

KHARIKHARAN, H.V., kand.tekhn.nauk

Problem concerning the effect of synchronous motors on the stability of the complex load of an electric power system. Izv. vys. ucheb. zav.; energ. 5 no.6:119-122 Je '62. (MIRA 15:6)

1. Bomboyskiy politekhnicheskii institut, Indiya. Predstavlena kafedroy elektricheskikh sistem Moskovskogo energeticheskogo instituta. (Electric power distribution) (Electric motors, Synchronous)

BAMPI, Yu.S., inzh.; KHARIKHARAN, M.V., inzh.

Special features of the stability of an asynchronous load with generator excitation regulation. Izv. vys. ucheb. zav.; energ. 5 no.10:5-12 0 '62. (MIRA 15:11)

1. Moskovskiy ordena Lenina energeticheskiy institut.
Predstavlena kafedroy elektricheskikh sistem.
(Electric power distribution)
(Electric motors)

ACC NR:

AB700115

SOURCE CODE: UR/0169/66/000/012/G003/G004

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721810016-

AUTHOR: Kharikov, B. A.

TITLE: Characteristics of the structure of the earth's crust in the vicinity of the Bol'shoy Balkhan and adjacent areas based on regional seismic profiling data

SOURCE: Ref. zh. Geofizika, Abs. 12G18

REF SOURCE: Sb. Tekton. Turkmenii i sopredel'n. territoriy. M., Nauka, 1966, 210-213

TOPIC TAGS: seismic profiling, earth crust, Mohorovicic discontinuity, tectonics,

seismic prospecting
ABSTRACT: Correlation refracted wave and deep seismic sounding data obtained along the Ogurchinskiy Island-Sarykamysh Basin profile have been used to compile a seismic cross-section of the Earth's crust along the Bol'shoy Balkhan-Caspian Sea sector. South from the Bol'shoy Balkhan the depth to the Mohorovicic discontinuity decreases with an increasing slope (from 30 to 55 km). The top of the basaltic and granitic layers sinks from 13 to 18 km and from 1 to 5 km, respectively. A block structure with many local tectonic dislocations characterizes the surface of the granitic layer. In addition, three major deep fault zones involving the entire crystalline complex down to the subcrustal layer are identified. From the surface, the structure of the Bol'shoy Balkhan appears as a large asymmetric anticline 100 km in length and 50 km wide. The fold has latitudinal strike. The earth's crust in the vicinity of Bol'shoy Balkhan is of the platform type; its thickness is 30-32 km. The deep geologic structure of the Bol'shoy Balkhan is compared to that of the West Turkmen

UDC: 550.311:551.24

ACC NR:

AB700115

KHARIKOV, B.A.; SAL'NIKOV, B.I.

First results of the use of the controlled directional
sensitivity method in seismic prospecting on the Cheleken
Peninsula. Neftegaz. geol. i geofiz. no.4:51-53 '65.
(MIRA 18:7)

1. Zapadnaya geofizicheskaya ekspeditsiya No.1 i ON pri
Sovete Ministrov Turkmenskoy SSR.

- KHARIKOV, B.A.; DEMIN, V.Ye.

Results of seismic investigations by the reflection method in the
Oval-Toval area of the Balkhan region in 1963. Geol. nefti i gaza 8
no.5:34-38 My '64. (MIRA 17:9)

1. Zapadnaya geofizicheskaya ekspeditsiya No.1 Upravleniya geologii
i okhrany nedr pri Sovete Ministrov Turkmenskoy SSR.

ACCESSION NR: APL040293

8/0202/64/000/003/0047/0051

AUTHORS: Kharikov, B. A.; Sal'nikov, B. I.

TITLE: First results of using the RDR seismic method (regulated directional reception) for exploring subsurface red beds in the Balkhan region of the Turkmen SSR

SOURCE: AN TurkmSSR. Izv. Ser. fiz.-tekhn., khim. i geol. n., no. 3, 1964, 47-51

TOPIC TAGS: seismic prospecting, regulated directional reception, red bed, geologic structure/ SS 26 51D seismic installation

ABSTRACT: It was found that the ordinary reflection method of seismic prospecting did not adequately delineate structure of the red beds in much of western Turkmenia. Records generally showed broken reflections with short in-phase axes, partly interference, which gave doubtful correlations. Much of the record was so chaotic that no interpretation could be attempted. The regulated directional reception method (RDR) was therefore proposed, as a test of the method and as a means of deciphering the obscure structure. Single and double profiles were run, with shot-point distances of 400 m and a distance of 25 m between array centers. In addition, a longitudinal grouping of 11 detectors was made on a base of 40 m for averaging

Card 1/3

APPROVED FOR RELEASE: 09/17/2001

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ACCESSION NR: APL040293

values and diminishing noise. An SS-26-51D seismic installation was used. A section was constructed along one of the profiles from RDR data with supplementary 25-60 filtering. Results show that the method is very effective in interpreting the geologic structure. The constructed section permits rather complete depth determination of the red beds. A more complete geologic map may be drawn from this work than from any other geophysical method. The crestal zones along the anticlines of the Balkhan district have very complex structure, being characterized by the presence of nonreflecting interfaces, and it is therefore necessary to make double profiles for efficient RDR delineation. Productivity in such exploration may be greatly improved by increasing the number of channels in the recording system. The authors conclude that the amount of RDR work in the Balkhan region should be increased in order to improve the study of structure of the red beds, because prospects for oil in western Turkmenia are related to structures in these rocks. Orig. art. has: 1 figure.

ASSOCIATION: Zapadnaya geofizicheskaya ekspeditsiya Upravleniya geologii i okhrany* nedr pri Sovete Ministrov Turkmenskoy SSR (Western Geophysical Expedition, Administration of Geology and Conservation of Natural Resources at the Soviet Ministry, Turkmen SSR)

Card 2/3

ACCESSION NR: AP4040293

SUBMITTED: 14 Jan 64

SUB CODE: ES

NO REF SOV: 002

ENCL: 00

OTHER: 000

Card

3/3

KHARIKOV, B.A.; DATSUK, Ye.M.

Seismic studies on the profile No. 62001 in western Turkmenistan using the correlation method of refracting waves and hodographic seismic sounding. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.6:23-27 '64. (MIRA 18:4)

1. Zapadnaya geofizicheskaya ekspeditsiya Upravleniya geologii i okhrany neдр pri Sovete Ministrov Turkmenskoy SSR.

KHARIMOV K.H.R.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

- 301. G. I. Poincaré (France): Investigation of the viscoplastic flow of materials (Laminar flow, etc.) by the differential method.
- 302. B. A. Biot (France): Experimental investigation of the visco-elasticity of soil layers under conditions of varying strain rates.
- 303. A. A. Buzdakov (Soviet Union): On the stability and vibrations of microscopically plates and shells.
- 304. I. I. Zhuravskiy (Soviet Union): On the theory of thin plates.
- 305. G. A. Gakhov (Soviet Union): On biharmonic problems concerning the stability of thin plates with reinforced edges.
- 306. E. I. Zhuravskiy (Soviet Union): Generalized theory of the stability of thin plates with reinforced edges.
- 307. E. I. Zhuravskiy (Soviet Union): Mainstream theory of stability and buckling of thin plates with reinforced edges.
- 308. E. I. Zhuravskiy (Soviet Union): The stability of thin plates with reinforced edges.
- 309. E. I. Zhuravskiy (Soviet Union): The stability of thin plates with reinforced edges.
- 310. E. I. Zhuravskiy (Soviet Union): The stability of thin plates with reinforced edges.
- 311. E. I. Zhuravskiy (Soviet Union): The stability of thin plates with reinforced edges.
- 312. E. I. Zhuravskiy (Soviet Union): The stability of thin plates with reinforced edges.
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- 327. E. I. Zhuravskiy (Soviet Union): The stability of thin plates with reinforced edges.
- 328. E. I. Zhuravskiy (Soviet Union): The stability of thin plates with reinforced edges.

KHARIN, A.

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USSR/Electronics - Transceivers

Feb 52

"The 'Urozhay' Using Battery Tubes," O. Anisimov
and A. Kharin, Astrakhan'

Radio, No 2, p 36

Authors changed "Urozhay"-type radio station to obtain more economical supply. Miniature 2-v tubes replaced regular tubes; a dry battery replaced the RU-11B converter which required 70% of the battery power and 2 BNS MVD-500 dry type cells replaced the 6ST128 battery. After these and other changes, the transmitter drew 30 ma from the B battery and the receiver drew 5 ma.

253T59

KHARIN, A., kand.tekhn.nauk (Stavropol'-na-Volge)

A valuable manual for hydraulic mechanics. Gidr. i mel. 16 no.1:63-64
Ja '64. (MIRA 17:2)

KHARIN, A.D., inzhener.

Method of repairing defects in bronze facings. Sudostroenie
22 no.8:27-28 Ag '56. (MLRA 9:10)

(Shafts and shafting)

Name: KHARIN, A. I.

Dissertation: On increasing the efficiency of suction dredges in cleaning
canals of debris

Degree: Cand Tech Sci

Defended at
Application: Min Agriculture USSR, Tashkent Inst of Engineers of Irri-
gation and Mechanization of Agriculture TIIIMSKh

Publication
Defense Date, Place: 1956, Tashkent

Source: Knizhnaya Letopis', No 45, 1956

KHARIN, A.I.

KHOLIN, N.D., professor.; NIKOLAYEV, I.I., kandidat tekhnicheskikh nauk.;
KHARIN, A.I., inzhener.

"Hydromechanization of earth works" by A. M. TSarevskii. Gidr. i mel.
no.11:60-61 N '56. (MIRA 10:4)
(Hydraulic engineering) (Earthwork)

KHARIN, A.I., inzh.

Cleaning settling tanks by means of dredging machinery. Elek.sta. 29
no.5:75-76 My '58. (MIRA 12:3)
(Feed water) (Tanks) (Dredging machinery)

KHARIN, A.I. (Tashkent)

Removal of sediments from tank type water intakes. Vod.i san.
tekh. no.1:31-34 Ja '60. (MIRA 13:4)
(Water-supply engineering)

KHARIN, A.I., kand.tekhn.nauk; YUDICHEV, V.V., inzh.

Studies of the use of vibration for underwater working of soil
with suction dredges. Sbor.trud.VNIINerud no.1:108-117 '62.

(MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh
stroitel'nykh materialov i gidromekhanizatsii.
(Dredging machinery) (Vibrators)

KHARIN, A.I., kand.tekhn.nauk; RAZDOL'NIY, V.A., inzh.; YUDICHEV, V.V., inzh.

Laboratory studies of the process of earth working with various types of earth-intake devices. Sbor. trud. VNIINerud no.2:3-19 '62.

(MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'nykh materialov i gidromekhanizatsii.

(Dredging machinery--Testing)

KHARIN, A.I., kand. tekhn. nauk; YUDICHEV, V.V., inzh.

Using vibration to work up the ground by suction dredges. Mekh.
stroi. 20 no.9:9-12 S '63. (MIRA 16:10)

(Dredging machinery)

VOLKOV, V.T.; DUDKO, A.A.; LEEDEEV, V.P.; LIPGART, B.K.; MIKHAYLOV, B.V.,
kand.tekhn.nauk; MIKHAYLOV, V.A., kand.tekhn.nauk; REKUNOV, V.F.;
SAVEL'YEV, N.P.; SOROKIN, V.V.; KHARIN, A.I. kand.téhn.nauk;
Prinimall uchastiye: IVANOV, N.A., kand.tekhn.nauk;
INOKOVA, O.L.; GOMOZOVA, N.A., red.; NAUMOVA, G.D., tekhn.red.

[Mechanization and automation in the rock products industry]
Mekhanizatsiia i avtomatizatsiia v promyshlennosti nerudnykh
stroitel'nykh materialov. [By] V.T.Volkov i dr. Moskva,
Gosstroizdat, 1963. 353 p.
(MIRA 17:3)

VOLKOV, Valentin Georgiyevich, inzh.; YELSHIN, Igor' Mikhaylovich,
kand. tekhn. nauk; KHARIN, Arnold Ivanovich, kand. tekhn.
nauk; KHRUSTALEV, Mikhail Ivanovich, kand. tekhn. nauk;
GUREVICH, E.A., red.

