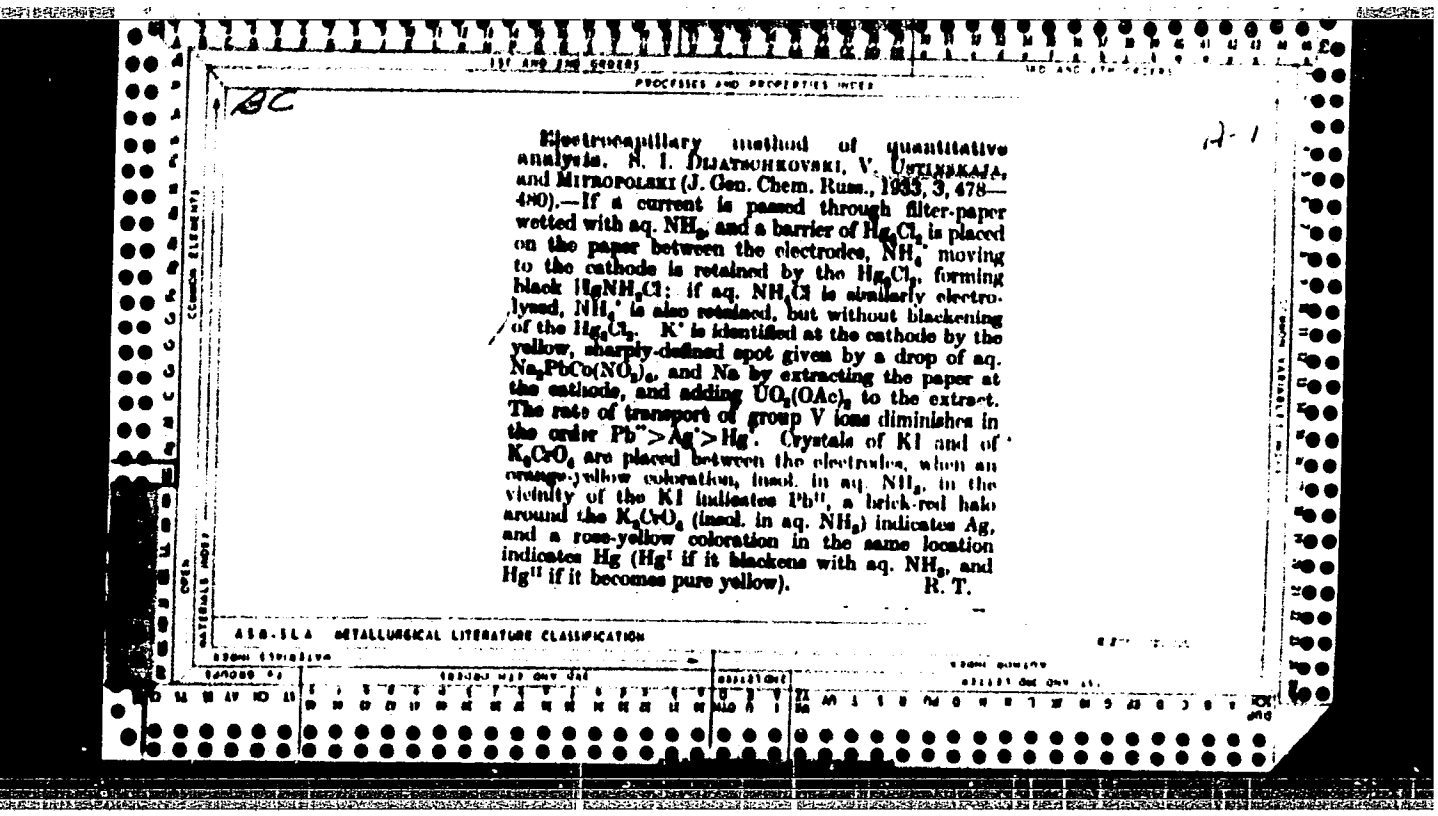
USTIN-PETROVA, T.F.

Epidemiology of tularemia in natural foci of Krasnodar Territory. Zhur. mikrobiol., epid. i immun. 40 no.4:117-122 Ap '63. (MIRA 17:5)

1. Iz Krasnodarskoy [illegible] skoy stantsii.



BC

Electrocapillary method of quantitative analysis. N. I. DJATSCHKOVSKI, V. USTINSKAJA, and MITROPOLSKI (J. Gen. Chem. Russ., 1935, 3, 478—480).—If a current is passed through filter-paper wetted with aq. NH_3 and a barrier of Hg_2Cl_2 is placed on the paper between the electrodes, NH_4^+ moving to the cathode is retained by the Hg_2Cl_2, forming black $HgNH_2Cl$; if aq. NH_4Cl is similarly electrolysed, NH_4^+ is also retained, but without blackening of the Hg_2Cl_2. K^+ is identified at the cathode by the yellow, sharply-defined spot given by a drop of aq. $Na_3PbCo(NO_2)_6$, and Na by extracting the paper at the cathode, and adding $UO_2(OAc)_2$ to the extract. The rate of transport of group V ions diminishes in the order $Pb^{"}>Ag^{'}>Hg^{'}$. Crystals of KI and of K_2CrO_4 are placed between the electrodes, when an orange-yellow coloration, insol. in aq. NH_3, in the vicinity of the KI indicates Pb^{II}, a brick-red halo around the K_2CrO_4 (insol. in aq. NH_3) indicates Ag, and a rose-yellow coloration in the same location indicates Hg (Hg^{I} if it blackens with aq. NH_3, and Hg^{II} if it becomes pure yellow). R. T.

A60-51A METALLURGICAL LITERATURE CLASSIFICATION

USTINSKAYA, V. I

USSR/Analytical Chemistry - General Questions G-1

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 8576

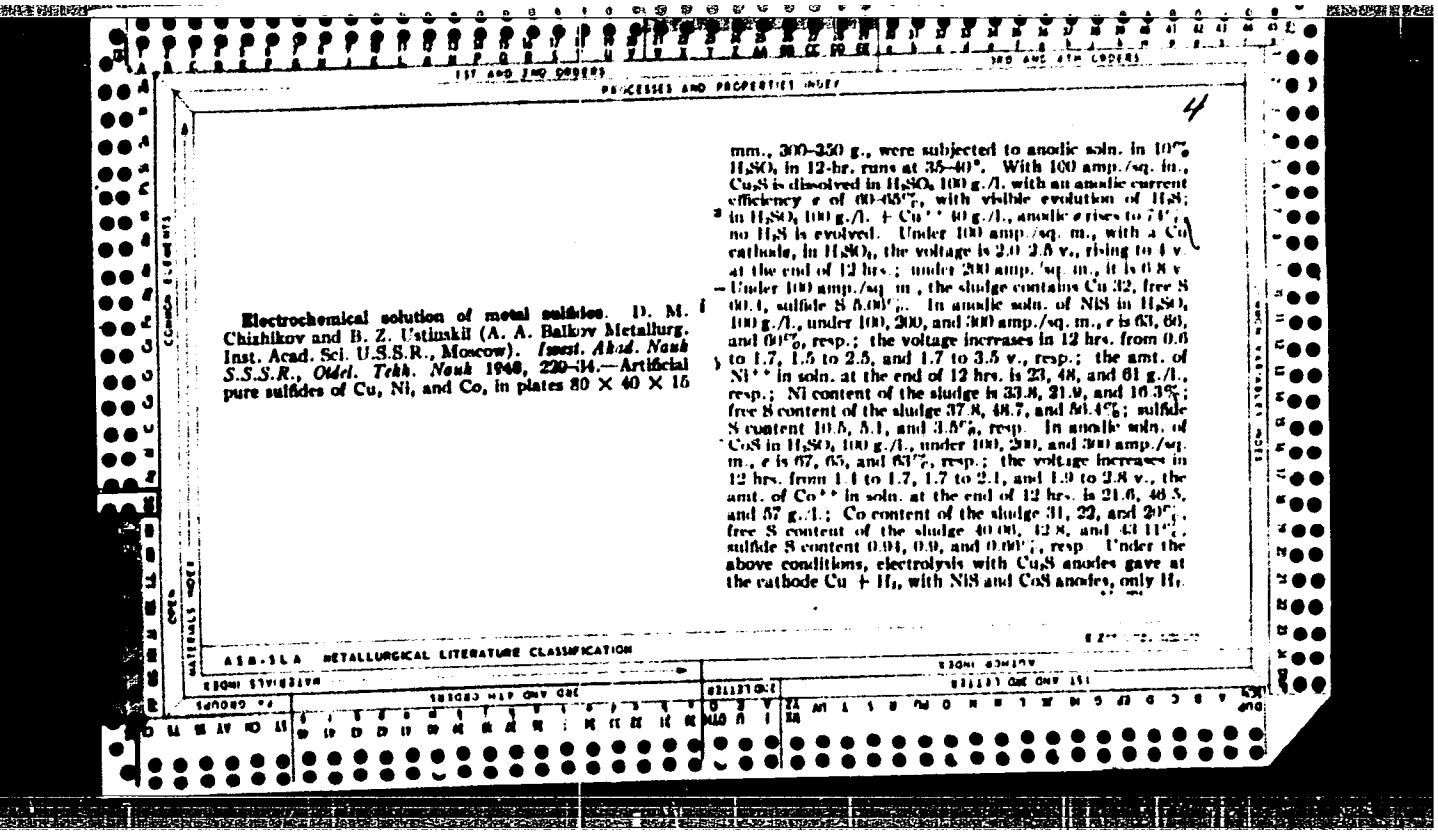
Author : Kniga, A. G. and Ustinskaya, V. I.
Ints : Leningrad Technical Institute of the Food Industry.
Title : Application of the Chromatographic Method to the Identification of Anions by Spot Tests

Orig Pub : Tr. Leningr. tekhnol. in-ta pishch. prom-sti, 1955, Vol 12, 253-257

Abstract : A method is described for the preparation of special sensitized papers suited for the identification of reducing ions and oxidizing anions. The Cl^- ion is easily identified using paper impregnated with Ag_2CrO_4. A specific spot test has been developed for the SO_4^{2-} ion in the presence of alkali and heavy metals.

