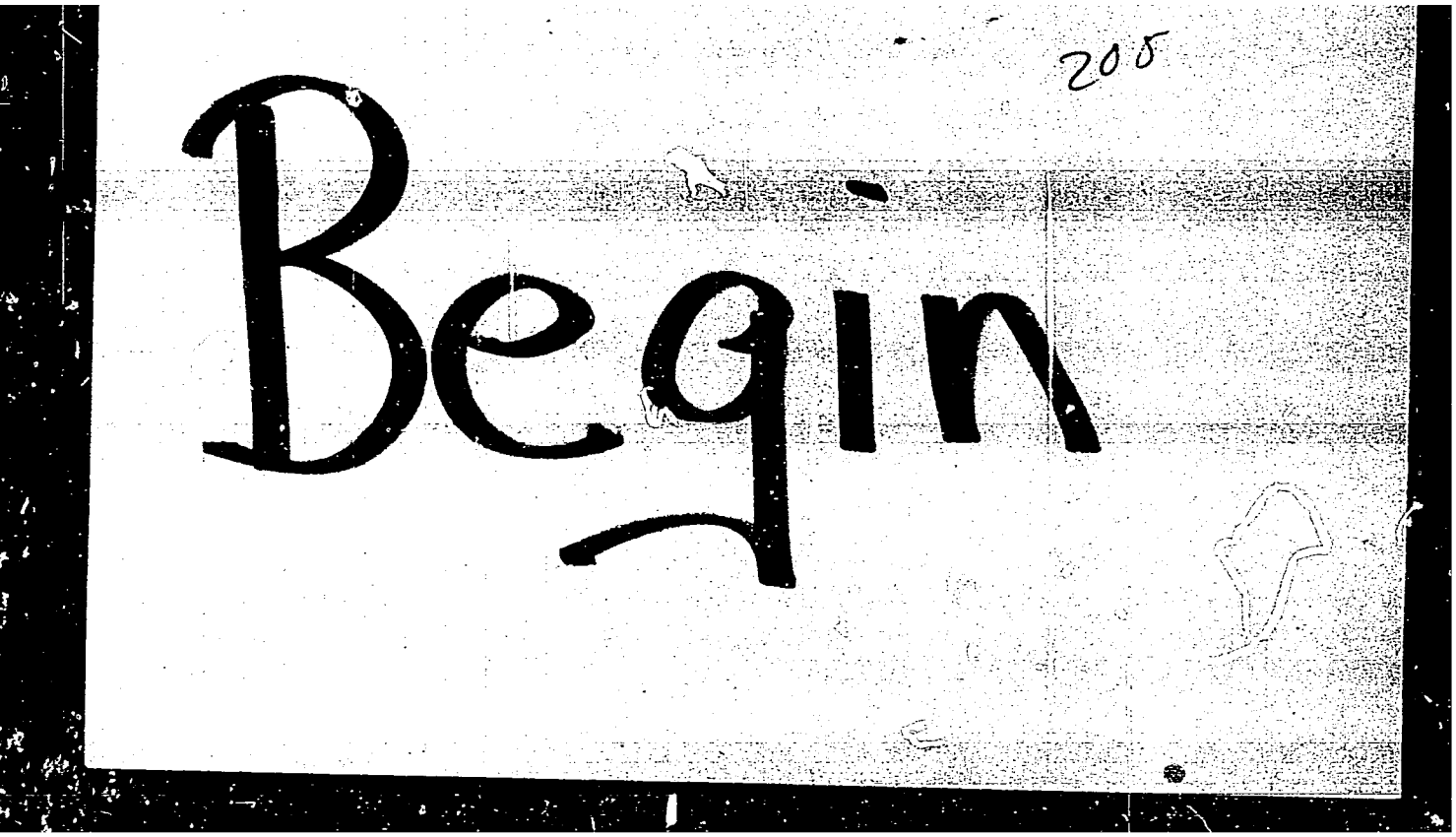

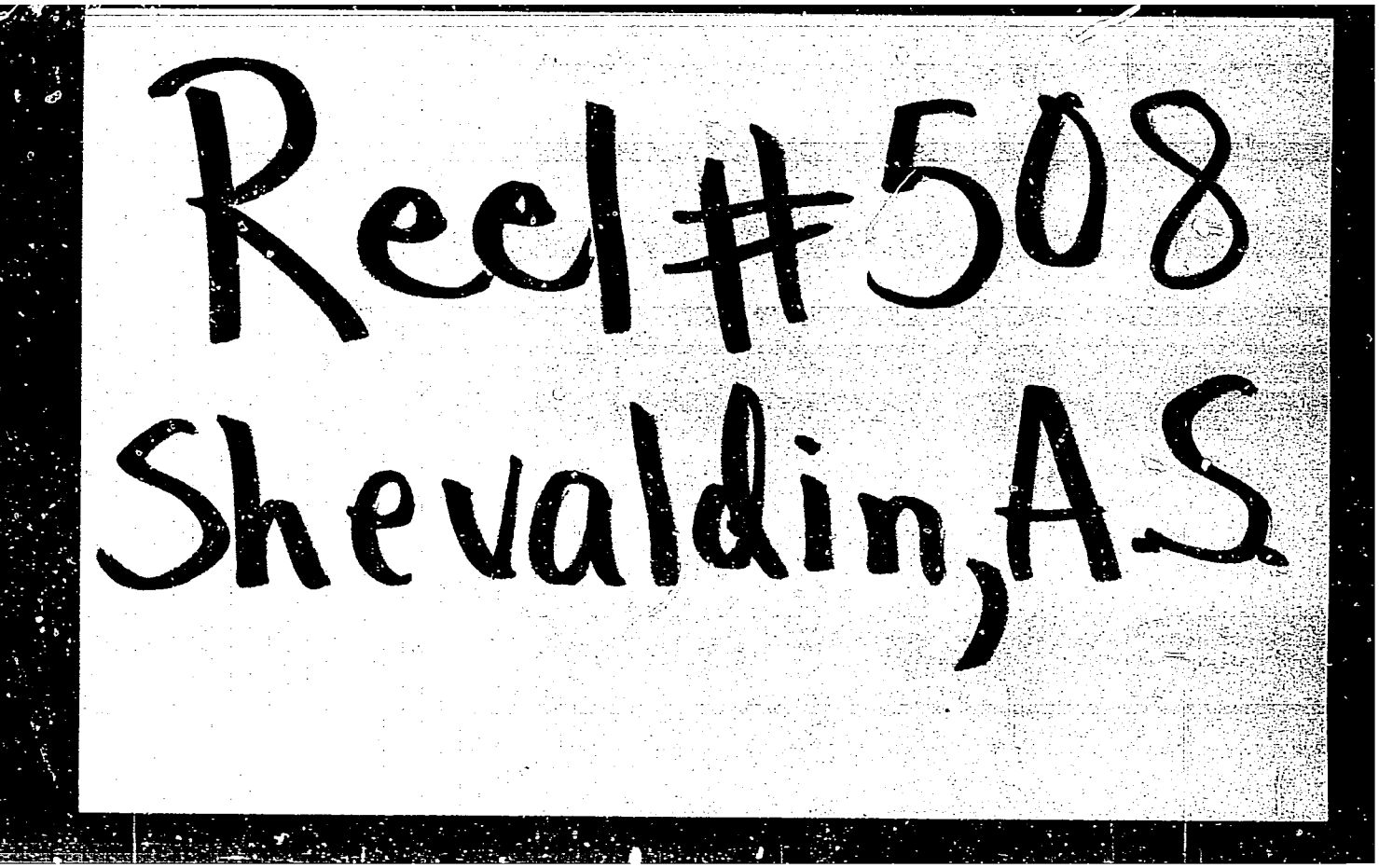

LALAYANTS, A.M., redaktor; ABRAMYAN, A.A., redaktor; GRIBERMAN, I.D., redaktor; DOKUKIN, A.V., redaktor; ZASADYCH, B.I., redaktor; IVANENKO, G.I., redaktor; LETOV, N.A., redaktor; MKLAMED, Z.M. redaktor; LIVSHITS, I.I., redaktor; LOKSHIN, V.A., redaktor; MONIN, G.I., redaktor; SUMCHENKO, V.A., redaktor; TOPCHIEV, A.V., redaktor; SHEVALDIN, A.S., redaktor; SUROVA, V.A., redaktor; ANDREYEV, G.G., tekhnicheskiy redaktor; PROZOROVSKAYA, V.L., tekhnicheskiy redaktor.

[Material and equipment used in the coal industry] Materialy i oborudovanie, primeniaemye v ugol'noy promyshlennosti; spravochnik Moskva, Ugletekhizdat. Vol.1 [Material---Wholesale prices in effect as of July 1, 1955] Materialy. Pt. 1.1955. 786 p. -- Optpvye tseny, vvedenye s 1 iiulia 1955. g. 192 p. [Microfilm] (MLRA 9:1)
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SHVALDIN, A.S.

LALAYANTS, A.M., glavnyy redaktor; ABRAMYAN, A.A., otvetstvennyy redaktor; GUBERMAN, I.D., redaktor; DOKUKIN, A.V., redaktor; ZASADYCH, B.I., redaktor; LETOV, N.A., otvetstvennyy redaktor; LIVSHITS, I.I., redaktor; LOKSHIN, Y.A., redaktor; MELAMED, Z.M., redaktor; MONIN, G.I., redaktor; SUMCHENKO, V.A., redaktor TOPCHIYEV, A.B., redaktor; SHVALDIN, A.S., redaktor; YEGURNOV, G.P., redaktor; LYUBIMOV, N.G., redaktor izdatel'stva; ANDREYEV, G.G., tekhnicheskiy redaktor; PROZOROVSKAYA, V.L., tekhnicheskiy redaktor.

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LALAYANTS, A.M., glavnyy red.; ABRAMYAN, A.A., red.; GUBERMAN, I.D., red.; DOKUKIN, A.V., red.; ZASADYCH, B.I., red.; LETOV, N.A., red.; LIVSHITS, I.I.; LOKSHIN, V.A.; MELAMED, Z.M.; MONIN, G.I.; SUMCHENKO, V.A.; TOPCHIYEV, A.V.; SHEVALDIN, A.S.; YEGURNOV, G.P., red.; LYUBIMOV, N.G., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.

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(Coal mines and mining—Equipment and supplies)

SHEVALDIN, A. S.

"Handbook on lumber used in the mining industry" by K. A. Salgus. Reviewed by A. S. Shevaldin. Ugol' 38 no.4:63 Ap '63. (MIRA 16:4)

1. Rosglavlessnabsbyt pri Vserossiyskom sovete narodnogo khozyaystva.