[Enriching and fractionating natural sand for concrete by
the hydraulic method] Obogashchenie i fraktsionirovanie
prirodnnykh peskov dlia betona gidravlicheskim sposobom.
Moskva, Stroizdat, 1964. 162 p. (MIRA 18:1)

ZUBKOV, Viktor Nikolayevich; KHARIN, A.I., redaktor; PIMCHENKO, S.I.,
tekhnicheskiy redaktor

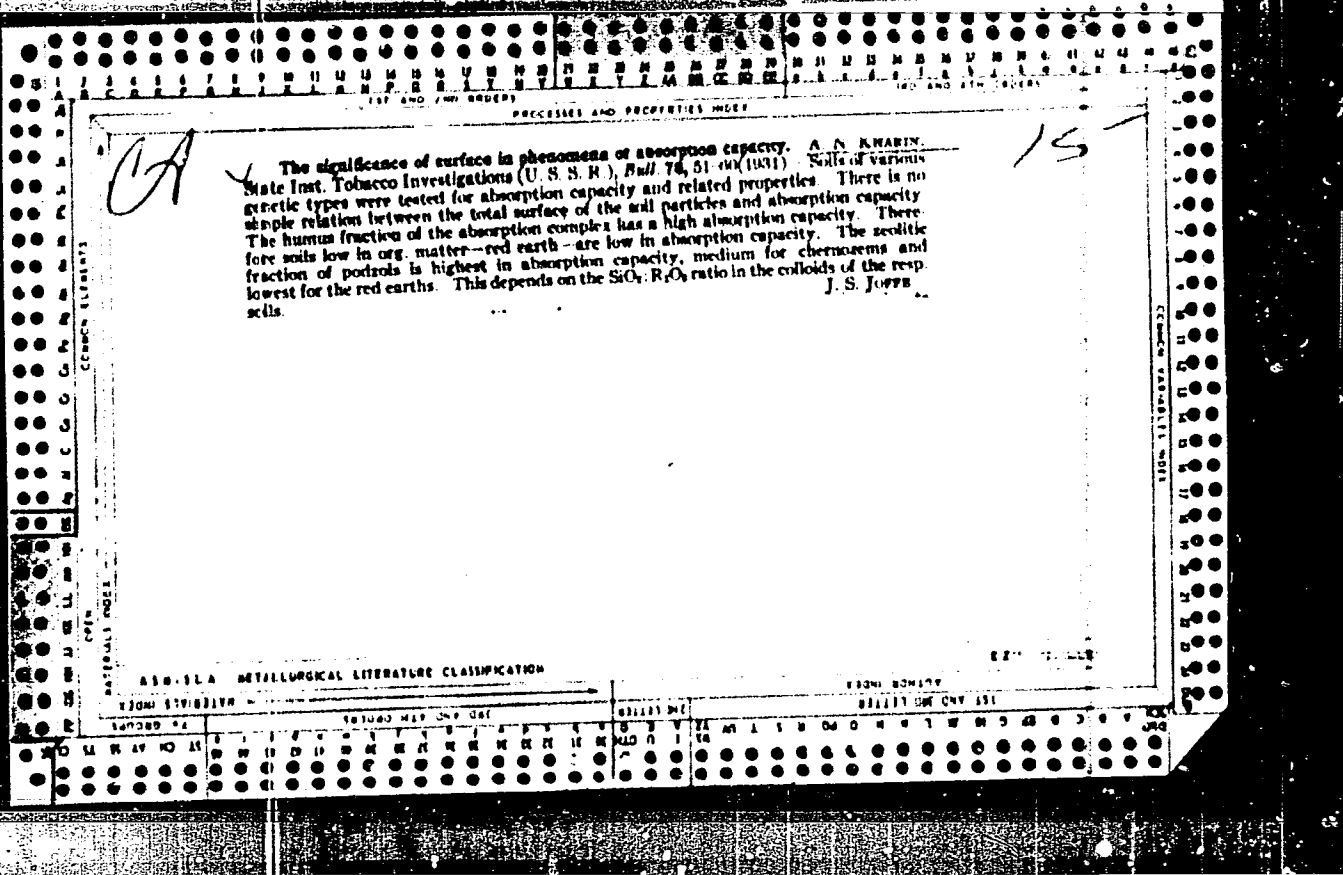
[The struggle to raise labor productivity in the petroleum industry]
Bor'ba za povyshenie proizvoditel'nosti truda na neftepromysle.
[Groznyi] Groznenskoe km-vo, 1955. 48 p. [Microfilm] (MLRA 10:2)
(Labor productivity) (Petroleum industry)

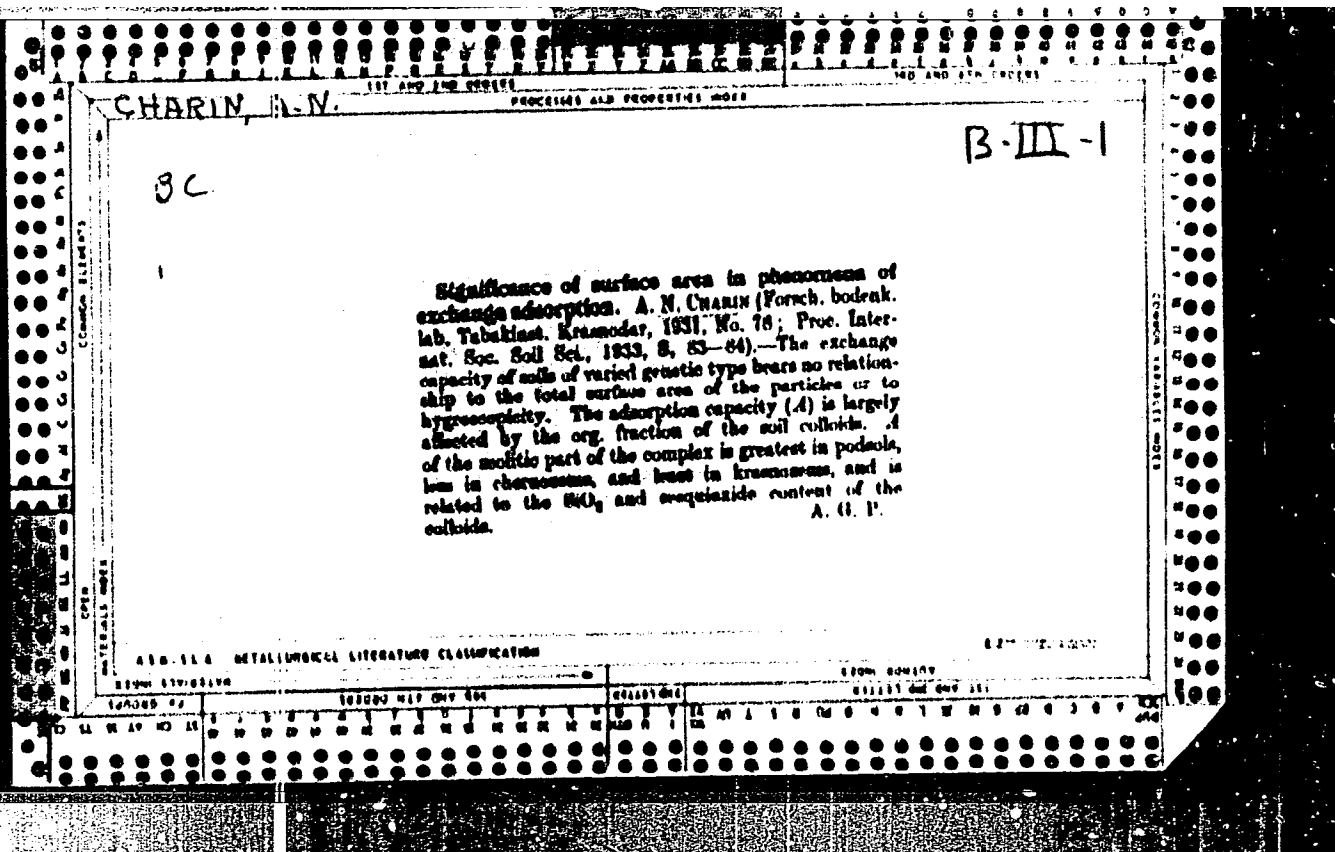
RUBO, Leonid Grigor'yevich; KHARIN, A.M., red.; VORONIN, K.P., tekhn. red.;
LARIONOV, Ye.G., tekhn. red.

[Conversion and repair of asynchronous motors with a power rating
up to 100 kw.] Pereschet i remont asinkhronnykh dvigatelei moshch-
nost'iu do 100 kv. Moskva, Gos. energ. izd-vo, 1961. 391 p.

(MIRA 14:10)

(Electric motors, Induction)





PROCESSES AND PROPERTIES INDEX

CA

15

An investigation of the process of exchange adsorption and coagulation of soil colloids by the conductivity and potentiometric titration method. A. N. Kharin and P. N. Ivanov. *Pedology* (U. S. S. R.) 28, 140-49 (1933).—Suspensions of humus were prepd. by extg. a chernozem with alkali and pptg. with HCl; the ppt. was dried and then sol'd. either with Na or Li, dissolved with alkali, dialyzed and a definite quantity suspended in a l. of H₂O. For the mineral suspension the soil was treated with H₂O₂ to destroy the org. matter, then sol'd. with Na and Li and treated as the humus, except that the bicarbonates of Na or Li were used as the solvent. The suspensions were then titrated with HCl or BaCl₂ and the specific conductance was measured after each addn. of the reagent. The data are given in tabular and graphical form. The conductance of the humus and mineral suspensions by titrating with HCl decreased at first and then increased. The decrease is explained on the basis that the H ions have a higher mobility than either Na or Li. When all the Na and Li have been replaced by bicarbonate the conductance rises rapidly in a straight line. For the suspensions without bicarbonate the rise in conductance coincides with the calcd. values. The slow increase in rate the rise in conductance does not correspond with the calcd. values (the Kohlrausch formula was used). This is explained by the existence of dissoci. Na ions from the humus complex in the humus suspension, but not in the mineral suspensions. The quantity of adsorbed H ions calcd. from the conductometric titration corresponds with the data of potentiometric titration. The coagulation of the humates and suspensions which do not contain bicarbonates takes place after the complete adsorption of the Ba or H. For the mineral suspensions the H ions are more powerful coagulants than the Ba, but the reverse is true for the humus.

