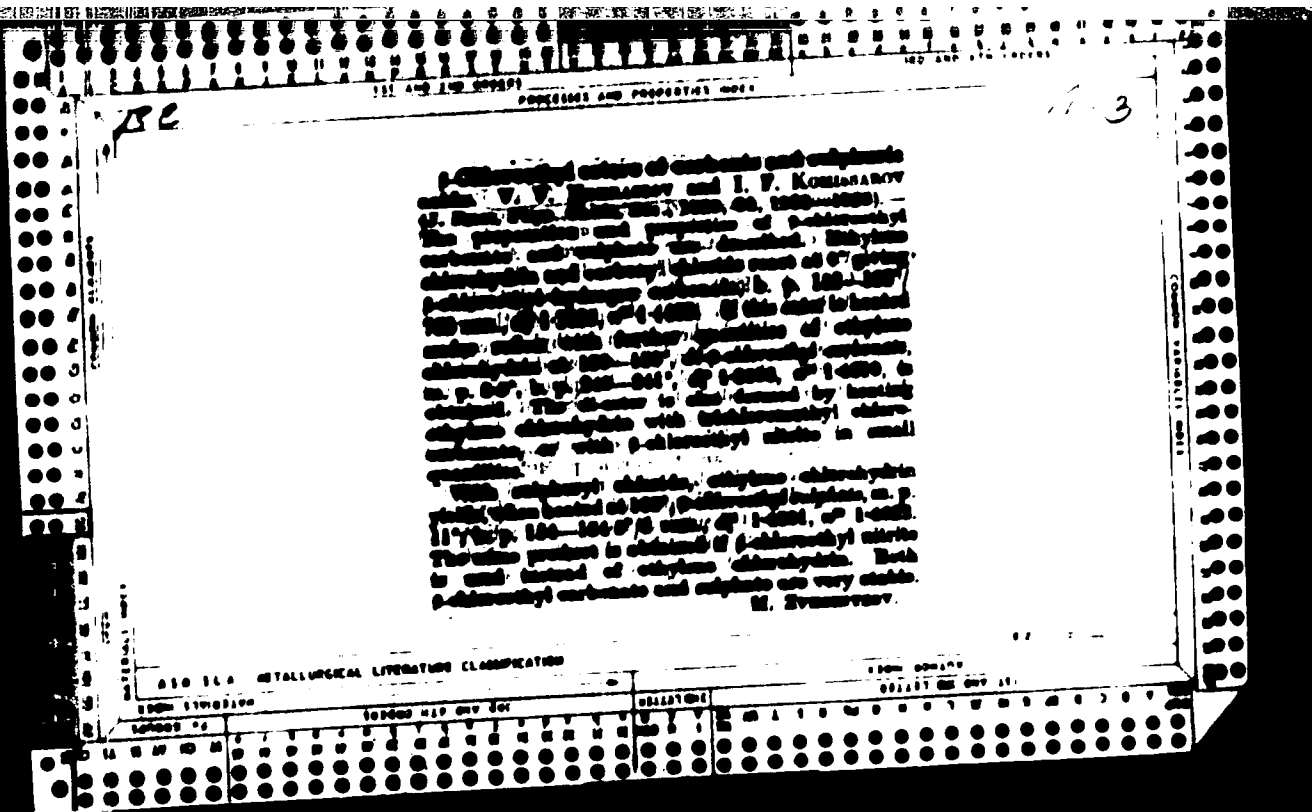
1. Depo Petropavlo^vsk Yuzhno-Ural'skoy dorogi.
(Electric lamps)

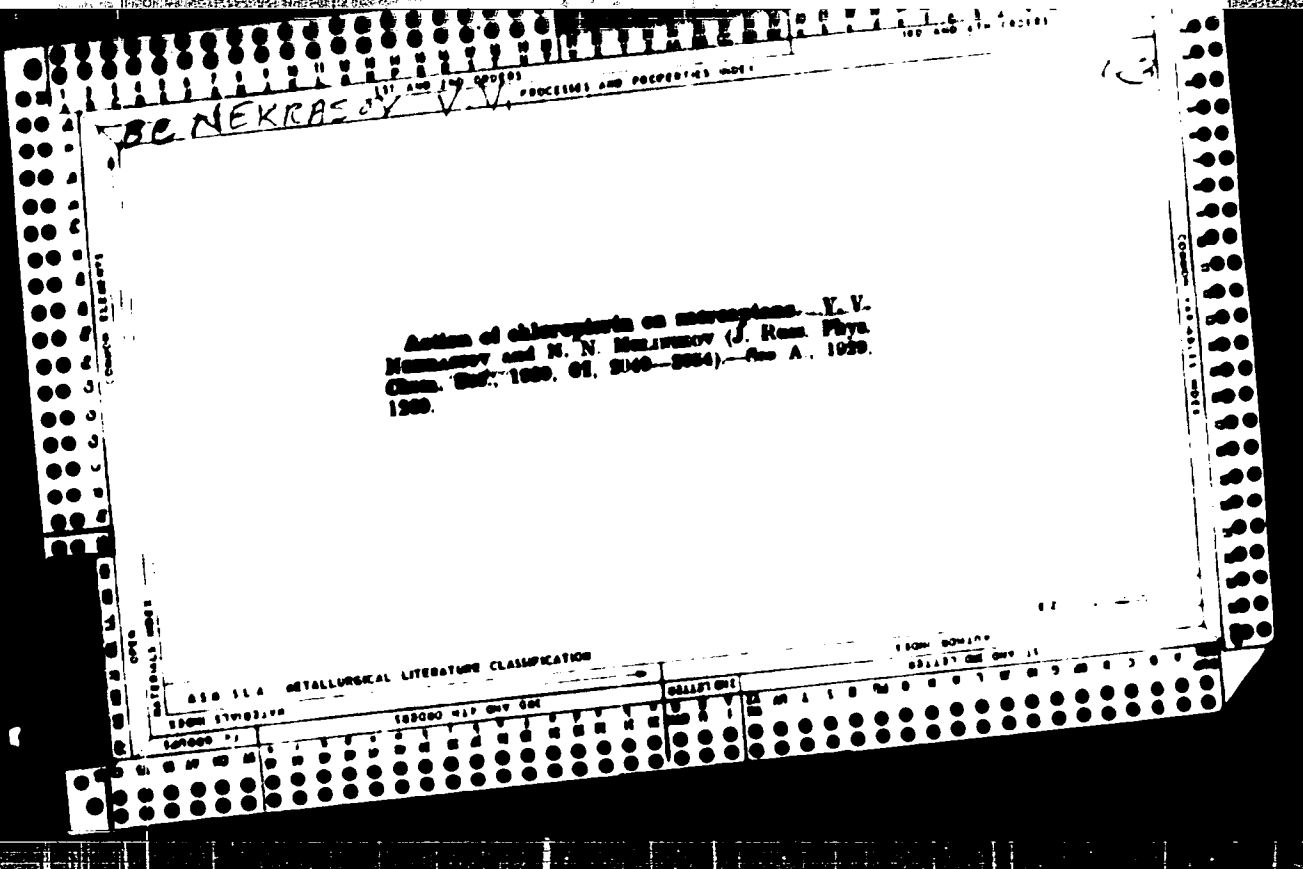
PERMINOV, A.Ye.; ROMANOV, A.A.; MIZEROV, A.V.; TSYBA, M.M.;
ZHELUDKOV, A.S.; NEKRASOV, V.V.; PRASOLOV, M.I.;
BARTENEV, S.N.; BELYAYEVA, T.P.; ZHERDEV, P.A.;
KOYVUNEN T.M.; SMORODOV, P.V., redaktor; PODTEL'SKAYA,
K.M., tekhn. red.

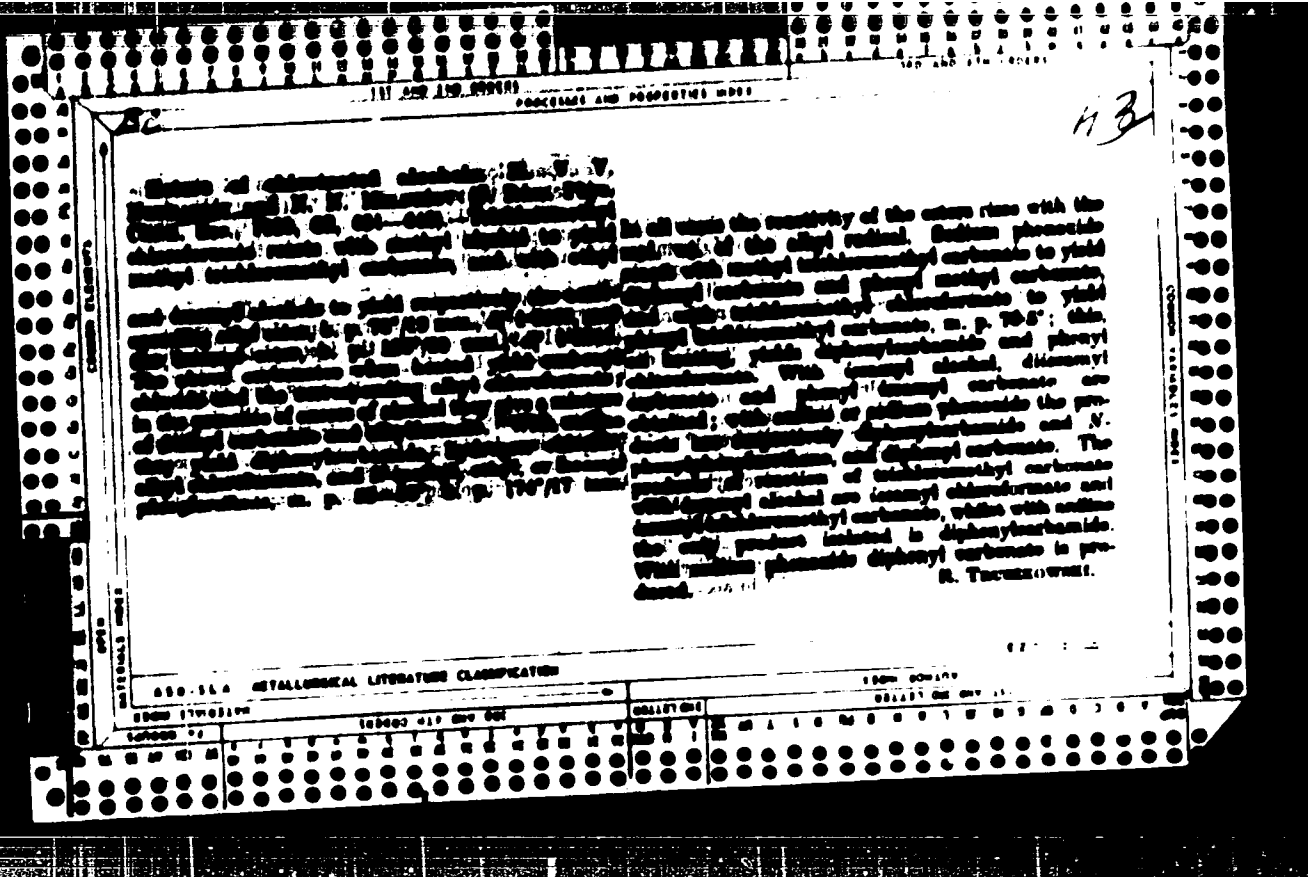
[Manual for a Karelian field crop grower] Spravochnik
karel'skogo polevoda. Petrozavodsk, Karelskoe knizhnoe
izd-vo, 1962. 435 p. (MIRA 17:3)

