

Composition of boron aluminosilicate ...

S/020/62/142/006/017/019
B101/3144

$(\varphi_H = \varphi^0 + \beta \log a_H)$ to the sodium function: $\varphi_{Na} = \varphi^0 + \beta \log K a_{Na}$.
This results in the relation: $-\log K = (\varphi_H - \varphi_{Na})/\beta - \log(a_H/a_{Na})$. A
dependence of K on the ratio between the strong acids and the sum of
strong and weak acids in the glass was found. $-\log K$ is a unique function
of the molar part, a, of the strong acids in the glass:
 $a = [B_2O_3(\%) + Al_2O_3(\%)]/[Na_2O(\%) + CaO(\%)]$. The transition from the
hydrogen to the sodium function occupies a wide zone of the diagram in
glasses with a comparable content of strong and weak acids, and a narrow
one in glasses with a prevailing content of either strong or weak acids
(Fig. 3). There are 3 figures, 1 table, and 8 references: 7 Soviet and
1 non-Soviet. The reference to the English-language publication reads
as follows: B. Lengyel, E. Blum, Trans. Farad. Soc., 30, 461 (1934).

ASSOCIATION: Nauchno-issledovatel'skiy khimicheskiy institut Leningradskogo gosudarstvennogo universiteta im. A. A. Zhdanova
(Scientific Research Chemical Institute of the Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: March 11, 1961

Card 2/3

NIKOL'SKIY, B.P.; SHUL'TS, M.M.; BELYUSTIN, A.A.

Influence of the nature of the second glass-forming oxide on
the sodium and potassium electrode functions of silicate glasses.
Dokl. AN SSSR 144 no.4:844-848 Je '62. (MIRA 15:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
2. Chlen-korrespondent AN SSSR (for Nikol'skiy).
(Electrodes, Glass) (Oxides)

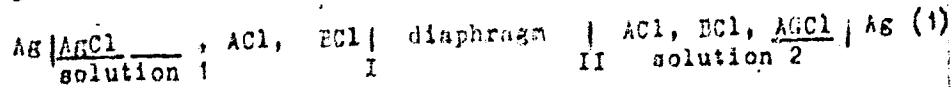
S/054/63/004/001/010/022
B101/8215

AUTHORS: Stefanova, O. K., Shul'ts, M. M., Materova, Ye. A.,
Nikol'skiy, B. P.

TITLE: The e. m. f. of galvanic cells containing ion exchange
diaphragms

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii,
no. 1, 1963, 93-99

TEXT: The galvanic cell



where A and B are univalent metals or hydrogen, is studied. The diaphragm is taken as being permeable only to cations. The change in free energy caused by the transport of solvent is not taken into consideration. Based on a paper by G. Scatchard (J. Amer. Chem. Soc., 75, 2883, 1953).
Card 1/3

The e. m. f. of galvanic cells ...

S/054/63/004/001/010/022

B101/B215

$$E = \frac{RT}{F} \ln \frac{a_{\pm}^2(\text{BCl}) + \frac{u_A}{u_B} K a_{\pm}^2(\text{ACl})}{a_{\pm}^2(\text{BCl}) + \frac{u_A}{u_B} K a_{\pm}^2(\text{ACl})} \quad (6)$$

is obtained for the e. m. f.; a being the activity coefficients of the ions and \bar{u} being their mobility in the diaphragm. The effect of incomplete dissociation on the validity of Eq. 6 is discussed, and the equation whose validity can be determined qualitatively by plotting the curves e. m. f. versus composition of solution is checked experimentally. Substitution of the transport numbers t_1' and t_1'' of ions in the surface layer of the diaphragm in Eq. 6 yields

Card 2/3

The e. m. f. of galvanic cells ...

S/054/63/004/001/010/022
B101/B215

$$E = \frac{RT}{F} \ln \frac{a_2^2(\text{BCl})_1 + \frac{t_A}{t_B} a_1^2(\text{BCl})_1}{a_2^2(\text{BCl})_2 + \frac{t_A}{t_B} a_1^2(\text{BCl})_2} \quad (9)$$

$$= \frac{RT}{F} \ln \frac{a_2^2(\text{BCl})_1 \left(1 + \frac{t_A}{t_B} \frac{a_1^2(\text{BCl})_1}{a_2^2(\text{BCl})_1} \right)}{a_2^2(\text{BCl})_2 \left(1 + \frac{t_A}{t_B} \frac{a_1^2(\text{BCl})_2}{a_2^2(\text{BCl})_2} \right)} = \frac{RT}{F} \ln \frac{a_2^2(\text{BCl})_1}{a_2^2(\text{BCl})_2} \frac{t_B}{t_B}$$

Hence it follows that there is no need to measure the mobility of ions within the diaphragm nor to study the equilibrium in the membrane - solution system for calculating the e. m. f. of cell (1). It is quite sufficient to determine the number of transport of A^+ and B^+ ions through the membrane.

SUBMITTED: October 1962

Card 3/3

NIKOL'SKIY, B.P.; SHUL'TS, M.M.

New concepts of the ion exchange theory of glass electrodes.

Part 1. Vest. LGU 18 no.4:73-86 '63.

(MIRA 16:3)

(Electrodes, Glass) (Ion exchange)

NIKOL'SKIY, B.F.; SHUL'TS, M.M.; BELIUSTIN, A.A.

New concepts of the ion exchange theory of glass electrodes. Vest.
LGU 18 no.4:86-93 '63. (MIRA 16:3)
(Electrodes, Glass) (Ion exchange)

STEFANOVA, G.K.; SHUL'TS, M.M.; MATEROVA, Ye.A.; NIKOL'SKIY, B.P.

Electromotive force of galvanic cells with ion exchange membranes.
Vest. LGU 18 no.4:93-98 '63. (MIRA 16:3)
Electric batteries) (Electromotive force) (ion exchange)

STEFANOVA, O.K.; MATEROVA, Ye.A.; NIKOL'SKIY, B.P.

Ion-exchange and electrochemical properties of sulfite cation
exchangers in solutions of some 1-1 charge electrolytes.
Dokl. AN SSSR 150 no.3:604-607 My '63. (MIRA 16:6)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
2. Chlen-korrespondent AN SSSR (for Nikol'skiy).
(Ion exchange)
(Electrolyte solutions)

ACCESSION NR: AT4040548

S/0000/64/000/000/0106/0115

AUTHOR: Nikol'skiy, B. P.; Shul'ts, M. M.; Pashekhonova, N. V.; Parfanov, A.I.;
Kazurina, G. V.

TITLE: Lithium-cesium-lanthanum silicate electrode glass for pH determinations

SOURCE: Soveshchaniye po khimii redkikh elementov. Leningrad, 1961. Khimiya
redkikh elementov (Chemistry of rare elements); doklady* soveshchaniya. Leningrad,
Izd-vo Leningr. univ., 1964, 106-115

TOPIC TAGS: glass, electrode glass, pH measurement, hydrogen electrode, silicate
glass, rare earth oxide, glass electrical conductivity, lithium oxide, cesium
oxide, lanthanum oxide

ABSTRACT: The authors investigated the effect of the oxides of Li, Cs and La
on the limits of linearity of the relationship between pH and electrode potential,
as well as the specific electrical conductivity and chemical stability, of electrodes
made from glass formed by oxide systems of progressing complexity: $Li_2O - SiO_2$

Card 1/2

BELYUSTIN, A.A.; PISAREVSKIY, A.M.; SHUL'TS, M.M.; NIKOL'SKIY, B.P.

Glass electrode sensitive to the change in oxidation potential of solution. Dokl. AN SSSR 154 no.2:404-406 Ja'64. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. 2. Chlen-korrespondent AN SSSR (for Nikol'skiy).

GERASIMOV, Yakov Ivanovich, prof.; DREVIN, Vladimir Petrovich;
YERMIN, Yevgeniy Nikolayovich; KISELEV, Andrey
Vladimirovich; LEBEDEV, Vladimir petrovich; PANCHENKOV,
Georgiy Mitrofanovich; SHLYGIN, Aleksandr Ivanovich;
NIKOL'SKIY, B.P., prof., retsenzent; SHUSHUNOV, V.A., prof.,
retsenzent; LUR'YE, G.Ye., red.; SHPAK, Ye.G., tekhn. red.

[Course in physical chemistry] Kurs fizicheskoi khimii. [By]
I.A.I.Gerasimov i dr. Moskva, Goskhimizdat, 1963. Vol.1. 624 p.
(MIRA 17:1)

1. Chlen-korrespondent AN SSSR (for Gerasimov, Nikol'skiy).
2. Kafedra fizicheskoy khimii Leningradskogo gosudarstvennogo universiteta (for Nikol'skiy, Shushunov).

NIKOL'SKIY, B.P.; MATEROVA, Ye.A.; SKABICHEVSKIY, P.A.

Ion exchange and the electrochemical properties of zirconyl phosphates. Dokl. AN SSSR 152 no.6:1360-1362 O '63.

(MIRA 16:11)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
2. Chlen-korrespondent AN SSSR (for Nikol'skiy).

2002-65 EWT(m)/EPF(c)/EWP(1) Pr-4/Pr-4 2M
ACCESSION NR: AP4049009 S:0005164/013/011/1407/1408

AUTHOR: Nikol'skiy, B. P., Zakhar'yevskiy, M. S., Poddin, V. A.

TITLE: Determination of ferrocene

JOURNAL: Zhurnal analiticheskoy khimii, v. 11, no. 1, 1964, pp. 1407-1408

TOPIC TAGS: ferrocene determination, ferriferro system, Nernst equation, ferricinium cation, redoximetric analysis

ABSTRACT: A redoximetric method for the quantitative determination of ferrocene in acetic acid solution is described. The oxidative potential of the ferriferro system in 2 N HCl at an overall concentration of the iron salt of 10^{-3} M, strictly obeys the Nernst equation and does not depend, within 1 mv limits, on additions of the other reagents up to 0.3%. This property of the ferriferro system permits a quantitative determination of ferrocene in acetic acid solution in the presence of the ferricinium cation, as well as a check of the purity of the ferrocene preparation. A solution with a known concentration of FeCl_3 in 2 N HCl is added to the ferrocene solution in acetic acid. The precipitating ferrocene redissolves during oxidation by the iron salt. The oxidation potential is determined relative to a saturated calomel electrode. The error was 0.5%, although it could reach +2% for less careful determinations. (Orig. art. has: 1 table and 2 formulae.)

1/1

L 20229-64
ACCESSION NR: AP4049099

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University)

SUBMITTED: 27Jan64

ENCL: 00

SUB CODE: CC

SECRET SOV: 002

OTHER: 002

CH. ZHURAVSKY, A.A.; NIKOL'SKIY, B.P. MIKHAILOV, B.P.

Complex formation in nonaqueous solvents. Part 74. Acetic acid
distribution between water and carbon tetrachloride. *Fizichimicheskaya*
7 no.5:572-575 1965. (MIRA 18:10)

NIFOL'SKIY, B.P.; TRAVINSKIY, M.V.; TYNSKIY, R.I.

Study of complex formation by means of dialysis. Part 2: Deriving an equation for the determination of the reaction equilibrium constant. Radiokhimiya 7 no.5:576-579 '65.

Complex formation studied by means of dialysis. Part 3: Determination of the first constant of hydrolysis of cadmium and zinc acetates. Ibid. 6:623-625 (MIRA 18:10)

NIKOL'SKIY, B.P.; PENDING, A.A.; ZAKHAR'YEVSKIY, G.S.

Electrode reversible toward a ferricinium cation. Dokl. AN SSSR
160 no.5:1131-1132 F '65. (MIRA 18:2)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
2. Chlen-korrespondent AN SSSR (for Nikol'skiy).

NIKOL'SKIY, B.P.; POSVOL'SKIY, M.V.; KRYLOV, L.I.

Partial thermodynamic equilibria in nonequilibrium systems. Part 1: Reaction of plutonium with hydrogen peroxide in the presence of various ligands. Radiokhimiya 7 no.3:298-305 '65. (MIRA 18:7)

NIKOLAI S. ... M.V., LYUBCHENKO, R.I.

Study of complex formation by the dialysis method. Part 1:
Theoretical basis for the possible use of dialysis in
studying complex-formation processes. Radiokhimiya 7 no.4:
465-470 '69. (MIRA 18:8)

BOBROV, V.S.; LUTUGINA, N.V.; MOLODENKO, P.Ya.; ZAKHAR'YEVSKIY,
M.S.; STEFANOVA, O.K.; BELIUSTIN, A.A.; MATEROVA, Ye.A.;
NIKOL'SKIY, B.P., etv. red.; POZDYSHEVA, V.A., red.