I. S. Joffe

ASB-31-A METALLURGICAL LITERATURE CLASSIFICATION

8304 516 81114

831137 046 044 151

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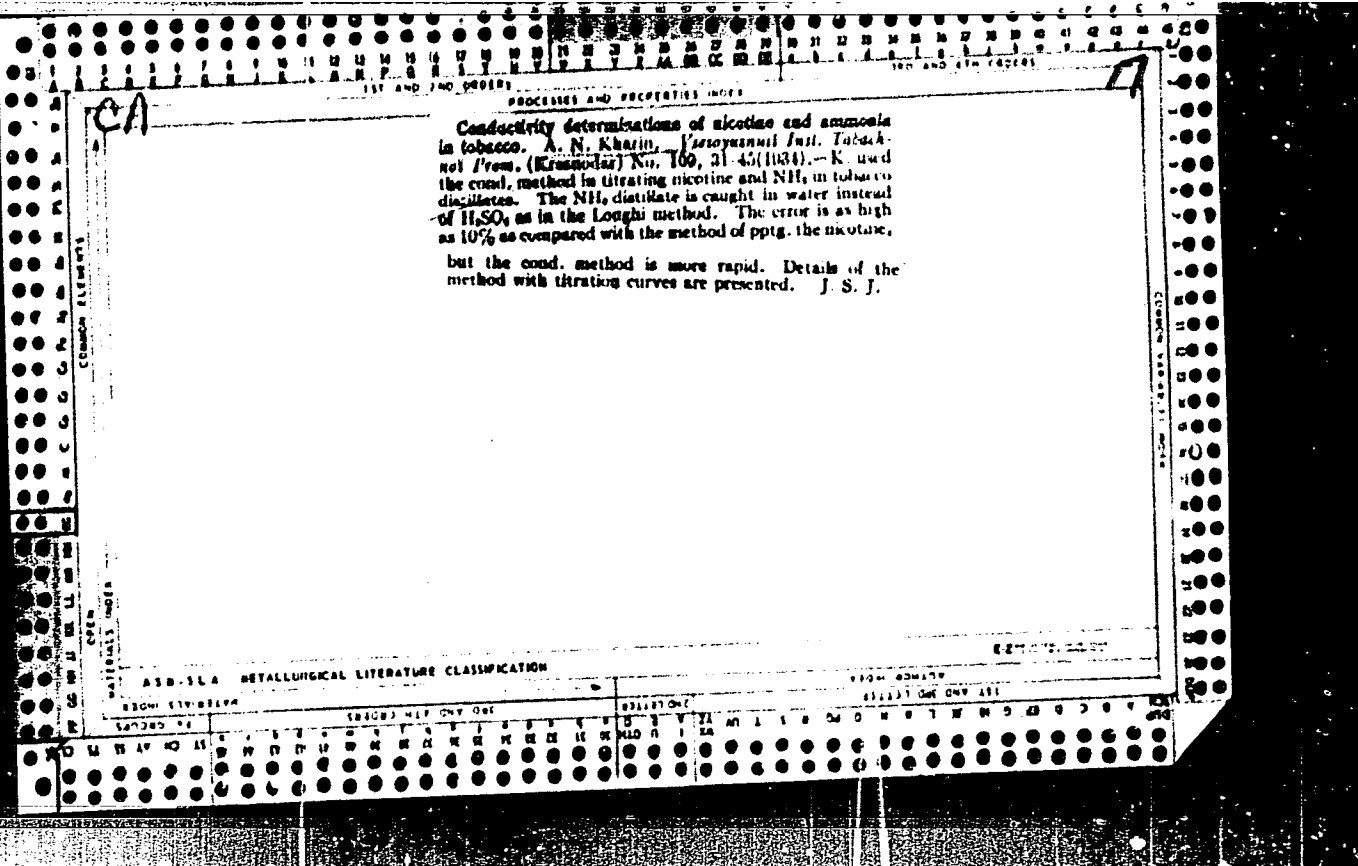
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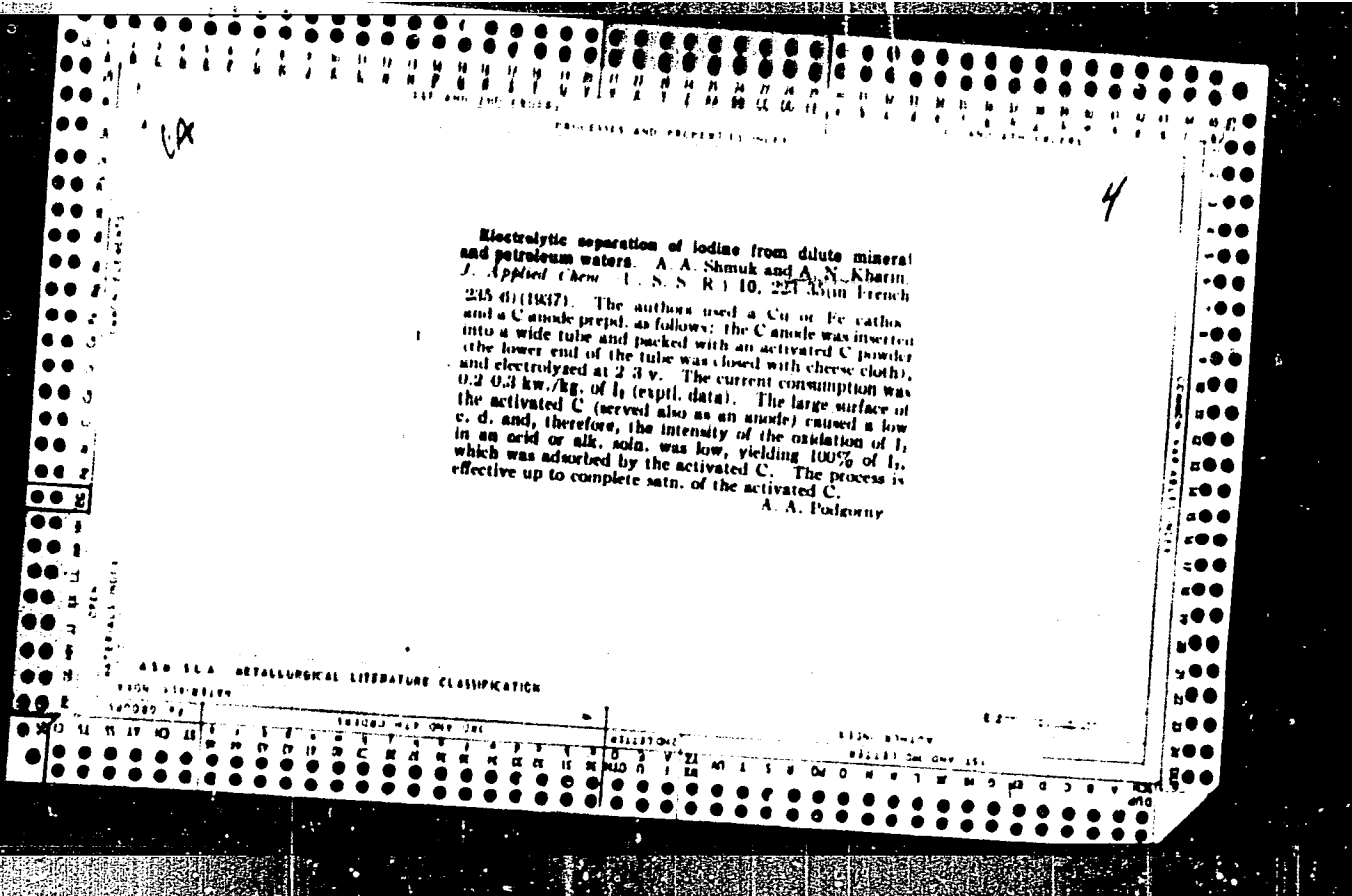
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14

ca

Change of the composition and the properties of the Vyatka glauconites after their utilization under industrial conditions. A. N. Kharin, I. T. Dey and P. N. Prokashov. *J. Applied Chem.* (U. S. S. R.) 10, 1223-7 (in French 1227)(1937).—The Vyatka glauconites, utilized for the permutite filters of elec. power stations, can be used for water softening in the boilers. They yield water of a hardness below 0.15°. A. A. Podgorny

ASAC 54A METALLOGICAL LITERATURE CLASSIFICATION

137 AND 138 CODES 140 AND 139 CODES

PROCESSES AND PROPERTIES INDEX

Ca

Preparation of H-permutite from glauconite sands.
 A. N. Kharin, P. N. Protasov and I. T. Deev. *J. Applied Chem.* (U. S. S. R.) 10, 1871-8 (in French 1878) (1937).--H-permutite can be prepd. from Vyatka glauconites by means of preliminary ignition at various temps. and removal of Ca. The absorption ability of glauconite decreases with a decrease of p_H of initial water. Seventeen references. A. A. Polgorny

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COMMON ELEMENTS

COMMON VALUABLE METALS

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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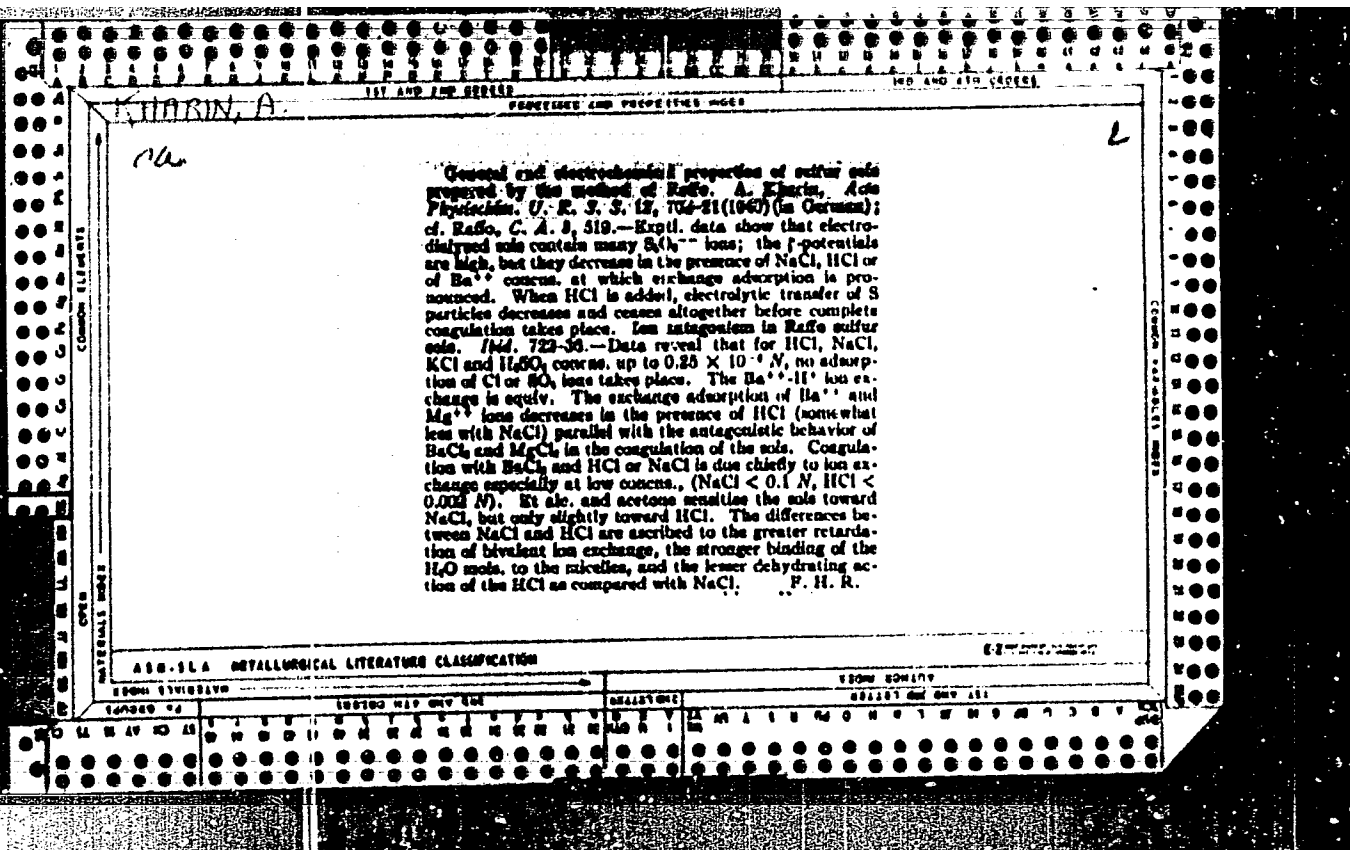
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SECTION 95 SECTION 96

SECTION 97 SECTION 98

SECTION 99 SECTION 100



KHARIN, A.N.
 BC

PROCESSES AND PROPERTIES INDEX
 Equivalence of ion exchange in sulphur soils. A. N. Charin, M. H. Jaster, and N. J. Agarkova (*Acta Physicochim. U.R.S.S.*, 1940, 1A, 718-722; cf. A., 1941, I, 111).—Experiments on S soils prepared by Ruffo's method and aged by exposure to sunlight shows exact equivalence between Mg^{++} absorbed and H^+ displaced. Similar experiments with Ba^{++} are complicated by the formation of $BaSO_4$ from SO_4^{--} present in the inter-molecular liquid; but when this is allowed for the Ba^{++} absorbed are equiv. to the H^+ displaced. The results are therefore in agreement with those obtained with freshly prepared and purified soils. F. L. U.