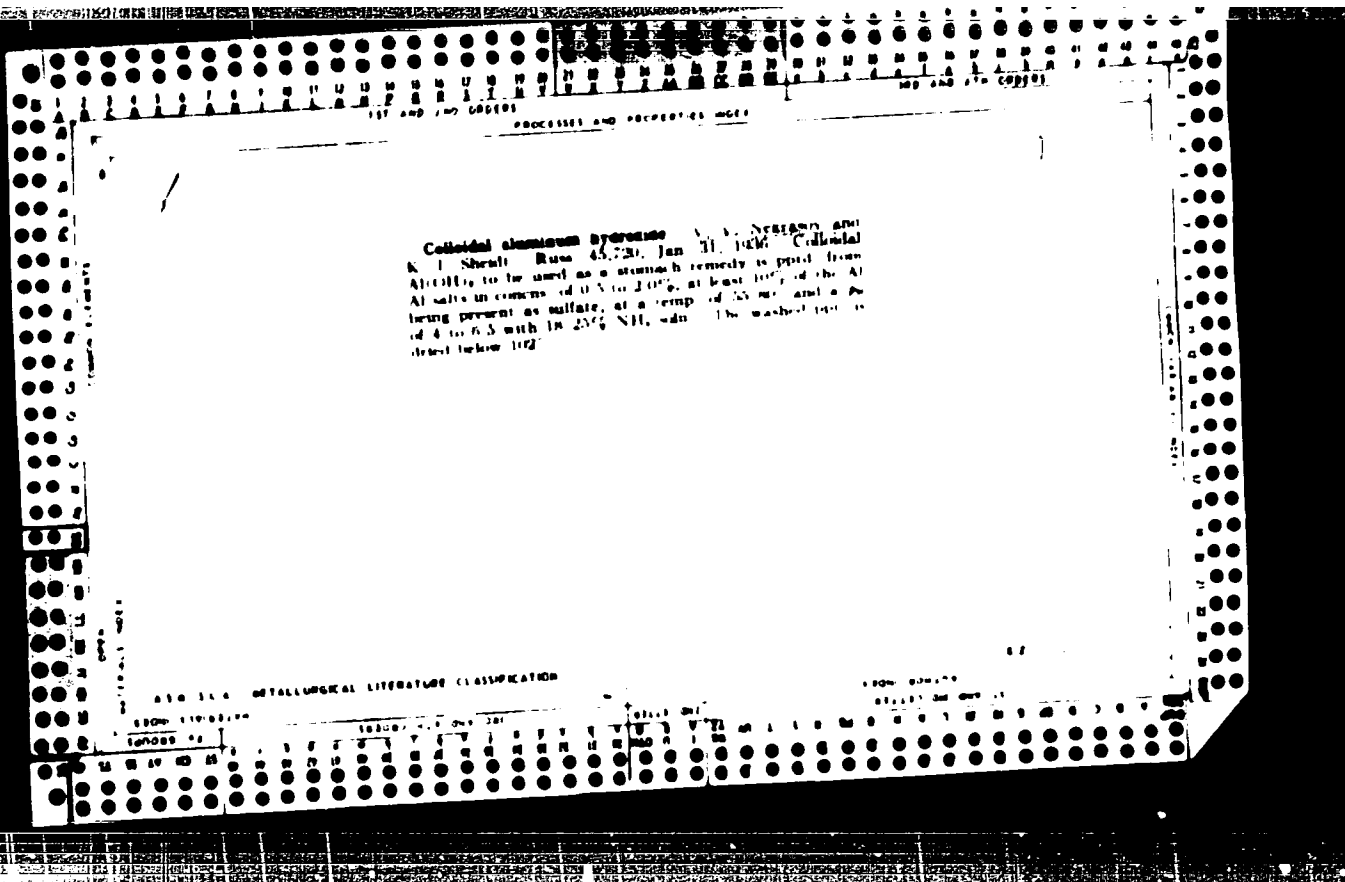


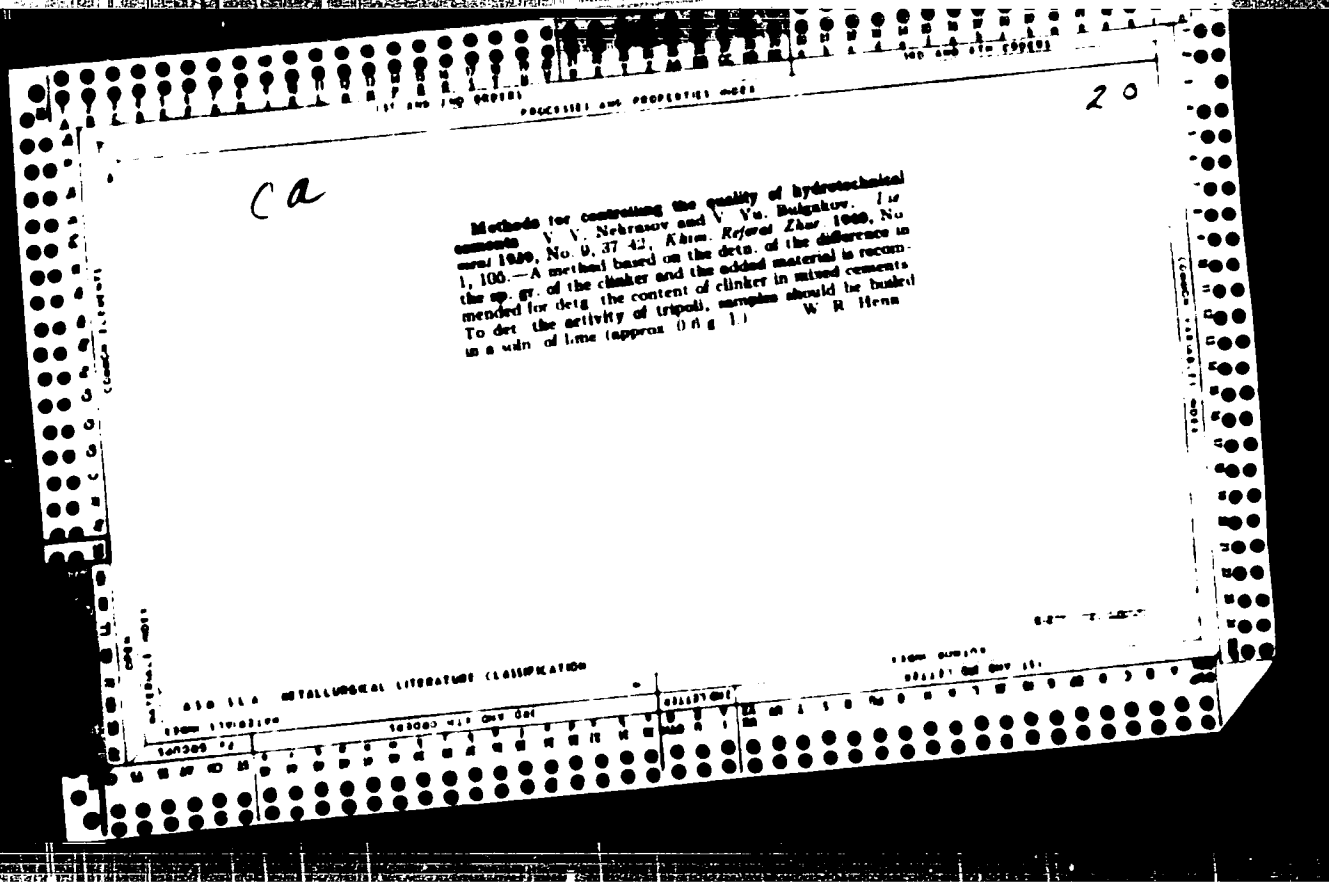












Ex 16

Change of volume of the system during solidification of bituminous cement. V. M. Molnarov (Bull. Acad. Sci. U.R.S.S., Chem. Techn., 1948, 302-313).—Contraction was measured in a narrow necked cylindrical glass vessel, coated internally with bitumen to avoid contraction of the vessel during the course of experiments. The bitumen remains behind if the vessel is cooled to 8° before it is broken. Purified cements from various Soviet works were investigated. In all cases contraction was not completed even after a year. Increase of H₂O in the mixture increased the amount of contraction. Addition of CaCl₂ greatly increased the contraction in the first days but the contraction time curve subsequently approximated to that of cement without additive. With sugar (15%) the contraction was much lower at first and then rose rapidly nearly to normal. This rise was not observed with 2% of sugar. Rise of temp. in general accelerated the contraction process. In the case of both ordinary cement mixtures and those with additives there was a close connection between mechanical strength and contraction during solidification. The amount of contraction was at the vol. of H₂O used, so that contraction curves may be considered as degree of hydration curves. The velocity of hydration of the grains (assumed to be spherical with original radius r₀) of clinker should gradually decrease on account of decreasing in their total non-hydrated surface and on account of decreasing the degree of accessibility by the H₂O, which has to permeate the hydrated layer. The thickness s of this layer is $\sqrt{2D(t)}$ or $\sqrt{4t}$ where D is a numerical const. and t is the sq. permeability. The degree of hydration is given by $H = 100(1 - \frac{s}{r_0})^3$. The time for complete hydration is determined entirely by the ratio r₀²/s. Experimental data for different cements and different particle sizes agree with the theory. G S S