[Theoretical and practical guide to laboratory work in
physical chemistry] Teoreticheskoe i prakticheskoe ruko-
vodstvo k laboratornym rabotam po fizicheskoi khimii.
[Leningrad] Izd-vo Leningr. univ. Pt.1. 1965. 197 p.
(MIRA 18:12)

1. Leningrad. Universitet. 2. Chlen-korrespondent AN SSSR
(for Nikol'skiy).

NIKOL'SKIY, B.P., glav. red.; GRIGOROV, O.N., doktor khim. nauk, red.;
FORAY-KOSHITS, B.A., doktor khim. nauk, red.; ~~ROZANKOV, P.G., red.~~
~~ROZANKOV, P.G., red.~~; ROZANKOV, P.G., red.; FRIEDRICHBERG,
D.A., kand. khim. nauk, red.; RABINOVICH, V.A., kand. khim.
nauk, red.; RACHINSKIY, F.Yu., kand. khim. nauk, red.; ZAYDEL',
A.N., doktor fiz.-mat. nauk, red.; ZASLAVSKIY, A.I., kand. khim.
nauk, red.; MORACHEVSKIY, Yu.V., prof., red.; ZHIVA, Z.I., red.;
KOTS, V.A., red.; TOMARCHENKO, S.L., red.

[Chemist's handbook] Spravochnik khimika. 2., izd., perer. i
dop. Moskva, Khimia. Vol.4. 1965. 919 p. (MIRA 19:1)

1. Chlen-korrespondent AN SSSR (for Nikol'skiy, Rozankov).

L 39089-66

EWT(m)/EAP(j)/EAP(t)/ETI

IN ()

ACC NR: AP6022877

(N)

SOURCE CODE: UR/0186/66/003/002/01E9/0197

AUTHOR: Nkol'skiy, B. P.; Il'yenko, Ye. I.

ORG: none

TITLE: Study of the hydrolysis of nitrate complexes of nitrosoruthenium¹

SOURCE: Radiokhimiya, v. 8, no. 2, 1966, 189-197

TOPIC TAGS: ruthenium compound, ^{organic} nitroso compound, hydrolysis

ABSTRACT: The hydrolysis of nitrate²¹ complexes of nitrosoruthenium was studied in the 1-11 pH range by potentiometric titration. The Ru¹⁰⁰ radioisotope was used for the radiometric analysis of ruthenium. The hydrolysis was found to take place in two steps. The first (fast) step forms new Ru species corresponding to new conditions in the medium and is associated with a sharp change of the pH. The second (slow) step involves the polymerisation of these Ru species which were formed by the first step. The redistribution and formation of new Ru species in the second step occur to a much lesser degree than in the first. Hydrolysis at both room temperature and higher temperatures forms products of similar composition, the difference lying chiefly in the degree of polymerisation, and hence in the solubility of the products; the composition of the basic units from which the polymers are built is the same in both cases at the same pH values. No hydrolytic precipitates are formed at room temperature, but at the

Card 1/2

UDC: 46.96*172.6*175:442.938

L 39083-66

ACC NR: AP6022877

water bath temperature, nitrosoruthenium precipitates out. The composition of the hydrolytic precipitate varies with the pH and the time; the pH determines the composition of the polymer units, and the time determines the degree of polymerisation. Cationic and anionic forms of nitrosoruthenium complexes were found to exist in the 2-6 pH range. A diagram of the formation of hydrolytic forms of nitrate complexes of nitrosoruthenium is shown in Fig. 1. Orig. art. has 9 figures.

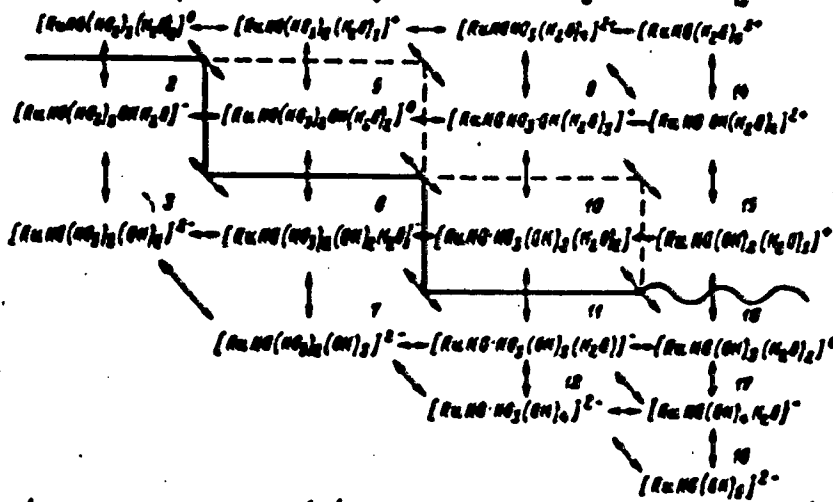


Fig. 1.

SUB CODE: 07/ SUBM DATE: 20 Jul 65/ ORIG REF: 007/ OTHER REF: 006
Card 2/2 114P

ACC NR: AP7012439

SOURCE CODE: UR/0079/66/036/012/2048/2052

AUTHOR: L'vova, T. I.; Penin, A. A.; Shirko, K. D.; Nikol'skiy, B. P.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: Standard thermodynamic constants of the reduction of the (ferricenylmethyl)trimethylammonium cation to the (ferrocenylmethyl)trimethylammonium cation with hydrogen in an aqueous solution

SOURCE: Zhurnal obshchey khimii, v. 36, no. 12, 1966, 2048-2052

TOPIC TAGS: ferrocene, aqueous solution, hydrogen, electrochemical analysis, cation

SUB CODE: 07

ABSTRACT: (Ferrocenylmethyl)trimethylammonium perchlorate ($F^+ClO_4^-$) was prepared by precipitation of an F^+I^- solution with $KClO_4$. On the basis of the curves of potentiometric titration of $F^+ClO_4^-$ with $K_2Cr_2O_7$ or H_2O_2 , the normal potential of the system F^+ cation - (ferricenylmethyl)trimethylammonium cation F^{++} in an 1 M KCl solution was 0.604 ± 0.001 v. The standard redox potentials of $F^{++} - F^+$ at 15, 25, and 35° were determined from the relations between the e.m.f. of the cell Pt/ F^{++}, F^+ ; HCl/glass electrode and the ionic strength of the solution at these temperatures. On the basis of the data obtained, the