(Lumber)
(Mining engineering—Equipment and supplies)

PERMYAKOV, P.N.; CHEKANOV, A.N.; SHEVALDIN, G.P.

Expediency of the over-all mechanization of stoping operations in mines under the Tula Economic Council. Ugol' 37 no.8: 36-40 Ag '62. (MIRA 15:9)

1. Tul'skiy kombinat ugol'noy promyshlennosti Podmoskovnogo basseyna Ministerstva ugol'noy promyshlennosti SSSR.
(Tula Basin--Coal mines and mining) (Coal mining machinery)

SHEVALDIN, I.Ye.

Relationship between the mineralization of a dispersing medium in natural water suspensions and the quality of tapping the producing horizons. Neft. khoz. 39 no.11:25-30 N '61. (MIRA 14:12)
(Oil well drilling fluids)

SHEVALDIN, Ivan Yegorovich; KOLEVATOV, Boris Dmitriyevich; ISAYEVA, V.V., ved. red.; VOROB'YEVA, L.V., tekhn. red.

[Drilling involving water flushing to design depth; practices of petroleum workers of the Tatar A.S.S.R.] Burenie skvazhin s promyvkoi vodoi do proektnoi glubiny; opyt neftianikov Tatarii. Moskva, Gostoptekhizdat, 1962. 84 p. (MIRA 15:7)
(Tatar A.S.S.R.—Oil well drilling)

SHEVALDIN, Ivan Yegorovich; ISAYEVA, V.V., ved. red.

[Natural drilling muds for well drilling] Estestvennye promyvochnye zhidkosti dlia bureniia skvazhin. Moskva, Nedra, 1964. 170 p. (MIRA 18:1)

YUSUFOV, I.G.; SHEVALDIN, I.Ye.; AKHMETZYANOV, E.K.

Evaluating rock cavitation on the basis of logging data. Burenie no.3:17-19 '65. (MIRA 18:5)

1. Tatarskiy neftyanoy nauchno-issledovatel'skiy institut.

L 44382-66 EWT(1) FDN/GW

ACC NR: AP6029870 SOURCE CODE: UR/0413/66/000/015/0011/0011

INVENTOR: Belov, V. I.; Shevaldin, I. Ye.; Shokhin, V. F. 36

ORG: none

TITLE: A method of producing heat insulation in boreholes in permafrost regions. Class 5, No. 184205

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 11 B

TOPIC TAGS: permafrost, thermal insulation, borehole, drilling machine

ABSTRACT: A method of thermal insulation of boreholes drilled in permafrost regions is described. To prevent the cleaning fluid from freezing during circulation cutoff

Fig. 1. Borehole

1 - Inner column of casing pipes;
2 - outer column of casing pipes;
3 - reverse valve.