A-1

METALLURGICAL LITERATURE CLASSIFICATION

CHARIN, A [N]

BC

A-1

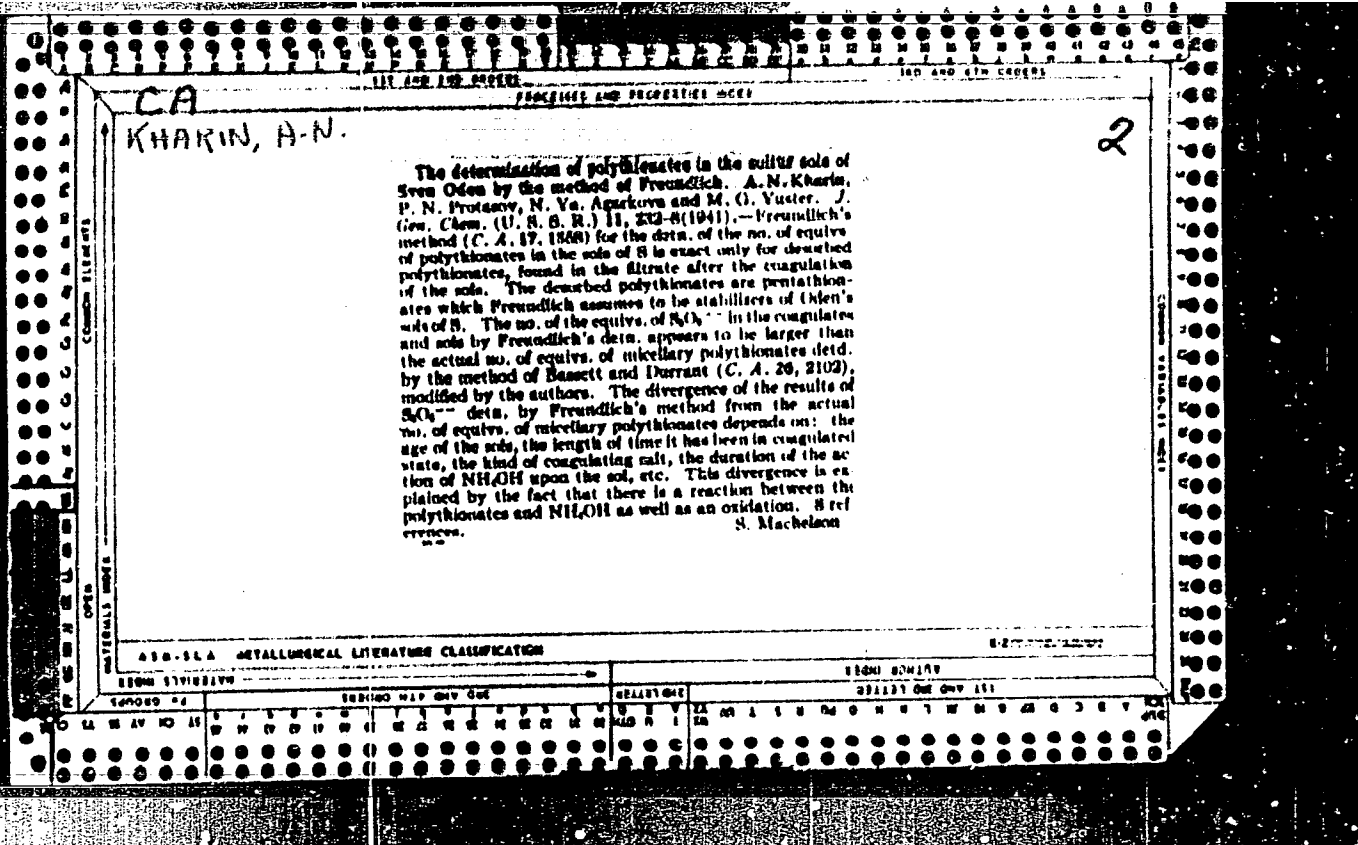
Ion antagonism in Raft's sulphur sols. A. Charin (*Acta Physicochim. U.R.S.S.*, 1940, 18, 722-724).—It has been shown by direct analysis that adsorption of Cl^- and SO_4^{2-} ions by these sols (cf. preceding abstract) does not occur. HCl diminishes the adsorption of Ca^{2+} ions, and still more that of Mg^{2+} ions, and this is parallel to the antagonistic effect of HCl on the coagulation of the sols by $MgCl_2$ and $BaCl_2$. Cation exchange plays an important part in the coagulation by $BaCl_2$ in the presence of small concn. of HCl or NaCl, but increase of [NaCl], or to a smaller extent of [HCl], diminishes the importance of this. Addition of EtOH or C₂H₅OMe, renders the sols sensitive to NaCl, but not to HCl. The greater antagonistic effect of HCl as compared with NaCl is ascribed to its greater hindering effect on the adsorption of bivalent ions, to a stronger binding of H_2O moles in the micelle in presence of H^+ , and to a weaker dehydrating influence of HCl. F. J. G.

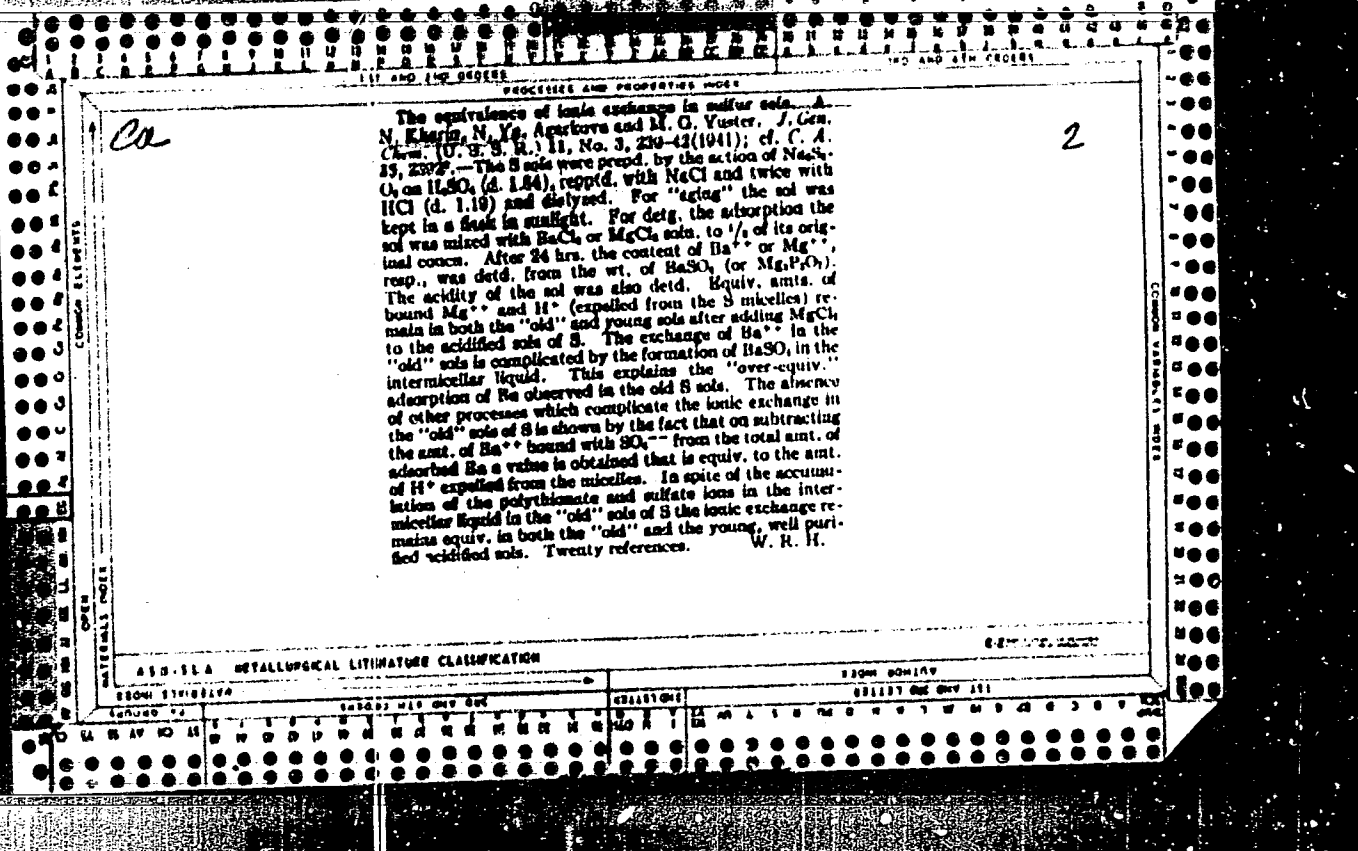
430 514 METALLURGICAL LITERATURE CLASSIFICATION

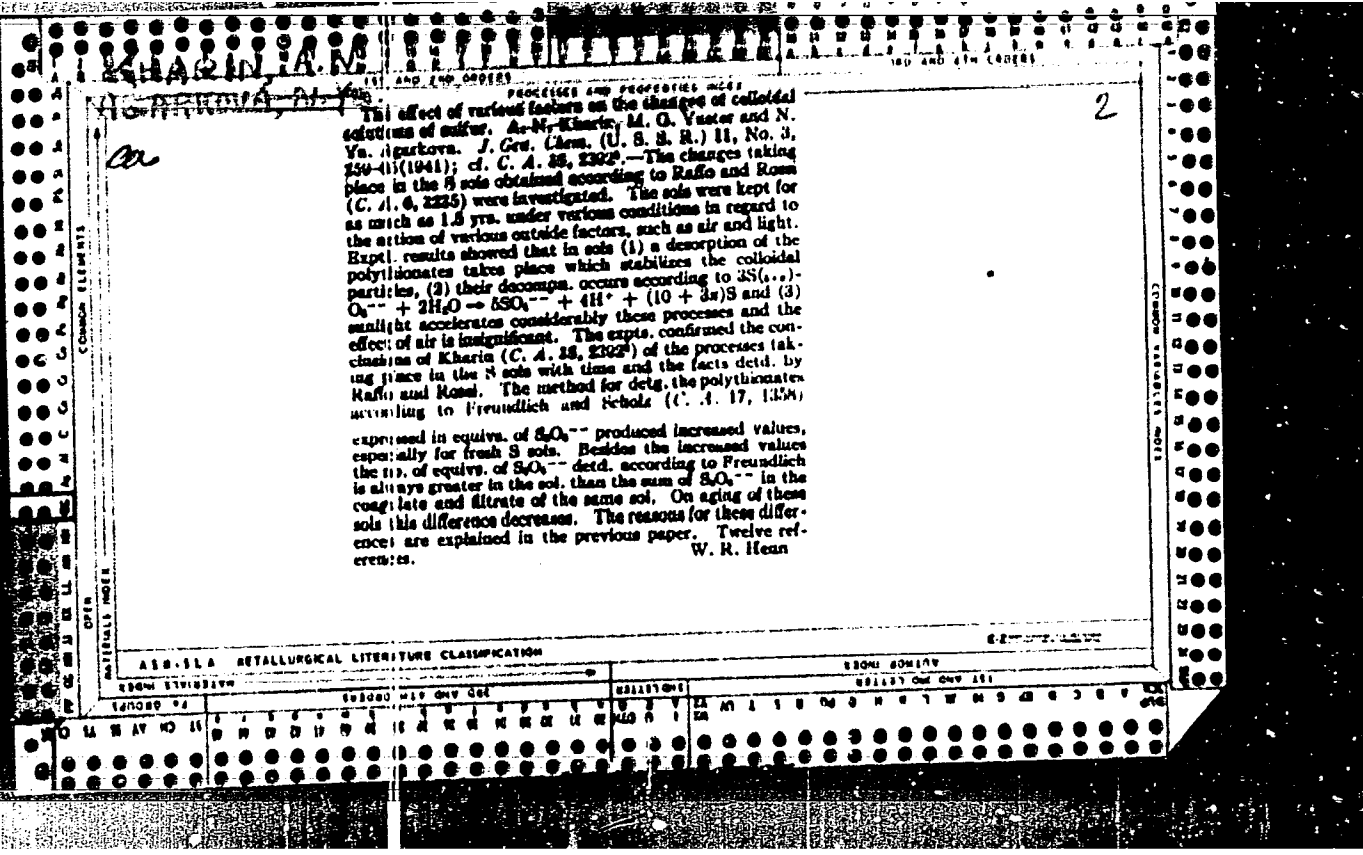
CHARIN, A. N.