Card 1/1 -8-

Electrolytic refining of Sn. S. A. Pletenev and B. S. Ustinskii. *Tsvetnaya Metal.* 16, No. 11/12, 49-51(1941); *Chem. Zentr.* 1943, I, 2727.—Crude Sn contg. up to 3% Pb can be effectively refined by electrolysis of a bath contg. Sn (as sulfate) 30, free H_2SO_4 110, sulfocresol 40 and glue 5 g./l. with 100 amp./sq. m. at 30°. (U. S. bath). The current efficiency is over 95% and energy consumption 300 kw.-hrs./metric ton Sn. With anodes contg. 1-1.5% Pb, passivity sets in after 12-15 hrs.; this is eliminated by mech. cleaning. At this Pb content, anode slime amounts to 4.0-4.5% by wt. of the cathode Sn and contains 25-30% Sn. Almost all anode impurities enter the slime. Addn. of chromates to the electrolyte loosens the slime and hinders passivity. H. W. Rathmann



PROCESSES AND PROPERTIES INDEX

4

Electrochemical solution of metal sulfides. D. M. Chizhikov and B. Z. Ustinskii (A. A. Baikov Metallurg. Inst. Acad. Sci. U.S.S.R., Moscow). *Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk* **1940**, 220–34.—Artificial pure sulfides of Cu, Ni, and Co, in plates 80 × 40 × 15 mm., 300–350 g., were subjected to anodic soln. in 10% H_2SO_4 in 12-hr. runs at 35–40°. With 100 amp./sq. m., Cu_2S is dissolved in H_2SO_4 100 g./l. with an anodic current efficiency e of 60–65%, with visible evolution of H_2S; in H_2SO_4 100 g./l. + Cu^{++} 40 g./l., anodic e rises to 70%, no H_2S is evolved. Under 100 amp./sq. m., with a Cu cathode, in H_2SO_4, the voltage is 2.0–2.5 v., rising to 4 v. at the end of 12 hrs.; under 200 amp./sq. m., it is 0.8 v. Under 100 amp./sq. m., the sludge contains Cu 32, free S 60.1, sulfide S 5.0%. In anodic soln. of NiS in H_2SO_4 100 g./l., under 100, 200, and 300 amp./sq. m., e is 63, 60, and 60%, resp.; the voltage increases in 12 hrs. from 0.6 to 1.7, 1.5 to 2.5, and 1.7 to 3.5 v., resp.; the amt. of Ni^{++} in soln. at the end of 12 hrs. is 23, 48, and 61 g./l., resp.; Ni content of the sludge is 33.8, 21.9, and 16.3%; free S content of the sludge 37.8, 48.7, and 56.4%; sulfide S content 10.5, 5.1, and 3.5%, resp. In anodic soln. of CoS in H_2SO_4 100 g./l., under 100, 200, and 300 amp./sq. m., e is 67, 65, and 63%, resp.; the voltage increases in 12 hrs. from 1.4 to 1.7, 1.7 to 2.1, and 1.9 to 2.8 v., the amt. of Co^{++} in soln. at the end of 12 hrs. is 21.6, 40.5, and 57 g./l.; Co content of the sludge 31, 22, and 20%, free S content of the sludge 40.00, 42.8, and 43.11%, sulfide S content 0.01, 0.9, and 0.09%, resp. Under the above conditions, electrolysis with Cu_2S anodes gave at the cathode Cu + H_2, with NiS and CoS anodes, only H_2.

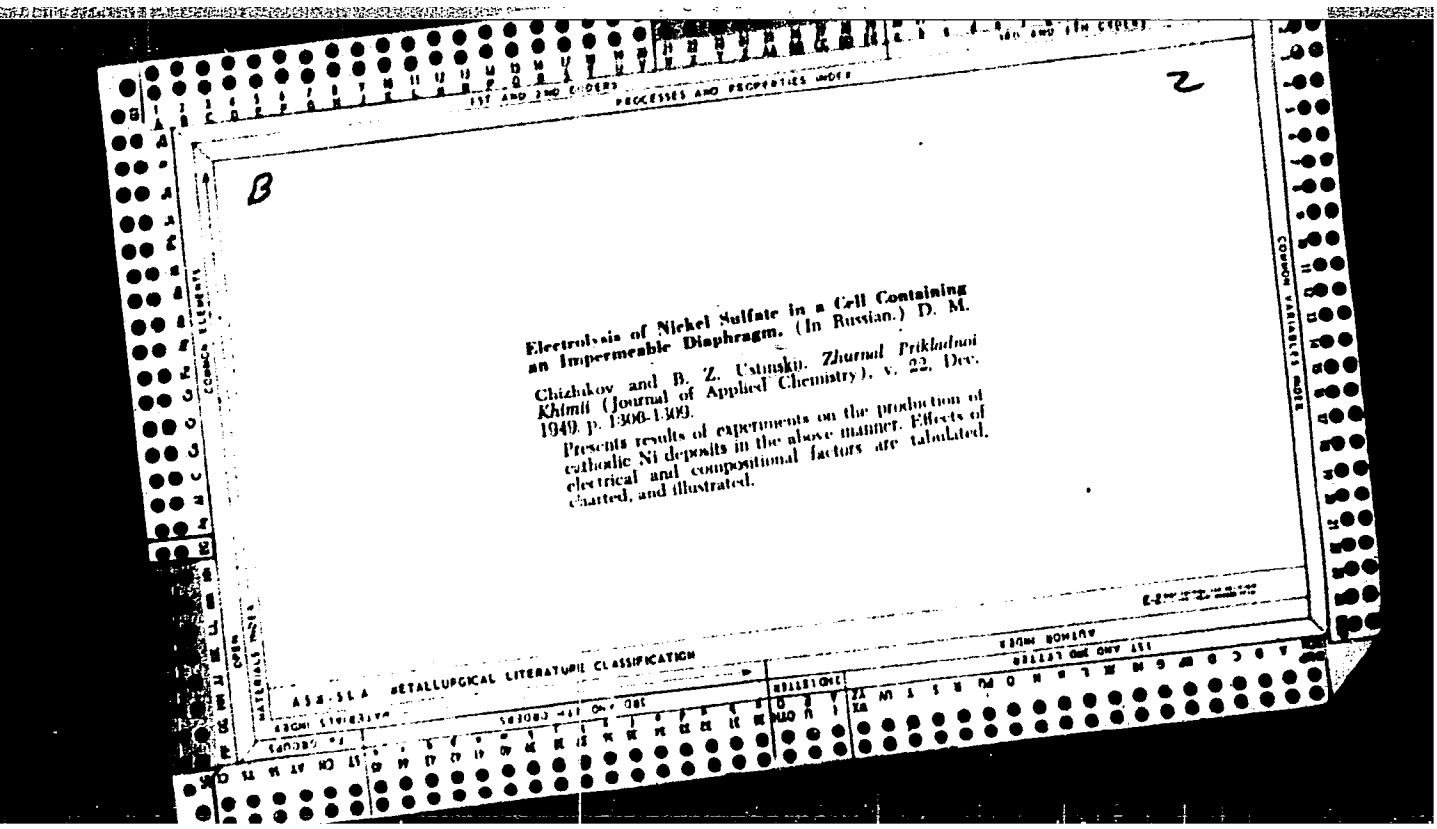
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA

4

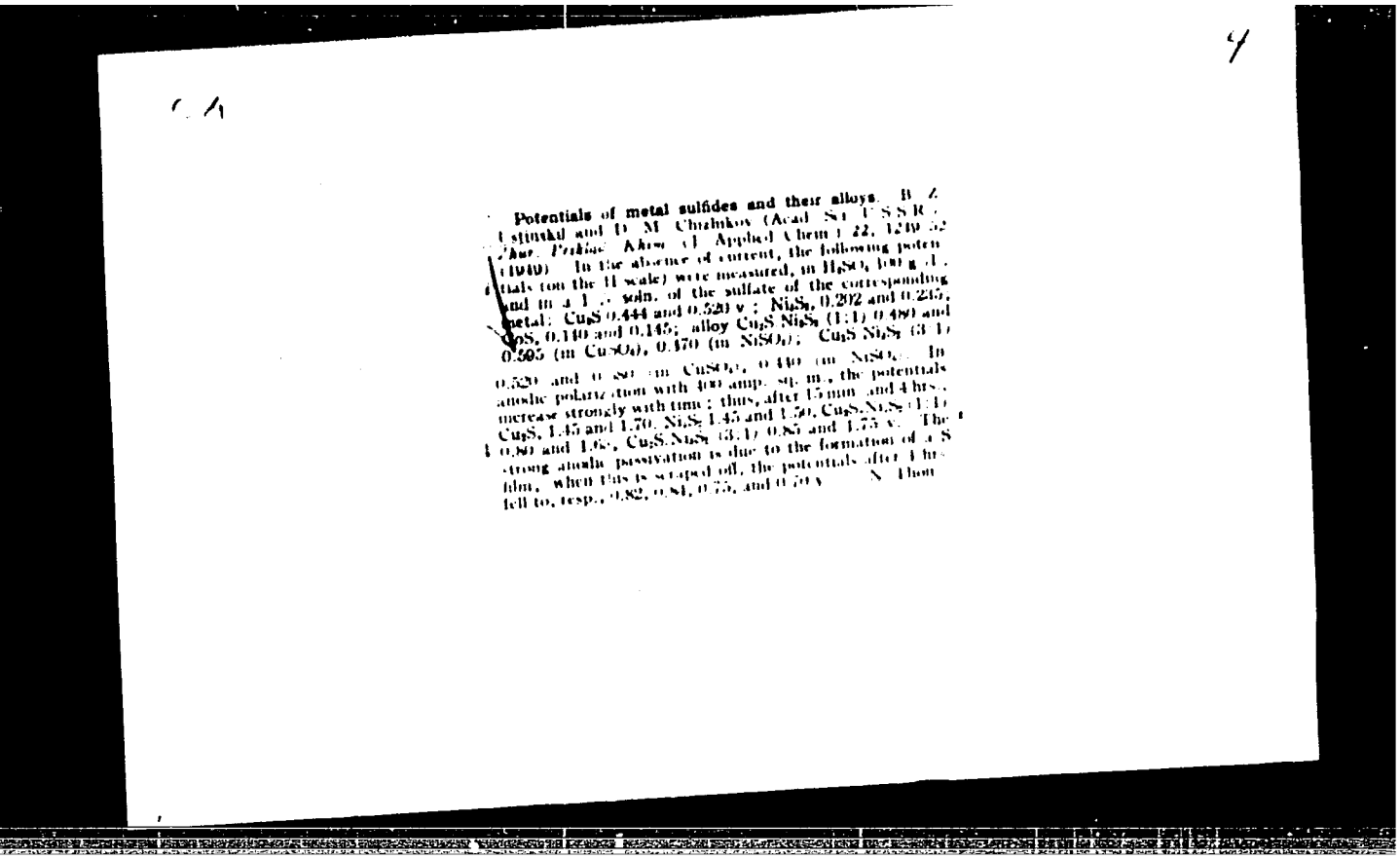
Electrochemical solution of sulfide alloys. D. M. Chizhikov and B. F. Ustinskii (Acad. Sci. U.S.S.R., Moscow). *Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk* **1949**, 1481-92.—Alloys of Cu_2S with Ni_3S_2 of the compns. (Cu, Ni, S, %) (I) 55.3, 31.0, 14.3, (II) 46.5, 32.4, 22.0, (III) 40.3, 40.6, 17.3, (IV) 00.7, 22.2, 17.7, (V) 10.5, 08.2, 19.0, (VI) 53.5, 24.3, 22.0, were attacked anodically in an electrolyte of 10% H_2SO_4 or 10% H_2SO_4 + 3% Cu (as $CuSO_4$), at 35-40°, c.d. 100-300 amp./sq. m. Photomicrographs of these alloys suggest a eutectic mixt. of 0.1 Cu_2S and 0.9 Ni_3S_2 distributed between grains of Cu_2S. The loss of wt. (per amp. hr. is higher the greater the content of free Cu_2S. Soln. of the components of the alloy is selective. In III, on the av., 55% of the elec. energy is spent on soln. of Ni, and 30% on soln. of Cu; in V, the corresponding figures are, approx., 68, and 12%, i.e. approx. proportional to the content of Ni and of Cu in the alloy which, in this instance, consists mainly of eutectic, with very little free Cu_2S; in VI, the corresponding av. figures are 32 and 50%. With that alloy, the final balance, at 100 amp./sq. m., is dissolved Cu 73.8, Ni 08.5%; passed into the sludge, Cu 20.2, Ni 1.5%. The balance with 300 amp./sq. m. is very similar. Thus, practically all of the Ni, and most of the Cu, goes into soln. The insol. scum remaining on the anode consists mainly of S. Selectivity of anodic soln. was observed also with polymetallic sulfide alloys of the compns. (Cu, Ni, Co, Fe, S): (VII) 33.0, 31.0, 2.9, 7.4, 23.3; (VIII) 15.3, 48.8, 3.5, 7.2, 25.9; (IX) 8.3, 55.8, 1.0, 10.4, 25.0; (X) 1.2, 58.0, 3.7, 5.6, 23.3. Metals with the least noble anodic soln. potential are dissolved first. Increase of the c.d. results in increased soln. of Cu, evidently owing to the increase of the anode potential. In VIII, at a c.d. of 200 amp./sq. m., the ratio of Cu:Ni dissolved was 1.7, and at 400 amp./sq. m., 1.4. The total current efficiency with respect to soln. of metals is 70-75%. The sludge corresponds to approx. 30% of the total loss of wt.; the content of S in the sludge increases with increasing c.d., and the metal content decreases.