Water soluble alkali in portland cement V. V. Nekrasov and A. V. Rybo. *J. Applied Chem. (U.S.S.R.)* 30: 177-82(1957) (in Russian) (abstr. of KOH + NaOH) were made by adding excess (10-12 ml. cont.) Na(OH), to 100 ml. of boiling ag. ext., then a known amt. of (excess) titrated 0.2 N Na₂CO₃, letting stand 5-10 min., cooling, adjusting to 100 ml., filtering, and titrating 100 ml. with 0.1 N HCl to methyl orange. Ca and sulfate were detd. in sep. portions of the ext. Investigations on a great no. of various domestic cements showed: (1) K: No variable in widest limits; in no case was sulfate higher than Ca, SiO₂ and Al₂O₃ were never higher than 1-2 mg./l. (for the ratio H₂O cement (c) = 3.5) (2) In short extn. (5-15 min.) at c = 3.5, Ca attained 20-40 mg. equiv./l., CaSO₄ 20-65 mg. equiv./l. (twice the amt. of CaO, SiO₂, KOH + NaOH 0.5-1.0; hydraulic acids. lowered both Ca and KOH + NaOH in the ext. sharply. The abs. amt. of KOH + NaOH extd. in a given time (usually 2-6 mg. equiv./l. per 100 g cement) does not vary with c, that of Ca increases somewhat with c increasing from 3.5 to 10.5. (3) Protracted extn. (6-12 hrs.) raised Ca in the ext. 2-3 times; supernat. with Ca²⁺ was obtained in 1-2 1/2 hrs., then CaSO₄ decreased 2-8 times; KOH + NaOH remained unchanged. On further prolonged extn., up to 1 month, with daily stirring, CaSO₄ fell briskly (in a matter of a day or so) to 0-2 mg. equiv./l., Ca slowly; KOH + NaOH increased regularly, attaining complete extn. of the total amt. contained in the cement at about the end of the month; the disappearance of CaSO₄ is evidently due to its binding by aluminum at

the surface of the grains; the slow decrease of Ca is due to its decreasing only with increasing KOH + NaOH. (4) Analogous results were obtained in repeated extn. of fresh samples of cement by the same soln., resulting in extn. increasingly more highly concentrated in KOH + NaOH but increasingly poorer in Ca. (5) Progressive hydration and carbonation on storage is reflected in lowered extractability of KOH + NaOH, usually by 10-20% (in 15-min extn.) after 1-2 months; storing of cement in a thin layer under moist CO₂ brought about this result much sooner. No such change was observed in many months' storage in a closed vessel. (6) Firing at 700-800°, 5-20 hrs., resulted mostly in a sharp increase of extractability of KOH + NaOH, attaining in some cases complete extn. in 20-30 min. Na is mostly extd. somewhat faster than K, particularly after firing; firing also results in more rapid extn. of Ca, while the CaSO₄ content in the ext. drops to nearly zero.

20

450 114 METALLURGICAL LITERATURE CLASSIFICATION

USSR/Engineering
Concrete
Water - Contamination

Sep 48

"Changes in the Composition of Natural Waters
Through Contact With Concrete Structures," V. V.
Nekrasov, Prof A. V. Yevko, Dr Eng Sci, Engr, 4 pp

"Gidrotekh Stroi" No 9

Results of experiments conducted to determine the
nature of chemical changes brought about in natural
waters after they come in contact with concrete
structures.

28/49T26

USSR/Chemistry - Cement
Chemistry - Hydration

Mar 1948

"The Kinetics of the Hydration of Various Types of Cement," V. V. Nekrasov, Chair of Chem Plodovoshchikov Inst imeni I. V. Michurin, 8 pp

"Zhur Prik Khim" Vol XXI, No 3

In previous article in "Iz Ak Nauk SSSR, Otdel Tech Nauk" No 6, 1945, p 592, Nekrasov obtained an equation making possible the calculation of cement at any given time. Here he describes series of experiments with results in accordance with his formula, both for Portland and aluminous cements. Submitted 21 Feb 1947.

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USSR/Chemistry - Cement, Hydraulic, Barden - Mar 1948
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Chemistry - Cement, Hydraulic, Hydration of

"Use of the Contraction Method to Investigate
Possuolans," V. V. Bekrasov, Chair of Chem. Flodo-
voshchikov Inst imeni I. V. Michurin, 6 pp

"Zhur Prikh Elm" Vol XII, No 3

Bekrasov describes series of experiments carried out
on samples of materials used for the "possuolation"
of cements. The results show that: 1. The reaction
of possuolan with lime is accompanied by consider-
able contraction; 2. contraction curves for the
hardening of Portland cement--possuolan mixture

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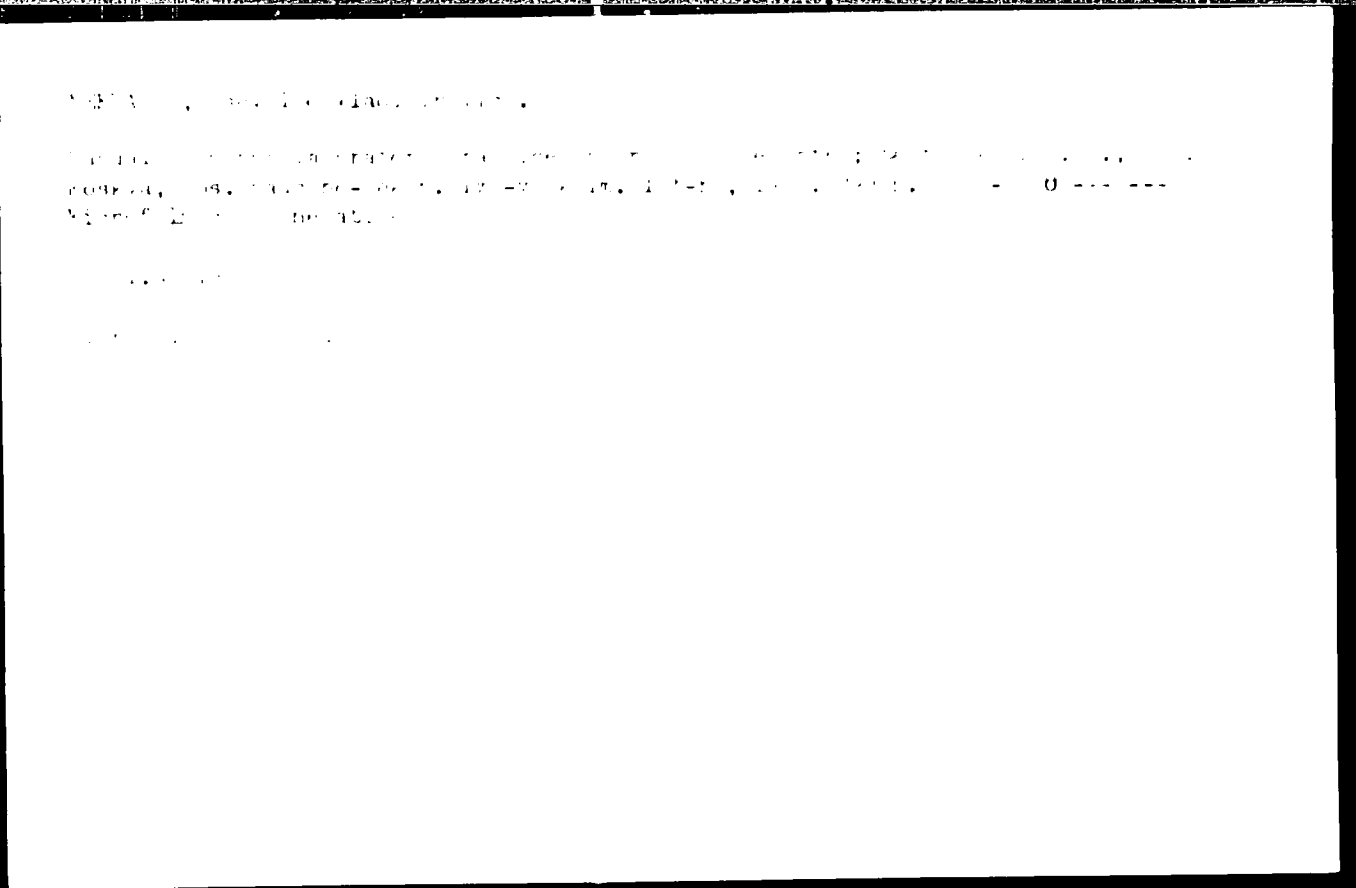
USSR/Chemistry - Cement, Hydraulic, Mar 1948
Hardening of (Contd)

shows an increased rate of clinker hydration; 3.
dry-ground possuolan may contain considerable amount
of air. In neutral and acid mediums this is quickly
displaced by water; in alkaline medium it remains in
the system. Submitted 28 Apr 1947.