"Concerning the Equivalence on Ion Exchange in Sulfur Salts," Acta Phys., 13,
No.5, 1940

Pedagogic Inst., Krasnodar







Interaction between hydrogen sulfide and arsenious anhydride in aqueous solutions, and the stabilizing acids in arsenic trisulfide sols. A. N. Chavira, *Kolloid. Zhur. S.*, 4(2-72)(1947).--By potentiometric and conductometric

titration, mixing of pure sols. of As_2O_3 and H_2S results in a fall of the pH and a rise of the elec. cond., independently of the order of the mixing. Consequently, the main reaction $As_2O_3 + 3H_2S \rightarrow As_2S_3 + 3H_2O$, is accompanied by side reactions forming strong acids. Titration of the ultrafiltrate shows that these acids are not present in the intermicellar liquid; their adsorption on the micelles has a

stabilizing effect on the sol. The compn. of the colloid is, in all cases, very closely As_2S_3 , and does not depend on the order of mixing or on excess of either H_2S or As_2O_3 . On aging in the presence of O_2 , both elec. cond. and acidity increase, particularly in sols with excess H_2S . In a H_2 atm., with O_2 excluded, the acidity undergoes no change with time, and no As_2O_3 is formed, even in sunlight. However, the elec. cond. of sols with excess H_2S does increase with time, even though much more slowly than in the presence of O_2 ; in sols with excess As_2O_3 neither the acidity nor the elec. cond. changes with time in the absence of O_2 . The increase of the elec. cond. of sols with excess H_2S , in the absence of O_2 , is distinct from the aging process taking place as a result of oxidation, and can only be due to a change of the activity of strong acids, without change of their amt. In the absence of air, only the slopes and the ordinates of the conductometric titration curves increase with time, the position of the min. remaining unchanged; as soon as air is admitted, the minimum is shifted, and the elec. cond. rises sharply. The acids formed along with the formation of the colloid, and playing the role of stabilizers, are of the type $S:AsSH$ and $O:AsSH$, in the presence of excess H_2S or excess As_2O_3 , resp., in amts. of the order of 0.03-0.04 milliequiv. per millimole As_2S_3 , and, being practically all adsorbed on the micelles, are not detectable in the intermicellar liquids. These compds. are stable only in the adsorbed state.

N. Thon

430-514 METALLURGICAL LITERATURE CLASSIFICATION

3306 BOWMAN

Ion exchange in fresh and aged hydrosols of arsenic trioxide. A. N. Kharin. *Kolloid. Zhur.* 10, 180-87 (1948).--(1) In hydrosol contg 7 g A. As₂O₃ with an excess of either H₂S or As₂O₃, aged in contact with air in full sunlight, the colloidal As₂O₃ disappeared completely after 110 days; the elec. count and the acidity increased. The increase of the acidity corresponds to the amt. of HNO₃ formed, as detd. analytically. The only other acid formed is As₂O₃, whereas As₂O₃ and polythionic acids are absent. In the dark, but still in contact with air, the process takes place much more slowly, but in the same direction. (2) Ion exchange between the sol and added BaCl₂ or MgCl₂ was stud. by parallel acidimetric titrations of the filtrates (minus the acidity of the ultrafiltrate) and the detns. of residual Ba or Mg in both the filtrates obtained after addn. of BaCl₂ or MgCl₂, and in the filtrates obtained after preliminary coagulation of the As₂O₃ with NaCl, the latter detn. giving the amt. of cation bound by the intermicellar liquid, as distinct from that bound by the whole of the sol; the difference gives the amt. of cation adsorbed by the micelles by way of exchange of the micellar H⁺ ions. In young sols, the amts. of Ba or Mg adsorbed coincide with the amt. of acid formed, indicating absence of binding by the intermicellar liquid and absence of mol. adsorption of the chlorides on the micelles; the process, in this case, is pure ion exchange. In aged sols significant amts. of Ba ion are bound in the intermicellar liquid; if that amt. is deducted from the total amt. of Ba ion bound by the sol, the difference coincides satisfactorily with the acidification produced by the

addn. Thus, in aged sols one has, concurrently, pptn. of BaSO₄ by the H₂SO₄ formed in the intermicellar liquid in the process of aging, and exchange of micellar H⁺ ions for Ba ions. In the case of Mg ion, there is only straight micellar ion exchange. N. Thun

PA 21/49712

USSR/Chemistry - Absorption, of Acetic Acid, Oct 48
by Carbon (Contd)

sorption on carbon and establishes their dependence on speed of flow of solution and diameter of carbon grains. Calculation based on this data of asymptotic course of relationship between time of protective action and length of carbon layer gives, for long periods, results in good agreement with experiment. Submitted 27 Dec 47.

LC

21/49712

USSR/Chemistry - Absorption, of Acetic Acid Oct 48
by Carbon
Chemistry - Acetic Acid, Adsorption of

"Absorption of Substances by Granulated Carbon From a Flow of Solution: I, The Analysis of Dynamics of Acetic Acid Sorption by Coarse Porous Carbon," A. N. Kharin, P. N. Protasov, Krasnodar Pedagogical and Teachers' Inst, 20 1/2 pp

*Zhur Fiz Khimii, No 10

Studies dynamics of sorption of CH₃COOH from aqueous solutions of coarse carbon. Using theory of sorption dynamics developed by Zhukhovitskiy, Zabezhinskiy and Ribakov, calculates kinetic coefficients of acid

21/49712

Uptake of substances by granulated carbon from a stream of solution. I. The dynamics of the sorption of acetic acid by carbon with coarse pores. A. N. Kharin and P. N. Protasov. *Zhur. Fiz. Khim.* (J. Phys. Chem.) 22, 1219-20(1948).—AcOH solns., 0.005-0.06 N, were filtered through 20-120 cm. long columns of birch charcoal, of which the ash content was 0.30% and the pore vol. 41%, at a speed of 0.5 to 2 cm./min. The time of "break through" θ did not satisfy Shilov's equation $\theta = KL - r$, in which L is the length of the column, r is the latent time, and K is a const., because the amt. of AcOH between the adsorbent grains cannot be neglected. The increase of the concn. of the filtrate after the break through can be accounted for by the theory of Tikhonov *et al.*, *C.A.* 41, 6791c.

BRACH, A. N. Y VOYTA, L. P.

36971

Issledovanie Dinamiki Sorbtsii Koriandrovoego Efirnogo Masla Iz Bodnykh
Rastvorov Krupnoperistym Uglem (Soobshch. 2). Zhurnal Prikl. Khimii, 1949,
No. 6, S. 835-45. - Bibliogr: 11 Nazv.

SO: LETOPIS NO. 34

CA

2

The dynamics of sorption of coriander essential oil from aqueous solutions by coarse-porous charcoal. A. N. Kharin and L. M. Voliko. *Zhur. Priklad. Khim.* 22, 835-48 (1949); cf. C.A. 43, 1228c. —Coriander oil used was to 75% sol. in H_2O (as *d*-limonene?). Surface tension of these aq. exts. was at 20° 70.8, 64.0, and 42.0 for concns. C equal to 0.017, 0.287, and 1.07 g./l. The exts. were filtered through birch charcoal of 0.1-0.3-cm. grains and 80% porosity until satn. Between 0.17 and 0.85 g./l., the amt. (g.) adsorbed by 1 g. carbon was $0.26 C/(0.13 + C)$. The time of "break-through" θ was KL/v , when the length L of the C column varied between 10 and 100 cm. The const. K was 24-100 min./cm. and the const. v was 700-1900 min.; there was no definite effect of either C or the rate of flow (1-2 cm./sec.). The rate of adsorption in its first stages agrees with the theory by Tikhonov, *et al.* (C.A. 41, 6791c) i.e., is detd. by the rate of diffusion; but the theory is not valid for the last stages.

J. J. Bikerman

1951

USSR .

Uptake of substances by zooplankton

solutions III Study of the sorption dynamics of essential oils over a large range of flow velocities of the solutions. By: V. Kharin and I. A. Vol'ko (Professors and Teachers, Kazan Univ., Kazan, U.S.S.R.). *Zhur. Priklad. Khim.* 22, 1131-1207 (1949); *C. C. A.* 45, 3221f. The dynamics were studied for the sorption of the essential oils, carvone, camphor, and menthol in water solutions over a range of flow velocities. The results are given in the form of graphs and tables.

Investigation of the dynamics of sorption of essential oil of coriander from aqueous solutions on different kinds of carbon. L. M. Voliko and A. N. Khatun (Krasnodarskogo Pedagogical and Teachers' Inst. *Zh. Priklad. Khim.* 22, 1247-48, 1949); cf. *C. I.* 45, 3221f. *Dissertations from the sorption theory of Zhokhovitskii, et al.* (*C. I.* 40, 310f). The static sorption of oil of coriander on 2 types of carbon was studied. Rates of feeding of the aq. solns. of coriander oil and the diam. of the carbon grains were the variables studied. In addn., expts. were made on carbon of mixed particle size under conditions approximating those found in industrial operations. The region of applicability of the *Zh., et al.* theory occurs at a rate of feeding of soln. of a 2-3 cm. min. for small particle diam. (0.1 cm.). It was concluded that the kinetic coeffs. of sorption of coriander oil on different kinds of carbon (birchwood, anthracite, and charcoal) obey the same relation to the sp. rate of feeding of soln. and to diam. of carbon particle, viz., $\beta = 0.0252 (v^2/d)$. Deviations from the theory increase with increasing diam. of carbon particle and increasing rate of feeding of soln. The extent of deviation, therefore, differs for different kinds of carbon. A column of data and some sorption curves accompany the report.

Galina S. Mary

CA

The uptake of substances by granulated carbon from a stream of solution. Sorption dynamics of butyric acid from aqueous solutions. P. N. Protasiv, A. N. Kharin, L. M. Voltko, T. G. Bogolyubova, and L. G. Svinatsova (Pedagog. and Teachers Inst., Krasnodar). *Zhur. Fiz. Khim.* 24, 182-91 (1950); cf. *C.A.* 43, 1238c. — Butyric acid solns. (0.01-0.03 N) were filtered through columns, 7 cm. long, of birch charcoal whose particle diam. d was 0.15-0.325 cm. The time θ of break-through was $\theta = (k/a) \cdot a$; a cm. sec. is the rate of filtration. The constants

θ_0 and α are given. The kinetic coeff. $\beta = -0.037 a^{0.11}/d^{0.6}$; the factor in it (0.037) seems to be inversely proportional to \sqrt{M} ; M = mol. wt. At $\alpha = 1$, the increase of concn. of the filtrate in time agreed with the theory of Zuber-Sinskii, *et al.* (*C.A.* 43, 3255b), but at $\alpha = 5$ the exptl. is smaller than the theoretical θ because internal diffusion becomes slower than the external. J. J. R.