Card 1/2 UDC: 622.245.01

L 27249-66

ACC NR: AP6009865 SOURCE CODE: UR/0413/66/000/004/0060/0060

AUTHORS: Denisov, S. I.; Shevaldin, P. V.; Plotnikov, V. S.; Kaledin, B. F.

ORG: none

TITLE: Method for fabricating mirrors. Class 32, No. 178957

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 60

TOPIC TAGS: glass product, grinding

ABSTRACT: This Author Certificate presents a method for fabricating mirrors from glass blanks by grinding and polishing their surfaces with subsequent deposition of a mirror film. To protect the mirror from deformations in the fabrication process and in operation, the glass blanks are first fastened in mounts with hermetic rubber. All the fabrication processes are then carried out and the mirrors are fastened to the products in the same mounts.

SUB CODE: 13,11/ SUBM DATE: 31Oct63

Card 1/1 UDC: 666.1.056

SHEVANDIN, V.A., inzh.

Selection of an efficient multistage procedure in increasing the engineering equipment of roads. Transp. stroi. 13 no.7:47-49 Jl '63. (MIRA 16:9)

(Railroads—Cost of construction)

SHEVANDIN, V.A., inzh.

Improving the utilization of the capacity of freight cars in the transportation of containers. Zhel.dor.transp. 45 no.10:75-76 O '63. (MIRA 16:11)

1. Nachal'nik stantsii Yanichkino Moskovskoy dorogi.

ACC NR: AP7001719 SOURCE CODE: UR/0048/66/030/012/1882/1887

AUTHOR: Yasnopol'skiy, N.L.; Shabel'nikova, A.E.; Shevaldin, V.A.; Lozhkina, N.S.;

ORG: none

TITLE: Investigation of field-enhanced secondary-electron emission from porous emitters [Paper presented at the 12th All-Union Conference on Physical Principles of Cathode Electronics held in Leningrad from 22-26 October 1965]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 12, 1966, 1882-1887

TOPIC TAGS: electron emission, secondary electron, electric field, magnesium oxide

ABSTRACT: An experimental study was made to explain the mechanism of the field-enhanced secondary-electron emission from porous MgO. Samples were prepared by depositing Mg smoke in the air on 200 Å-thick aluminum membranes stretched over fine supporting meshes with 70% penetrability, which made it possible to bombard the material with electrons from both the front and the back. The investigations of the secondary emission coefficients as a function of the electric field intensities included measurements

Card 1/2 UDC: none

ACC NR: AP7001719

performed consecutively on the same sample, measurements made on several MgO samples, and measurements of total secondary emission coefficients and their non-inertial components at primary electron energies in the range of 2—5 keV with irradiation from the front and back. From an analysis of the curves, it was concluded that the field-enhanced secondary emission, as well as the occurrence of self-consistent emission, cannot be explained by a single physical cause but must be attributed to the superposition of two effects due to different mechanisms. The field enhanced emission occurs, it is stated, in the whole range of the applied potential difference, to which inertial emission is added only when the field's intensity is sufficiently high. Measurements were also made on porous CsI films, and they likewise showed high coefficient values of field-enhanced emission. The authors thank D. V. Zernov for evaluating the work.

[ZL]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 010/ OTH REF: 003/
ATD PRESS: 5114

Card 2/2

LOPYREV, N.K., kand.tekhn.nauk, dotsent; SHEVALDYSHEV, L.G., inzh.

Effect of ultrasonic waves on the process of scale formation in steam boilers. Trudy LIVT no.6:54-60 '60. (MIRA 15:3)
(Boilers--Incrustations)
(Ultrasonic waves--Industrial applications)

KAZANTSEV, Anatoliy Mikhaylovich, kand. tekhn. nauk, dots; Prinimali uchastiye: LIVSHITS, I.M., inzh.; MAKAR'YEVSKIY, D.P., inzh.; GUSEV, M.N., kand. tekhn. nauk, dotsent, retsenzent; SHEVALDYSHEV, L.G., inzh., retsenzent; BARIT, G.Yu., red.; VOLCHOK, K.M., tekhn. red.

[Technical norms in shipbuilding and ship repair] Tekhnicheskoe normirovanie v sudostroenii i sudoremonte. Leningrad, Izd-vo "Rechnoi transport," 1962. 383 p. (MIRA 15:5)
(Shipbuilding—Production standards)
(Ships—Maintenance and repair—Production standards)

SHEVALDYSHEV, L.G., inzh.

Effect of the roughness of heating surfaces of a heat exchanger.
Trudy LIVT no.60:33-35 '64 (MIRA 18:2)

STRASHUN, Yuriy Pavlovich; [illegible], ved. red.

[Industrial use of commutators in centralized control and regulation systems] Promyshlennoe primenenie kommutatorov v sistemakh tsentralizovannogo kontrolia i upravleniia. Moskva, Gos. nauchn.-issl. in-t nauchn. i tekhn. informatsii, [illegible]. [illegible] p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov; materialy zavodskogo opyta, no.?) [illegible]

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FILATOV, V.P., laureat Stalinskoy premii, Geroy Sotsialisticheskogo truda, professor, zasluzhennyy deyatel' nauki; SHEVALEV, V. kandidat meditsinskikh nauk, redaktor; SHEVALEV, A.; kandidat biologicheskikh nauk; redaktor; MOGILETSKIY, B., tekhnicheskiy redaktor.

[My paths in science] Moi puti v nauke.[Odessa] Odesskoe obl.izd-vo, 1955. 161 p. (MLRA 8:8)

1. Deputat Verkhovnogo Soveta USSR, deystvitel'nyy chlen Akademii nauk USSR i Akademii meditsinskikh nauk SSSR (for Filatov).
(Therapeutics)

SHEVALEV, A.Ye.

Physiologic mechanism of increase of intra-ocular pressure following application of unusual stimuli. Vopr.fiziol. no.9: 81-94 '54. (MIRA 14:1)

1. Ukrainskiy eksperimental'nyy institut glaznykh bolezney im. V.P. Filatova.

(EYE, tension, eff. of stimuli)

SHEVALEV, Andrey Yevgen'yevich

[Comparative pathology of glaucoma] Ocherk sravnitel'noi patologii glaukom. [Odessa] Odesskoe oblastnoe izd-vo, 1956. 61 p. (MIRA 11:5)
(GLAUCOMA)

SHEVALEV, Andrey Yevgen'yevich

[Bengal glaucoma] Bengal'skaia glaukoma. [Odessa] Oblastnoe izd-vo, 1957. 89 p. (MIRA 11:5)
(GLAUCOMA)

SHEVALEV, A.Ye.