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BEKRASOV, V. V.



NEKRASOV, V. V.

7
 Ion-exchange sorption kinetics. I. The kinetics of com-
 plete cation exchange. E. P. Chernova, V. V. Nekrasov,
 and N. M. Tsitshik (L. Ya. Karpov, Phys. Chem. Inst.,
 Moscow). *Zh. Nu. Khim.* 30, 2180-8 (1958). The com-
 plete cation exchange kinetics of Na^+ , Rb^+ , and Ca^{2+} with
 the copolymerized sulfonated polystyrene cation exchange
 resin was studied on the basis of diffusion. The initial ex-
 change stages were functions of the diffusion coeffs., D ,
 which had intermediate values between the diffusion coeff.
 of the exchanging cations, when they were all present in
 microconcn. in the other cation medium. The cation diffu-
 sion coeff. study of Rb^+ , Na^+ , and Ca^{2+} in the H, K, Na, and
 Ca forms of the cation-exchange resin show that univalent
 cations have reduced mobilities in the multivalent-cation
 resins, and similarly the bivalent-cation diffusion rate into
 the univalent-cation resins is lower than that of the univalent
 cations. The complete exchange of Na^+ for H^+ in the resin
 is characterized by larger value of D than of D_{Na} in the acid
 form of the resin. W. M. Sternberg

AM 007

(P) **PLASMA POLYMERIZATION** 67/177

Abstracts and **INDEX**. Institut polimeri i analitichesky direkt
Doklady Akad. Nauk SSSR, Seriya Khimicheskaya, 1978, 21 p. 2,200 copies printed.

Prof. M. I. Eshchikov, Professor, Editorial Board, I. P. Alimarin,
Corresponding Member, USSR Academy of Sciences, I. B. Kossovskiy, Doctor
of Chemical Sciences, A. V. Eshchikov, Candidate of Technical Sciences,
V. I. Danilov, Doctor of Chemical Sciences, M. K. Kravtsov, Candidate of
Chemical Sciences, and Yu. A. Shklyarskiy, Candidate of Chemical Sciences,
Institute of Polymers, USSR Academy of Sciences, Moscow, U.S.S.R.

Abstracts: This book is intended for scientists, chemists, teachers and students
of higher educational institutions, chemical and industrial engineers and
other persons concerned with the extraction, preparation, polymer study of
rare earth elements.

Contents: This collection contains reports presented at the June 1976 Conference
on Rare Earth Elements at the Institute of Geochemistry and Analytical Chem-
istry Lenin V. I. Per. daily of the Academy of Sciences USSR. The articles
deal with chemical methods of separating rare earth mixtures, methods of processing
rare earth ores, ion exchange chromatography, chemical analysis, and some in-
dustrial applications of rare earths. Aside from contributing authors, the
editors mention the following Soviet scientists, who are studying rare earth
elements: rare earth deposits, extraction methods, and the preparation of oxides
and salts, rare earth alloys, and especially, E. A. Orlov, the first obtained the
solubility of rare earth elements in the pure state, separated many complex
molecular compounds of them, and developed methods for determining their specific
properties are given at the end of each article.

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Chernov, Yu. P., E. S. Yankovskiy, and I. L. Zubovskiy (Institute of Chemistry Lenin V. I. Per. daily of the Academy of Sciences USSR). Separation of Europium. Separation of Rare Earth Elements by the Consecutive Chromatog- raphic Method	179
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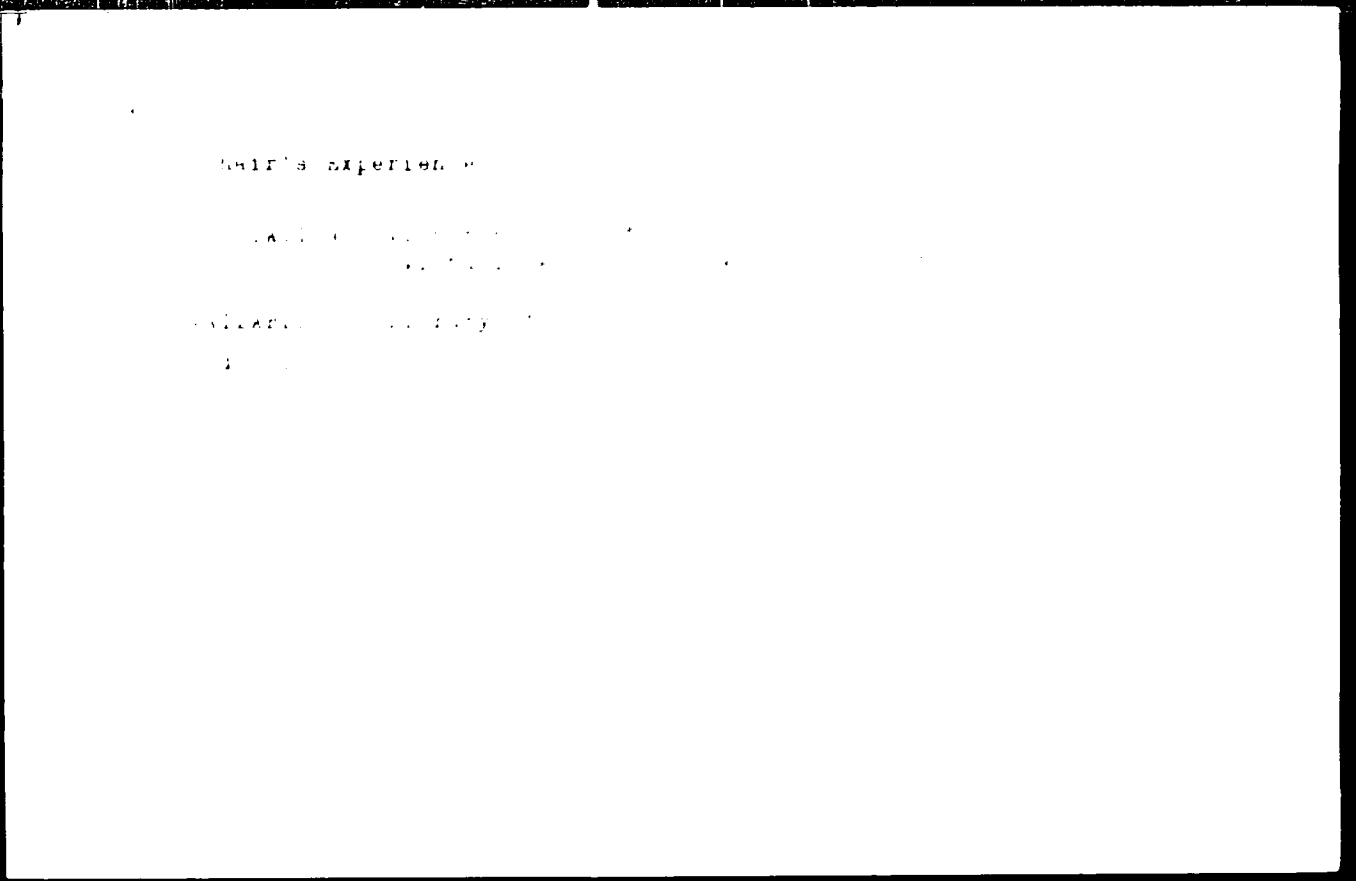
AUTHOR: Nekrasov, V.V., Professor, Doctor of Physical Sciences

TITLE: A Chair's Experience with Correspondence

PERIODICAL: Vestnik Vysshey shkoly, 1978, No. 1, pp. 40-44, USSR

ABSTRACT: The author tells of his experience with 1st and 2nd course correspondence students of a physico-chemical chair of a non-chemical vuz. He points to the lack of chemistry and physics textbooks and states that the ministries and publishing houses should instigate an urgent printing of new manuals and textbooks which are not too specialized and not strictly limited to a certain program. The other materials (programs, methodical aids, instructions, etc.) should be composed and issued by every vuz or faculty conducting correspondence tuition but as they have no printing offices at their disposal, they use material issued by other related institutes. This is no solution to the problem. He also discusses the question of students' control works and their proper rating, and the students' laboratory exercises performed when the faculty and correspondence students meet

Card 1/2



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AUTHORS: Tunitskiy, V. N., Nekrasov, V. V., Chernova, Ye. P. 71-13 43

TITLE: The Theory of the Separation of Rare Earths by Means of Chromatographical Methods (Teoriya razdeleniya redkozemel'nykh elementov khromatograficheskim metodom).

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1968, V. 1. 3, No. 1, pp. 62-72 (USSR).

ABSTRACT: Results of the application of statistical methods with respect to the theory referred to in the title are described in the present report, and theoretical results are compared with the experimental ones. Washing out of chromatographic apexes of curves. The efficiency of separation of the ions of two elements depends 1st on the static factors of separation (ratio of the coefficients of sorption of the ions) and secondly on kinetic factors. The coefficients of diffusion D_c (in the grains of the adsorbent) and D_p (in the solution) are described by means of equations (1). These coefficients of autodiffusion were measured in several elaborate investigations. The velocity of diffusion of the rare earths in sulfopolystyrene-resin KU-2 was measured by the authors. D_c is equal to 10^{-6} cm²/sec. If D_c is known, the part of the

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The Theory of the Separation of Rare Earths by Means of Chromatographical Methods.