N. Thon



Electrolysis of Nickel Sulfate in a Cell Containing an Impermeable Diaphragm. (In Russian.) D. M. Chizhikov and B. Z. Ustinskii. *Zhurnal Prikladnai Khimii* (Journal of Applied Chemistry), v. 22, Dec. 1949. p. 1300-1309.

Presents results of experiments on the production of cathodic Ni deposits in the above manner. Effects of electrical and compositional factors are tabulated, charted, and illustrated.



Potentials of metal sulfides and their alloys. B. A. Estimkul and D. M. Chizhikov (Acad. Sci. U.S.S.R.). *Zhur. Prikladnoi Khim. (J. Applied Chem.)* 22, 1249-52 (1949). In the absence of current, the following potentials (on the H scale) were measured, in H_2SO_4 but g. l., and in a 1 *N* soln. of the sulfate of the corresponding metal: CuS 0.444 and 0.520 v.; Ni_3S_2 0.202 and 0.235; NiS, 0.140 and 0.145; alloy Cu_2S-Ni_3S_2 (1:1) 0.480 and 0.595 (in $CuSO_4$), 0.470 (in $NiSO_4$); Cu_2S-Ni_3S_2 (3:1) 0.520 and 0.580 (in $CuSO_4$), 0.440 (in $NiSO_4$). In anodic polarization with 400 amp. sq. m., the potentials increase strongly with time; thus, after 15 min. and 4 hrs., Cu_2S, 1.45 and 1.70; Ni_3S_2 1.45 and 1.50; Cu_2S-Ni_3S_2 (1:1) 0.80 and 1.65; Cu_2S-Ni_3S_2 (3:1) 0.85 and 1.75 v. The strong anodic passivation is due to the formation of a S film, which this is stripped off, the potentials after 1 hr. fell to, resp., 0.82, 0.81, 0.75, and 0.70 v. N. Thon

PROCESSES AND PROPERTIES INDEX

Ca

30

Utilization of boiler steam in tannery laboratories. S. Troitskii and D. Ustinskii.—*Kozhevenno-Obuvnaya Prom.* 12, 115(1938); *Chimie & industrie* 39, 922.—A brief description of a simple arrangement of steam-heated equipment for tannery labs. A. Papineau-Couture

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

TANTSYURA, Aleksey Andronikovich; USTINSKIY, Aleksandr Andreyevich; UPENDIK-UMANSKIY, Grigoriy Makarovich; SMIRNOV, Boris Semenovich; Pogodin, A.M., inzhener, redaktor; YUDZON, D.M., tekhnicheskiy redaktor.

[Improved system of radio communication on trains using ZhR-1 radio stations] Usovershenstvovannaia sistema poezdnoi radiosviazi s primeneniem radiostantsii ZHR-1. Moskva, Gos.transp. zhel.-dor. izd-vo 1955. 143 p. (MLRA 8:11)
(Radio--Installation on trains)

USTINSKIY, A.A., kandidat tekhnicheskikh nauk; KOLOKOL'NIKOV, A.N., inzhener.

Using radio relay communication lines on the railroads. Tekh.zhel.dor. 15 no.2:19-20 Mr '56. (MIRA 9:7)
(Railroads--Communication systems)

USTINSKIY, A.A., kandidat tekhnicheskikh nauk; BERZIN, M.A., inzhener.

Radio equipment for trains with selector calls. Zhel.dor.transp.37 no.4:74-77 Ap '56. (MLRA 9:7)
(Railroads--Communication systems)

USTINSKIY, Aleksandr Andreyevich; STROGANOV, L.P., inzhener, redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Radio equipment with selective ringing for trains] Poezdnaia radiosviaz' s izbiratel'nym vyzovom. Moskva, Gos.transp. zhel-dor.izd-vo, 1957. 31 p. (MLRA 10:4)
(Railroads--Communication systems)

USTINSKIY, AA

PHASE I BOOK EXPLOITATION 381

Ramlau, Pavel Nikolayevich

Radiotekhnika (Radio Engineering) ed., 3rd rev. Moscow, Transzheldorizdat, 1957. 302 p. 13,000 copies printed.

Ed.: Stroganov, L. P., Engineer; Tech. Ed.: Bobrova, Ye. N., Reviewers: Ustinskiy, A. A., Candidate of Technical Sciences, Shevchuk, R. M., Docent, Candidate of Physico-Mathematical Sciences.

PURPOSE: The monograph is intended to serve as a textbook for courses in radio engineering as related to automation, telemechanics and communications at railroad institutes and is recommended as such by the Glavnoye upravleniye uchebnymi zavedeniyami Ministerstva putey soobshcheniya (Main Administration for Schools of the Ministry of Railroads).

COVERAGE: The textbook gives an account of the theoretical bases of radio engineering and describes transmitting and receiving systems, superhigh-frequency techniques and the fundamentals of television and radar.

Card 1/7

Radio Engineering

It is assumed that the student has taken a preliminary course in electronic and ionic devices. Sverdlichenko, D. Ya., a teaching assistant, has complied the numerical examples contained in the volume. Each chapter is followed by a list of references. In all, there are 40 references, all Soviet.

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Card 7/7

USTINSKIY, A.A., kandidat tekhnicheskikh nauk; KUKK, K.I., inshener.

Multichannel radio relay systems. Avtom.elem. i sviaz' no.7:9-14 Jl '57. (MLRA 10:8)

(Radio relay systems)

KUKK, K.I., inzh.; USTINSKIY, A.A., kand.tekhn. nauk

Receiving and transmitting equipment of a radio relay line. Avtom., telem. i sviaz' 2 no.5:5-9 My '58. (MIRA 11:5)
(Radio relay systems)

BRYLEYEV, A.M., doktor tekhn.nauk, prof.; USTINSKIY, A.A., kand.tekhn.nauk; PUGIN, D.K., kand.tekhn.nauk; KHUDOV, V.N., inzh.

Use of radio channels in the automatic traffic control systems for railroad sections. Vest.TSNII MPS 18 no.8:9-14 D '59. (MIRA 13:9)

(Railroads--Automatic train control)
(Railroads--Communication systems)

BUNIN, Dmitriy Anatol'yevich; KOLOKOL'NIKOV, Aleksandr Nikolayevich; LISENKOV, Viktor Mikhaylovich; SERGEYEV, Ivan Sergeyevich; SOKOLOV, Viktor Fedorovich; USTINSKIY, Aleksandr Andreyevich; GRIGOR'YEV, N.I., inzh., retsenzent; NOVIKAS, M.N., inzh., red.; KHITROV, P.A., tekhn.red.

[Radio-relay communication in railroad transportation] Radio-releinaia sviaz' na zheleznodorozhnom transporte. Moskva, Vses. izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 270 p. (MIRA 14:6)

(Railroads--Communication systems)

USTINSKIY, Aleksandr Andreyevich, kand. tekhn. nauk; BODILOVSKIY, Vasiliy Georgiyevich, inzh.; ROZENBERG, N.M., inzh., retsenzent; SOKOLOV, V.F., inzh., retsenzent; NOVIKAS, M.N., inzh., red.; KHITROCA, N.A., tekhn. red.