SHEVALEV, A.Ye.

Experimental hypertonia of the eye resembling primary glaucoma. Report No.4: Intraocular pressure following prolonged inclusion of cholesterol in the diet of animals. Oft.zhur. 12 no.2:103-105 '57. (MIRA 10:11)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo instituta glaznykh bolezney i tkanevoy terapii im. akad. V.P. Filatova (dir. - prof. N.A.Puchkovskaya)
(GLAUCOMA) (CHOLESTEROL)

SHEVALEV, A.Ye., starshiy nauchnyy sotrudnik

Experimental materials for the study of the relation between the course of primary glaucoma and the season of the year. Uch. zap. UKIGB 4:284-291 '58. (MIRA 12:6)

1. Ukrainskiy eksperimental'nyy institut glaznykh bolezney i tkanevoy terapii imeni akademika V.P. Filatova.
(GLAUCOMA)

SHEVALEV, A.Ye.

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1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo instituta glaznykh bolezney i tkanevoy terapii im. akad. V.P. Filatova (direktor-prof. N.A.Puchkovskaya).
(EYE) (VANILLIN--PHYSIOLOGICAL EFFECT)

SHEVALEV, A.Ye.

Experimental transitory sulfamide glaucoma. Oft.zhur. 14 no.3:144-148 '59. (MIRA 12:6)

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(GLAUCOMA) (SULFONAMIDES)

SHEVALEV, A.Ye.

Experimental study of the problem of predisposition to the development of primary glaucoma. Oft.zhur. 15 no.2:98-106 '60.
(MIRA 13:5)

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(GLAUCOMA)

SHEVALEV, A. Ye.; BELOVODSKAYA, Ya.Ye.

Elastotonometric examinations in Urov disease. Uch.zap. UEIGB 5:91-95 '62 (MIRA 16:11)

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SHEVALEV, A.Ye.; LIPOVETSKAYA, Ye.M.

Experimental hypertension in the eye following artificial disturbance of the sexual glands function. Oft. zhur. 17 no.1:53-56 '62. (MIRA 15:3)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo instituta glaznykh bolezney i tkanevoy terapii imeni akademika V.P. Filatova (dir. - prof. N.A. Puchkovskaya).
(HORMONES, SEX)
(INTRAOCULAR PRESSURE)

SHEVALEV, A. Ye.

Hormone therapy as the cause of transitory hypertension of the eye and glaucoma. Oft. zhur. 18 no.1:39-46 '63 (MIRA 17:4)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'-nogo instituta glaznykh bolezney i tkanevoy terapii imeni akademika V.P.Filatova (dir. - chlen-korrespondent AMN SSSR prof. N.A. Puchkovskaya).

TARASOV, P.V.; SHEVALEV, G.M., red.; GONCHAR, G., tekhn. red.

[Wealth of the Maritime Territory] Bogatstva Primorskogo kraia. Vladivostok, Primizdat, 1947. 49 p. (MIRA 14:8)
(Maritime Territory--Natural resources)

SHEVALEV, [illegible] YA.

SHEVALEV, [illegible] YA. -- "Effect of Columns on the Use of Space in Principal Shops in Single Floor Cotton Spinning and Weaving Mills." Sub 13 Jun 52, Moscow Textile Inst (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Vechernaya Moskva, January-December 1952

SHEVALEV, V.; YEFIMENKO, V., redaktor; MOGILETSKIY, B., tekhnicheskiy redaktor

[Professor Nalivkin; sketch of Odessa's oldest physician] Professor Nalivkin; ocherk o stareishem vrache Odessy. [Odessa] Odesskoe obl. izd-vo, 1955. 41 p. (MLRA 10:8)
(NALIVKIN, PAVEL ALEKSEEVICH, 1876-)

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FILATOV, V.P., laureat Stalinskoy premii, Geroy Sotsialisticheskogo truda, professor, zasluzhennyy deyatel' nauki; SHEVALEV, V. kandidat meditsinskikh nauk, redaktor; SHEVALEV, A.; kandidat biologicheskikh nauk; redaktor; MOGILETSKIY, B., tekhnicheskiy redaktor.

[My paths in science] Moi puti v nauke.[Odessa] Odesskoe obl.izd-vo, 1955. 161 p. (MLRA 8:8)

1. Deputat Verkhovnogo Soveta USSR, deystvitel'nyy chlen Akademii nauk USSR i Akademii meditsinskikh nauk SSSR (for Filatov).
(Therapeutics)

SHEVALEV, V. Ye., Doc Med Sci -- (diss)"Cicatricial xerosis and its treatment by means of substitution of saliva for deficient tears." Odessa, [1957]. 23 pp (Min of Health RSFSR, Kuybyshev Med Inst), 250 copies (KL, 2-58, 115)

SHEVALEV, V.Ye.,dots.[translator]; SIL'VA, Kandido da, doktor meditsiny.

New surgical technique in treating stricture of the nasolacrymal canal. Oft.zhur. 13 no.2:121-123 '58. (MIRA 11:4)

1. Iz Instituta trakhomy i gigiyeny zreniya v San-Paolu (Braziliya)
(LACRIMAL ORGANS--SURGERY)

SHEVALEV, Vladimir Yevgen'yevich; KAGANOVA, T.M., red.; GITSHTEYN, A.D., tekhred.

[Cicatricial xerosis of the eye] Rubtsovyi kseroz glaza. Kiev, Gos.med.izd-vo USSR, 1959. 174 p. (MIRA 13:1)
(EYE--DISEASES AND DEFECTS)

SHEVALEV, V. Ye., professor

Operations of buckling and riffling the sclera in retinal detachment. Oft. zhur. no.2:67-75 '62. (MIRA 15:4)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo instituta glaznykh bolezney i tkanevoy terapii im. akad. V. P. Filatova (direktor - chlen-korrespondent AMN SSSR prof. N. A. Puchkovskaya)

(RETINA—WOUNDS AND INJURIES)
(SCLERA—SURGERY)

SHEVALEVA, A. S.

"The Iron and Manganese Trace Element Content of Medicinal Plants." Cand Chem Sci, Yaroslav State Pedagogical Inst, Yaroslav, 1953. (RZhBiolKhim, No 2, Jan 55)

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SO: SUM No. 556, 24 Jun 55

BEREZHNOY, A.I.; SHEVALDIN, I.Ye.