Card 1/2

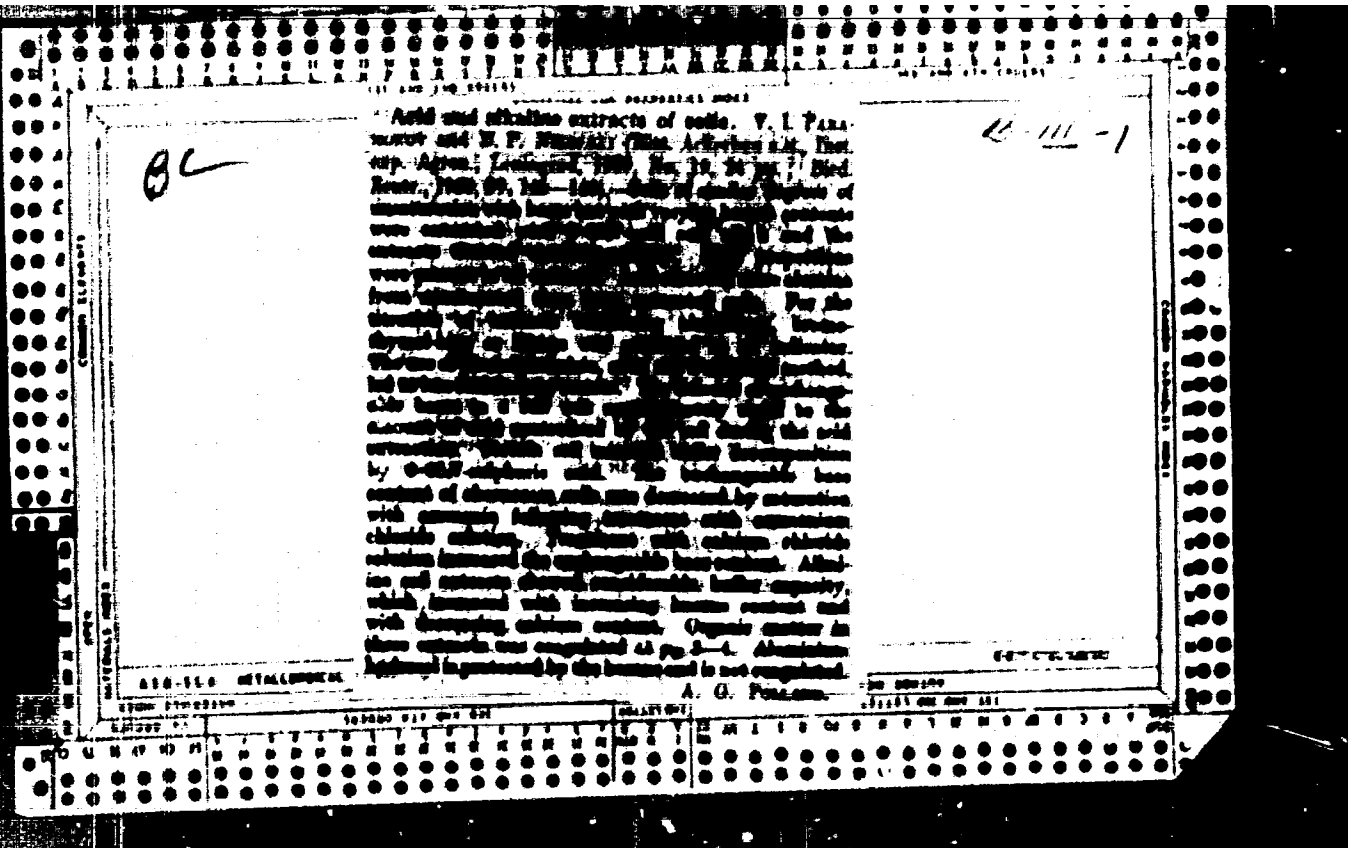
UDC: 546.171.1:541.138.2

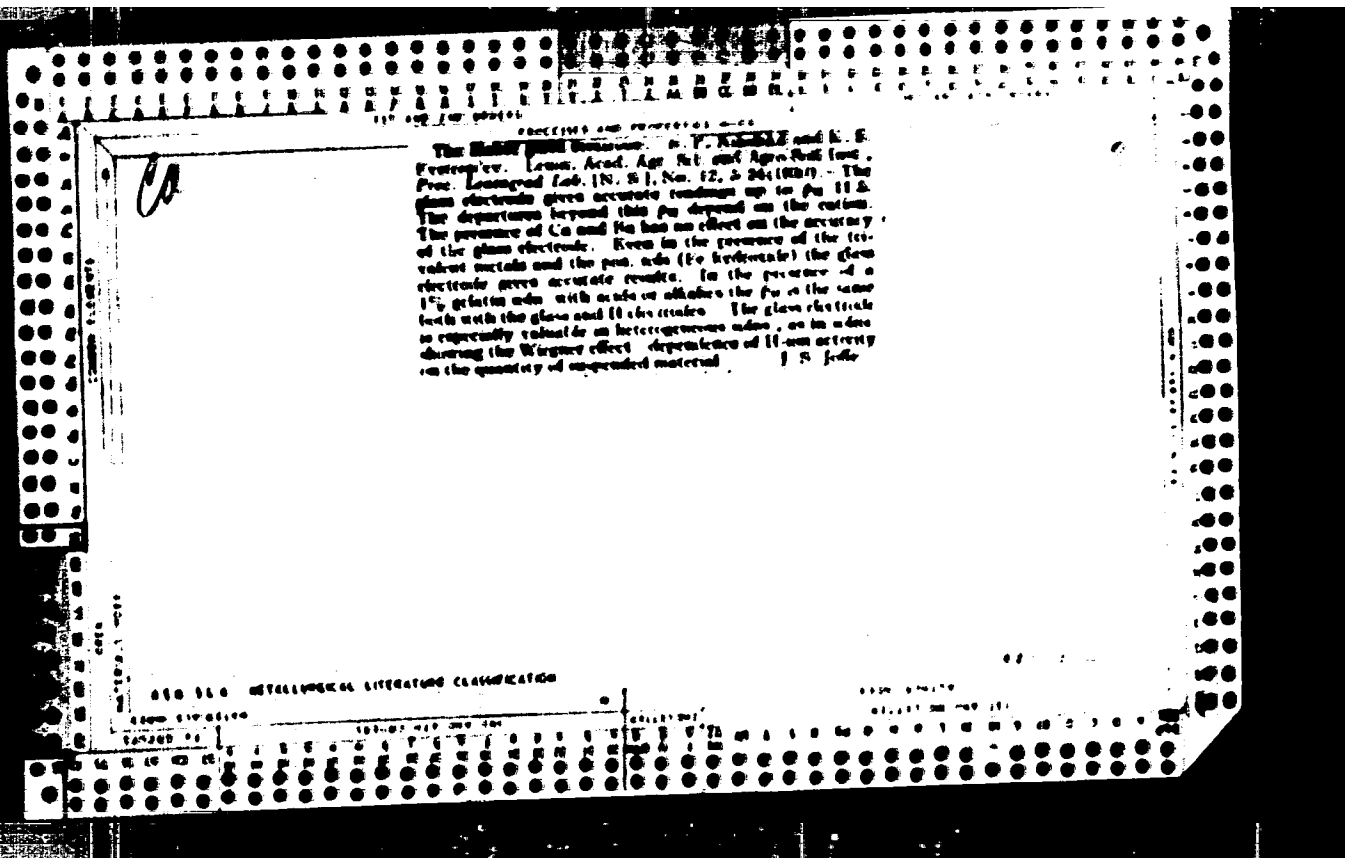
0712 139

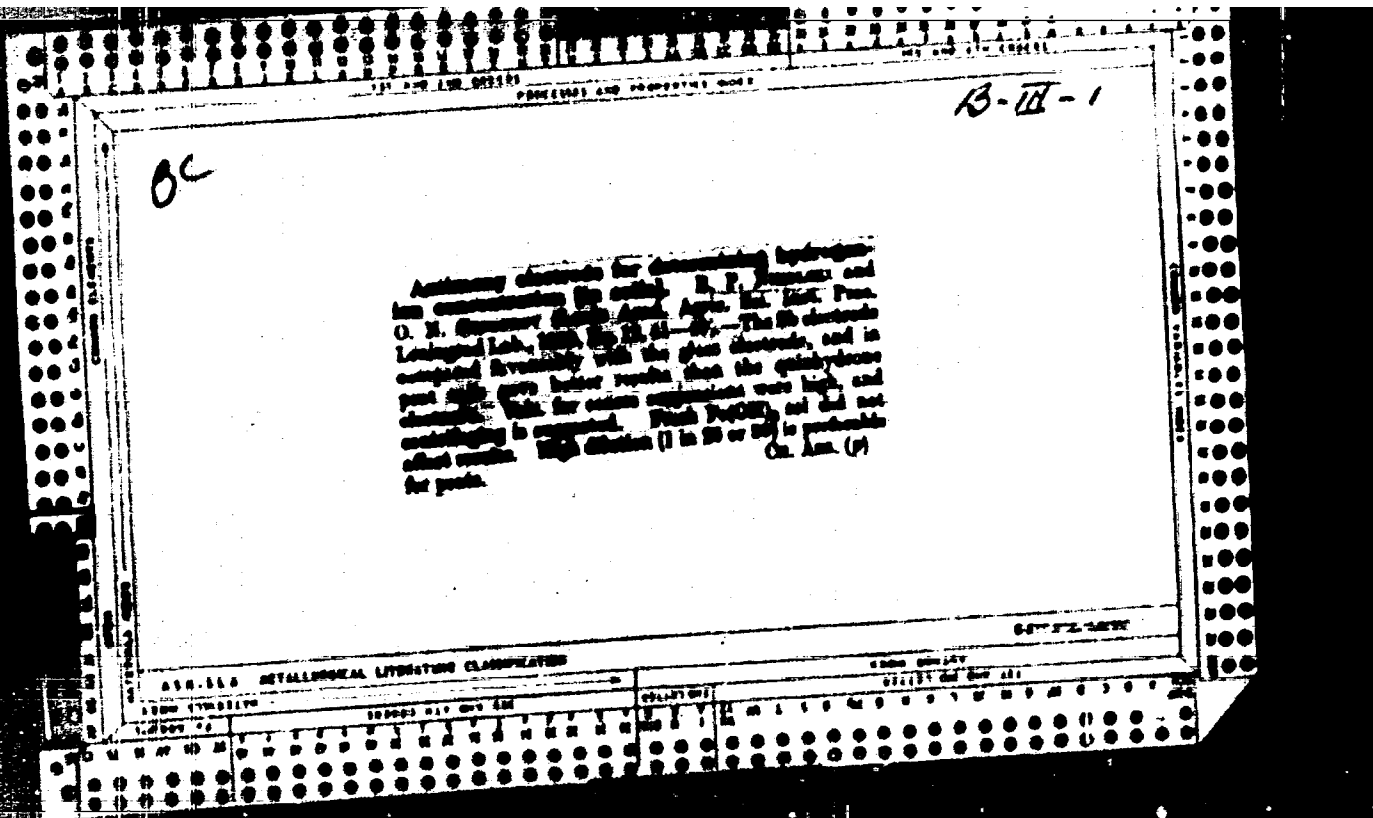
ACC NR. AP7012439

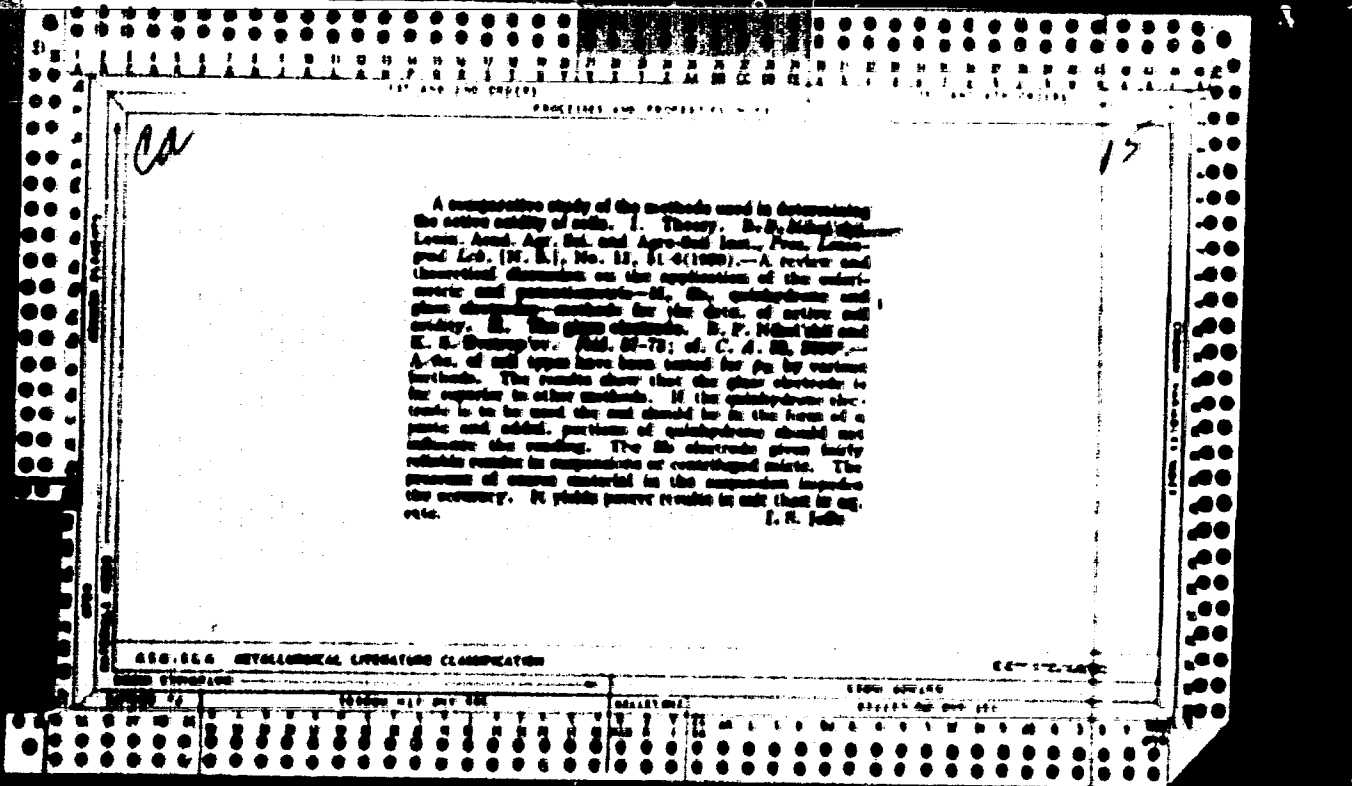
standard thermodynamic constants of the reduction of F^{++} to F^+ with hydrogen at 25°C were determined at $\Delta G^\circ = -15.17 \pm 0.3$ kcal., $\Delta H^\circ = -21.1 \pm 0.3$ kcal., and $\Delta S^\circ = -23 \pm 1$ entropy units. The titration data indicated that the $F^+ \rightarrow F^{++}$ reaction was electrochemically reversible. Orig. art. has: 2 figures and 4 formulas. [JPRS: 40,422]