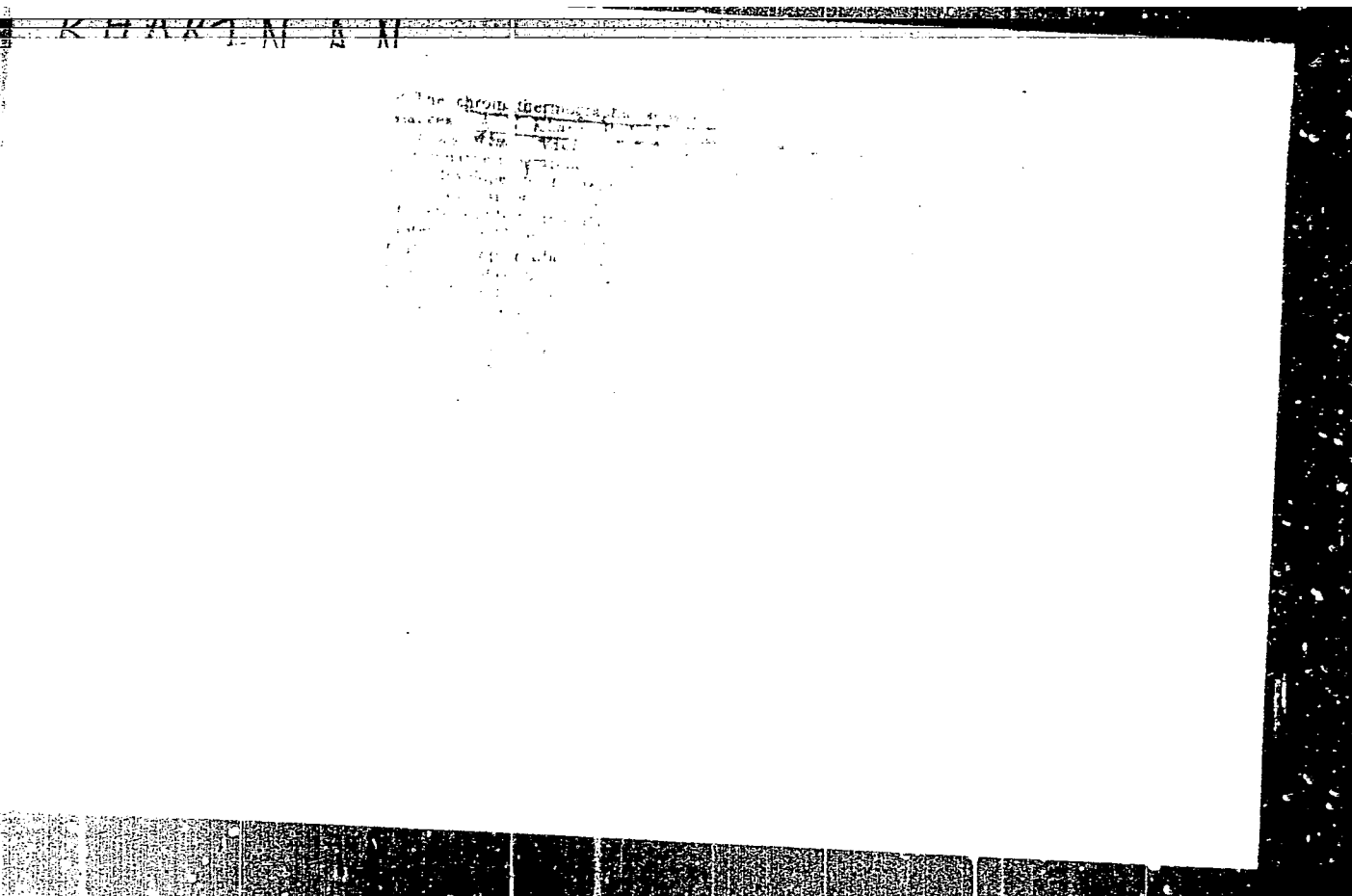
Mechanism of the changing conditions of layers of carbon under different conditions of dynamic sorption of some essential oils from aqueous solutions. L. M. Vofko and A. N. Kharin. *Zhur. Priklad. Khim.* 24, 500-19(1951); *J. Applied Chem. U.S.S.R.* 24, 557-67(1951)(English trans.); cf. *C.A.* 43, 3221f.—The range was detd. of α and d , for the sorption of essential oils from aq. solns., where α is the rate of flow of soln. and d is the av. diam. of the carbon particles. Results are tabulated. Gladys S. Macy

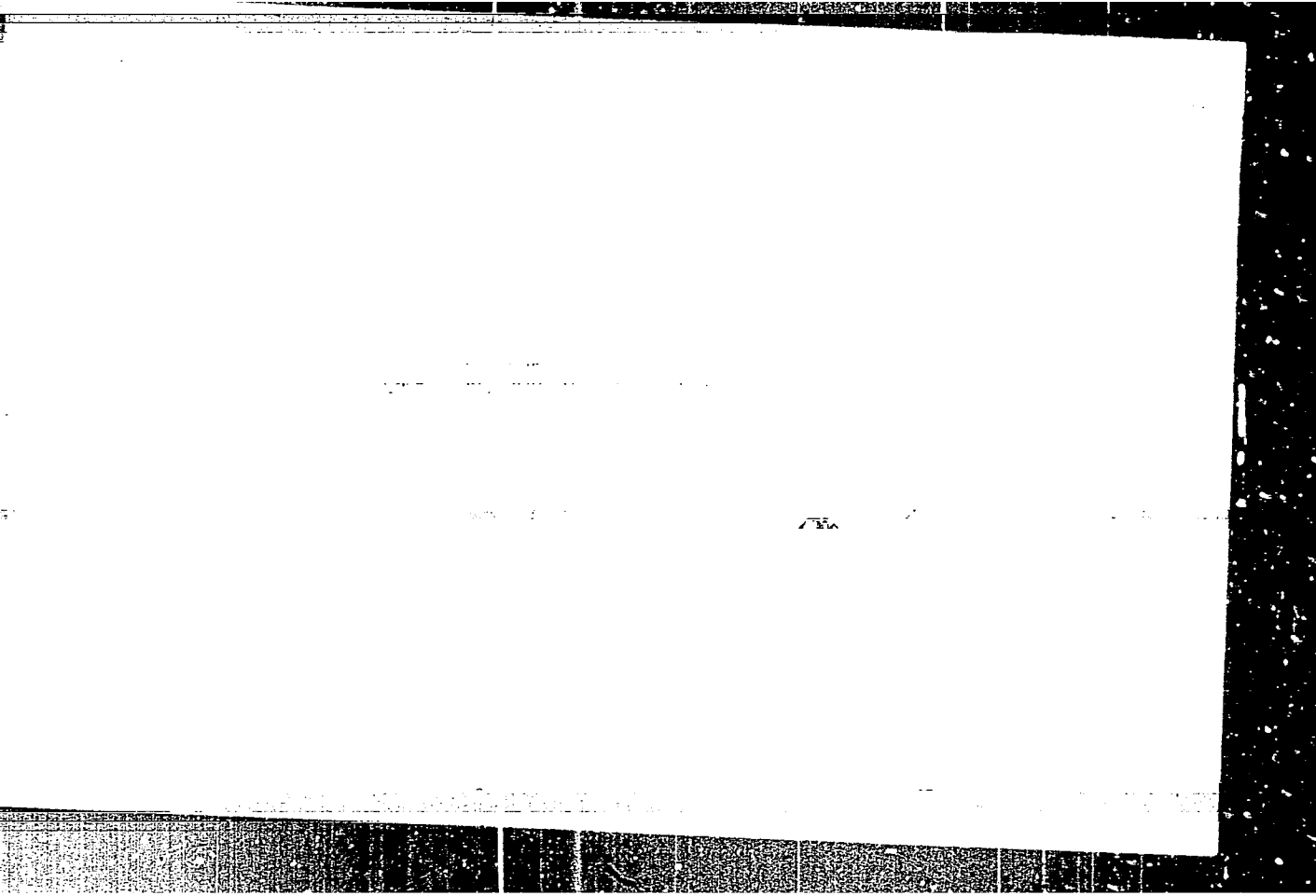
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KHARIN, A. N.

②

Dynamics of the sorption of essential oil of roses from aqueous solutions on to grains of activated carbon. A. N. Kharin and L. M. Vostko, *J. Appl. Chem. U.S.S.R.* 25, 307-308 (1952) (Engl. translation); *Zhur. Priklad. Khim.* 25, 302-72 (1952).—The dynamic sorption of essential oil of roses on granular C was studied by taking into account the previous expt. of the authors (*C.A.* 46, 5920d, 8400d). The essential oil of roses from Simferopol, contg. phenylethyl alc. (I) 55, citronellol (II) 30, geraniol 2, stearoptenes 5, acids 1, and phenols 0.5, was used. From this oil a 3.03% water soln. was prepd. for the slots. For control, several separate sorption tests were made with I and II. Dynamic expts. with these solns. were carried out as mentioned in previous articles. There is some differentiation of the main components of the oil; II is more strongly adsorbed in the initial portion of the C layer, whereas I is held back to the final portion. This sepn. is incomplete. The time of operation of a C layer can be calcd. approx. from the sorption isotherms for rose oil at a given temp. With longer time of operation of the adsorber and sufficient length of C layer, the distribution of separate substances should be appreciably differentiated. Several tables of data and soln. curves and surface tension isotherms are given. A₁ Hulusg.





KHARIN A. N.

USSR/ Ministry of Physical Chemistry

Card No: 1587-1587

Authors : Kharin, A. N., and Lotmentseva, Ye. M.

Title : Dynamics of adsorption of substance mixtures from aqueous solutions over carbon studied by means of the α -methylbutyric acid method

Periodical : Zhur. fiz. khim. 29/10, 1883-1896, Oct 1955

Abstract : The dynamics of adsorption of acetic and butyric acid mixtures from aqueous solutions over granular carbon was investigated. Employing a newly developed marked atom method it became possible to determine the content of acetic acid adsorbed by the carbon and in the mixture with butyric acid in solution. Certain laws governing the dynamics of acetic and butyric acid mixtures from aqueous solutions over granular birch carbon are described. Thirteen USSR references (1929-1954). Tables; graphs.

Institution : Taganrog Radiotechnical Inst. and the Krasnodar Pedagogical Inst.

Submitted : March 28, 1955

[Faint, illegible text, possibly a header or title]

USSR / General Biology. General Hydrobiology.

B-4

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 61975

Authors : Yemel'yanov, M. I.; Kharin, A. N.

Inst : Smolensk State Institute of Pedagogics.

Title : Investigating the Reservoirs of the Floodlands of the Kuban' River. I. Soil Deposits of Old Kuban'.

Orig Pub : Uch. zap. Smolenskogo gos. ped. in-ta, 1956, vyp. 3, 241-263

Abstract : In the years of 1931-1932, soil deposits of Old Kuban' in the floodlands of the Kuban' River were investigated. In the central part of the reservoir the basic soil mass is represented by small mineral particles. There, silts present (according to structure percentage of various fractions) silt-containing sandy clay. Organic remnants of the soil (10-12 percent) consist of detritus and dead animal plankton. Soils of near-shore zones are characterized by their containing large amounts of sand fractions. They are

Card 1/2

USSR/Physical Chemistry - Surface Phenomena. Adsorption.
Chromatography. Ion Exchange.

B-13

Abs Jour : Referat Zhur - Khimiya, No 6, 25 March 1957, 18761

Author : Kharin, A.N. and Svintsova, L.G.

Inst : Zh. fiz. khimii, 1946, 1113

Title : Dynamics and Kinetics of Adsorption of Iodine Upon Coals from Aqueous and Alcoholic Solutions.

Orig Pub : Zh. fiz. khimii, 1956, 30, 1776-1791

Abstract : Static and kinetic coefficients of adsorption (A) of I₂ on 4 samples of activated coal from solutions in H₂O, in aqueous solutions of KI and in C₂H₅OH at 17°-25° were measured. The influence of the speed of movement of the solution upon (A) and the change of distribution of I₂ on coal with time were studied. It was shown that the speed of (A) depends on the speed both of external and internal transfer. An agreement was obtained with the theory of A.N. Tikhonov, A.A. Zhukhovitskiy and Ya.L. Zabezhinskiy

Card 1/2

76-1-21/52

Investigation of the Longitudinal Displacement in the Flow of Solutions Through
a Non-Sorbing Charge

tain velocity exists, in the case of which no noticeable longitudinal displacement is to be observed. The coefficients of the longitudinal displacement in the case of acetic acid and oleic acid are equal. The general relation between the coefficients of the longitudinal displacement D^* in cm^2/sec , the grain diameter d in cm and the velocity α' in cm/sec is expressed by a formula, which, however, does not apply in the case of very small velocities (because it does not transform into the molecular diffusion coefficient): $D^* = (0,079 + 1,4 d) \alpha' + 0,005d - 0,0029$. It is shown that the D^* -values found according to this equation coincide with those obtained by the experiments, and that the above-mentioned equation expresses well the relation between the coefficient of the longitudinal displacement and the linear velocity when acetic and oleic acid is supplied to the glass-charge with grains of different diameter. There are 4 figures, 3 tables, and 6 references, all of which are Slavic.

Card 2/3

Investigation of the Longitudinal Displacement in the Flow of Solutions Through
a Non-Sorbing Charge 75-1-21/32

ASSOCIATION: Pedagogical Institute, Krasnodar. Radiotechnical Institute, Taganrog
(Krasnodarskiy pedagogicheskiy institut. Taganrogskiy radiotekhnicheskii institut)

SUBMITTED: October 26, 1956

AVAILABLE: Library of Congress

Card 3/3

AUTHORS: Kharin, A. N. , Ampilogov, I. Ye.