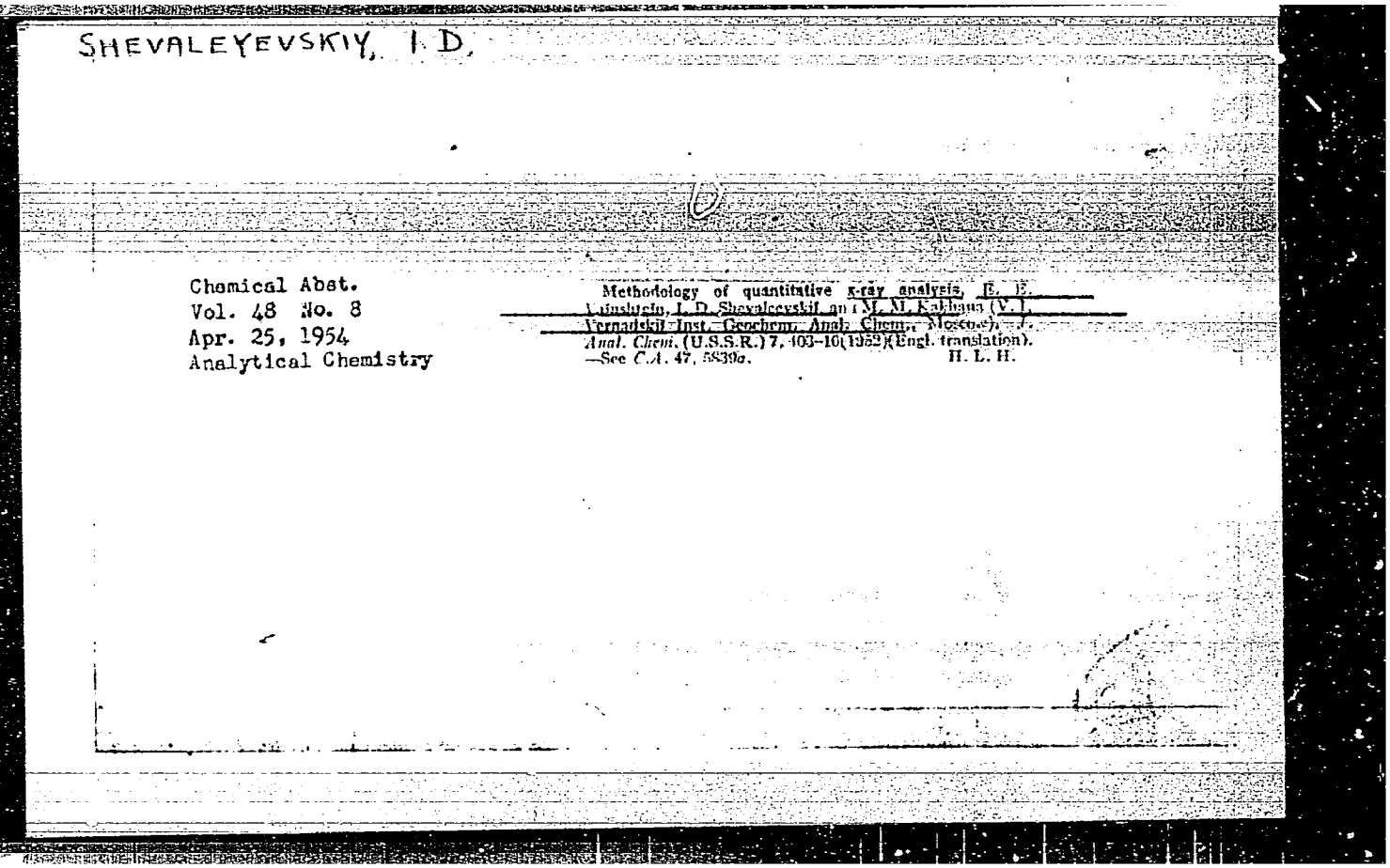
Mapping producing formations in the Romashkino oil field.
Neft. khoz. 38 no.10:36-42 O '60. (MIRA 13:9)
(Romashkino region--Oil well drilling fluids)

SHEVALEYEVSKIY, I.D.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Electronic Phenomena and Spectra

Demountable x-ray tube with the reversible path of rays for x-ray spectrum analysis. I. D. Shevaleevskii (Inst. Geochem. Anal. Chem., Acad. Sci., Moscow). *J. Anal. Chem.* (U.S.S.R.) 7, 207-9(1952)(Engl. translation).—See *C.A.* 47, 1485b. H. L. H.

9/17/54



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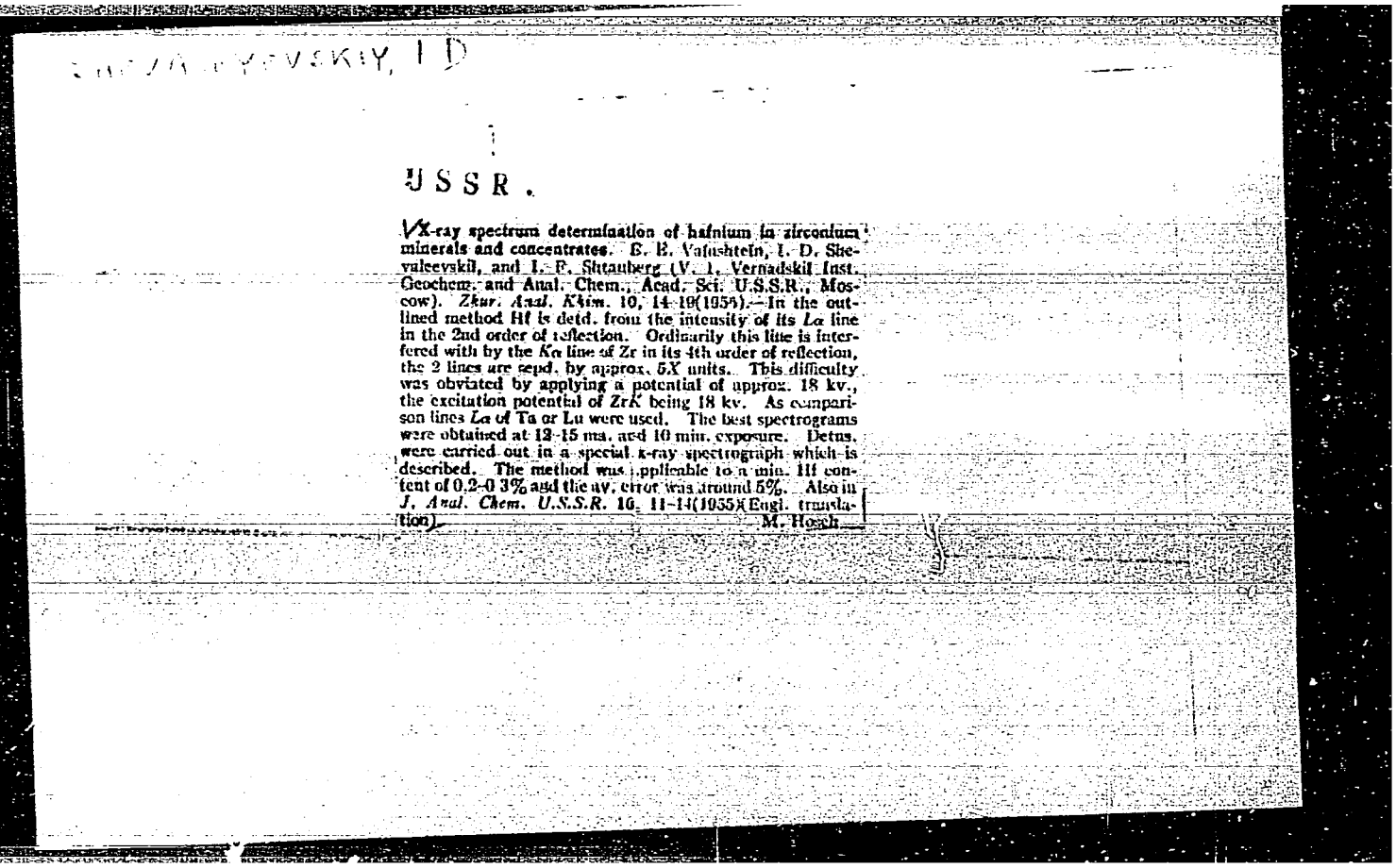
Methodology of quantitative x-ray analysis, E. E. Vainshtein, I. D. Shevaleevskii, and N. M. Kalbina (V. I. Vernadskii Inst. Geochem. Anal. Chem., Moscow). *Anal. Chem.* (U.S.S.R.) 7, 103–10(1952)(Engl. translation). —See *C.A.* 47, 5839a. H. L. H.