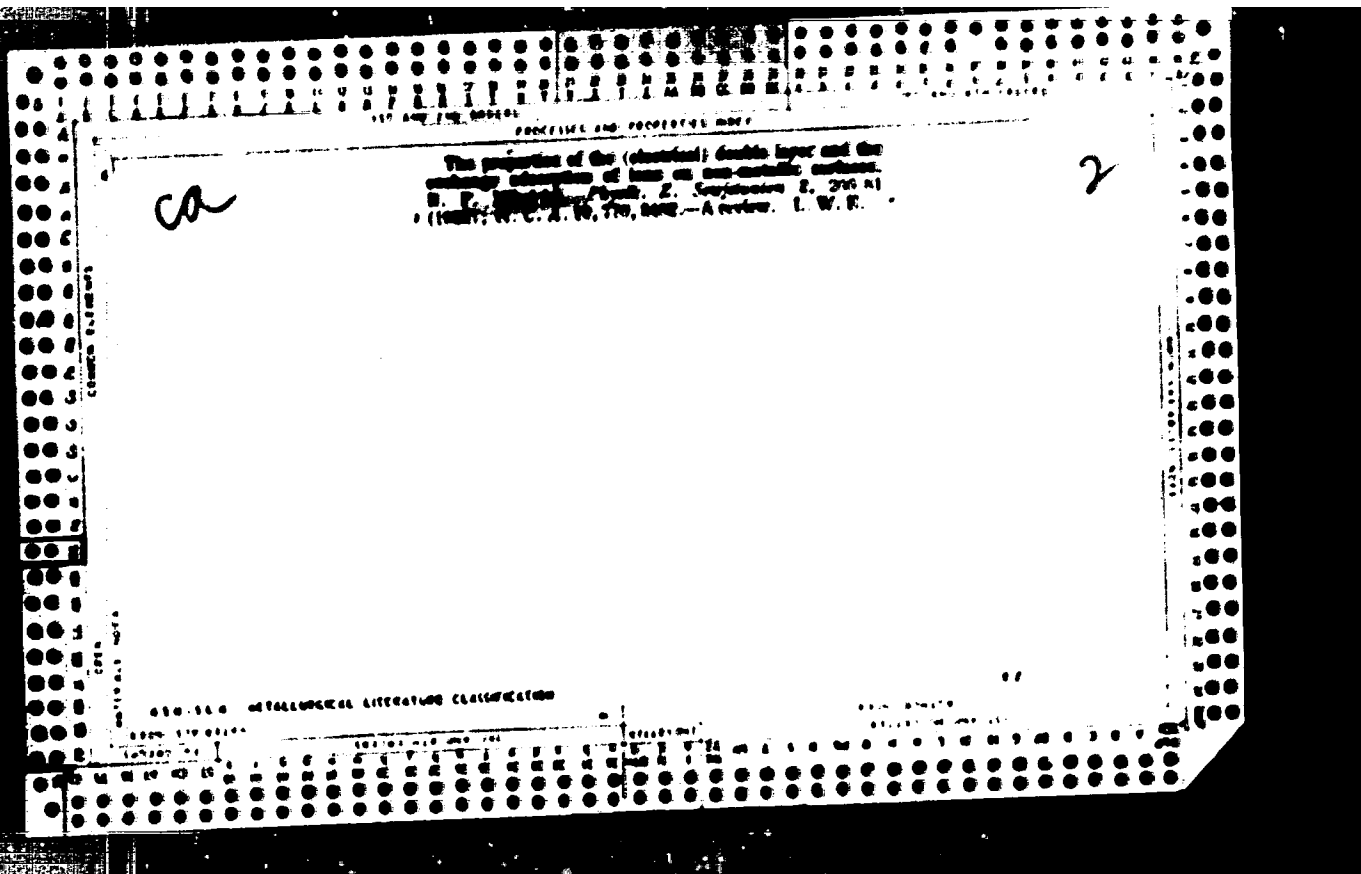
2/2



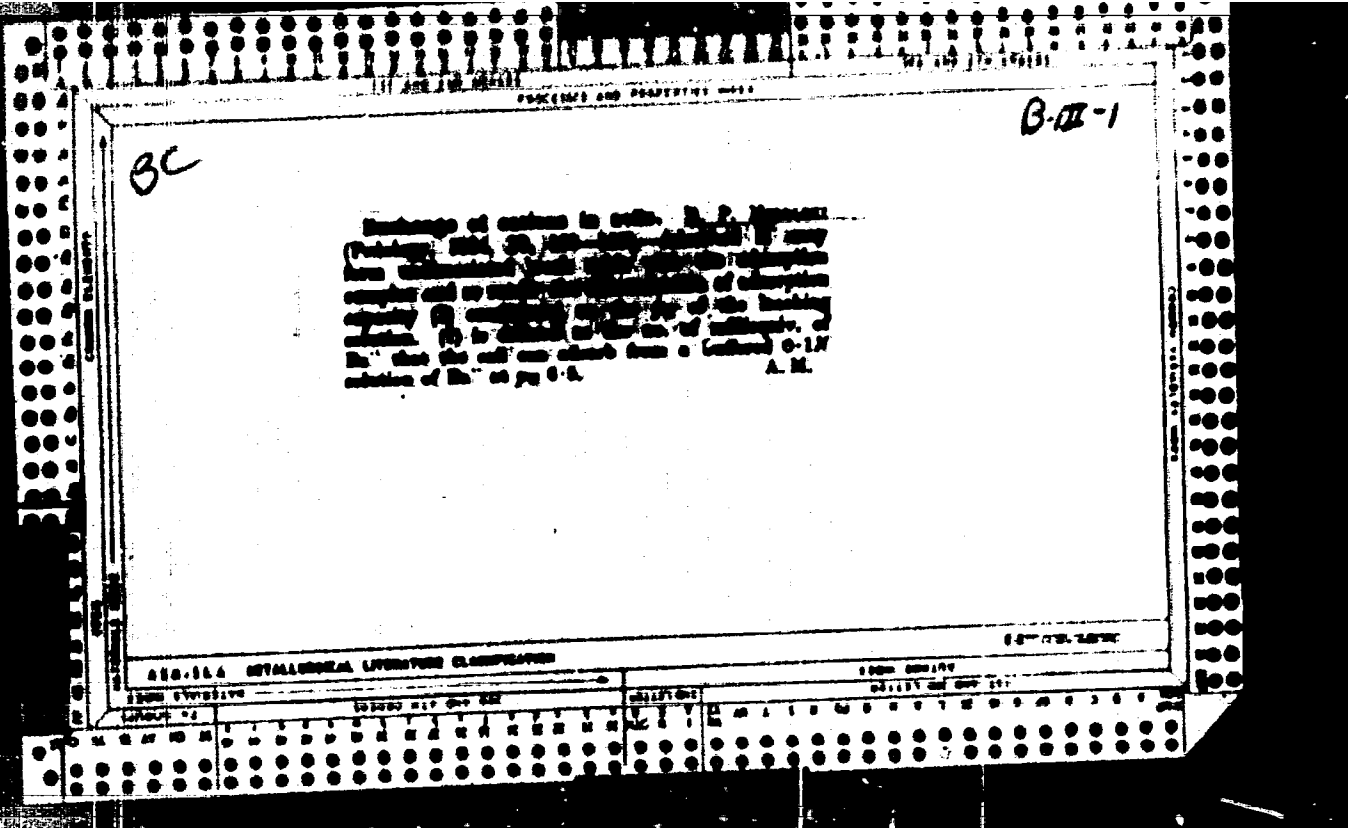


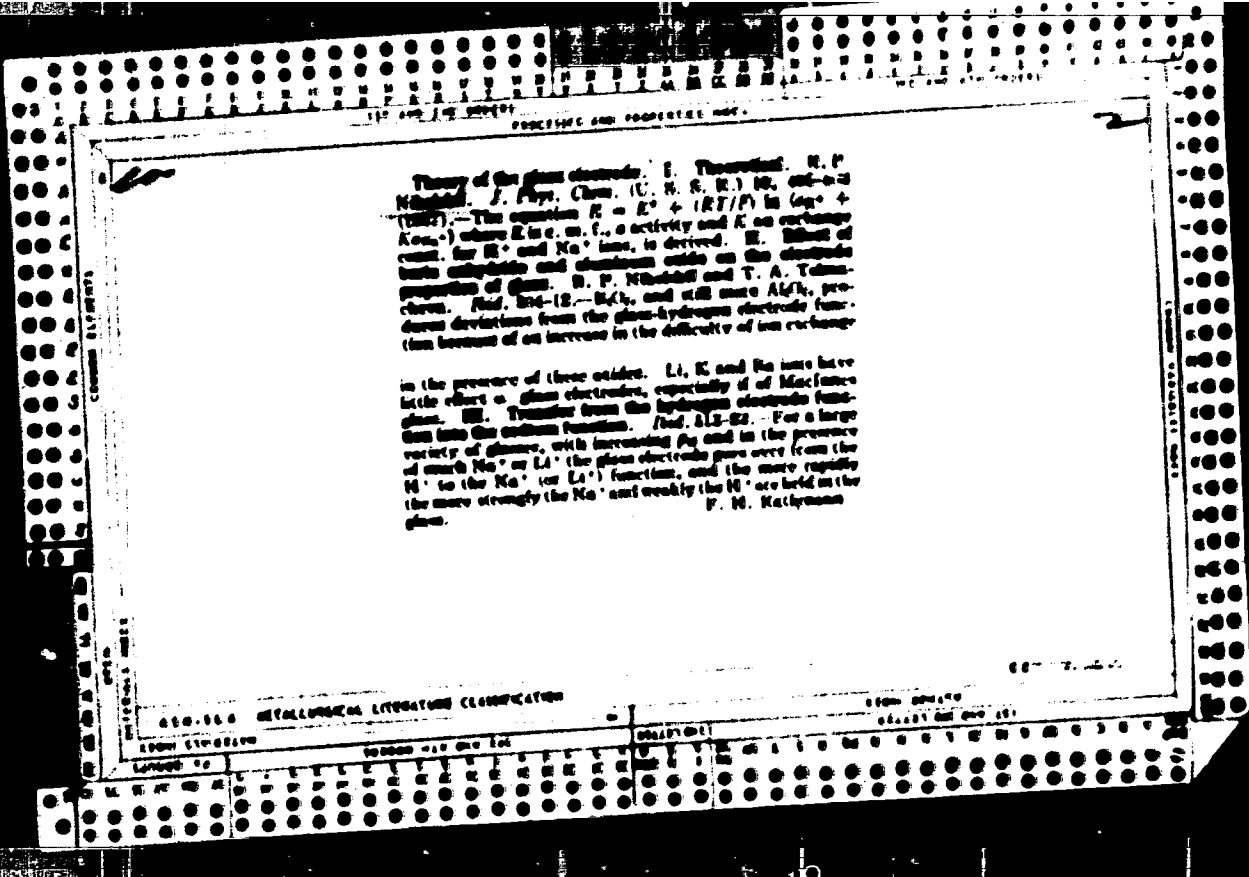


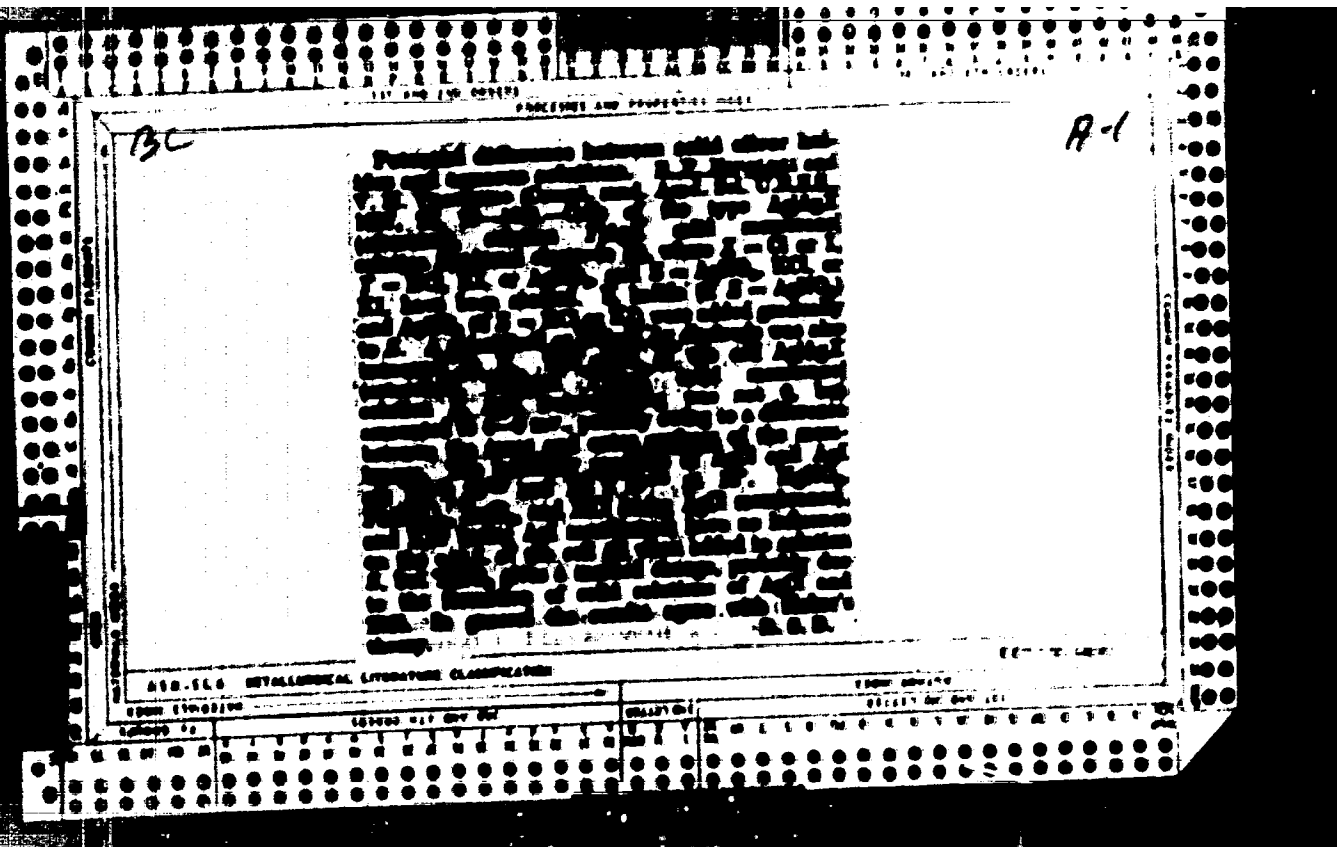


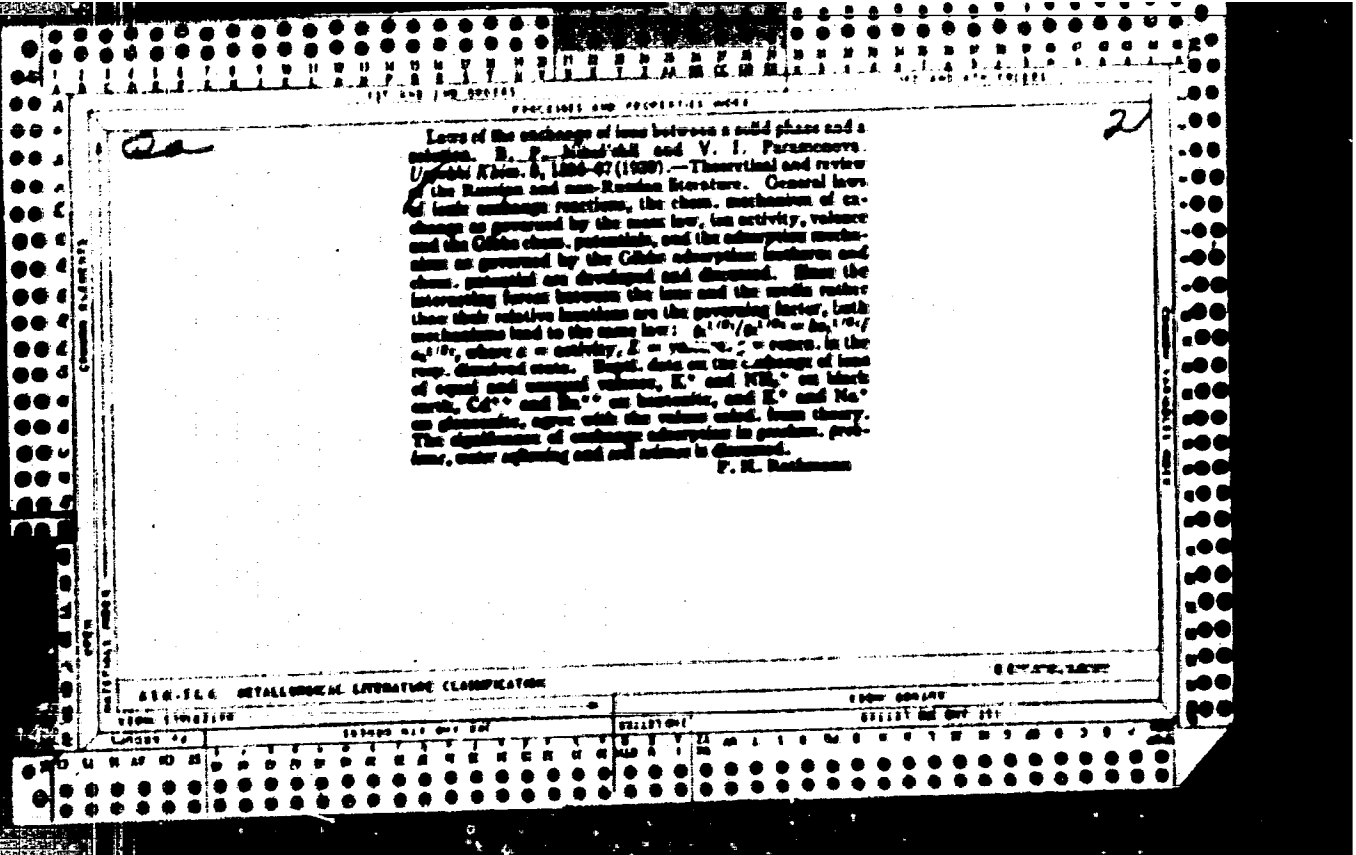


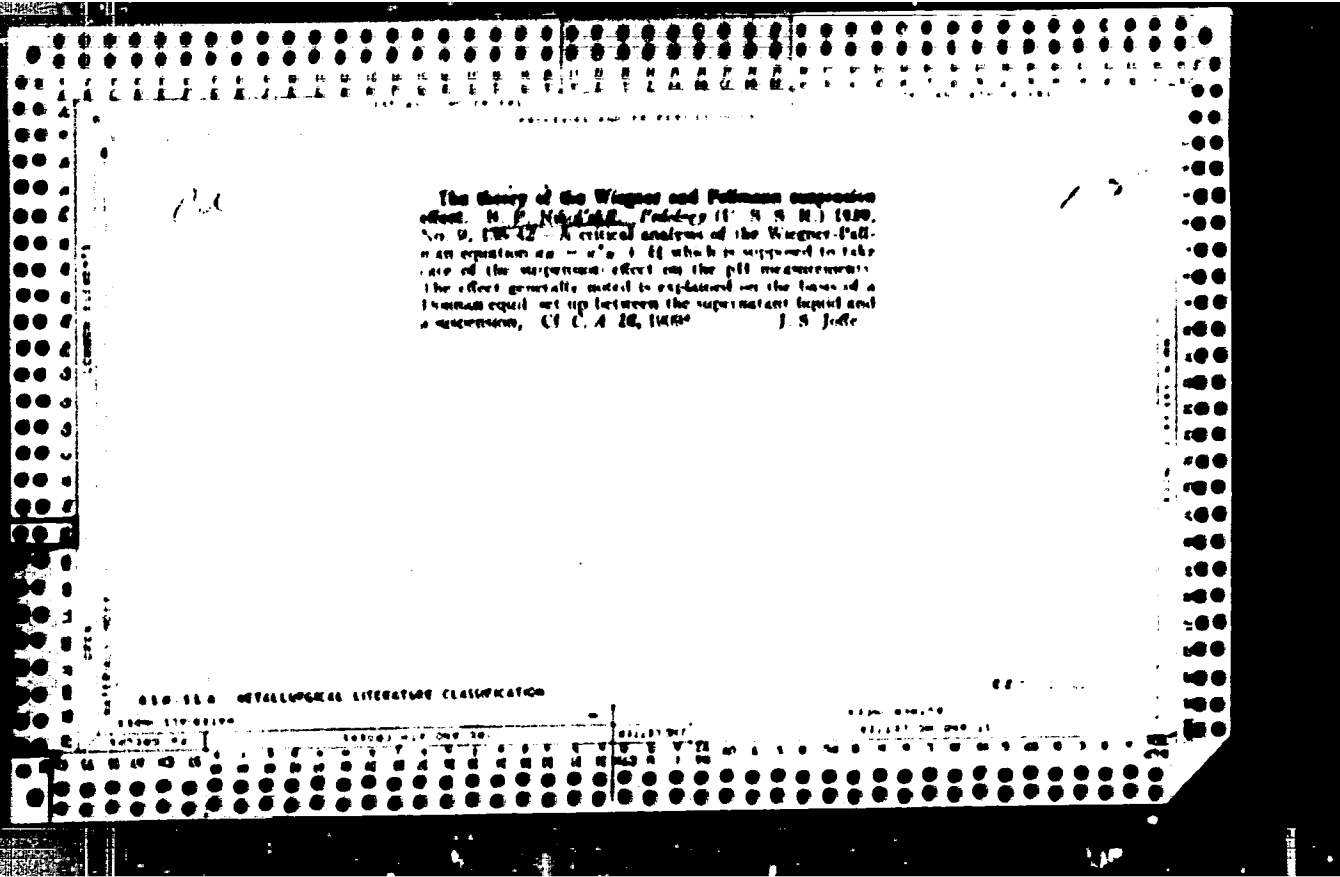
gravimetric determination of potassium. H. P. Mihalich and I. N. Lavrov. *Proc. Leningrad Dept. Univ.* 19, 45-46 (1951). - K is pptd. as $K_2CaFe(CN)_6$ and the excess $CaFe(CN)_6$ is titrated potentiometrically with standard $ZnCl_2$ soln. The vol. of the ppt. is reduced by the addn. of $KClO_4 \cdot CaCl_2$. With a K content between 40 and 120 mg. the error is not more than 0.5 mg. Na, Mg, Ca, sulfate, carbonate and nitrate do not interfere. Details of the prepn. of $CaFe(CN)_6$, the method of titration and charts. of results are given. B. C. A.