75-11363

washing out which is caused by the diffusion processes in the river, can be determined. This part is expressed by the second and third term of the equation:

$$K = \frac{R^2 \gamma^2}{4SD_c} + \frac{\delta v^2}{SD_p} + \frac{D_{long}}{l^2} \quad (2)$$

in which case R - is the radius of the particles, v - the velocity per 1 cm² of the cross-section, $\gamma = \beta(1 - \alpha)$, β - the coefficient of sorption with respect to the unit of volume in the interior of the grain of sorbent, δ - the thickness of the effective thin film of diffusion in the solution, S - the specific surface of the sorbent and D_{long} (D_{pr}) - coefficient of the longitudinal diffusion. For univalent elements, and when using HCl as rinsing solution, it was found that the part K which depends on the processes in the solution, is approximately proportional to "v". (reference 4). Then,

$$K = \frac{R^2 \gamma^2}{4SD_c} + \frac{Ck}{l^2} v \quad (3)$$

The washing out of the apex consequently consists of 2 parts. The first part depends on the inner diffusion in the grains of sorbent and is proportional to $\frac{R^2}{l^2}$. The second part depends on the processes in the flo-

Card 2/5

The Theory of the Separation of Rare Earths by Means
of Chromatographical Methods.

wing solution and is approximately proportional to $\frac{v}{r}$. Other kinetic factors can also be seized with the same method. The equation (3) can be directly applied in the cases where the distribution of ions is considered in the length of the column. Experimental investigation of the apexes. For experimentally re-examining the equation:

$$\frac{(\Delta V^2)}{V} = a_1 + b_1 v \sqrt{r} \quad (7) \text{ which was derived by applying (3), the washing-out of the}$$

apexes of Rb^{86} , which was achieved by rinsing of the column with "Espatite-1"-resin by 0,1 n HCl (reference 1) was investigated. The tests confirmed the theoretically required dependence of the width of the band on the length of the column and proved the correctness of the equation (7). The results of one of the tests are shown in table 1 and figure 1. A diagram was drawn of the results of each test (figures 1, 2). Investigation of the kinetics of the ion-exchange of rare earths. The above investigation does not yet permit to draw any definite conclusions on the role of individual kinetic factors with the separation, and on the influence of the complex-former. As is generally known, the apexes of rare earths are largely expanded with the decreasing pH of the solutions of

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The Theory of the Separation of Rare Earths by Means
of Chromatographical Methods.

78-1-13/63

citric acid. The kinetics of desorption of several elements in 0.1% solution of this acid with different pH (adjusted with ammonia) were investigated for clarifying these problems (reference 5). The values of the coefficients of diffusion of the ions of rare earths within the resin-grains (D_c) were computed from the curves of desorption. The found constancy of the D_c -values confirms the mechanism of diffusion of the desorption. It is shown in table 3 that the average values of these coefficients are independent on the composition of the solution. It hence results that the complex-former has no specific effect with low pH. The results from table 4 in which the dependence of the coefficients of diffusion on the pH for La^{140} and Eu^{154} are reproduced that D_c increases to some extent with increasing pH. The washing out of the apexes is mainly explained by processes in the solution. Table 5 shows the influence of the atomic number on the value of the coefficient of diffusion. The heavy rare earths diffuse many times more rapidly in resin than do the light. The conditions of separation. An increase of the coefficient of sorption prolongs the duration of separation and viceversa. There are 3 figures, 5 tables, and 7 references, 5 of which are Slavic.

Card 4/5

The Theory of the Separation of Rare Earths by Means
of Chromatographical Methods.

ASSOCIATION: Scientific Physical-Chemical Research Institute (Inst. L. Ya. Karpova) MGP
(Ministry of Chemical Industry) USSR (Nauchno-issledovatel'skiy i inzh.-
khimicheskiy institut imeni L. Ya. Karpova MGP SSSR).

SUBMITTED: May 19, 1957.

AVAILABLE: Library of Congress.

Card 1/5

NEKRASOV, V.V.; SHISHO, G.A.

Contraction of portland cement with chloride additives during
hardening at, temperatures above and below freezing. Zhur. prikl.
khim. 31 no.10:1460-1466 0 '58. (MIRA 12:1)

1. Kafedra khimii Plodooveshchnogo instituta imeni I.V. Michurina
i nauchno-issledovatel'skiy sektor Gidroproyekta imeni S.Ya. Zhuka.
(Portland cement--Testing)

WEEK 4500, VL

5(2) PNAS: NEW EXPLANATION 3 3 64

Abstracts with ISBN. Institut Geodetisch-Geophysikalisch (1959)

Abstracts with ISBN. Institut Geodetisch-Geophysikalisch (1959) 331 9

Dr. M. J. I. ... Professor ... of ...

... This book is intended for ...

... This collection of articles ...

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AUTHORS: Yurkov, V.A. and Nekrasov, V.V. 66887
SOV/126-7-1-1/25

TITLE: Thermoelectric Properties of Sn-Cd and Pb-Cd Alloys

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 6, Nr 1,
pp 21-24 (USSR)

ABSTRACT: The thermoelectric properties of alloys have been widely studied. This is due to the fact that they have great practical and scientific importance. In practice, it is often necessary to have materials which when put in series with a given metal do not give rise to an appreciable thermal e.m.f. From this point of view it is important to carry out further studies on systems in which the thermal e.m.f. curve has a point at which the sign of the e.m.f. changes. The present work was carried out in order to obtain the thermal e.m.f. curve for Sn-Cd and Pb-Cd alloys as a function of the concentration of the components. The effect of experimental conditions on the thermal e.m.f. curve was also investigated. The results obtained are shown in Figs 1 and 2. Fig 1 shows the dependence of the thermal e.m.f. for Sn-Cd alloys as a function of the temperature difference between the hot and the cold

Card 1/2

Thermoelectric Properties of Sn-Cd and Pb-Cd Alloys

SOV/126-6-1-4/25 66887

junctions for different compositions (indicated in the figure caption). Fig 2 shows the dependence of the thermal e.m.f. of Sn-Cd alloys on composition for different temperature differences (indicated in the figure caption). Figs 3 and 4 show analogous plots for Pb-Cd alloys. As can be seen, sign inversion occurs in all the graphs. The position of the inversion point on the Cd concentration axis changes with the temperature difference. As the latter increases, the inversion point is displaced towards smaller cadmium concentrations. There are 4 figures and 7 Soviet references.

ASSOCIATION: Arkhangel'skiy lesotekhnicheskiy institut
(Arkhangel'sk Forestry Institute)

SUBMITTED: March 3, 1958

Card 2/2

3 1/2" x 5 1/4"

504
AUTHORS

Yarkov, V. I., Novosy, V. V.

TITLE

The electrochemical potential of Bi-Sb alloys in contact with
saturated Bi-Sb

PERIODICAL

Zhurnal fizicheskoy khimii, 1969, Vol. 43, No. 1,
p. 111-117, USSR

ABSTRACT

Calculations concern the relationship between the
electrode potential of alloys and their composition. The
use of special interest is investigations of the electro-
chemical properties of metallic alloys. Theoretical analysis of
the system Bi-Sb is given at two compositions, Bi₂Sb and Bi
References are given to Bi-Sb alloys, particularly at low
temperatures. While CuBi is treated as a solid solution
as a semi-conductor in reference to the properties of Bi, the
work of this paper treated a CuBi₂ alloy as a p-type
/Reference to standard sample as a conductor, and a
BiTV-1 galvanometer. Alloys with the following compositions
were studied: Bi₂Sb, Bi₃Sb, Bi₄Sb, Bi₅Sb, Bi₆Sb, Bi₇Sb,
and Bi₈Sb, and Bi₉Sb, Bi₁₀Sb, Bi₁₁Sb, and a Bi solution were

Card 1/1

The Electrode Potential of $Cu-Sb$

SCV, 76-111-1-1/11

used as electrolytes. The addition of $NaOH$ causes the potential of the alloy to become more positive. The maximum value of the potential is higher in the alkaline solution than in the acid solutions. 3 minima are indicated in the potential-pH diagram (Fig. 1). The minimum at $pH = 0$ is considered to be a potential structure. The minimum at $pH = 5.25$ is clearly represents the formation of the compound $CuSb$. The potential minimum at $pH = 10$ has still to be explained by further investigations. The authors are very indebted to the staff of the Institute for their assistance and to S. V. Kiselev for his help.

ASSOCIATION: Arkhangel'skiy Institute of Chemistry and Applied Technical Institute for the North

DATE: July 17, 1967

Card 1/1

REASON: [faint text]

[faint text]

~~MEKRASOV, Vsevolod Vladimirovich, prof.; KUL'BOVSKAYA, N.K., red.;~~
~~SHAK, Ye.G., tekhn.red.~~

[Manual of laboratory practice in organic chemistry] Ruko-
vodstvo k malomu praktikumu po organicheskoi khimii. Izd.3.,
dop. Moskva, Gos.nauchno-tekhn.isd-vo khim.lit-ry, 1960.
356 p. (MIRA 14:4)
(Chemistry, Organic--Handbooks, manuals, etc.)

1716

U.S.S.R. / 1966 / 001 / 011 /
S078 / E555

AUTHORS: Talbot, V.A. and Kharin, V.V.

TITLE: Physical properties of copper-antimony alloys

ABSTRACT: Investigatsiya vysshim. uchebnykh zavedeniy, 1966,
no. 2, 1966, 32 - 37

TEXT: The microhardness, thermal, electrical and thermoelectric properties of $Cu_{25}Sb-Cu_{75}Sb$ were investigated in the range of copper contents between 0.25 and 50.27 wt. % and antimony contents between 50.73 and 49.73 wt. %. Microhardness measurements with a load of 20 g have shown that the Hall-Petch relations are obeyed with a satisfactory degree of accuracy. The microhardness may be greatly affected by the distribution of impurities into the intercrystallite space and by the nature and amount of intercrystallite substance in high-purity material. The microhardness of freshly cleaved surfaces of $Cu_{25}Sb$ single crystals was $H_{20} = 315 \text{ kg/mm}^2$. The dependence of the coefficient of linear expansion α on temperature T

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5/17/66/04/211
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Physical properties of ...

of $\text{Cu}_{1-x}\text{Sb}_x$ - $\text{Cu}_{1-x}\text{Sb}_x$ alloys on the $\text{Cu}_{1-x}\text{Sb}_x$ content (x = 0.1, 0.2, 0.3, 0.4, 0.5).