[Radio-relay communication in railroad transportation] Radiorelenaia sviaz' na zheleznodorozhnom transporte. Moskva, Transzheldorizdat, 1962. 330 p. (MIRA 15:6)
(Railroads--Communication systems)
(Radio relay systems)

USTINSKIY, A.A.; STEPANOV, V.Ye., starshiy inzh.; LYUBIMOV, A.V., inzh.; SHATOKHINA, A.A., inzh.; KOVGANKO, E.I., starshiy laborant

Measures for improving railroad radio communications with selective ringing. Avtom., telem. i svias' 6 no.3:21-25 Mr '62. (MIRA 15:3)

1. Rukovoditel' laboratorii provodnykh i radioreleynykh svyazey Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Ustinskiy).
2. Laboratoriya provodnykh i radioreleynykh svyazey Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Stepanov, Lyubimov, Shatokhina, Kovganko).

(Railroads--Communication systems)

PETROV, A.P., doktor tekhn. nauk, prof.; TULUPOV, L.P., kand. tekhn. nauk; KRYUKOV, N.D., kand. tekhn.nauk; GUNDOBIN, V.N., inzh.; VASIL'YEV, G.S., kand. tekhn. nauk; GRISHIN, M.S., kand. tekhn. nauk; MOROZOVA, K.N., inzh.; ROZE, V.A., inzh.; LEVSHIN, G.L., inzh.; BERNGARD, K.A., doktor tekhn. nauk, prof.; BIKCHENTAY, M.A., inzh.; BUYANOV, V.A., inzh.; ILOVAYSKIY, N.D., inzh.; MUKHAMEDOV. G.A., kand. tekhn.nauk; MIROSHNICHENKO, A.P., inzh.; ANDRIANOV, V.P., inzh.; BUTS, V.D., inzh.; KAZIMOV, A.A., inzh.; KIREYEV, O.P., inzh.; DYUFUR, S.L., kand. tekhn. nauk; USTINSKIY, A.A., kand. tekhn. nauk; MIKHAYLOV, S.M., inzh.; NESTEROV, Ye.I., kand. tekhn. nauk, retsenzent; LIVSHITS, V.N., inzh., retsenzent; PREDE, V.Yu., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Control of transportation processes using electronic digital computers] Upravlenie perevozochnym protsessom s primeneniem elektronnykh tsifrovykh vychislitel'nykh mashin. Pod obshchei red. A.P.Petrova. Moskva, Transzheldorizdat, 1963. 207 p. (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Petrov).
(Railroads--Management) (Electronic digital computers)

BODILOVSKIY, V.G.; RANSKIY, Ye.G., inzh., retsenzent; USTINSKIY, A.A., kand. tekhn. nauk, retsenzent; NOVIKAS, M.N., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Vacuum devices and transistors in automatic control, remote control, and communication systems] Elektrovakuumnye i poluprovodnikovye pribory v ustroistvakh avtomatiki, telemekhaniki i sviazi. Moskva, Transzheldorizdat, 1963. 391 p. (MIRA 17:2)

USTINOVSKIY, A.V., kandidat meditsinskikh nauk, (Moskva)

Basedow's disease and syphilis. Vest.ven. i derm. no.3:47-49 My-Je '55. (MLRA 8:10)

(HYPERTHYROIDISM, complications
syphilis)
(SYPHILIS, complications
hyperthyroidism)

USTINSKIY, B. Z.

USSR/ Chemistry - Electrochemistry
Chemistry - Sulfides, Metallic

"Dissolving Metallic Sulfides Electrochemically", D. M. Chizhikov, Corr Mem, Acad Sci USSR; B. Z. Ustinskiy, Inst Metal imeni A. A. Baykov, Acad Sci USSR, 6 pp

"Izv Akad Nauk SSSR, Otdel Tekh Nauk" No 2

Describes experiments giving methodical study of anode dissolution of synthetic sulfides of copper, nickel, and cobalt in acid electrolyte, and tabulates results.

PA 43/43T2

USTINSKIY, B. Z.

PA 161T102

USSR/Metals - Alloys, Sulfide
Electrochemistry

Oct 49

"Electrochemical Dissolving of Sulfide Alloys," D. M. Chizhikov, Corr Mem, Acad Sci USSR, B. Z. Ustinskiy, Inst of Metal imeni A. A. Baykov, 11pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 10

Describes conditions and results of electrochemical dissolving of copper-nickel and multimetallic sulfide alloys. Concludes, on basis of experimental data and analysis of phase diagram, that most complete solution of copper-nickel alloy is attained when latter consists of the eutectic or the crystals of nickel sulfide and eutectic.

PA 161T102

USTINSKIY, B. Z.

Chizhikov, D.M. I Ustinskiy, B.Z.

33919. Elyektrokhimichyeskoy Rastvoryeniye Sul'fidnykh Splavov. Izvyestiya Akad. Nauk SSSR, Otd-niye Tyekhn. Nauk, 1949, No 10, 1481-92.

SO: Letopis' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.

USTINSKIY, B.Z.

USSR

Electrolysis of nickel sulfate in a cell with a nonfiltering diaphragm. D. M. Chizhikov and B. Z. Ustinskii. *Zhur. Prikład. Khim.* 22, 1306–9(1949).—Electrolysis of $NiSO_4$ was carried out at 45–50° in a cell consisting of 2 concentric ceramic, unglazed cups with a Ni cathode and a Pb anode in the central and outside cups. The anolyte contained Na_2SO_4 + 10–60 g./l. H_2SO_4; the catholyte $NiSO_4$ + H_3BO_3 + KCl + variable concns. of H_2SO_4. With 40–60 g./l. H_2SO_4 in the anolyte, diffusion was sufficient to maintain acidity in the catholyte const.; otherwise it was made up by the circulation of a neutral or slightly acid soln. of $NiSO_4$ + H_3BO_3. Dense deposits of Ni were obtained from solns. of 3 g./l. H_2SO_4 with a c.d. of 250 amp./sq. m. and a current efficiency of 60–70%. The last was somewhat higher with 500–1000 than with 250 amp./sq.m. from a soln. contg. 12–15 g./l. H_2SO_4. I. Bencowitz

USTINSKIY, L. Z.

"Electrochemical Dissolving of Sulfides of Metals." Thesis for degree of Cand. Technical Sci. Sub 5 May 50, Metallurgical Inst imeni A. A. Baykov, Acad Sci USSR

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

USTINSKIY4B8

1. IOFA. Z.: USTINSKIY, B.: and EYMAN, F.

2. USSR (600)

"The Electrocapillary Curves of Concentrated Solutions of Acids", Zhur. Fiz Khim. 13, No. 7, 1939. Part II. "The Absorbtion of Ions in Solutions of HCl, HBr and H_2SO_4". MGU, Electrochemical Laboratory. Received 9 February 1939.

9. [redacted] Report U-1615, 3 Jan. 1952.

USTINSKIY, B.Z.

B-12

USSR/Physical Chemistry - Electrochemistry

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 3957

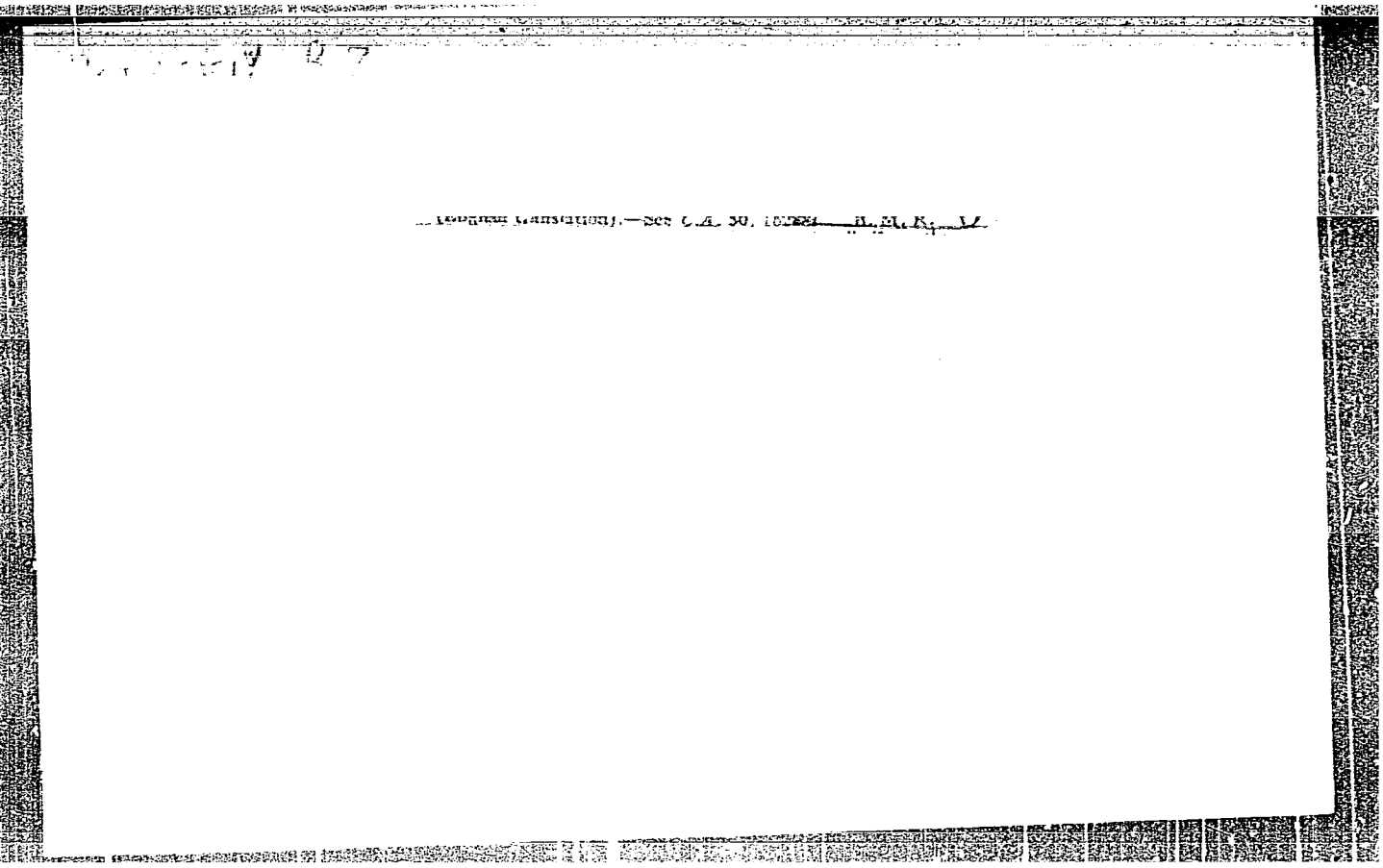
Author : Ustinskiy B.Z.
Title : Oxidation of Cobaltous Sulfate on Electrolysis

Orig Pub : Zh. prikl. khimii, 1956, 29, No 5, 799-801

Abstract : A solution of $CoSO_4$ (7.6 g/liter) + $NiSO_4$ (19.1 g/liter) + Na_2CO_3 was electrolyzed with a Pb anode and a Cu cathode, at 25 or 50° for 1 and 2 hours at i = 1000 a/m^2 (anode potential y = 1.66 v, by normal hydrogen electrode) and 2000 a/m^2 (y = 2.0 v). It was found that Co^{2+} is oxidized more completely at higher temperature and i. In the opinion of the author, there occurs at the anode first discharge of SO_4^{2-} anions, followed by oxidation of Co^{2+} by the evolved active oxygen; with a current density of 2000 a/m^2 a direct oxidation of Co^{2+} to Co^{3+} can also take place.