76-32-2-16/38

TITLE: A Comparative Evaluation of the Part Played by Kinetic Factors in the Dynamics of Adsorption of Acetic- and Butyric Acid From Their Aqueous Solutions on a Charcoal Bed (Sravnitel'naya otsenka roli kineticheskikh faktorov v dinamike adsorbtsii uksusnoy i maslyanoy kislot iz vodnykh rastvorov na ugol'noy shikhte)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 2, pp. 341-348 (USSR)

ABSTRACT: An evaluation of the relative part of internal, external and longitudinal transport in the dynamic adsorption of acetic- and butyric acid from aqueous solutions on two charcoal sorts of different granulation at various flow velocities was carried out. According to O. M. Todes and Ya. M. Bikson β denotes the effective kinetic coefficient which depends on the kinetic coefficient of the external transport β' and that of internal transport β'' , and in dynamic adsorption addi-

Card 1/4

A Comparative Evaluation of the Part Played by Kinetic Factors in the Dynamics of Adsorption of Acetic- and Butyric Acid From Their Aqueous Solutions on a Charcoal Bed

76-32-2-16/38

tionally depends on the ratio D^*/α'^2 . α' denotes the specific velocity of flow computed for the free layer cross-section. D^* denotes the so-called effective coefficient for longitudinal transport, which depends on the heterogeneity of the layer packing, the convection mixture and the velocity of molecular diffusion along the layer. It is shown that between the averaged kinetic coefficients obtained by means of dynamic experiments and those obtained by kinetic experiments did show no essential differences. Therefore β values from both experiments were used here. From the fact that the averaged effective coefficients β of butyric acid, obtained by kinetic and dynamic experiments, at the same velocities of flow, the same concentrations of the solutions transported on the same types of charcoal of the same granulation, were very close or equal to each other, it is concluded that the part played by longitudinal transport, as a kinetic factor in the adsorption of the charcoal layer from the flow is not great. This is confirmed by a comparison of the parts played by all three kinetic factors. The relative part played by the external and internal transport is essentially greater

Card 2/4

76-32-2-16/32

A Comparative Evaluation of the Part Played by Kinetic Factors in the Dynamics of Adsorption of Acetic- and Butyric Acid From Their Aqueous Solutions on a Charcoal Bed

than that of longitudinal transport. It is shown that in the adsorption of butyric acid from solutions of constant concentrations (10 mMol/liter) the external transport plays the main part in all sorts of charcoal and in all ranges of α' - and d values investigated ($1/\beta' \gg 1/\beta''$). Only at a velocity of $\alpha = 8$ cm/min ($\alpha' = 0,290$ cm/sec) with the solid charcoal Nr 9 the part of internal transport ($1/\beta' : 1/\beta'' = 56,4 : 42,4$) becomes measurable. In the case of the adsorption of acetic acid on a birch-charcoal from solutions of small concentrations (7 mMol/liter) the external transport plays a main part as well. Already at $\alpha = 3$ cm/min and grains of a $d = 0,325$ cm, and with $\alpha = 8$ cm/min and grains of a $d = 0,25$ cm, however, the amount of internal transport becomes measurable with that of external transport. With a further increase of the velocity of flow (or an increase of the grain-diameter of the charcoal) the part played by internal transport becomes dominating. With great concentration of

Card 3/4

A Comparative Evaluation of the Part Played by Kinetic Factors in the Dynamics of Adsorption of Acetic- and Butyric Acid From Their Aqueous Solutions on a Charcoal Bed

76-32-2-16/38

acetic acid (30 mmol/liter) the adsorption velocity mainly depends on the internal transport. With more dense (more solid) charcoal Nr 9 (anthracite) internal diffusion takes place slower than in the case of birch charcoal (β is smaller). Therefore its limiting influence in anthracite is relatively greater than in the case of the adsorption of acids on birch charcoal on comparable conditions. There are 1 figure, 4 tables, and 11 references, 11 of which are Soviet.

ASSOCIATION: Taganrogskiy radiotekhnicheskiy institut. Krasnodarskiy pedagogicheskiy institut (Institute for Radiotechnical Engineering, Taganrog. Pedagogic Institute, Krasnodar)

SUBMITTED: October 26, 1956

1. Acetic acid--Adsorption
2. Butyric acid--Adsorption
3. Charcoal--Adsorptive properties
4. Adsorption--Analysis

Card 4/4

. AUTHORS: Kharin, A. N., Vereshchagina, V. I. SOV/76-32-8-25/37

TITLE: The Effect of Electrolytes on the Statics and Kinetics of Iodine Adsorption From Solutions by Charcoal (Vliyaniye elektrolitov na statiku i kinetiku adsorbtsii yoda uglem iz rastvorov)

PERIODICAL: Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 6, pp. 1878-1888 (USSR)

ABSTRACT: It was assumed that an acceleration of the internal transfer of the iodine molecules in carbon particles in the presence of iodide is caused by the formation of the complex ion $(I_3)^-$. The formation of polyiodide anions considerably increases the solubility of iodine in water in the case of iodine additions. As also bromide and chloride increase the water solubility of iodine the authors carried out experiments using KJ (in water and alcohol), KBr, NaCl and Na_2SO_4 . The latter decreases the solubility and is said to make possible a better evaluation of the investigations. In the investigations pre-treated birchcharcoal of a certain granulation was used which

Card 1/3

SOV/76-32-8-25/37

The Effect of Electrolytes on the Statics and Kinetics of Iodine Adsorption
From Solutions by Charcoal

had a surface oxide of the type B according to Shilov (Ref 6). A description of the technique is given. The effective kinetic coefficients were calculated by means of an equation based on the theory by A. A. Zhukhovitskiy, A. N. Tikhonov and Ya. L. Zabezhinskiy (Ref 9), as well as O. M. Todes and Ya. M. Bikson (Ref 10). From the experimental results may be seen that the iodide exerts the greatest influence on the adsorption kinetics investigated; then the bromide and chloride follow according to their effect, whereas the sulfate did not display any noticeable influence. The observation made that in the case of a small granulation of the carbon (0,075 cm) no differences of the adsorption rates exist in the beginning is explained by the predominant external diffusion. The changes of the adsorption rate noticed in the case of coarser granulation, which are still greater in alcoholic solution (in the case of KJ), are explained by an acceleration of the internal transfer. A detailed explanation of the experimental results obtained is given. There are 6 figures, 5 tables, and 11 references, all of which are Soviet.

Card 2/3

The Effect of Electrolytes on the Statics and Kinetics of Iodine Adsorption
From Solutions by Charcoal

SOV/76-32-8-25/37

ASSOCIATION: Taganrogskiy radiotekhnicheskiy institut (Taganrog Institute
of Radio Engineering)

SUBMITTED: March 25, 1957

Card 3/3

KOLESOV, S.N.; VVEDENSKAYA, L.A.; KHARIN, A.N., prof., retsenzent;
LOVTSOV, V.M., dots., retsenzent; LIKONTSEV, N.N., kand.
tekh. nauk, retsenzent; FUTILOVA, I.N., prof., doktor
khim. nauk, red.; TROFINOV, F.F., red.; BAKHTIYAROV, A.,
tekh. red.

[Laboratory work in general chemistry] Praktikum po ob-
shchei khimii. Tashkent, Gos.izd-vo Uzb.SSR, 1960. 141 p.
(MIRA 17:4)

1. Zaveduyushchiy kafedroy khimii Taganrogskego radiotekhnicheskogo instituta (for Kharin). 2. Zaveduyushchaya kafedroy khimii Moskovskogo elektrotekhnicheskogo instituta (for Putilova).

VERESHCHAGINA, V.I.; KHARIN, A.N.

Theory of the statics of iodine sorption on coals from aqueous solutions of halides. Izv.vys.ucheb.zav.; khim.i khim.tekh. 3 no.6:1011-1016 '60. (MIRA 14:4)

1. Taganrogskiy radiotekhnicheskiy institut, kafedra obshchey.
(Iodine) (Sorpton)

KATAYEVA, N.A.; KHARIN, A.N.

Effect of the solvent and of the type of carbon in the
kinetics of iodine adsorption from the solution flow.
Zhur.fiz.khim. 35 no.12:2794-2799 D '61. (MIRA 14:12)

1. Taganrogskiy radiotekhnicheskiy institut.
(Iodine) (Adsorption)

KHARIN, A.N.; KATAYEVA, N.A.

Mechanism of iodine transfer associated with the internal diffusion kinetics of its adsorption on charcoals from various solvents.
Dokl. AN SSSR 137 no. 2:359-362 Mr '61. (MIRA 1442)

1. Taganrogskiy radiotekhnicheskiy institut. Predstavleno akademikom M.M. Dubininym.
(Iodine) (Adsorption)

KATAYEVA, N.A.; KHARIN, A.N.

Intradiffusional kinetics of iodine adsorption from various solvents on carbons of various porosity. Zhur.fiz.khim. 36 no.5:973-980 My '62. (MIRA 15:8)

1. Taganrogskiy radiotekhnicheskiy institut.
(Iodine) (Adsorption)

ZABURDAYEVA, F.I.; KOCHEGAROV, V.M.; KHARIN, A.N.

Electrodeposition of antimony from the trifluoride electrolyte.
Zhur. fiz. khim, 38 no.3:756-760 Mr '64. (MIRA 17:7)

1. Taganrogskiy radiotekhnicheskiy institut.

KOLESOV, Svyatoslav Nikolayevich; VVEDENSKAYA, Lyudmila
Andreyevna; KHARIN, A.N., prof., retsenzent; RUSTAMOV,
Kh.R., prof., retsenzent; RAYTSYN, G.A., dots.,
retsenzent; LOVTSOV, V.M., dots., retsenzent; LIKONTSEV,
N.N., dots., retsenzent; PUTILOVA, I.N., doktor khim.
nauk, prof., red.; MAKUSHENKO, Ye.N., red.

[Laboratory work in general chemistry] Praktikum po ob-
shchei khimii. Izd.2., perer. i dop. Tashkent, Sredniaia
i vysshaia shkola, 1963. 186 p. (MIRA 17:12)

1. Zaveduyushchaya kefedroy khimii Moskovskogo elektro-
tekhnikeskogo instituta svyazi(for Putilova).

STRASHKO, B.Yu., inzh.; KHARIN, A.N., inzh.; GOLUB', T.F., inzh.

Erection of a metal, tower headframe in the Donets Basin. Shakht.
stroi. 9 no.4:18-20 Ap '65. (MIRA 18 5)

1. Donetskij Promstroyniprojekt.

L 1323-66 EWT(m)/EWP(1)/EWP(t)/EWP(b) JD

ACCESSION NR: AP5020929

UR/0142/65/008/003/0362/0364

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44,55

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B

AUTHOR: Katayeva, N. A.; Kharin, A. N.; Romanenko, S. V.; Kolesov, L. N. (Docent)

44,55

44,55

44,55

TITLE: Obtaining ferrite precipitates on metals by the electrophoretic method

SOURCE: IVUZ. Radiotekhnika, v. 8, no. 3, 1965, 362-364

TOPIC TAGS: electrolytic deposition, ferrite

ABSTRACT: The use of the electrophoretic method for deposition of ferrite particles on copper wire was investigated. The zinc-nickel ferrite used (Fe₂O₃, 65.9%; NiO, 9.6%; ZnO, 24.5%), had a density of 4.67 gm/cm³ and magnetic permeability $\mu_0 = 1000$. It was mixed with ethyl alcohol and ball milled for 150 hr, after which a 5-10% ferrite suspension was obtained by decantation. To improve the electrolytic properties of the suspension, one drop of a 6% aqueous solution of cerium nitrate was added to the suspension. Before deposition, the copper wire was bathed in a 10% alkaline solution at 80-90C for 15 min, rinsed in distilled water, etched with HNO₃ for 10 sec, and rinsed again. Deposition was conducted for 2-10 min under a current of 2-20 mamp, depending on the surface area of the wire. Adhesion of the ferrite particles was assured by dipping the ferrite-covered wire into a 1:4 solu-

Card 1/2

L 1323-66

ACCESSION NR: AP5020929

tion of MBK-1 glue in toluene and later drying it at 100C for 12 hr. The electro-
phoretic process increased the inductance of the copper wires to 1 μ h from fractions
of 1 μ h. Copper coils similarly processed showed an increase of inductance of 1.5
to 1.7 times. [PW]

ASSOCIATION: none

SUBMITTED: 08Jun64

ENCL: 00

SUB CODE: EC,EM

NO REF SOV: 003

OTHER: 000

ATD PRESS: 4103

mlr
Card 2/2

KHARIN, Aleksey Petrovich; KUR'YANOVICH, I.I., red.

[Potentials of the machinery industry] Rezervy mashino-
stroitel'nogo proizvodstva. Orenburg, Orenburgskoe knizh-
noe izd-vo, 1963. 99 p. (MIRA 17:7)

KOCHERGIN, A.I., inzhener; KHARIN, A.P., inzhener.