[illegible]YEVSKIY, I D

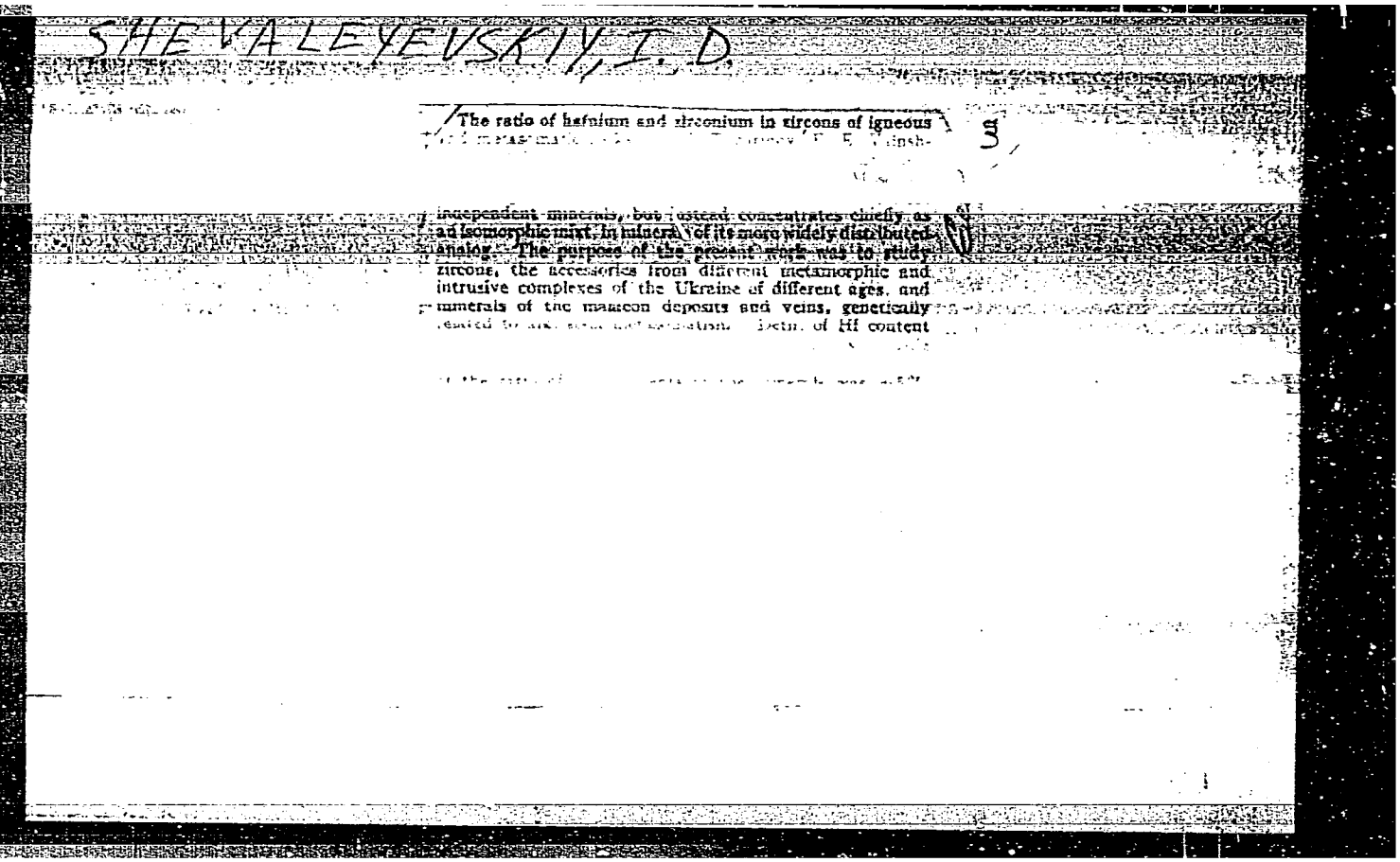
USSR.

X-ray spectrum determination of hafnium in zirconium minerals and concentrates. E. E. Vafushtein, I. D. Shevaleevskii, and I. F. Shtauberg (V. I. Vernadskii Inst. Geochem. and Anal. Chem., Acad. Sci. U.S.S.R., Moscow). *Zhur. Anal. Khim.* 10, 14-19(1955).—In the outlined method Hf is detd. from the intensity of its *La* line in the 2nd order of reflection. Ordinarily this line is interfered with by the *Ka* line of Zr in its 4th order of reflection, the 2 lines are sepd. by approx. 5X units. This difficulty was obviated by applying a potential of approx. 18 kv., the excitation potential of *ZrK* being 18 kv. As comparison lines *La* of Ta or Lu were used. The best spectrograms were obtained at 12-15 ma. and 10 min. exposure. Detns. were carried out in a special x-ray spectrograph which is described. The method was applicable to a min. Hf content of 0.2-0.3% and the av. error was around 5%. Also in *J. Anal. Chem. U.S.S.R.* 10, 11-14(1955)(Engl. translation). M. Hosch