- 201 -

Card 1/1



USTINSKIY, B. Z.

B-12

USSR/ Physical Chemistry - Electrochemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11360

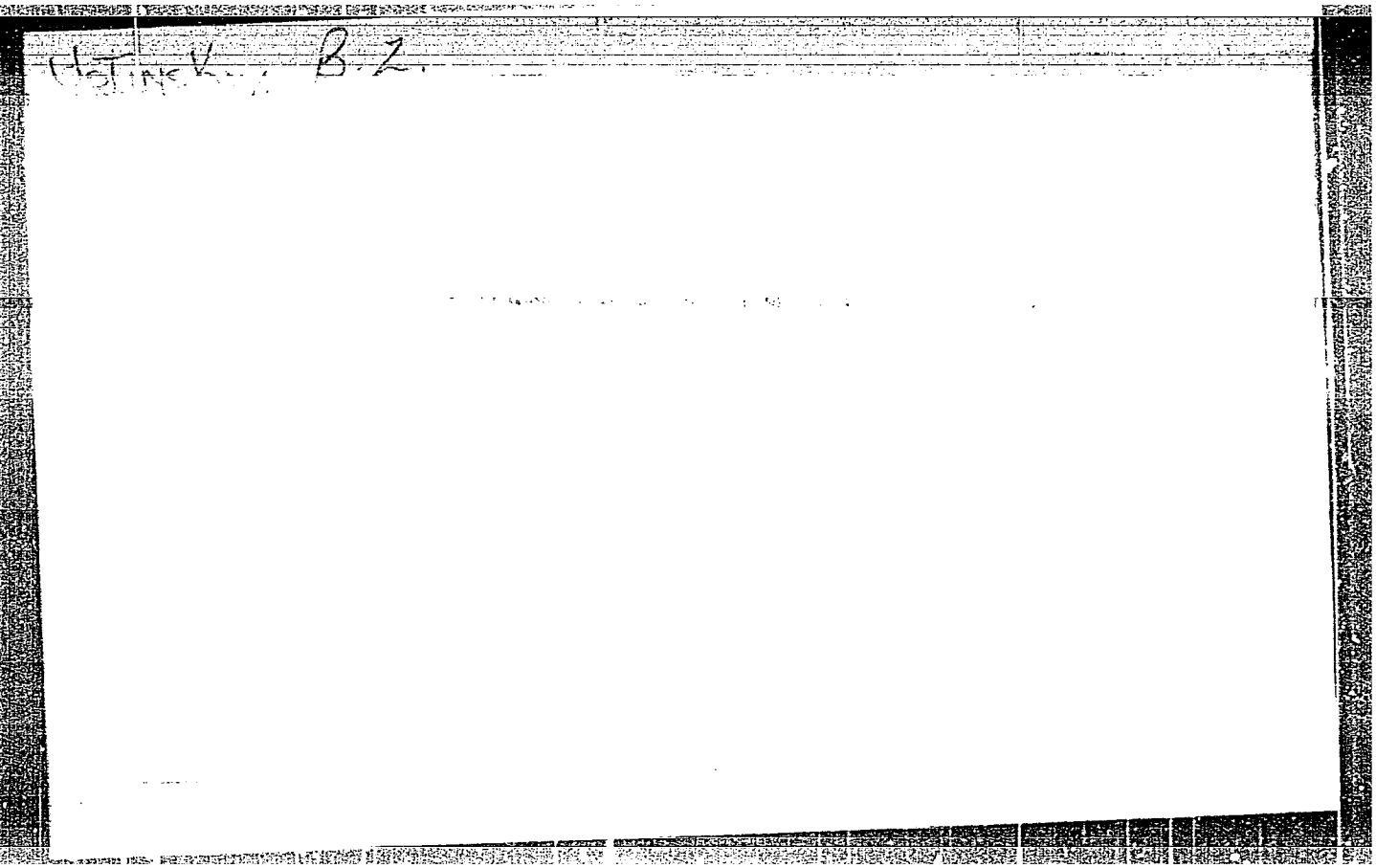
Author : Chizhikov D.I., Ustinskiy B.Z.
Title : Investigation of Anodic Polarization of Sulfides of Copper, Nickel and Some Allos of these Sulfides

Orig Pub : Zh. prikl. khimii, 1956, 29, No 7, 1129-1131

Abstract : In continuation of the authors' work (Zh. prikl. khimii, 1949, 22,12) an investigation was made of the dependence upon current density i and duration of electrolysis, of the potential φ of sulfide anodes having the following composition: Cu_2S; 75% Cu_2S + 25% Ni_3S_2; 50% Cu_2S + 50% Ni_3S_2; 25% Cu_2S + 75% Ni_3S_2; Ni_3S_2 in solution, 100 g/l H_2SO_4; 70 g/l H_2SO_4 + 30 g/l Ni^{2+}; 10 g/l H_2SO_4 + 60 g/l Ni^{2+}.

Aodes of Cu_2S + Ni_3S_2 alloys dissolve at less positive φ, than anodes of Cu_2S and Ni_3S_2 taken separately. Cu of Cu_2S passes in solution at more positive φ than Ni of Ni_3S_2. The conclusion is reached that with a low i there will be dissolved from Cu_2S + Ni_3S_2 alloys, first structural components (Ni_3S_2, crystals of eutectic 0.9 Ni_3S_2 + 0.1 Cu_2S), that have less positive φ.

1/1



USTINSKIY, B.Z.

137-1957-12-23295

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 63 (USSR)

AUTHORS: Chizhikov, D. M., Ustinskiy, B. Z.

TITLE: The Isotope Exchange of Sulfur in the Fusion of the Sulfides of Metals (Izotopnyy obmen sery pri splavlenii sul'fidov metallov)

PERIODICAL: Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 101-103

ABSTRACT: For the purposes of studying the isotope exchange, radioactive S in the form of a sulfide of Cu was employed. The radioactive sulfides of alloys were prepared by fusing together the radioactive Cu sulfide with Fe sulfide (at a temperature of 1200° and an exposure of 30 minutes) or of Ni (at 1000° with 30 minutes of exposure). The extraction of Fe sulfide from alloys of Fe and Cu sulfides, and of Ni sulfide from Ni and Cu sulfide alloys was accomplished by treatment with H_2SO_4 (50 g/lit) for different periods of time, namely, 30, 45, and 60 minutes. In the fusion process of the sulfide of Fe with the sulfide of Cu at 1200° during a time interval of 30 minutes, the isotope exchange was found to be 82 percent, whereas during the fusion of the sulfide of Ni with the sulfide of Cu at 1000°, during a period of 30 minutes, the isotope exchange was found to be 50-54 percent. G. S.

Card 1/1

1. Metal sulfides-Fusion 2. Sulfur-Isotope exchange

USTINSKIY, B.Z.

CHIZHIKOV, D.M.; USTINSKIY, B.Z.

Investigating the anodic polarization of sulfides of copper, nickel, and some alloys of these sulfides. Zhur.prikl.khim. 29 no.7:1129-1131 Jl '57. (MIRA 10:10)
(Sulfides) (Polarization (Electricity))

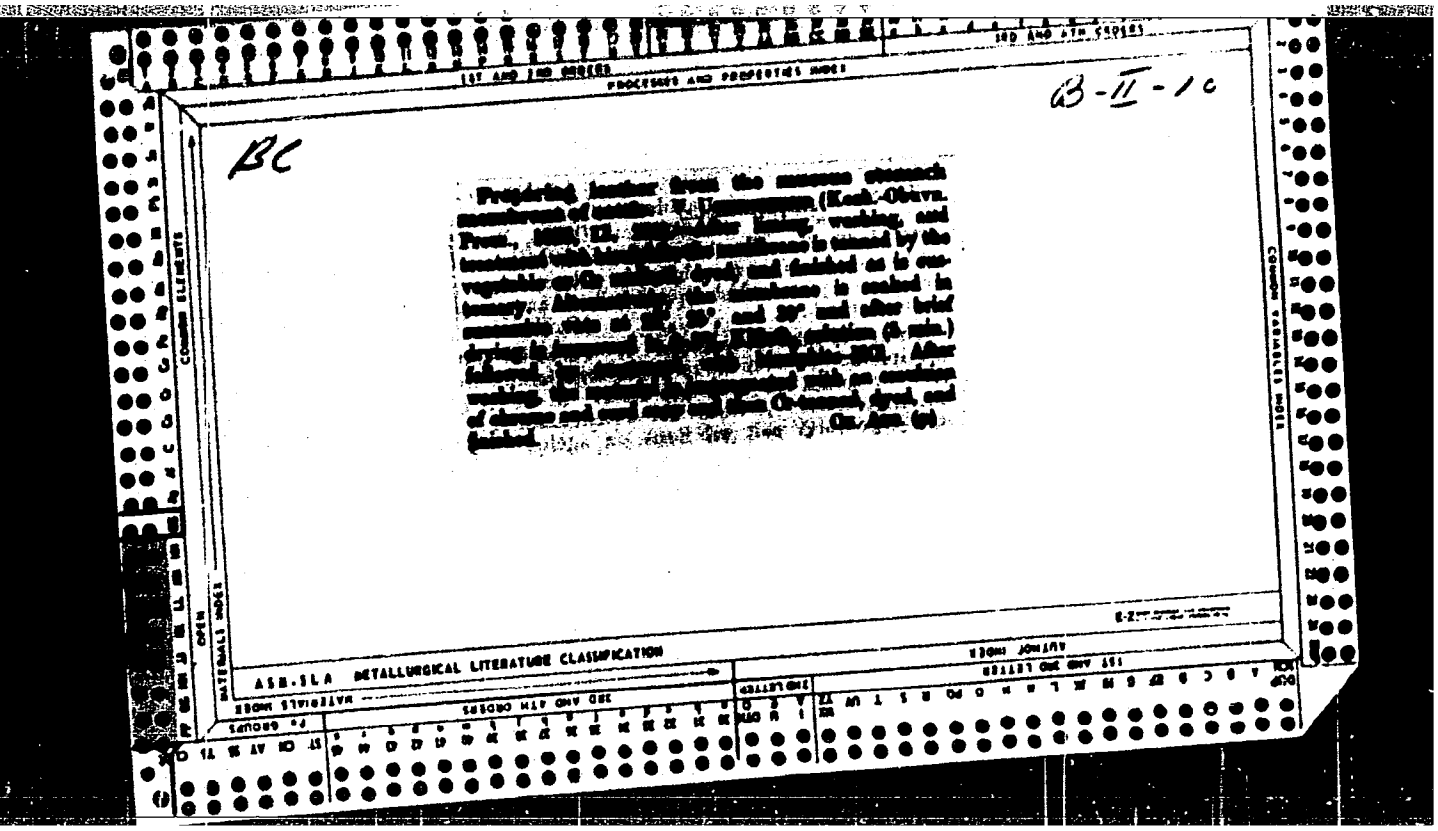
PLIGINSKAYA, L.V.; SKORDULI, N.V.; Prinimal uchastiye USTINSKIY, B.Z.