Methods of mass production in single-unit machine building.
Vest.mash.34 no.1:90-95 Ja '54. (MLRA 7:2)
(Machinery industry)

KHARIN, A. S.

Total lunar eclipse of January 29, 1953. Astron. tsir. no. 135:21-22 F '53.
(MLBA 6:6)

1. Kafedra astronomii Tomskogo gosudarstvennogo universiteta,
(Eclipses, Lunar -1953)

~~KHARIN, A.S.~~

Lunar occultations of stars observed at the Nikolayev Branch of
the Main Astronomical Observatory of the Academy of Sciences of
the U.S.S.R. Astron. tsir. no.176:21 Ja '57. (MLRA 10:6)

1. Nikolayevskoye otdeleniye Gosudarstvennoy astronomicheskoy
observatorii Akademii nauk SSSR.
(Occultations)

KHARIN, A.S.

Observations of the total lunar eclipse of May 13-14, 1957, at the
Nikolnev Branch of the Academy of Sciences of the U.S.S.R. Astron.
tsir. no.184:18-19 S '57. (MIRA 11:4)

1. Nikolayevskoye otdeleniye Glavnoy astronomicheskoy observatorii
AN SSSR, Pulkovo.
(Eclipses, lunar--1957)

KHARIN, A.S. (Kiyev)

Observations of lunar occultations of stars at the Main Astronomical Observatory of the Academy of Sciences of the Ukrainian S.S.R. in Goloseevo. Astron. tsir. no.19):31-32 Jy '58.

(MIRA 12:1)

1. Glavnaya astronomicheskaya observatoriya AN USSR, Goloseyev. (Occultations)

KHARIN, A.S.

Operating the photoelectric transit instrument of the time
service of the Main Astronomical Observatory of the Academy
of Sciences of the U.S.S.R. during 6 months of the International
Geophysical Year. Izv. GAO 22 no. 1:107-122 '60. (MIRA 13:12)
(Transit instruments) (Photoelectric measurements)

KHARIN, A.S.; MOROZ, G.V.

First results of the observations of major planets with the
vertical circle of the Main Astronomical Observatory. Astron.
tsir. no.227:3-5 F '62. (MIRA 16:1)

1. Glavnaya astronomicheskaya observatoriya AN UkrSSR.
(Planets--Observations)

KHARIN, A.S.

Study of errors of the eyepiece micrometer screw of the vertical circle at the Main Astronomical Observatory of the Ukrainian S.S.R. Izv. Glav. astron. obser. AN USSR 5 no.1:42-46 '63. (MIRA 16:6)
(Ukraine--Astronomical observations)

KHARIN, A.S.

[Catalog of declinations of stars under programs for zenith telescopes in the F.K.4 system for the epoch of observation and equinox 1950.0] Katalog sklonenii zvezd program zenit-
teleskopov v sisteme FK 4 dlia epokhi nabludeniia i ravno-
denstviia 1950.0. Kiev, Akad. nauk URSS, 1963. 99 p.
(MIRA 13:9)

L 10749-63 EWP(q)/EWT(m)/BDS--AFFTC/ASD...JD
ACCESSION NR: AP3001957 S/0226/63/000/003/0099/0103

AUTHOR: Igashev, Ye. P. (Novosibirsk); Kharin, A. U. (Novosibirsk) 54

TITLE: Sintering molybdenum compacts in humidified hydrogen and rolling them into strip

SOURCE: Poroshkovaya metallurgiya, no. 3, 1963, 99-103

TOPIC TAGS: molybdenum powder, compacting, sintering, rolling, molybdenum sheets

ABSTRACT: A production technique has been developed for obtaining 1- to 5-mm thick molybdenum sheets measuring 110 x 110, 130 x 130, 130 x 150, and 130 x 260 mm. The process includes 1) the production of the molybdenum powders, 2) the compacting and sintering of the powders into pellets 5 x 5 and 6 x 125 mm with thicknesses of 8-15 mm, and 3) rolling. Powders of the required particle size were produced by the two-stage reduction (with hydrogen) of molybdenum trioxide obtained by roasting ammonium molybdate in air at 400-450°C or by sublimation of molybdenum metal strip. Depending on the size of the green compacts, the specific compacting pressure was varied from 2.1-3.7

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L 10749-63
ACCESSION NR: AP3001957

million newton/m²; higher pressures or the use of finer powders at the pressures employed promoted lamination of the compacts. The green compacts were sintered for 1 hr at 1075-1125C and then for 2-3 hr at 1700-1750C. The sintered billets had a uniform, fine-grained structure (15-20 thousand grains/mm² and a density of 9.5-10.5 g/cm³). The billets were heated to 1100-1200C in a hydrogen atmosphere and rolled (without preforming) with a 10-15% reduction per pass into sheets 1.5 to 3.5 mm thick. The hot-rolled sheets were pickled in molten potassium nitrate, surface-conditioned by grinding, and, after heating to 300-400C in air, rolled into strips 1 to 3 mm thick. No lamination, cracking, or rupture was observed during subsequent blanking and stamping. Orig. art. has: 7 tables.

ASSOCIATION: none

SUBMITTED: 04Jan62

DATE ACQ: 11Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 003

OTHER: 001

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12694-63 EWT(d)/EWP(K)/EWP(q)/EWT(m)/RDS AFPTC/ASH PI-4 JD/JG
ACCESSION NR: AP3003448 S/0129/63/000/007/0031/0031

AUTHORS: Ignashev, Ye. P.; Kharin, A. U. 63

TITLE: Intermediate annealing of molybdenum wire, 4

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 7, 1963, 31

TOPIC TAGS: wire annealing, molybdenum wire, bright annealing

ABSTRACT: Basic characteristic of fine molybdenum wire, used for radio tube spiralling, is elongation per unit length. The mechanical properties of molybdenum wire can be improved by heat treatment. Authors established that bright recrystallization/annealing of a 0.28 mm diameter wire assures a sufficiently high and uniform elongation after drawing to 100-30 microns and supplementary annealing. Article contains a figure which shows the effect of annealing temperature for two heats on the elongation per unit. In the case of heat A, the required elongation is attained only at an annealing temperature of 1450-1540C. In the case of heat B, this is not attained, if recrystallization annealing were not carried out. The

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ACCESSION NR: AP3003448

annealing was done by drawing the wire through a tubular hydrogen furnace at a rate of 12-14 meters per minute. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: ML

NO REF SOV: 001

OTHER: 000

Card 2/2

KHARIN, A.V., (Moscow).

For efficient use of paper. Poligr. proiz. 4:13-14 4p '53. (MLRA 6:6)
(Printing industry)

KHARIN, B. inzh. (Leningrad)

Conference of young people. MTO no.10:57 0 '59. (MIRA 13:2)
(Leningrad--Power engineering)

KHARIN, B., inzh.

Following the initiative of Yaroslavl engineers. MTO 2 no.11:
46-47 B '60. (MIRA 13:11)
(Leningrad--Electric power plants)

KHARIN, B., inzh.

The TETZ standard design. NTO 3 no.4:61 Ap '61. (MIRA 14:3)
(Electric power plants)

SHARIN, E., inzh. (Leningrad)

Creative achievements of designers. NTO 3 no. 11156 N '61.
(MIRA 14:10)

(Leningrad--Electric power plant)

KHARIN, B., inzh.

Higher than the Eiffel Tower. Na stroi. Ros. 3 no.12:29-30 D '62.
(MIRA 16:2)

(Leningrad—Towers)

DANDERS, Ya.; YATSEVICHUS, I. [Jacevicius, I.]; GOL'DENBERG, A.; KHARIN, B.,
inzh. (Leningrad); MOVA, N., inzh.; VINNIKOV, F. (Gomel');
MAMYKIN, I. (Gomel'); BENDERSKIY, A., starshiy inzh. (pos. Igra,
Udmurtskoy ASSR); CHERTETSOV, V.; OSIPOV, I.; SIROTININ, M.I.

Exchange of news and experience. Izobr.i rats. no.4:25-26 Ap '62.
(MIRA 15:4)

1. Sekretar' Respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Riga (for Danders).
2. Glavnyy inzh. mezhdugorodnoy telefonnoy stantsii, g. Vil'nyus (for Yatsevichus).
3. Predsedatel' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov g. Ufa (for Gol'denberg).
4. Krayevoy sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Krasnodar (for Mova).
5. Igrinskiy lespromkhoz kombinata "Udmurtles", (for Benderskiy).
6. Predsedatel' Krasnoyarskogo krayevogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Sirotinin).
(Technological innovations)

KHARIN, B.D., inzh.

Equipment for boring machines. Biul. tekh. inform. po stroi.
5 no.4:30 Ap '59. (MIRA 12:8)
(Boring machinery)

KHARIN, B.D., inzh.

Using precast reinforced concrete in building thermoelectric power
plants. Biul. tekhn. inform. 4 no.4:7-11 Ap '58. (MIRA 11:5)
(Electric power plants) (Precast concrete construction)

KHARIN, B.D., inzh.

Construction of the scaffolds of fuel supply systems in regions
with low seasonal temperatures. Elek.sta. 33 no.2:85 F '62.
(MIRA 15:3)

(Electric power plants)(Fuel)

KHARIN, B.D., inzh.

New developments in the mechanization of exploration work. Energ.
stroil. no.26:39-45 '61. (MIRA 15:7)

1. Leningradskoye otdeleniye Vsesoyuznogo gosudarstvennogo instituta
po proyektirovaniyu teplovykh elektrostantsiy.
(Geological research—Equipment and supplies)

KHARIN, Boris Dmitriyevich; IVANOV-SKOBLIKOV, P.V., red.; ZHITNIKOVA,
O.S., tekhn. red.

[Organization of the construction of thermal electric power
plants] Organizatsiia stroitel'stva teplovykh elektrostantsii.
Moskva, Gosenergoizdat, 1962. 242 p. (MIRA 16:2)
(Electric power plants)

CHERVYAKOVA, A.F.; PLUZHNIKOV, V.Kh.; GORELOV, Ya.P.; SHERBAUM, L.M.;
KRYLOV, A.G.; SENTSOVA, Yu.Ye.; KHARIN, B.T.

Results of photographic observations of artificial satellites.
Biul.sta.opt.nabl. isk.sput.Zem. no.25:23-28 '62. (MIRA 15:7)

1. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli Instituta astrofiziki AN Turkmenskoy SSR (for Chervyakova).
 2. Nachal'nik Khar'kovskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Pluzhnikov).
 3. Nachal'nik stantsii nablyudeny iskusstvennykh sputnikov Zemli Gosudarstvennogo astronomicheskogo instituta im. P.K.Shternberga (for Gorelov).
 4. Astronomicheskaya observatoriya Kiyevskogo universiteta (for Sherbaum).
 5. Stantsiya Astronomicheskogo soveta AN SSSR (for Krylov, Sentsova).
 6. Nachal'nik Tomskoy stantsii opticheskikh nablyudeny iskusstvennykh sputnikov Zemli (for Kharin).
- (Artificial satellites--Tracking)

L 9619-66 FSS-2/EWT(1)/ES(r)-3/EEG(k)-2/EWA(d)/T LJP(c) GM
ACC NR: AR5020395 UR/0313/65/000/003/0016/0016

SOURCE: Ref. zh. Issledovaniye kosmicheskogo prostranstva, Abs. 8.62.113

AUTHOR: Kharin, B.T.

TITLE: Photometric observations of the Echo II satellite

CITED SOURCE: Dokl. 3-y Sibirsk. konferentsii po matem. i mekhan., 1964. Tomsk, Tomskiy un-t, 1964, 359-360

TOPIC TAGS: satellite, satellite photography, satellite reflective characteristic, satellite tracking camera

TRANSLATION: By means of a NAFA 3c/25 camera, 40 negatives of the Echo II satellite were obtained in Tomsk between February 6 and 11, 1964, in order to observe the brightness variations of the satellite. For this purpose, selections were made of up to 20 supporting stars with known stellar values and, taking into consideration the differences in angular velocities of the satellite and the stars, corrections were introduced. The degree of the satellite's brightness did not vary during the period of observations. The author deduces that the process of filling the balloon was completed by February 1964.

SUB CODE: 22, 03

ENCL: 00

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