Fig. 1. Dependence of electric resistance R of $\text{Cu}_{1-x}\text{Sb}_x$ alloys containing $\text{Cu}_{1-x}\text{Sb}_x$ (curve 1) and $\text{Cu}_{1-x}\text{Sb}_x$ (curve 2) on the $\text{Cu}_{1-x}\text{Sb}_x$ content (x) at the temperature of the experiment $T = 200^\circ\text{C}$.

Fig. 2. Dependence of α on x for the $\text{Cu}_{1-x}\text{Sb}_x$ alloys (curve 1) and for an alloy containing $\text{Cu}_{1-x}\text{Sb}_x$ (curve 2).

The dependence of the steady-state α on the $\text{Cu}_{1-x}\text{Sb}_x$ content of the alloys on temperature proved to be linear. Fig. 3 shows the dependence of the resistance R on $10^{-3} \rho$, cm and of the temperature coefficient α on $10^{-3} \rho$, $^\circ\text{C}^{-1}$.

on the $\text{Cu}_{1-x}\text{Sb}_x$ content of $\text{Cu}_{1-x}\text{Sb}_x$ - $\text{Cu}_{1-x}\text{Sb}_x$ alloys. Curves 1 and 2 represent, respectively, the resistance R (ohm) and α ($^\circ\text{C}^{-1}$) at 200°C ; curve 3 represents the dependence of the temperature coefficient on the composition. The thermo-electric α was measured on the base sections of the $\text{Cu}_{1-x}\text{Sb}_x$ alloys.

On the side of the thermoelectric α , μV , on the difference ΔT ...

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Physical properties of

S/139/62/000/002/011/028
E075/E335

temperature is plotted in Fig. 6 for the compounds Cu_3Sb (1), Cu_2Sb (2), 80% Cu_3Sb + 20% Cu_2Sb (3) and 20% Cu_3Sb + 80% Cu_2Sb (4). Fig. 7 gives the thermo-e.m.f., ϵ , μV , as a function of the Cu_3Sb content (mole.%) of Cu_3Sb - Cu_2Sb alloys for the temperature differences $\Delta t = 100, 150$ and 200°C , respectively. Cu_2Sb is a strongly paramagnetic substance, whilst Cu_3Sb is a diamagnetic substance. There are 7 figures and 2 tables.

ASSOCIATION: Arkhangel'skiy lesotekhnicheskiy institut
imeni V.V. Kuybysheva (Archangel Forestry
Institute imeni V.V. Kuybyshev)

SUBMITTED: June 25, 1960 (initially)
June 2, 1961 (after revision)

Card 3/8

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Subject of experiment is the Gulf of Aden. The

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L 25470-66 EPF(n)-2/EWT(l)/EWT(m)/ETC(m)-6/ETC(f)/EWG(m)/T/EWP(w)/EWP(t) IJP(c)
 ACC NR: AP6009695 RDW/WW/JD SOURCE CODE: UR/0181/66/008/003/0961/0963

AUTHOR: Nekrasov, V. V.

ORG: Arkhangel'sk Forestry Engineering Institut im. V. V. Kuybyshev (Arkhangel'skiy lesotekhnicheskii institut)

TITLE: Study of the absorption of ultrasound and of the microhardness of single-crystal bismuth with tellurium and tin impurities

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 961-963

TOPIC TAGS: ultrasonic absorption, hardness, bismuth, single crystal, absorption coefficient, phonon, crystal lattice vibration, solid solution

ABSTRACT: The author investigated the influence of small amounts of tellurium and tin impurities on the absorption coefficient and microhardness of single crystals of bismuth of orientation A (classification of D. V. Gitsu and G. A. Ivanov (FTF v. 2, 1457, 1960)). The bismuth-base alloys were prepared by a procedure described by G. A. Ivanov and A. R. Fegel' (ZhTF v. 25, 39, 1955). The ultrasound absorption coefficient was measured with an ultrasonic deflectoscope (UDM-1M) at 5 Mcs. The microhardness was measured with the FMI-3 instrument at a load of 50 g. The tests have shown that the absorption coefficient and the microhardness of the bismuth alloys with tin have approximately the same values as for alloys with tellurium if the number of atoms of tin in the alloy is four times larger than that of the tellurium. The largest change in the absorption coefficient and in the microhardness is observed

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83

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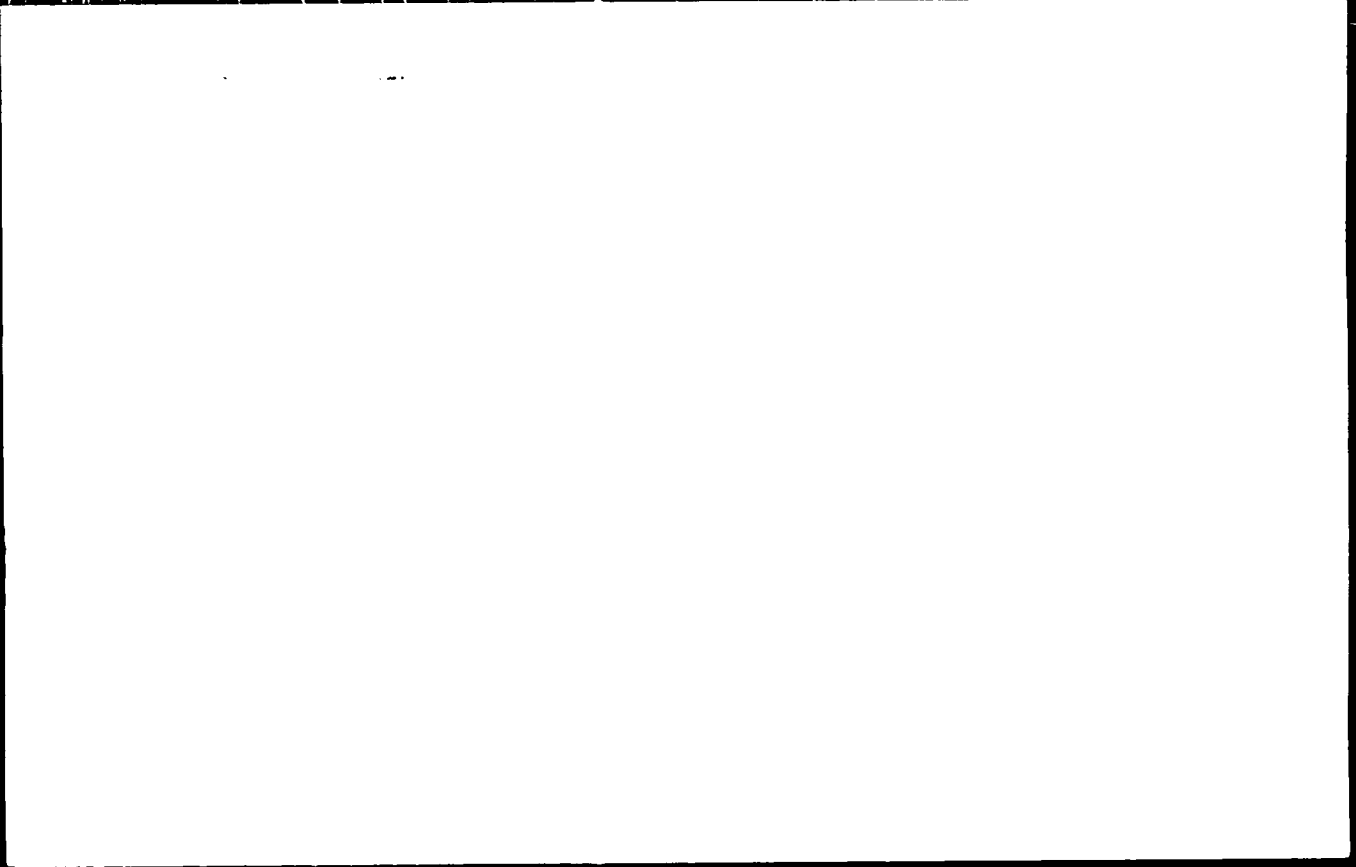
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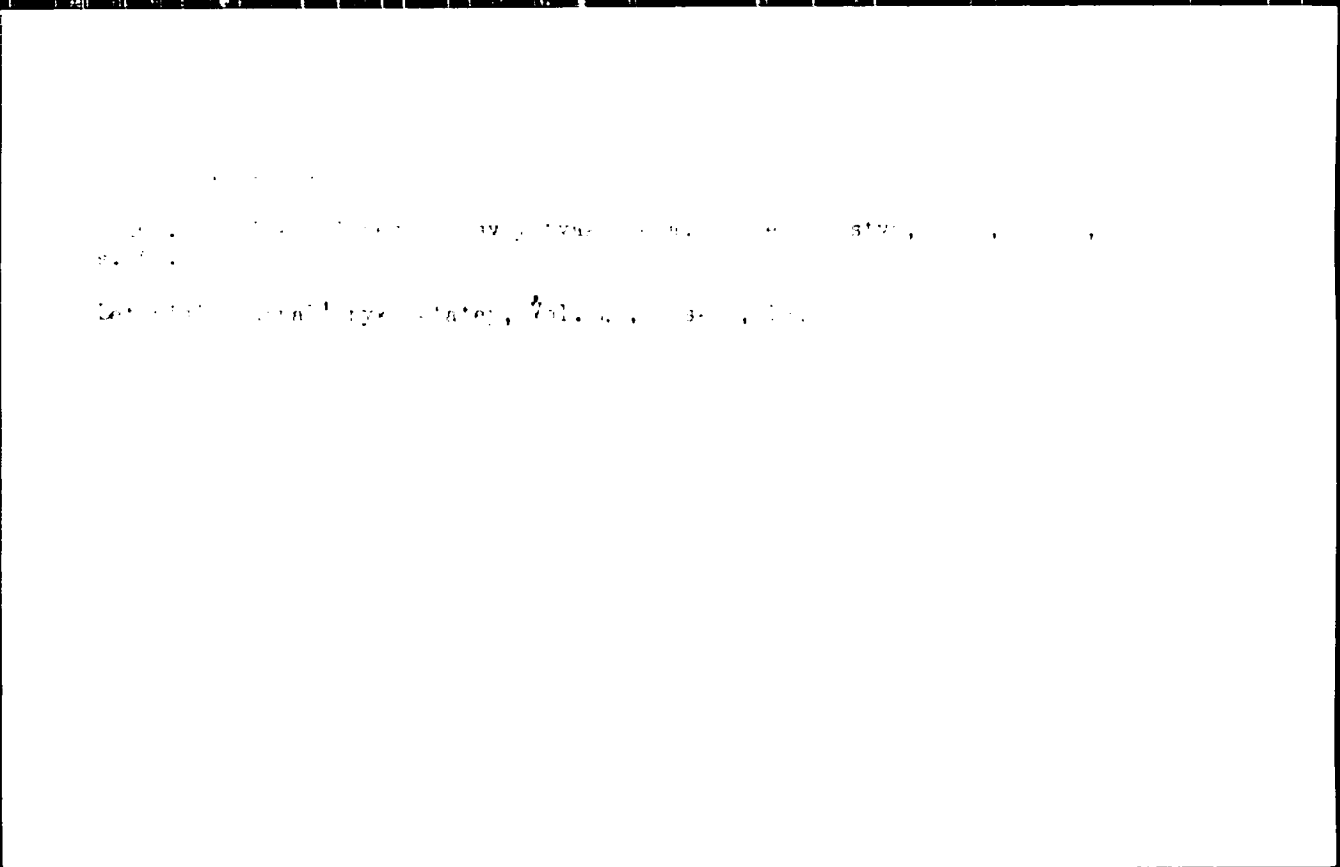
4