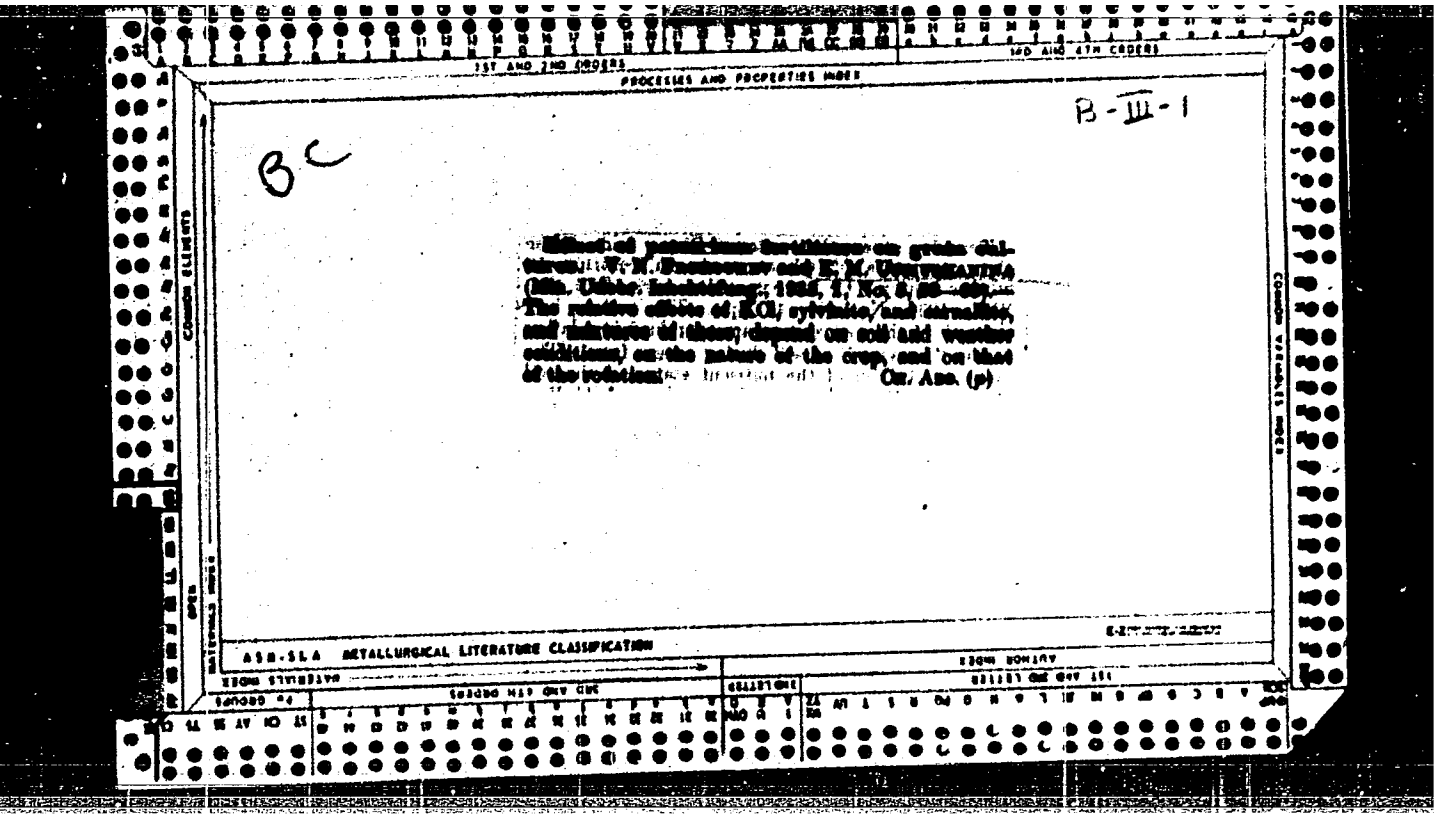
Obtaining high-purity cadmium by the electrolysis of aqueous solutions. Trudy Inst. met. no.11:65-70 '62. (MIRA 16:5)
(Cadmium--Electrometallurgy)

USTINYUK, S.; TARASEVICH, P.

Award and pay state pensions correctly. Fin. SSSR 23 no.7:46-48 Jl '62. (MIRA 15:7)

(Pensions)





ZLOBIN, Pavel Iosifovich; USTIYANTS, R.A., red.; MELENT'YEV, A.M., tekhn.red.

[Accounting for capital investments and their financing; based on the builder's balance] Uchet kapital'nykh vlozhenii i ikh finansirovaniia; na balanse zastroishchika. Moskva, Gos. stat.izd-vo, 1960. 171 p. (MIRA 13:7)
(Capital investments) (Construction industry--Accounting)

SHOL'TS, Sergey Vladimirovich; MARKOVICH, M.B., redaktor; USTIYANTS, V.A., redaktor; KAPRALOVA, A.A., tekhnicheskiy redaktor

[Agricultural statistics] Statistika sel'skogo khoziaistva. Moskva, Gos. stat. izd-vo, 1956. 239 p. (MLRA 10:4)
(Agriculture—Statistics)

USTIYANTS, V.A.

DATSKEVICH, M.F.; POTEKHIN, S.S.; ZIMIN, F.F.; POPOV, I.Ye.; RUSIN, P.M.; ANOKHIN, S.D.; NESTEROV, V.F.; FROLOV, V.A.; GRYAZNOV, V.A., red.; USTIYANTS, V.A.; KAPRALOVA, A.A., tekhn.red.

[Modernizing punched card calculating machines] Opyt modernizatsii schetno-perforatsionnykh mashin. Moskva, Gos. stat. izd-vo, 1957. 75 p. (MIRA 11:4)

1. Russia (1923- U.S.S.R.) Upravleniye "Soyuzmashuchet."
(Punched card systems)
(Calculating machines)

~~Author: A.~~ USTIYANTS, V.A.

BRYZGALIN, Nikolay Fedorovich; USTIYANTS, V.A., red.; MILOV, A.A., red.; MULIKOVA, I.F., tekhn.red.

[Practices of machine accounting in the petroleum industry] Opyt mekhanizatsii ucheta v neftianoi promyshlennosti. Moskva, Gos. stat. izd-vo, 1957. 115 p. (MIRA 11:4)
(Machine accounting)

USTIYANTS, V.A., red.; KAPRALOVA, A.A., tekhn. red.

[Mechanization of accounting and computing operations in industrial enterprises] Mekhanizatsiia ucheta i vychislitel'nykh rabot na promyshlennom predpriiatii; sbornik statei. Moskva, Gos. stat. izd-vo, 1957. 125 p. (MIRA 11:9)

1. Russia (1923- U.S.S.R.) Upravlenie "Soiuzmashuchet." (Calculating machines) (Accounting machines)

OFITSEROVA, Mariya Ivanovna; NIKOL'SKIY, N.K., red.; USTIYANTS, V.A., red.; KAPRALOVA, A.A., tekhn.red.

[Accounting on state farms] Bukhgalterskii uchet v sovkhozakh. Moskva, Gos.stat.izd-vo, 1958. 175 p. (MIRA 12:8)
(State farms--Accounting)

GRACHEV, Nikolay Grigor'yevich; USTIYANTS, V.A., red.; PYATAKOVA, N.D., tekhn. red.

[Statistical groups in studying the industrial economics of the U.S.S.R.] Statisticheskie gruppirovki v izuchenii ekonomiki promyshlennosti SSSR. Moskva, Gos. stat. izd-vo, 1958. 211 p. (MIRA 11:10)

(Industrial statistics)

NOVIKOV, V.S., otv.red.; RYABUSHKIN, T.V., red.; DZAPARIDZE, V.V., red.; BAKLANOV, G.I., red.; MAKSIMOVA, V.N., red.; KUZNETSOVA, T.M., red.; USTIYANTS, V.A., red.

[Statistical methodology in the study of labor productivity in the national economy of the U.S.S.R.; stenographic report of a conference held December 24-26, 1956 (reports, speeches in debate, and resolutions)] Statisticheskaia metodologiia izucheniia proizvoditel'nosti truda v narodnom khoziaistve SSSR; stenogramma nauchnoi konferentsii 24-26 dekabria 1956 g. (doklady, vystupleniia v preniiakh i reshenila). Moskva, Gos.stat.izd-vo, 1958. 382 p. (MIRA 12:3)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravleniye.
(Labor productivity) (Statistics)

USTIYANTS V.A.

EYDEL'MAN, M.R., kand.ekon.nauk, red.; USTIYANTS, V.A., red.; KAPRALOVA, A.A., tekhn.red.