SHEVALEYEVSKIY, I.D. [redacted]

Use of W_1W_2 diagram of x-ray spectrum [illegible]. E. E. Vainshtein and I. D. Shevaleevskii (V. I. Vernadskii Inst. Geochem. and Anal. Chem., Acad. Sci. U.S.S.R., Moscow). *Zhur. Anal. Khim.* 10, 184-8; *J. Anal. Chem. U.S.S.R.* 10, [illegible] (Engl. translation).—Designating the photod. of spectrum lines by $W = \log(1 - T)/T$ where T is the coeff. of transmission and equals the ratio of transmitted to incident light, W_1W_2 diagrams were constructed. The values were obtained by changing the exposure and thereby the intensity of a series of lines. The diagrams were then plotted by laying-off the values W of one line on the abscissa and of another line on the ordinate. In the visible range of the spectrum the lines of equal intensity ratio of spectrum lines in the W_1W_2 field represent a pencil of straight lines emanating from one point. The relation between W and exposure E is given with sufficient accuracy by $W = W_1 + kE$ where W_1 and k are consts. [illegible] 45 [illegible] [illegible] diagram was tested in the x-ray [illegible] the $K_{\alpha\beta}$ lines of Cu and Co; [illegible] of -1 to $+1.8$ the lines of equal [illegible] diagram within the x-ray region [illegible] of these results [illegible] diagram method is applicable also to [illegible] region. M. Hosch

(1)



SHEVALEYEVSKIY, I. D.

The ratio of hafnium and zirconium in zircons of igneous

independent minerals, but instead concentrates chiefly as
an isomorphic mixt. in minera\ of its more widely distributed
analog. The purpose of the present work was to study
zircons, the accessories from different metamorphic and
intrusive complexes of the Ukraine of different ages, and
minerals of the magcon deposits and veins, genetically
vestn. of Hf content

Shevaleevskiy, I. D.

Zr : Hf ratio in the granitoids of the Verkhisetsk intrusion. I. M. Lipova, I. D. Shevaleevskiy, and A. M. Turova (V. I. Vernadskii Inst. Geochem. and Anal. Chem., Acad. Sci. U.S.S.R., Moscow). *Geokhimiya* 1957, 136–40.—Forty-one spectral analyses for Zr and Hf are presented for granites of the Ural Mountains and of Kazakhstan and for zircons isolated from the same rocks. The abs. amt. of Zr varies from 1.2×10^{-4} to 8.5×10^{-4} %, and the ratio Zr/Hf is 38 to 40, a higher ratio than that of New England granites. In granitoids of the endocontact facies the amts. of Zr and Hf are highest; there is less in the central facies and much less in the rocks of the gang. No relation could be found between the contents of Hf and U in these rocks. 17 references. Werner-Jacobson

Distr: 434j

PAVLENKO, A.S.; VAYNSHTEYN, E.Ye.; SHEVALEYEVSKIY, I.D.

Hafnium and zirconium ratio in zircons of igneous and metasomatic rocks. Geokhimiia no.5:351-367 '57. (MIRA 12:3)

1. V.I. Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, USSR, Moscow.
(Tuva Autonomous Province--Zircon)
(Hafnium) (Zirconium)

SHEVALEYEVSKIY, I.D.

GERASIMOVSKIY, V.L.; SHEVALEYEVSKIY, I.D.

On the zirconium - hafnium ratio in zirconium minerals of the Lovozeromassif [with summary in English]. Geokhimiia no.8:696-698 '57. (MIRA 11:2)

1.Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR, Moskva.

(Lovozero, Lake region--Zirconium ores)
(Hafnium)

Shevaleyevskiy, I.P.

AUTHORS: Kosterin, A. V., Zuyev, V. N., Shevaleyevskiy, I. D. 7-1-9/12

TITLE: On the Zr-Hf Ratio in the Zircons of Some Igneous Rocks of North Kirghizia (Ob otnoshenii Zr/Hf v tsirkonakh nekotorykh izverzhennykh porod severnoy kirgizii)

PERIODICAL: Geokhimiya, 1958, Nr 1, pp. 86-89 (USSR)

ABSTRACT: In the rocks of the acidic series zirconium, and together with it hafnium, is almost only found as zircon. Thus the Zr-Hf ratio of the zircon can be taken as that of the rock. This ratio depends on the origin. The igneous rocks of the southern slope of the Zailiyskiy Alatau were investigated because there all types from gabbros to alaskite granites are found. According to Tikhomirov, Luyk and others the rocks of this region were formed in the following sequence:

1) Proterozoic cycle, gneissoid alaskite granites;
2) Caledonian cycle, gabbro, diorites, granodiorites, porphyroid biotite hornblende granites;
3) Varistic cycle, rose-colored biotite hornblende granites, syenites, alaskite granites;

There is a genetic connection between the Varistic alaskite

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On the Zr-Hf Ratio in the Zircons of Some Igneous Rocks of North Kirghizia 7-1-9/12

granites and zircon-bearing hydrothermal veins.

The Zr-Hf ratio of the different rocks and of the hydrothermal veins was determined by X-ray analysis: the relative error of the ratio was 5%. The data are given in a table, and besides are shown in a diagram.

The investigations have shown:

1) In the zircons of the Varistic and Proterozoic alaskite granites the Zr-Hf ratio is equal and amounts to 36.
2) In differentiation this ratio is changed according to certain laws from 71 in the gabbro to 36 in the alaskites and 29 in the corresponding hydrothermal veins;
3) In zircons of rocks of the same compounds certain variations in the ratio were stated. With that an overlapping of the Zr-Hf ratio of rocks of different compounds was observed, but these rocks are placed closely together in the series of magmatic differentiation. There are 1 figure, 1 table, and 4 references, 3 of which are Slavic.

ASSOCIATION: Institute for Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AN USSR, Moscow (Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva)

On the Zr-Hf Ratio in the Zircons of Some Igneous Rocks of North Kirghizia 7-1-9/12

SUBMITTED: October 1o, 1957

AVAILABLE: Library of Congress

1. Rock-Analysis

Card 3/3

7-58-3-9/15

AUTHORS: Vaynshteyn, E. Ye., Tugarinov, A. I., Tuzova, A. M., Shevaleyevskiy, I. D.