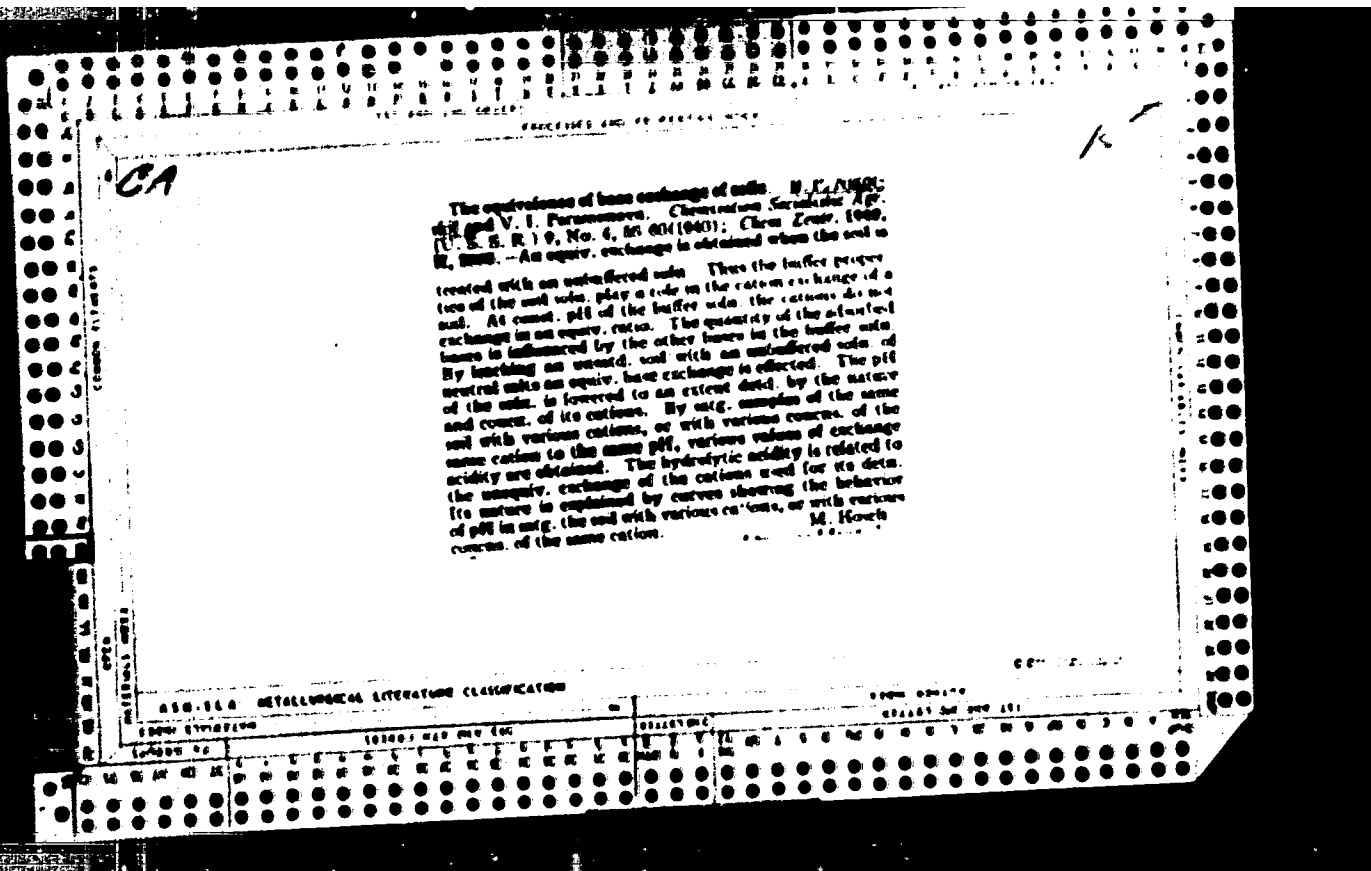


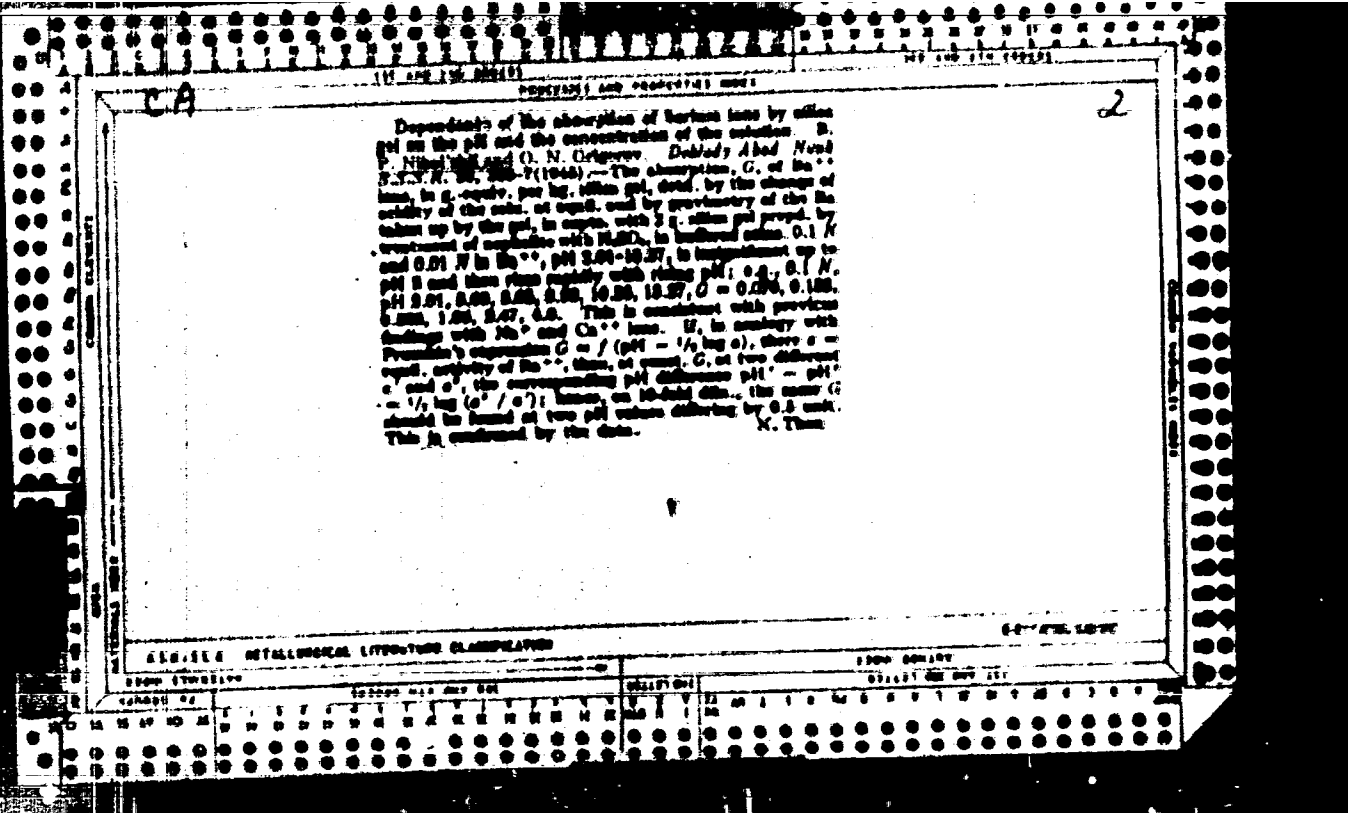












Q-5

USSR/Farm Animals. Poultry.

Abstr Jour: Ref Zhur - Biol., No. 22, 1958, 101268

Author : Fedorovskiy, N.P., Gubarev, F.A., Nikol'skiy, B.S.

Inst : -

Title : Digestive Processes in the Intestines of Turkey-Hens.

Orig Pub: Ptitsevodstvo, 1958, No. 1, 26-30

Abstract: Chronic fistulas were inflicted in 6 Bronze breed turkey-hens at the terminal end of their duodenums. The chyme which was secreted from these fistulas was examined before feedings, during feedings, and after feedings, following certain intervals. The method of coloring food was used. The time which elapsed until such colored feed became visible was determined, as well as its transference speed, chyme quantity

Card 1/2

NIKOL'SKIY, B.S.; GROMOV, A.M., kand.sel'skokhozyaystvennykh nauk

Use of donor blood components by chicken recipients. *Agrabiologiya*
no.1:125-131 Ja-f '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsevodstva,
g. Zagorsk, Moskovskaya oblast'.
(Poultry) (Blood--Transfusion)

NIKOL'SKIY, B. S.

Nikel'skiy, B. S. - "Auxiliary photoelastic equipment", Trudy Rost. n/D in-ta s.-kh. mashinostroyeniya, Issue 4, 1948, p. 57-64.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

Doc 52

NIKOL'SKIY, ~~██████~~ B. S.

USSR/Metallurgy - Welding, Equipment

"Electric Riveting Heads With Impulse Feed," Docent B. S. Nikol'skiy, Cand Tech Sci;
Engr A. V. Alekseyev

Avtogen Delo, No 12, pp 14-16

Describe portable riveter, designed by authors with following major characteristics:
arc excitation by automatic break of electrode; feeding electrode before welding; by
number of impulses; interruption of welding; due to natural arc break over flux; supplying
electrode feeding electromagnet through motor interrupter which gives intermittent
impulse current. Kinematic diagram is presented and discussed.

266T45

NIKOL'SKIY, B.S., mladshiy nauchnyy sotrudnik

Measuring scale for the waves of an electrocardiogram. Trudy
VINEV 22:350-354 '59. (MIRA 13:10)
(Electrocardiography) (Measuring instruments)

NIKOL'SKIY, B. S., Cand Bio Sci -- "Biophysical interpretation of an electrocardiogram of cattle." Mos, 1961. (Mos Vet Acad. ^{of} Min of Agr. ^{of} RSFSR) (KL, 8-61, 238)

- 161 -
- 166 -

KLESNET, O.I.; VOLIK, F.Ye., veter. vrach; MAKRUSHIN, P.V., kand. veter. nauk; LOBKIN, N.I., kand. biolog. nauk; NIKOL'SKIY, B.S., nauchnyy sotrudnik

Laboratory practice. Veterinariia 38 no.7:80-84. JI '61.
(MIRA 16:8)

1. Respublikanskaya veterinarno-bakteriologicheskaya laboratoriya Latvyskoy SSR (for Klesnet). 2. Veterinarne-bakteriologicheskaya laboratoriya, Melitopol' (for Volik). 3. Saratovskiy sovetskiy nauchnyy institut (for Makrushin). 4. Vsesoyuznyy institut eksperimental'noy veterinarii (for Lobkin, Nikol'skiy).
(Listeriosis) (Aureomycin)
(Milk—analysis and examination)

NIKOL'SKIY, B. S. and LOZHKIN, N. I. (All-Union Institute of Experimental Veterinary Medicine and the Candidate of Biological Sciences)

"Graduated test tube for the determination of acidity of milk".

Veterinariya, Vol. 38, no. 7, July 1961, pp. 84

*Nikol'skiy B. S. and Lozhkin, N. I. Graduated Test Tube
for the Determination of Acidity of Milk
Veterinariya*

NIKOL'SKIY, B.V., polkovnik meditsinskoy sluzhby

Conference of physicians from the Crimea group of the sanatoriums
of the Ministry of Defense. Voen.-med. zhur. no.6:96 Je '61.
(MIRA 14:8)

(CRIMEA—SANATORIUMS) (MEDICINE, MILITARY)

NIKOL'SKIY, Boris Vasil'yevich; MILYAVSKIY, David Borisovich;
FIBIKH, V.V., red.; SHLEPOV, V.K., red.isd-va; GINZBURG,
R.Ya., tekhn. red.

[Operation and repair of electric motors in metallurgical
plants] Eksploatatsia i remont elektrodvigatelei na me-
tallurgicheskikh zavodakh. Moskva, Metallurgizdat, 1964.
121 p. (MIRA 17:2)

POPOV, Dmitriy Aleksandrovich prof. [deceased]; KORCHUNOV, Nikolay
Grigor'yevich prof.; KUKLINOV, Boris Alekseyevich, dots.;
MENSHUTKIN, Yakov Grigor'yevich, dots.; KUVALDIN, Boris
Ivanovich, dots.; ALYSHEV, Ivan Fedorovich, dots.; SHCHELKUNOV,
Valentin Vasil'yevich, dots.; NIKOL'SKIY, Boris Vasil'yevich,
dots.; KORUNOV, M.M., prof., retsenzent; DOROKHOV, B.A., red.

[Land transportation of lumber] Sukhoputnyi transport lesa. [By]
D.A.Popov i dr. Moskva, Goslesbumizdat, 1963. 863 p.
(MIRA 17:5)

NIKOL'SKIY, B.V.

Reaction of the cardiovascular system to solar irradiation and sea bathing and their importance in climatotherapy. Vop. kur. fizioter. i lech. fiz. kul't. 28 no.3:234-237 My-Je '63.
(MIRA 17:5)

1. Iz Yaltinskogo sanatoriya (nachal'nik V.I. Gribanov)
Ministerstva oborony SSSR.

NIKOL'SKIY, D.

The construction of machinery operations. Prof.-tech. obr.
1) no.11:13-14 N '56. (MLRA 9:12)

1. Prepodavatel' tekhnicheskogo uchilishcha no.9, Moskva.
(Machinery--Construction)

ZAKHATKIN, V.K.; KOZLOVSKIY, V.A.; NIKOL'SKIY, D.A.; USHAKOV, M.V.

Conclusions drawn from experience in planning and building
concentration plants. Tsvet.net. 27 no.6:5-19 N-D '54. (NINA 10:10)

1. Institut Mekhanobr.

(Ore dressing)

SOV/137-57-10-18586

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 16 (USSR)

AUTHORS: Derkach, V.G., Nikol'skiy, D.A.

TITLE: Features of Foreign Mills for the Dressing of Magnetite Ores
(Osobennosti zarubezhnykh fabrik dlya obogashcheniya magnetitovykh rud)

PERIODICAL: Obogashcheniye rud, 1956, Nr 5, pp 53-58; Nr 6, pp 36-47

ABSTRACT: An effort is made to generalize the data on new foreign mills for the dressing of lean magnetite ores. The magnetite ores dressed at mills in Silver Bay and Erie (U.S.A.) and at Sydvaranger, Norway, are quartzites low in Fe similar to the lean magnetitic quartzite ores of the Krivoy Rog basin. The chemical composition of these ores is presented, as is a dressing flowsheet envisaging 2-stage concentration, the 1st stage yielding tailings only, and the 2nd tailings and concentrate. However, the flowsheet of the mill at Marmora, Canada, which treats ore coarsely disseminated with gangue minerals differs from those of the former 3 by the fact that it provides for dry magnetic concentration of the large classes of ore with the purpose of separating the coarsely disseminated gangue.

Card 1/2

SOV/137-57-10-18586

Features of Foreign Mills for the Dressing of Magnetite Ores

Approximate production indices are given for the work of these mills and data on the consumption of electrical energy and water per t initial ore, consumption of rods and balls, lining, and oil for the drying of 1 t of concentrate. The equipment of the mills is described and its performance characteristics are adduced. A plan and profile of the coarse crushing department, a longitudinal section through the medium crushing department, and a plan and profile of the main building at the Eric mill are presented.

S.M.

Card 2/2

FADKIN, Vasilii Ivanovich; PEROV, V.A., nauchnyy red.; SALITA, Ye.G.,
red.; NIKOL'SKIY, D.A., retsezent; FRUMKIN, F.S., tekhn.red.

[Modern equipment for the crushing and comminution of ores]
Sovremennoe oborudovanie dlia drobleniia i izmel'cheniia rud.
Leningrad, 1959.241 p. (Leningrad. Nauchno-issledovatel'skii
i proektnyi institut mekhanicheskoi obrabotki poleznykh isto-
pamykh. Trudy, no.123). (NINA 13:7)
(Crushing machinery) (Ore dressing—Equipment and supplies)

DENISENKO, V. P. (Veterinary Doctor, Gvardeiskii District, Kaliningrad Oblast') and
NIKOL'SKIY, D. L. (Veterinary Doctor, City of Bogodukhov, Khar'dov Oblast').

"Sacral anesthesia in a Midwife's practice"...

Veterinariya, vol. 39, no. 8, August 1962 pp. 52

NIKOL'SKIY, N. N.

KL'YUKO, M.S.; GREBENYUK, A.I.; NIKOL'SKIY, D.H.; STANISLAVSKIY, N.A.,
insheuer, redaktor; BAYBAKOV, A.B., laureat Stalinskoy premii. inshe-
ner, rezensent.

[Calculation and design of gears, worm gears and reduction gears:
a handbook] Raschet i proektirovanie subchatykh i cherviachnykh
peredach i reduktorev; spravochnoe rukovodstvo. Kiev, Gos. nauchno-
tekhn. ind-vo mashinostroit. i sudostroit. lit-ry. [Ukr. etd-nis]
1953. 589 p. (MLRA 7:7)

(Gearing--Handbooks, manuals, etc.)

NIKOLSKIY, E.M., professor, doktor tekhnicheskikh nauk

Method of successive approximation (method of Shverts) as a theoretical foundation for dimensioning of railroad car bodies with closed shell-like frames. Acta techn Hung 41 no.1/2:91-106 '62.

1. Institut transportnoye mashinostroyeniya, Bryansk.

PENIONZHKEVICH, E. E.; POLETSKIY, V. A.; NIKOLSKIY, E. S.

"Effect of Heterogeneous Blood on Recipient's Organism
under Vegetative Hybridization of Farm Poultry"

Report submitted for the Twelfth World's Poultry
Congress, Sydney, Australia 10-18 Aug 1962

S/169/62/000/009/028/120
D228/D307

AUTHORS: Voronin, Yu. A., Nikol'skiy, E. V. and Trigubov, A. V.