[Manual on the divisions of statistics; statistics of population; health; culture; housing and communal economy; budgets of workers, employees and collective farmers; commerce; state purchases; capital construction; automotive transportation; accounting in village soviets] Uchebnoe posobie po otdel'nym otrasliam statistiki; statistika naseleniia, zdravookhraneniia, kul'tury, zhilishchnogo i kommunal'nogo khoziaistva, biudzhetov rabochikh, sluzhashchikh i kolkhoznikov, torgovli, zagotovok, kapital'nogo stroitel'stva, avtotransporta i pokhoziaistvennyi uchet v sel'sovetakh. Moskva, Gos.stat.izd-vo, 1958. 406 p. (MIRA 11:5)

(Statistics)

SAFRONOV, Ivan Andreyevich; ABANIN, Aleksandr Mikhaylovich; SHNAPIR, Shimen El'yev [deceased]; USTIYANTS, V.A., red.; MELENT'YEV, A.M., tekhn.red.

[Accounting for material values using the balance sheet method in manual and machine processing of documents] Uchet material'nykh tsennostei po operativno-bukhgalterskomu (sal'dovomu) metodu pri ruchnom i mekhanizirovannom sposobakh obrabotki dokumentov. Moskva, Gos.stat.izd-vo, 1959. 75 p. (MIRA 13:2)
(Accounting)

SELEZNEV, Sergey Ivanovich; MARGULIS, A.S., red.; USTIYANTS, V.A., red.; PYATAKOVA, N.D., tekhn.red.

[Accounting in industry] Bukhgalterskii uchet v promyshlennom predpriiatii. Moskva, Gos.stat.izd-vo, 1959. 233 p. (MIRA 12:10)

(Accounting)

KOZLOV, T.I., prof., doktor ekon.nauk, otv.red.; BREGEL', E.Ya., prof., doktor ekon.nauk, red.; BUKH, Ye.M., dotsent, kand.ekon.nauk, red.; ZHEBRAK, M.Kh., prof., doktor ekon.nauk, red.; ISAKOV, V.I., dotsent, kand.ekon.nauk, red.; FREYMUND, Ye.N., dotsent, kand. ekon.nauk, red.; SHEVCHUK, A.V., kand.ekon.nauk, red.; SHIFMAN, A.G., dotsent, kand.ekon.nauk, red.; SHCHAPINA, T.A., dotsent, kand.ekon.nauk, red.; USTIYANTS, V.A., red.; MELENT'IEV, A.M., tekhn.red.

[Problems in statistics and accounting; a collection of articles on machine accounting] Voprosy statistiki i ucheta; sbornik statei po mekhanizatsii ucheta. Moskva, Gos.stat.izd-vo. No.2. 1959. 350 p. (MIRA 13:6)

1. Moscow. Ekonomiko-statisticheskiy institut.
(Machine accounting)

MIN'KOVSKIY, Yefim Markovich; OVSYANNIKOV, N.N., red.; USTIYANTS, V.A., red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Calculating machines and their use in accounting] Schetnye mashiny i ikh ispol'zovanie v bukhgalterskom uchete. Moskva, Gosstatizdat TsSU SSSR, 1961. 247 p. (MIRA 15:2)
(Calculating machines)

ROMANOV, Boris Dmitriyevich; SAVOST'YANOV, D.D., red.; USTIYANTS, V.A., red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Operating features, design, and repair of VMP-2 and VMM-2 multi-keyboard calculating machines]Eksploatatsionnye svoistva, konstruktsiia i remont vychislitel'nykh mnogoklavishnykh mashin VMP-2 i VMM-2. Moskva, Gosstatizdat, 1962. 119 p. (MIRA 16:2)
(Calculating machines)

VINOKUROV, Petr Stepanovich; USTIYANTS, V.A., red.; IL'YUSHENKOVA, T.P., tekhn. red.; PYATAKOVA, N.D., tekhn. red.

[Maintenance of T-5 and T-5M tabulating machines]Tekhnicheskoe obsluzhivanie tabuliatorov T-5 i T5M. Moskva, Gosstatizdat, 1962. 391 p. (MIRA 16:4)
(Tabulating machines--Maintenance and repair)

SHAPIRO, I.L., red.; USTIYANTS, V.A., rod.

[Catalog of parts for the KEL, KELR, SAL, SASL, and SAR computers and for the AES and AESVe adding machines] Katalog detalei vychislitel'nykh mashin modelei KEL, KELR, SAL, SASL i SAR i summiruiushchikh mashin modelei AES i AESVe. Pod red. I.L.Shapiro. Moskva, Gosstatizdat, 1963. 140 p. (MIRA 17:6)

1. Russia (1923- U.S.S.R.) Upravleniye po organizatsii i mekhanizatsii ucheta.

KOKOTKIN, Vasiliy Ivanovich; PODGYPANIN, Arkadiy Ivanovich; SAVOST'YANOV, D.D.; SIVKOV, M.V.; SKUL'SKIY, S.I.; USAN, A.M., red.; USTIYANTS, V.A., red.

[Design and repair of calculating and punched card machines; perforators, controllers, and sorting machines] Konstruktsiia i remont schetno-perforatsionnykh mashin; perforatory, kontrol'niki i sortiroval'nye mashiny. Moskva, Gosstatizdat. Pt.1. 1963. 166 p. (MIRA 17:8)

USTIYANTS, V.A., red.; SHAPIRO, I.L., red.; IL'YUSHENKOVA, T.P., tekhn.red.

[Catalog of Ascot machine parts: types 170 and 110-115]
Katalog detalei mashin Askota; klassov 170 i 110-115. Pod red. I.L.Shapiro. Moskva, Gosstatizdat, Pt.1. 1963. 335 p.
(MIRA 16:8)

1. Russia (1923- U.S.S.R.) Upravleniye po organizatsii i mekhanizatsii ucheta.
(Accounting machines--Catalogs)

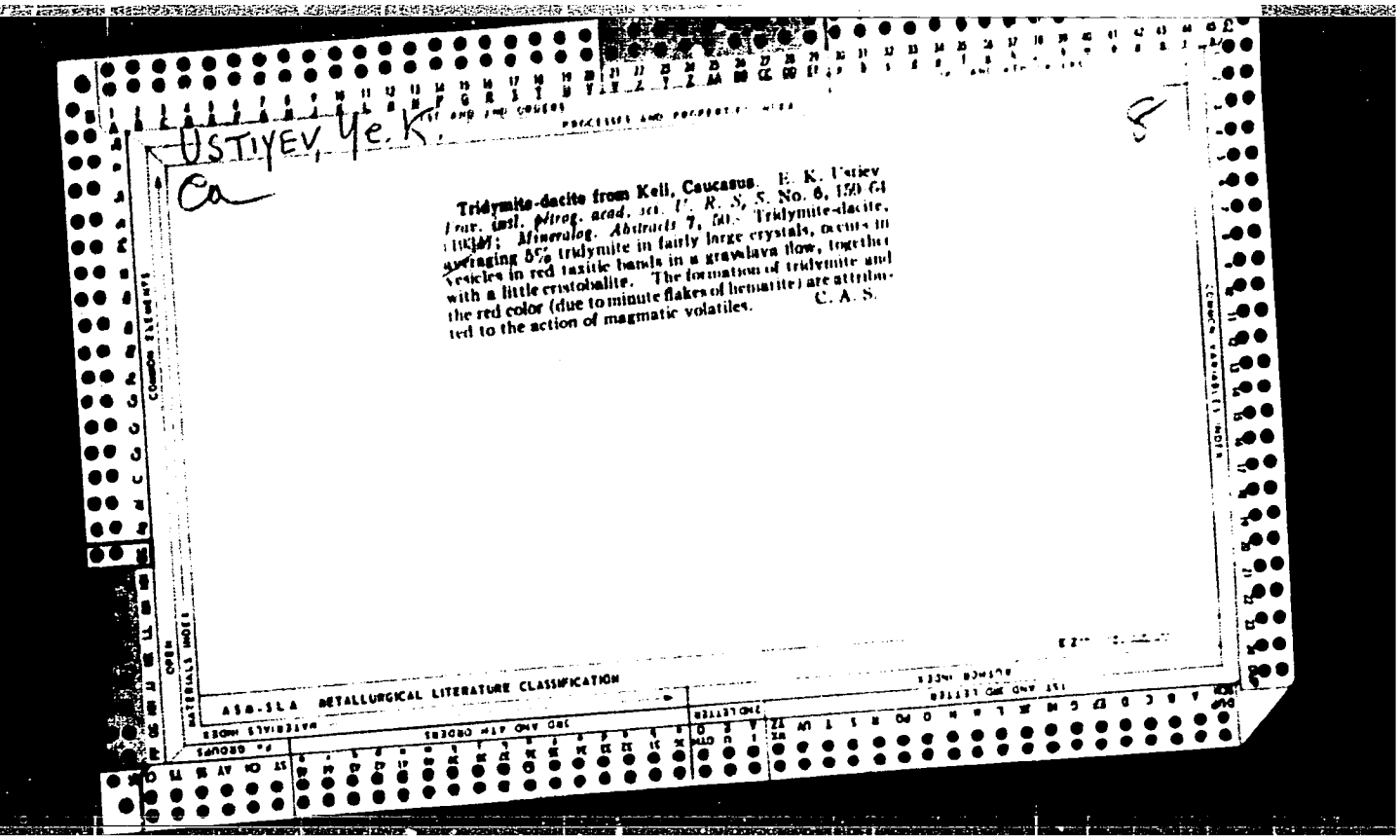
SIVKOV, Mikhail Vasil'yevich; PURITS, N.Ya., red.; USTIYANTS, V.A., red.

[Electronic multiplying and computing attachments to T-5MU and T-MV tabulators] Elektronnaia umnozhaiushchaia i vychislitel'naia pristavki k tabuliatoru T-5MU i T-MV Moskva, Statistika, 1965. 62 p. (MIRA 18:8)

KRIUSHIN, V.N.; LEVIT, M.Ye.; LIVCHAK, G.F., red.; USTIYANTS, V.A., red.

[T-5M tabulator with diode-switching attachment] Tabuliator T-5M s diodno-releinym prisposobleniem. Moskva, Statistika, 1965. 69 p. (MIRA 18:7)

1. Glavnyy inzhener TSentral'noy stantsii mekhanizirovannogo scheta TSentral'nogo statisticheskogo upravleniya SSSR (for Livchak).