when the impurities are completely soluble in the bismuth. It follows from the data that the product of the absorption coefficient by the microhardness of the alloy is approximately constant for all alloys. The results can be attributed to the interaction between the ultrasonic phonons and the electrons or the holes, and also to the scattering of the phonons by the thermal lattice vibrations. It is proposed that the correlation observed between the sound absorption coefficient and the microhardness is common to all dilute metallic solutions. The author thanks G. A. Ivanov, V. A. Yurkov, and V. M. Gribov for a discussion of the results. Orig. art. has: 2 figures.

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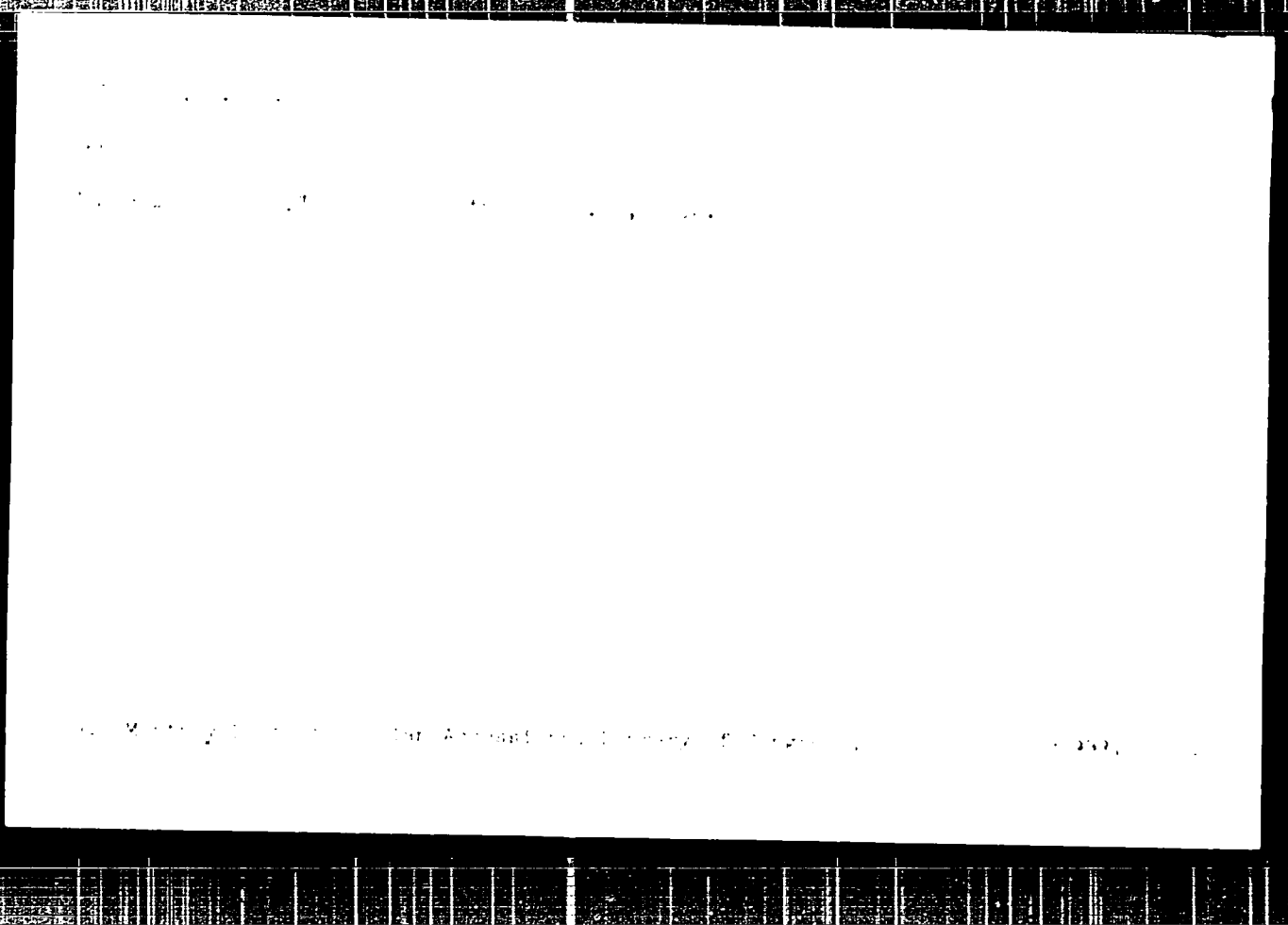


NSK 1307, 1. 11.

see Outline

A superficial and confusing book on the effort of leaders ("Accelerated propagation of bees."
reviewed by N. A. Babitskaya, A. Khokhlov.) Izhelovodstvo 29, no. 5, May 1962.

9. Monthly List of Russian Accessions, Library of Congress, August 1962.



SHECHERBINA, Pavel Semenovich; MIKASOV, V. Yu., spetsredaktor; TETUYUREVA, I. V.,
redaktor; PAVLOVA, M. M., tekhnicheskiy redaktor

[Beekeeping] Pchelovodstvo. Izd. 2-oe, perer. Moskva, Gos. izd-vo
selkhoz. lit-ry, 1956. 622 p. (MIRA 10:1)
(Bee culture)

S DOBYREV, V.P. (Moskva); NEKRASOV, Ye.B. (Moskva)

Extensometer for measuring longitudinal and angular deformation
of tubular specimens. Izv. AN SSSR. Mekh. no. 5:137-140, 1965.
MIRA 18:1-2

NEKRASOV, Ye.M.

Structural characteristics of the Zambarak lead-zinc deposit in the eastern part of the Kara-Mazar Mountains. Geol. rud. mestorozh. no.3:62-73 My-Je '59. (MIRA 12:10)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.
(Zambarak region (Kara-Mazar Mountains)--Zinc ores))
(Zambarak region (Kara-Mazar Mountains)--Lead ores))

NEKRASOV, YE. M., CAND GEOL-MIN SCI, "STRUCTURE OF
LEAD-ZINC LODES OF KARAMAZAR." MOSCOW, 1960. (MIN
OF HIGHER AND SEC SPEC ED RSFSR, MOSCOW GEOL PROSPECT-
ING INST IM S. ORDZHONIKIDZE). (KL, 3-61, 208).

NEKRASOV, Ya.M.

Occurrences of enriched sectors of ore bodies in the Uch-Ochag deposit. Geol. rud. mestorozh. no.1:83-91 Ja-F '60.
(MIRA 13:7)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.
(Kurama Range—Ore deposits)

NEKRASOV, Ye.M.

Structural characteristics of vein lead-zinc deposits in the
Kara-Mazar Mountains. Geol. rud. nestorozh. no. 2:111-114 Mr-Apr
'60. (MIRAL:8)

1. Institut geologii rudnykh nestorozhdeniy, petrografii, minera-
logii i geokhimii AN SSSR, Moskva.

(Kara-Mazar Mountains--Lead ores)

(Kara-Mazar Mountains--Zinc ores)

Никитин, Я.М.

Basic structural characteristics of the Chukur-Dzhilga lead and zinc deposit in the eastern Karamasar Mountains. *Izv. vys. ucheb. zav.; geol. i razv. 3 no.7:83-93 J1 '60.* (MIRA 13:9)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.

(Karamasar Mountains--Geology, Economic)

NEKRASOV, Ye.M.

Formation of faults transversally oriented to folds. Trudy IGEM
no.41:119-133 '61.

(MIRA 14:8)

(Kazakhstan--Faults (Geology))

(Soviet Central Asia--Faults (Geology))

ROZANOV, Yu.A.; KRISTAL'NIY, B.V.; NEKRASOV, Ye.M.; PASHKOVSKAYA, M.D.