TITLE: One way of calculating head waves associated with curvilinear interfaces

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 28, abstract 9A187 (Geologiya i geofizika, no. 1, 1962, 135-143)

TEXT: The range of applicability of the approximate method suggested by S. A. Fedotov (RZhGeofiz, no. 2, 1968, 954) for calculating the intensity of head waves, formed at a curvilinear interface, is discussed. The method is based on the use of the radial method's formulas, derived for head waves in the case of flat boundaries, the divergence arising at the expense of the boundary's curvature being additionally taken into account. The length of the head wave ray resting on the boundary is replaced by that of the corresponding section of the curved boundary. It is pointed out that the method is inapplicable, when there are corner points at the bound- ✓

Card 1/2

VORONIN, Yu.A.; NIKOL'SKIY, E.V.; TRIGUBOV, A.V.

Difference hodographs of the head wave for a circular interface.
Geol. i geofiz. no.11:74-85 '62. (MIRA 16:3)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk. (Hodograph) (Seismic waves)

NEDASHKOVSKIY, I.Yu.; NIKOL'SKIY, E.V.; POTAP'YEV, S.V.

Testing the methodology of transformed head waves for studying
the Paleozoic basement in the southern part of the West Siberian
Plain. Trudy Inst. geol. i geofiz. Sib. otd.AN SSSR no.16:
113-134 '62. (MIRA 16:9)
(West Siberian Plain—Seismic prospecting)

NIKOL'SKIY, E.V. (Novosibirsk)

Reflection of plane elastic waves from an arbitrary inhomogeneous layer in the case of normal incidence. PMTF no.4:
66-74 J1-Ag '64. (MIRA 17:10)

ACC NR: AT6005064

(N)

SOURCE CODE: UR/0000/65/000/000/0190/0204

AUTHOR: Nikol'skiy, E. V.

ORG: none

TITLE: Solving the direct and inverse problems of seismic waves in a one-dimensional medium in the case of normally incident plane waves

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki. Metodika seysmorazvedki (Methods of seismic prospecting). Moscow, Izd-vo Nauka, 1965 190-204

TOPIC TAGS: seismic modeling, mathematic model, seismic prospecting, seismogram interpretation, seismic wave, *SHOCK WAVE REFLECTION*

ABSTRACT: The effects produced by repeated multiple reflections within an inhomogeneous layer are discussed. In seismic prospecting, there are two closely related problems to be dealt with in interpreting a total wave field: 1) theoretical calculation of the total wave field in models of media with arbitrary parameters; and 2) methods for interpreting the total wave field probably differing from methods used previously which were based on separation of the wave field into different types of waves. The present article deals chiefly with the first problem. Exact and approximate methods for computing the total wave field of a plane wave reflected from an arbitrary inhomogeneous layer are discussed. It is assumed in the direct (first) problem for media in which drops in wave resistance are small (not more than three) that the total field of the reflected wave can be replaced by the

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ACC NR: AT6005064

field of a wave reflected once, i.e., multiple reflections within an inhomogeneous layer can be neglected. Limiting the investigation to waves reflected only once within the layer introduces an error of not more than 10% of the total wave field. This assumption is extended to the approximate solution of the inverse problem. If the total field of a reflected wave is regarded as the field of a reflected once wave and the inverse problem is solved on that assumption, the velocity profile obtained in this way will closely approximate the original profile. This proposition is supported by computed results. It is concluded that a complex model can be represented by a set of layers in which wave resistance can be described as a linear function of depth; an algorithm for determining the weighting function is given for this case. A formula is also given for determining the frequency response of the medium; a different scheme is given for cases in which multiple reflections within the layer must be considered in the direct problem. Orig. art. has: 29 formulas, 6 figures, and 3 tables.

SUB CODE: 08/ SUBM DATE: 30Sep65/ ORIG REF: 008/ OTH REF: 003

Card 2/2

INT(1)/ETC/...

ACCESSION NR: AP5018194

UR/0207/65/000/003/0065/0067

AUTHOR: Nikol'skiy, E. V. (Novosibirsk)

TITLE: Reflection of plane unsteady waves from an arbitrary nonhomogeneous half-space. Acoustic case

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1965, 63-67

TOPIC TAGS: wave propagation, plane wave, acoustic wave, wave reflection, Cauchy problem, self similar solution

ABSTRACT: The propagation of a plane unsteady wave at fixed angle α_0 relative to a half-space is discussed, with parameters as arbitrary function of a single coordinate x . Let the x -axis divide the two half-spaces 1 and 2 (see Fig. 1 or the Enclosure) such that 1 is homogeneous and 2 is nonhomogeneous. At any given time t three wave fronts exist: a) plane front of oncoming wave, b) plane front of reflected wave, and c) curvilinear front of the refracted wave. It is assumed that each ray of the oncoming wave satisfies the Fermat principle $\int_{x_0}^x c(x) dx = \text{const} - \text{etc}$ and that the propagation process is self-similar with velocity $v^* = v_0 \cos \alpha_0$ along the x -axis such that the displacement U can be expressed by

End 1/4

1950-06-05

ACCOMMODATION NO: AP5016194

$U(x, y, z) = U(x, y)$ $(z = t - (x/c) \sin \alpha)$. The governing differential equations become

$$\begin{cases} \frac{\partial^2}{\partial x^2} (p(x) \frac{\partial U}{\partial x}) + \frac{\partial^2 U}{\partial y^2} + \frac{\partial^2 U}{\partial z^2} = p(x) \frac{\partial U}{\partial x} \\ \frac{\partial}{\partial z} (c(x) \frac{\partial U}{\partial z}) + \frac{\partial U}{\partial x} = c(x) \frac{\partial U}{\partial z} \end{cases}$$

To solve these equations three different methods are proposed, which consist of solving the equations

$$\sin \alpha (y) \frac{\partial^2 U_1(x, y)}{\partial x^2} + \cos \alpha (y) \frac{\partial^2 U_1(x, y)}{\partial y^2} + \frac{\partial U_1(x, y)}{\partial x} = 0,$$

$$U_1(x, y) = U_2(x, y) \sin \alpha (y)$$

$$U_2(x, y) = U_3(x, y) \cos \alpha (y)$$

or

$$\frac{\partial^2 U_1(x, y)}{\partial x^2} + 2p(x) \frac{\partial U_1(x, y)}{\partial x} + \frac{\partial^2 U_1(x, y)}{\partial y^2}$$

with some auxiliary conditions. The reflected wave is expressed by the continuous

Card 2/4

ENCLOSURE: 11

COMMUNICATION BR: AF5018194

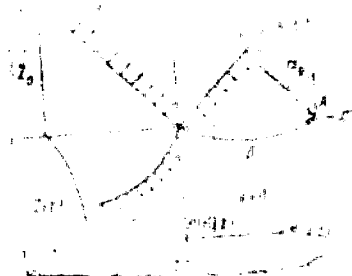


FIG. 1

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ACCESSION NR: AP5018194

Function $f(t)$ which for a piece-wise continuous $p(t)$ can be divided into continuous and discontinuous components U_1 and U_2 \dots For f given by \dots an approximate solution is constructed for the wave field by letting $\xi = k \Delta \xi$ and $\tau = n \Delta \tau$ and $\Delta \xi = \Delta \tau$. Orig. art. has: 34 equations and 1 solution.

ASSOCIATION: none

SUBMITTED: 02Aug63

ENCL: 01

SER CODE: GP

TO RDP NOV: 002

OTHER: 001

KONONYUK, B.I., kand.ekonom.nauk; NIKOL'SKIY, F., kand.fator.nauk

Special features in the postwar development of fuel and
power engineering bases in the German Federal Republic.
Teploenergetika no.4:86-90 Ap '60. (MIRA 13:6)
(Germany, West--Fuel)

44036

S/560/62/000/014/008/011
A001/A101

3.5110

AUTHORS: Kondrat'yev, K. Ya., Gayevskaya, G. N., Nikol'skiy, G. A.

TITLE: The vertical profile of radiation balance and its components in the free atmosphere in day-time

SOURCE: Akademiya nauk SSSR, Iskusstvennyye sputniki Zemli. no. 14, 1962, 86 - 94

TEXT: The authors describe a set of day-time measurements of radiation balance and its components and their studies of the structure and composition of the atmosphere (temperature, pressure, humidity, ozone content), troposphere and stratosphere. A special automatic equipment for lifting by a balloon was designed. This set of equipment makes it possible to perform continuously measurements and recording of summary, direct solar and reflected radiation, radiation balance and total ascending radiation flux, total ozone content, temperature, humidity and pressure of air, and temperature of actinometric and recording devices. Standard Yanishevskiy's pyranometers and balance-meters are used. The instruments are described and the method of recording the results is indicated. Two ascents were

Card 1/2

ACCESSION NR: AT4033372

S/2960/63/000/002/0113/0126

AUTHOR: Badinov, I. Ya.; Gal'tsev, A. P.; Nikol'skiy, G. A.

TITLE: The spectroscopic method for the integral determination of the water vapor content in a column of the atmosphere

SOURCE: Leningrad. Universitet. Problemy* fiziki atmosfery*, no. 2, 1963, 113-126

TOPIC TAGS: meteorology, atmospheric physics, water vapor, atmospheric heat regime

ABSTRACT: No instrument has yet been developed which can be used to determine the water vapor content accurately in a column of the atmosphere; an instrument has been developed which is superior to previous instruments used for this purpose. The principle of operation is measurement of the ratio of intensities in two sectors of the solar spectrum. One part of the spectrum is selected in the absorption band of water vapor and the other outside the band, but as close as possible to the first (0.94 μ and about 0.88 μ). The instrument employs a compensation method of measurement involving the equalization of two light fluxes passing through light filters onto two identical receivers. Fig. 1 of the Enclosure shows the optical system of the instrument. The theory of the instrument is described briefly. Experimental measurements have shown that it can be used to determine the total content of water vapor with an accuracy to 4-5%. Construction of the calibration curve
Card 1/3

ACCESSION NR: AT4033372

requires use of extensive radiosonde data. Measurements can be made almost continuously since the time required for one measurement is less than one minute. The instrument can be used under any conditions because it is small, weighs only 600 g and is of simple design. Orig. art. has: 7 formulas and 9 figures.

ASSOCIATION: Leningradskiy universitet (Leningrad University)

SUBMITTED: 00

DATE ACQ: 23Apr64

ENCL: 01

SUB CODE: AS

NO REF SOV: 007

OTHER: 006

Card 2/3

ACCESSION NR: AP4009627

S/0293/63/001/003/0448/0459

AUTHOR: Kondrat'yev, K. Ya.; Gayevskaya, G. N.; Nikol'skiy, G. A.

TITLE: Balloon based studies of radiation balance in the Earth's surface-atmosphere system

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 3, 1963, 448-459

TOPIC TAGS: radiation balance, atmosphere, actinometric measurement, weather balloon, balloon based measurement, radiation balance profile, radiation balance analysis, meteorology

ABSTRACT: Standard actinometric measurements (radiation flux, loop oscillograph N-700, continuous recording; air temperature, platinum resistance thermometer; radiation detector temperature, thermocouple; air pressure, atmospheric pressure counter of the radio-sounding equipment) were taken during 11 ascents of free balloons between June 7, 1961 and Nov. 22, 1962 to a maximum altitude of approximately 30 km. Vertical profiles were compiled for the radiation balance and its components for summer and fall seasons. Analysis of the obtained data indicates that the sharpest variations occur in the lower atmospheric layer, which stretches to an altitude of 11 to 12 km in the summer and 8 to 9 km in the fall.

Card 1/2

ACCESSION NR: AP4008627

Short-wave balance ranged from 0.24 to 1.39 cal·cm⁻²·min⁻¹, total balance from 0.146 to 0.99 cal·cm⁻²·min⁻¹, across all measurements. Albedo fluctuated from 15 to 35% during summer measurements at maximum altitude. "In conclusion, the authors express their deep gratitude to I. V. Andreyev, N. M. Yevdokimova and S. V. Maryashkin for their participation in flight preparations and the processing of the data obtained." Orig. art. has: 10 graphs, 2 tables.

ASSOCIATION: None

SUBMITTED: 20Feb63

DATE ACQ: 30Jan64

ENCL: 00

SUB CODE: AS

NO REF SOV: 002

OTHER: 000

2/2

Card

BADINOV, I. Ya.; GAYEVSKAYA, G. N.; NIKOLSKIY, G. A.; FEDOROVA, M. F.

"Balloon investigations of radiation fluxes in the free atmosphere."
report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

17810-66 EWT(1) GM
ACC NR: AT6007607

SOURCE CODE: UR/2960/65/000/003/0018/0023

AUTHOR: Kondrat'yev, K. Ya.; Gayevskaya, G. N.; Mikol'skiy, G. A.