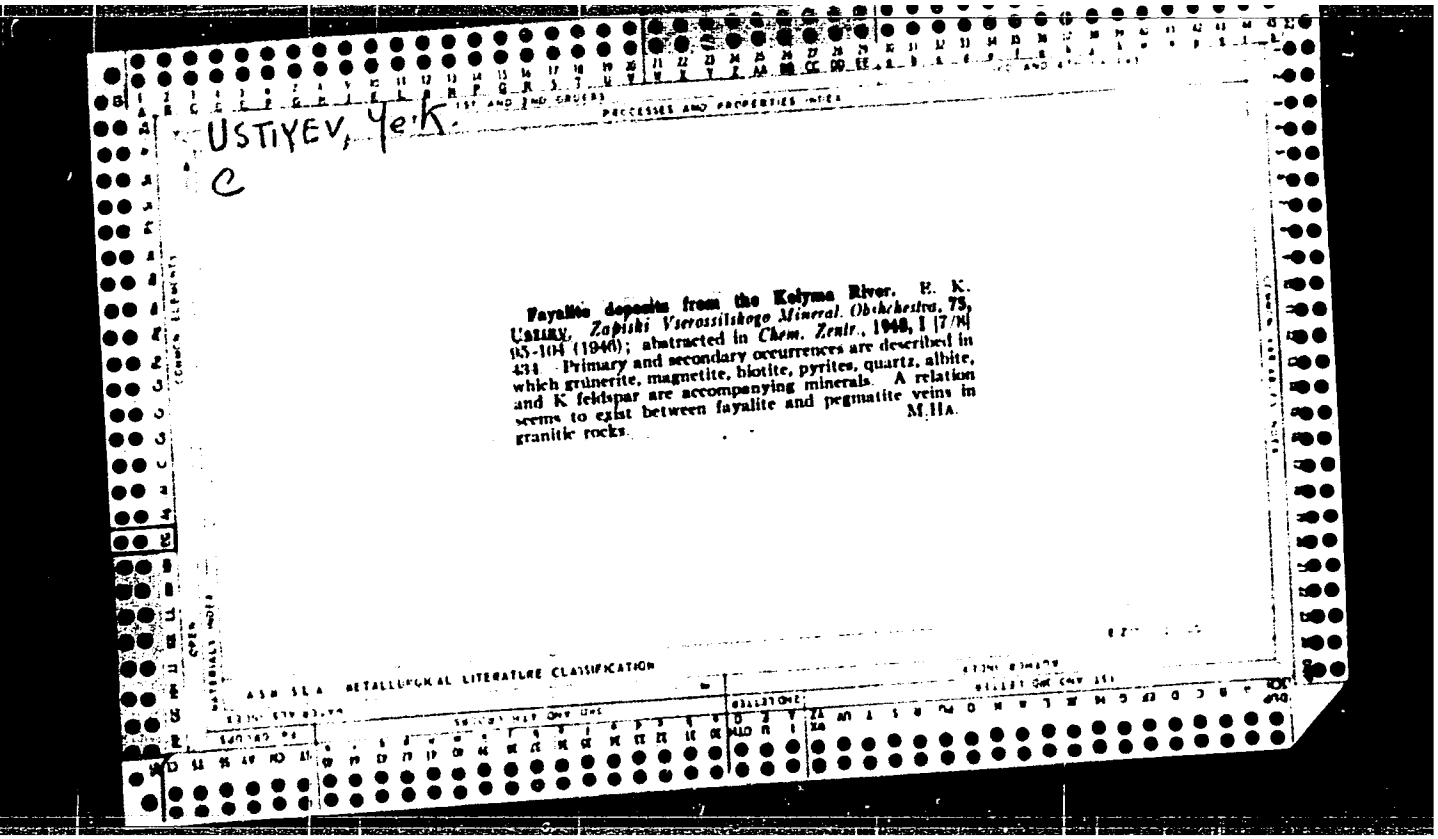


USTIYEV, Ye. K.

Ca

Tridymite-dacite from Kell, Caucasus. E. K. Ustiev. *Izvest. inst. petrog. acad. sci. U. R. S. S.* No. 6, 150-64 (1947); *Mineralog. Abstracts* 7, 501.—Tridymite-dacite, containing 5% tridymite in fairly large crystals, occurs in vesicles in red trachytic basalts in a gravelava flow, together with a little cristobalite. The formation of tridymite and the red color (due to minute flakes of hematite) are attributed to the action of magmatic volatiles. C. A. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



USTIYEV, Ye. K.

C

Fayalite deposits from the Kolyma River. E. K. USTIYEV. *Zapiski Vsesoyuznogo Mineral. Obshchestva*, 75, 105-10 (1946); abstracted in *Chem. Zentr.*, 1948, I [7/8] 434. Primary and secondary occurrences are described in which grunerite, magnetite, biotite, pyrites, quartz, albite, and K feldspar are accompanying minerals. A relation seems to exist between fayalite and pegmatite veins in granitic rocks. M.Ha.

USTIYEV, Ye. K.

"Anyuy Volcano and the Flow of Basalts in Fissures of the Monni Valley (Some Problems of the Quaternary Vulcanism of the Northeastern USSR)," Cand Geol-Min Sci, Min Nonferrous Metallurgy, Geological Prospecting Administration for the Far East, Scientific Methods Division of the Petrographic Department, Moscow, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

USTIYEV, Ye.K., doktor geologo-mineralogicheskikh nauk.

Volcanoes in the depth of the Asian continent. Priroda 44 no.11 N '55. (MLRA 9:1)

(Anyui Range--Volcanoes)

USTIYEV, Yevgeniy Konstantinovich, doktor geologo-mineralogicheskikh nauk; STEPANOVA, L.N., redaktor; BOGDANOVA, A.P., tekhnicheskiy redaktor

[Volcano in the Arctic region; history of a journey] Vulkan v zapoliar'e; iz istorii odnogo puteshestviia. Magadan, Obl.knizhnoe izd-vo, 1956. 62 p. (MIRA 10:8)
(Siberia--Volcanoes)

USTIYEV, Ye.K.

Some characteristics of the mechanism of the origin of porosity in lavas exemplified by the recent Quaternary trachybasaltic flow in the Monni Valley. Izv.AN SSSR.Ser.geol.21 no.12:38-51 D'56.
(MLRA 10:1)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Akademii nauk SSSR, Moskva.
(Monni Valley--Basalt)

USTIYEV, Ye. K.

USTIYEV, Ye. K.

"A Volcano in the Polar Region" (book) 1957.

Is a description of a trip to an extinct volcano in the Anyuy River Basin which is a great interest to geographers.

USTIYEV, Ye.K.

The volcano of Anyuy and problems of Quaternary volcanism in the northeastern part of the U.S.S.R. Probl.Sev. no.1:85-96 '58. (MIRA 11:12)

1. Geologo-razvedochnoye upravleniye Glavnogo upravleniya stroitel'stva Dal'nego Severa "Dal'stroya," g.Magadan.
(Monni Valley--Volcanoes)

USTIYEV, Ye.K.

Recent Quaternary volcanism of the Southern Anyuy Range and the volcanic province in eastern Asia. Trudy Lab.vulk. no.13:212-232 '58. (MIRA 12:3)

(Anyuy Range--Volcanoes) (Soviet Far East--Volcanoes)

USTIYEV, Ye.K.

Structural characteristics of the Okhotsk igneous belt and problems associated with them. Sov.geol. 2 no.3:3-26 Mr '59. (MIRA 12:6)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii (IGEM).
(Okhotsk region--Geology, Structural)

AFANAS'YEV, G.D.; AFANAS'YEV, L.M.; BELIKOV, B.P.; KOPTEV-DVORNIKOV, V.S.; MIKHAYLOV, N.A.; MONICH, V.K.; PAVORSKAYA, M.A.; prinimali uchastiye: DISTANOVA, A.N.; YELISEYEVA, C.P.; MARFUNIN, A.S.; YUNAKOVSKAYA, Yu.V.; USTIYEV, Ye.K., doktor geol.-min. nauk, otv. red.; NEMANOVA, G.F., red. izd-va; BYKOVA, V.V., tekhn. red.

[Principles of the geological mapping of intrusive and extrusive formations as exemplified by petrographic studies in Kazakhstan, Transbaikalia, the Northern Caucasus, and Maritime Province] Printsipy geologicheskogo kartirovaniia intruzivnykh i effuzivnykh formatsii na primere petrograficheskikh issledovanii Severnogo Kavkaza, Kazakhstana, Zabaikal'ia i Primor'ia. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po geol.i okhrane nedr, 1960. 341 p. (MIRA 14:5)

1. Akademiya nauk SSSR. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii. 2. Sotrudnik Instituta geologicheskikh nauk AN Kaz. SSR (for Monich). 3. Sotrudnik Vsesoyuznogo geologicheskogo instituta (for Mikhaylov) 4. Sotrudniki Moskovskogo gosudarstvennogo universiteta (for Yunkovskaya, Distanova)

(Rocks, Igneous)

AFANAS'YEV, G.D., otv.red.; USTIYEV, Ye.K., doktor geol.-min.nauk, red.; GAPEYEVA, G.M., doktor geol.-min.nauk, red.; KOPTEV-DVORNIKOV, V.S., doktor geol.-min.nauk, red.; LEBEDEV, A.P., doktor geol.-min.nauk, red.; FAVORSKAYA, M.A., doktor geol.-min.nauk, red.; CHEPIKOVA, I.M., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Petrographic provinces, igneous and metamorphic rocks] Petrograficheskie provintsii, izverzhennye i metamorficheskie gornye porody. Moskva, Izd-vo Akad.nauk SSSR, 1960. 343 p. (Doklady sovetskikh geologov. Problema 13). (MIRA 13:9)

1. International Geological Congress. 21st, Copenhagen, 1960.
2. Chlen-korrespondent AN SSSR (for Afanas'yev).
(Petrography)

USTIYEV, Ye.K.

"Magmatism and tectonic pattern of the Sarychev Range (Yano-Kolyma fold area)" by K.N.Rudich. Reviewed by E.K.Ustiev. Sov. geol. 3 no.7:152-154 Jl '60. (MIRA 13:8)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii.
(Sarychev Range--Geology)
(Rudich, K.N.)

USTIYEV, Yevgeniy Konstantinovich; POSPELOVA, A.M., red. izd-va; IVANOVA, A.G., tekhn. red.

[Anyu volcano and problems of Quaternary volcanism in the northeastern U.S.S.R.] Aniuiskii vulkan i problemy chetvertichenogo vulkanizma Severo-Vostoka SSSR. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 122 p. (MIRA 14:7)
(Monni Valley--Volcanoes)

USTIYEV, Yevgeniy Konstantinovich, vulkanolog; SMUGLYY, S.I., red.; BELICHENKO, N.K., mladshiy red.; BURLAKA, N.P., tekhn.red.

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