Changes in the pores of enclosing rocks in some deposits of
northern Tajikistan. Trudy IGEM no.41:171-177 '61. (MIRA 14:8)
(Tajikistan--Ore deposits) (Porosity)

NEKRASOV, Ye.M.; NIKOLAYEV, S.V.

Changes in the physical properties of quartz felsite-porphyrins
in enclosing zones of the Zambarak lead-zinc deposit. Trudy
IGEM no.43:124-127 '61. (MIRA 14:10)
(Kurama Range—Ore deposits)

SAKHAROVA, M.S.; NEKRASOV, Ye.M.

Mineralogy of the USSR. A review of the literature
governing the realization of new types of...
in the Dnieper basin. In: Rud. mestrost. 1955, 55
My-Je 164

1. Kafedra mineralogi Moskva: gosudarst. univ. Moskva
! Sentral'nyy nauchno-issledovatel'skiy p. obrazovaniya i
tut tsvetrykh, redzikh i bug rodnykh metallov Moskva.

VOLKOV, Yu.N.; NEKRASOV, Yu.A.

Hemotransfusions in treatment of peptic ulcers. Vrach. delo n. 11: 1974, 51-53.

BELOVA, L.P.; NEKRASOV, Yu.D.

Solubility in the system sodium bifuoride - water. Zhur.
neorg. khim. 9 no.11:2669-2671 N '64 (MIRA 12:1)

1. Permskiy filial gosudarstvennogo instituta prikladnoy
khimii.

L 52765-65
 ACCESSION No: AT501177
 AUTHORITY: AKTIVNOSTI/IZVESHCHENIYA/IZVESHCHENIYA Pe-5/P1-4 GV/GS
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 AUTHOR: Aktinov, B. A.; Zuyev, V. Ya.; Kabanov, M. V.; Kokhanenko, P. No;
Nekrasov, Yu. I. 28
29
Bri
 TITLE: New apparatus for measuring atmospheric transparency in the infrared re-
gion.
 SOURCE: Reseniye na zadaniye naukoobrazovaniya i obshchestvennoy optiki atmosfery. SCh,
Moscow, 1964; Aktivnosti i optika atmosfery (Atmospheric and atmospheric
optics) izvyedaniya. Moscow, Izd-vo Nauka, 1964, 214-237
 TOPIC TAGS: atmospheric transparency, infrared light, meteorological instrument,
transparency meter
 ABSTRACT: Many problems in the field of propagation of electromagnetic waves in
 different media require development of modern apparatus making it possible to de-
 termine various statistical characteristics of signals and their analysis with a
 high accuracy. With respect to the investigation of long-wave radiation, the de-
 tection of a useful signal in the presence of interference is possible using an
 infrared radiation sensor, operating with a narrow-band amplifier, tuned to the
 modulation frequency of the radiation source. The output of the narrow-band am-
 plifier is processed in a narrow-band amplifier.

1 2765-45

Abstract No. A594177

plifier can be connected to an electronic computer using the circuit of the DES-2 apparatus developed for investigation of distant tropospheric and ionospheric propagation of very-short waves in the range 1-20 kc/s. After modification, the instrument can be used to investigate the propagation of long-wave radiation in the atmosphere where frequencies of 5-45 cps are involved. This article describes the instrument, whose block diagram is shown in Fig. 1 of the Enclosure. It is proposed that this precise and reliable instrument be used as part of a complex apparatus for solution of problems associated with the propagation of infrared radiation in the atmosphere, especially for investigating the frequency and amplitude of fluctuation of atmospheric transparency for long-wave radiation, the correlation between transparency and meteorological elements, and similar problems. The instrument can be used in all cases when the experimenter must make a statistical analysis of signals with slowly changing amplitude. Orig. art. has: 2 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskii institut pri Tomskom gosudarstvennom universitete (Siberian Physics and Engineering Institute, Tomsk State University)

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Cont 2/3

ANTONOV, I.A., kand.tekhn.nauk; ANTOSHIN, Ye.V., inzh.; ASINOVSKAYA, G.A.,
inzh.; VASIL'YEV, K.V., kand.tekhn.nauk; GUZOV, S.G., inzh.; DEYKUN,
V.K., inzh.; ZAYTSEVA, V.P., inzh.; KAZEMKOV, P.P., inzh.; ZABAN,
Yu.B., inzh.; KOLTUNOV, P.S., kand.tekhn.nauk; KOROVIN, A.I., inzh.;
KRZHECHKOVSKIY, A.K., inzh.; KUZNETSOVA, Ye.I., inzh.; MATVEYEV, N.N.,
tekhnik; MOROZOV, M.Ye., inzh.; NEKRASOV, Yu.I., inzh.; NECHAYEV,
V.D., kand.tekhn.nauk; NINEBURG, A.K., kand.tekhn.nauk; SPEKTOR, O.Sh.,
inzh.; STRIZHEVSKIY, I.I., kand.khim.nauk; TESMENITSKIY, D.I., inzh.;
KHROMOVA, TS.S., inzh.; TSEUNEL', A.K., inzh.; SHASHKOV, A.N., kand.
tekhn.nauk, dots.; SHELECHNIK, M.M., inzh.; SHUEKMAN, D.Ya., inzh.;
EDEL'SON, A.M., inzh.; VOLODIN, V.A., red.; UVAROVA, A.P., tekhn.red.

[Machines and apparatuses designed by the All-Union Institute of
Autogenous Working of Metals] Mashiny i apparaty konstruktaii
VNIILavtogen. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi
lit-ry, 1957. 177 p. (Moscow, Vsesoiuznyi nauchno-issledovatel'skii
institut avtogennoi obrabotki metallov, no.9)
(Gas welding and cutting--Equipment and supplies)

VASIL'YEV, Kirill Vasil'yevich, kand. tekhn. nauk; SHAPIRO, Ilya Samuilovich, inzh.; NEKRASOV, Yuriy Ivanovich; RAGAZINA, M.F., inzh., ved. red.; SHTERLING, S.Z., dots., red.; SOROKINA, T.M., tekhn. red.

[Oxygen-arc cutting of metals. Backfire localizing device for gas and petroleum cutting torches] Elektrokislorodnaya rezka metallov. Lokalizator obratnykh udarov v benzo-i kerosinorezakh [By] I.U.Nekrasov. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 12 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 12. No.M-58-102/8) (MIRA 16:2)
(Gas welding and cutting)

NIKRASOV, Yu. I.

The HCR-3-57 cutter operating on atomized liquid fuel. Biul. tekhn.-
ekon. inform. no. 3:16-17 '58. (MIRA 11:6)
(Gas welding and cutting)

PHASE I BOOK EXPLANATION SOW/7281

1. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

2. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

3. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

4. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

5. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

6. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

7. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

8. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

9. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

10. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov)

COVERAGE: This book contains articles on theoretical investigations of oxygen cutting and welding and problems related to the gas-
 oxygen cutting and welding. No personalities are mentioned.
 References follow each article.

TABLE OF CONTENTS:

1. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 229

The authors investigate the stabilizing effect of nitrogen, acetylene, and acetylene, propane on the explosive decomposition of acetylene under pressure of 5 to 20 atm.

EXPLANATION

Vasil, Yev. E. V. Candidate of Technical Sciences. See Method 245

The author describes a experimental investigation of the above process and stresses its advantages.

2. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 249

The article contains a description of the torch, its uses, and its performance.

3. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 258

The article describes a variety of methods of welding low-carbon steel. This method involves an increased oxygen-acetylene ratio and employs the SV-1235 welding rod, developed by V.I. Kozlov.

4. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 256

The article describes a method of manufacturing a mixture with fuel-200.

5. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 260

The article describes a method of manufacturing a mixture with fuel-200. This method involves an increased oxygen-acetylene ratio and employs the SV-1235 welding rod, developed by V.I. Kozlov.

6. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 263

The article describes a method of manufacturing a mixture with fuel-200. This method involves an increased oxygen-acetylene ratio and employs the SV-1235 welding rod, developed by V.I. Kozlov.

7. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 266

The article describes a method of manufacturing a mixture with fuel-200. This method involves an increased oxygen-acetylene ratio and employs the SV-1235 welding rod, developed by V.I. Kozlov.

8. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 269

The article describes a method of manufacturing a mixture with fuel-200. This method involves an increased oxygen-acetylene ratio and employs the SV-1235 welding rod, developed by V.I. Kozlov.

9. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 272

The article describes a method of manufacturing a mixture with fuel-200. This method involves an increased oxygen-acetylene ratio and employs the SV-1235 welding rod, developed by V.I. Kozlov.

10. *Acetylene* (Acetylene is acetylate, acety Institute avogenny obratno total metallov) 275

The article describes a method of manufacturing a mixture with fuel-200. This method involves an increased oxygen-acetylene ratio and employs the SV-1235 welding rod, developed by V.I. Kozlov.

NEKRASOV. Yu. I., inzh.

Investigating and developing a new type of cutter operated on liquid fuel. Trudy VNIIAvtogen no. 6:35-48 '60.

(MIRA 13:8)

(Gas welding and cutting--Equipment and supplies)

NERENOV, Yu.I., inzh.

Heat-resistant nozzles for oxyacetylene welding. Bezop. truda
v p. om. 5 no. 2: 9 F '61. (1961: 14:2)

(Gas welding and cutting)

NEKRASOV, Yu.I.; SHASHKOV, A.N., kand. tekhn. nauk; SOBOLEVA,
G.N., red. izd-va; GORDEYEVA, L.P., tekhn. red.

[Welding metals with the use of liquid fuel] Svarka metal-
lov s ispol'zovaniem zhidkogo goriuchego. Pod red. A.N. Shash-
kova. Moskva, Mashgiz, 1963. 85 p. (Bibliotekha avtogen-
shchika, no.7) (MIRA 16:7)

(Gas welding and cutting)