ORG: none

TITLE: The radiation balance of the atmosphere

SOURCE: Leningrad. Universitet. Problemy fiziki atmosfery, no. 3, 1965, 18-23

TOPIC TAGS: radiation balance, shortwave radiation, outgoing thermal radiation, effective radiation, direct solar radiation

ABSTRACT: The radiation balance of the atmosphere is the difference between the radiation balances of the earth's surface and atmosphere system and the balance of the ground. It is equal to the difference between the short-wave radiation absorbed in the atmosphere and the difference between the outgoing thermal radiation and the effective radiation of the ground. Both radiations forming the radiation balance of the atmosphere are variable in individual atmospheric layers, which causes the diurnal and seasonal changes in the balance. The mean annual radiation balance of the earth-atmosphere system is positive in the latitude belt with $\phi < 40^\circ$. The radiation balance of the ground is positive except at the polar caps. The diurnal rate of the atmospheric radiation balance is positive in the daytime and negative at night. The state of atmospheric radiation balance depends upon the balance character of individual atmospheric layers. Measurements in the summer of 1962 showed that the radiation

Cord 1/2

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Bx1

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L 09178-67 EWT(1) RH/GW
ACC NR: AF7002321

SOURCE CODE: UR/0362/66/002/004/0380/0393

AUTHOR: Kondrat'yev, K. Ya.; Nikol'skiy, G. A.; Yesipova, Ye. N. 3/

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: Balloon investigations of radiation fluxes in the free atmosphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, y. 2, no. 4, 1966, 380-393

TOPIC TAGS: solar radiation, meteorology

ABSTRACT: Data from four ascents of a group of actinometric instruments on high-level balloons have been used for the first time in an analysis of the character of the vertical profiles of the radiation balance and all its components (including fluxes of scattered radiation and long-wave radiation) in daytime at heights to 25-32 km. The method is described briefly and data are given illustrating the relation between the different components of the radiation balance. The authors discuss the results of computations of the radiation changes of temperature, revealing a considerable mutual compensation of the radiant fluxes of heat caused by short-wave and long-wave radiation. Data from measurements of direct solar radiation were used in computations of aerosol attenuation and analysis of the vertical profile of the aerosol component of the atmosphere. The following are analyzed separately: direct solar radiation, total radiation, scattered radiation, reflected radiation,

UDC: 551.521.12

Card 1/2

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L 09178-67

ACC NR: AF7002321

albedo, fluxes of long-wave radiation and the radiation balance, radiant heat flux, attenuation of direct solar radiation by an aerosol. For example, it was found that in summer the value of the aerosol component of attenuation of direct solar radiation was greater by a factor of approximately two than in the autumn and the atmosphere is more stratified. In autumn the principal maxima in the distribution of an aerosol are observed at heights of 2-3 and 15-18 km. In summer the maximum attenuation is at 1-2, 7-8, 10-12 and 18 km. In almost all the ascents above 24 km there was an appreciable increase of the aerosol concentration. Orig. art. has: 14 figures. [JPRS: 36,285]

SUB CODE: 04 / SUBM DATE: 19Oct65 / ORIG REF: 003 / OTH REF: 005

Card 2/2 not

GOSSE, N.P., inzh.; KISLUKHIN, S.V., inzh.; NIKOL'SKIY, G.A., inzh.;
POPOV, G.S., inzh.; SHAKHOVTSEV, V.I., nauchnyy red.; VACHER, A.A.,
red.; RUHOVA, A.P., red.; KOVAL'SKAYA, I.F., tekhn. red.; VINOGRADOV,
Ye.A., tekhn. red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Electric equipment and devices of motor vehicles; catalog and
reference book] Avtotraktornoe elektro-oborudovanie i pribory; katalog-
spravochnik. Moskva, TSentr.in-t nauchno-tekhn.informatsii mashino-
stroeniia. Pt.1. 1961. 371 p. (MIRA 14:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po koordinatsii
nauchno-issledovatel'skikh rabot. 2. Nauchno-issledovatel'skiy
eksperimental'nyy institut avtotraktornogo elektrooborudovaniya i
priborov (for Gosse, Kislukhin, Nikol'skiy, Popov). 3. Direktor Na-
uchno-issledovatel'skogo eksperimental'nogo instituta avtotraktornogo
elektrooborudovaniya i priborov (for Shakhovtsev).
(Motor vehicles—Electric equipment)

GOSSE, N.P., inzh.; KISLUKHIN, S.V., inzh.; NIKOL'SKIY, G.A., inzh.;
POPOV, G.S., inzh.; SHAKHOVITSEV, V.I., nauchnyy red.;
RUNOVA, A.P., red.; VAGNER, A.A., red.; ALEKSEYEVA, T.V.,
tekh. red.

[Electrical equipment and instruments for automobiles and
tractors; a reference catalog]Avtotraktornoe elektro-
oborudovanie i pribory; katalog-spravochnik. Moskva,
TsINTIMASH. Pt.2. 1962. 378 p. (MIRA 15:9)

1. Russia (1923- U.S.S.R.)Gosudarstvennyy komitet po koordi-
natsii nauchno-issledovatel'skikh rabot. 2. Nauchno-issledovatel'-
skiy eksperimental'nyy institut avtotraktornogo elektrooboru-
dovaniya i priborov (for Gosse, Kislukhin, Nikol'skiy, Popov).
(Tractors--Electric equipment)
(Automobiles--Electric equipment)

NIKOL'SKIY, G.B.

Biological bases for the salmon fishery of the Far East. Trudy
Okean. kav. 3:126-127 '58. (NINA 11:8)
(Soviet Far East--Salmon fishing)

NIKOL'SKIY, Georgiy Danilevich; KHOLSHENNIKOVA, Ye.V., red.; ONOFYKO,
H.G., tekhn.red.

[Pigeons] Golubi. Izd.2. Lenizdat, 1959. 41 p. (MIRA 12:6)
(Pigeons)

NIKOL'SKIY, Grigoriy Grigor'evich, kand. tekhn. nauk; POZHININ, Aleksandr
Panfilovich, inzh.; IVANOV-SKONNIKOV, P.V., inzh., red.; KUBRIYA,
M.M., tekhn. red.

[Vermiculite and its use in construction] Vermikulit i ego pri-
menenie v stroitel'stve. Leningrad, 1959. 17 p. (Leningradskii
dom nauchno-tekhnicheskoi propagandy. Otkryt peredovym opytom.
Seria: Stroitel'stvo promyshlennost', vyp. 13). (MIRA 13:4)
(Vermiculite)

S/081/61/000/022/048/076
B101/B147

AUTHORS: Nikol'skiy, G. G., Pozhmin, A. P.
TITLE: Testing of vermiculite, technology and use of vermiculite-
base concrete products
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 312 - 313
abstract 22K526 (Sb. "Stroit. materialy", L., 1961, 35 - 37)

TEXT: A method was devised for testing vermiculite of new deposits for its
utilizability for producing sound-absorbing and heat-insulating materials.
It was found possible to produce heat-insulating pieces without addition of
asbestos which is an expensive and rare material. Heat-insulating vermi-
culite-base materials containing no asbestos can be produced from a charge
to which foam is added for better workability. Only 75 - 150% water are
added to the charge. In this case, the workability of the mixture is
higher than with an addition of 15 - 20% of asbestos. The products are
formed at 0.1 kg/cm^2 and then dried according to the binder used. Subse-
quently they were treated in the autoclave or fired. The quality of these
products does not lag behind that of asbestos-containing products and their
Card 1/2 ✓

NIKOL'SKII, G.M.

RT-951 (The structure of solar corona on 25 February 1952) Struktura solnechnoi korony
25 fevralia 1952 g.

ASTRONOMICHESKII ŽURNAL, 30(3): 286-294, 1953.

NIKOL'SKIY, G.

Sun - Corona

Structure of the solar corona of February 25, 1952, according to photographs of the Chilean expedition of the Kiev Astronomical Observatory. Astron. tsir. No. 132, '52.

Monthly List of Russian Accessions, Library of Congress
June 1953. NRCL.

NIKOL'SKIY, G. M.

NIKOL'SKIY, G. M. --"Investigation of the Solar Corona which was Observed on 25 February 1952 and 30 June 1954." Min Higher Education USSR, Kiev State U ineni T. G. Shevchenko, Kiev, 1955 (Dissertation For the Degree in Physicomathematical Sciences)

SO: Knizhnaya letopis' No. 37, 10 September 1955

NIKOL'SKIY, G.H.

Structure of the solar corona on February 25, 1952. *Astron.sbur.* 30 no.
(KLEA 6:5)
3:286-294 Ky-Je '53).

1. Kievskiy gosudarstvennyy universitet imeni T.G. Shevchenko. (Sun--
Corona)

Studies the principal structural peculiarities of the corona by
utilizing a schematic drawing of the corona made according to negatives taken
during the expedition of the Kiev Astronomical Observatory to Chile. Discusses a
possible way to solve problems of the existence and stability of coronal forms.
Thanks to Prof S.K.Vsekhsvyatskiy for advice.

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NIKOLSKIY, G. M.

AID - P-237

Subject : USSR/Astronomy
Card : 1/1
Authors : Nikolskiy, G. M., and Ponomarev, Ye. A.
Title : A Remark on the Article of V. A. Krat "Dissipation of the Solar Corona and Corpuscular Radiation"
Periodical : Astron. zhur., v. 31, 2, 191-196, Mr - Ap 1954
Abstract : A general criticism of Krat's article in which the sources of several ideas expressed by the author are exposed and the names of the original authors cited. Unproved statements made by Krat, the authors think, may even damage the fundamental idea of the geoactive fluxes of the corona. 16 references (since 1939), 12 Russian.
Institution : Kiev State University
Submitted : No date

NIKOL'SKIY, G.M.

Photometry of the solar corona of February 25, 1952. *Astron.*
zhur. 31 no.4. 372-386 J1-Ag '54. (MIRA 7:8)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universite-
ta.
(Sun--Corona) (Photometry. Astronomical)

VSMKHSVIATSKIY, S.K.; NIKOL'SKIY, G.M.

Observations of the lunar eclipse of January 18/19, 1954. Astron.teif.
no.146:5-7 F '54. (MLRA 7:6)

1. Kafedra astronomii KGU. 2. Odesskaya Astronomicheskaya observatoriya.
(Eclipses, Lunar--1954)

NIKOL'SKIY, G.M.

NIKOL'SKIY, G.M.

Observations of the total solar eclipse of June 30, 1954, from
an airplane. Astron. tsir. no. 151:5-6 JI '54. (MLRA 8:3)

1. Ekspeditsiya kafedry astronomii Kievskogo Gosuniversiteta
(Kosolets). (Eclipses, Solar—1954)

NIKOL'SKIY G. M.

NIKOL'SKIY G. M.--"Investigation of the Solar Corona which was observed of 25 February 1952 and 30 June 1954." (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min Higher Education USSR, Kiev State U imeni T. G. Shevchenko, Kiev, 1955.

* Physicomathematical Sciences

30: Knizhnaya Letopis' No. 37, 10 September 1955.

NIKOL'SKIY, G.M.

AID P - 431

Subject : USSR/Astronomy
Card 1/1 Pub. 8, 10/16
Author : Nikol'skiy, G. M.
Title : Photometry of the Solar Corona February 25, 1952
Periodical : Astron. zhur., v. 31-4, 372-386, J1-Ag 1954
Abstract : A small equatorial instrument was used as a coronagraph with a clock movement and a yellow filter, and iso-photos and distribution of brightness obtained. Special attention is given to the NE streamer and its dissipation. Formulae, 12 graphs, 7 tables, 11 references.
Institution : Chair of Astronomy, Kiyev State University
Submitted : July 12, 1953

VSEKHOVYASHKIY, S.K.; NIKOL'SKIY, G.M.; PONOMAREV, Ye.A.; CHEREDNICHENKO,
V.I.

On the problem of corpuscular solar radiation. *Astron.sbornik* 32 no.2:
165-176 Nr-4p '55. (NASA 8:5)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universiteta.
(Solar radiation)

NIKOL'SKIY, G.M.

VSEKHEVYATSKIY, S.K.; NIKOL'SKIY, G.M.

Structure of the solar corona of June 30, 1954. *Astron. zhur.* 32
no. 4: 354-358 J1-Ag'55. (MIRA 8:10)

1. Kiyevskiy Gosudarstvennyy universitet, Kafedra astronomii
(Sun--Corona)