TITLE: On the Hafnium-Zirconium Ratio in Metamorphic and Metasomatic Rocks(O sootnoshenii gafniya i tsirkoniya v metamorficheskikh i metasomaticheskikh porodakh)

PERIODICAL: Geokhimiya, 1958, Nr 3, pp. 241 - 244 (USSR)

ABSTRACT: The distribution of zirconium and hafnium was investigated in 14 samples from the upper sequence of the Krivorozh'ye Rog--series. Five samples of them are from Sredneye Krivorozh'ye, nine samples from Severnoye Krivorozh'ye. The content was determined by means of X-ray spectral analysis, the applied method was described already earlier by the authors (Ref 1). A table gives the content of the single samples of ZrO_2, HfO_2, as well as the zirconium oxide-hafnium oxide ratio. This lies in metamorphic rocks between 2o and 4o (Sredneye Krivorozh'ye). In metasomatic rocks (Severnoye Krivorozh'ye), especially in natron rocks, zirconium is enriched; the ratio to hafnium

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On the Hafnium-Zirconium Ratio in Metamorphic and Metasomatic Rocks 7-58-3-9/15

oxide rises up to 112. In order to explain these differences, some properties of zirconium and hafnium are compared in a small table (ion radius, ionization potential in eV, formation heat of the oxides). The differences in the migration capacity must, however, not be explained by the ion properties only, since these elements were complexes under natural conditions, e.g. as the rare earths as alkaline carbonate complexes. There are 2 tables and 2 references, 2 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im.V.I.Vernadskogo, AN SSR, Moskva (Moscow Institute of Geochemistry and Analytical Chemistry imeni V.I.Vernadskiy, AS USSR)

SUBMITTED: January 14, 1958

1. Rock--Analysis 2. Hafnium--Determination 3. Zirconium--Determination 4. X-ray spectrum analyzers--Applications

Card 2/2

3(0)

AUTHORS: Gerasimovskiy, V. I., Tuzova, A. M., Shevaleyevskiy, I. D.

SOV/7-58-8-5/8

TITLE: On the Zirconium-Hafnium Ratio in Rocks of the Lovozerskiy Massif (O tsirkoniyevo-gafniyevom sootnoshenii v porodakh Lovozerskogo massiva)

PERIODICAL: Geokhimiya, 1958, Nr 8, pp 743 - 748 (USSR)

ABSTRACT: 48 rock samples from three magmatic complexes of the Lovozerskiy massif, Kola peninsula (Lovozerskiy massiv, Kol'skiy poluostrov) were examined. The zirconium and hafnium content was determined by the X-ray spectrometric method. The results are recorded in a table. The zirconium and hafnium content ranges from 0.07 to 2.31% ZrO_2 and from 0.015 to 0.057% HfO_2, while the variations of the zirconium-hafnium ratio are insignificant. Zr and Hf are concentrated in later magmatic complexes: 0.167% in the first, 0.290% in the second and 1.49% ZrO_2 in the third. Agpaitic rocks have a higher Zr and Hf content than miascite rocks, but no relation between sodium-potassium and zirconium-

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On the Zirconium-Hafnium Ratio in Rocks of the Lovozerskiy Massif SOV/7-58-8-5/8

hafnium contents could be observed. There are 1 figure, 1 table, and 11 references, 6 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Institute for Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR, Moscow)

SUBMITTED: July 15, 1958

Card 2/2

SHEVALEYEVSKIY, I. D. Cand Chem Sci -- (diss) "Development of methods of quantitative X-ray-spectrum analysis of hafnium and zirconium and their application in geochemical studies." Mos, 1959. 15 pp (Inst of Geochemistry and Analytic Chemistry im V. I. Vernadskiy, Acad Sci USSR), 170 copies. List of author's works at end of text (15 titles) (KL, 43-59, 121)

3(8) SOV/7-59-2-5/14

AUTHORS: Vaynshteyn, E. Ye., Ginzburg, A. I., Shevaleyevskiy, I. D.

TITLE: On the Ratio of Hafnium and Zirconium in the Zircons of Granite Pegmatites (O sootnoshenii gafniya i tsirkoniya v tsirkonakh granitnykh pegmatitov)

PERIODICAL: Geokhimiya, 1959, Nr 2, pp 124-129 (USSR)

ABSTRACT: 25 samples of the zircon group were investigated by the X-ray spectrographic method. The samples were: 1) zircons from medium- and coarse-grained plagioclase-mircocline-biotite pegmatites (Table 1, Analyses 1-7); 0.7-1.4% HfO_2, ZrO_2/HfO_2 between 46 and 89. 2) Cirtolites from uranium - rare earths pegmatites (Table 1, Analyses 8-13); 2.7-6.1% HfO_2, ZrO_2/HfO_2 9-21. 3) Cirtolite from a beryl - muscovite pegmatite (Table 1, Analysis 14); HfO_2 3.3%, ZrO_2/HfO_2 17.3. 4) Cirtolites from strongly albitized pegmatites (Table 1, Analyses 15-18); 5.3-7.4 % HfO_2, ZrO_2/HfO_2 8 - 11.5. 5) Late cirtolites from replacement pegmatites bearing rare metals (Table 1, Analyses 19 - 24); 6.6 - 13.8% HfO_2, the ZrO_2/HfO_2 ratio varies between 3.7 and 9.1. Table 2 is a summary of table 1. This in-

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SOV/7-59-2-5/14

On the Ratio of Hafnium and Zirconium in the Zircons of Granite Pegmatites

vestigation shows that hafnium is enriched in the course of the pegmatite process while the zirconium-hafnium ratio decreases; early formed zircons correspond completely to the zircons contained in granites. In pegmatites descended from alkali syenites or granosyenites zircons habe a strikingly high zirconium-hafnium ratio. This may be used in determining genetic relationships. Zircons of metasomatic origin have a ZrO_2/HfO_2 ratio of between 3 and 20, while the ratio to be found in zircons from pneumatolytic - hydrothermal ore veins ranges from 25 to 45. Zircons of the last stages of the pegmatitic process contain up to 14% HfO_2; they may be regarded as hafnium minerals proper. There are 2 tables and 9 Soviet. references.

ASSOCIATION: Institut geokhimii i analaticheskoy khimii im. V. I. Vernadskogo AN SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR). Vsesoyuznyy institut mineral'nogo syr'ya, Moskva (All-Union Institute of Mineral Raw Materials, Moscow)

SUBMITTED: November 13, 1958

Card 2/2

SOV/75-14-4-2/30

5(2)
AUTHORS: Shevaleyevskiy, I. D., Nalimov, V. V., Vaynshteyn, E. Ye.

TITLE: Investigation of the Errors in X-ray Spectroscopic Analysis
PERIODICAL: Zhurnal analiticheskoy khimii,1959,Vol 14,Nr 4,pp396-403 (USSR)
ABSTRACT: The errors of X-ray spectroscopic analysis were investigated by quantitative X-ray spectrographic determination of zirconium and hafnium in minerals and ores. The authors ascertained the relations between the parameters of the calibration curve on the side, and changes of the working conditions during the analysis and the development of the spectrogram on the other side. Contrary to optical spectroscopic analysis where generally both parameters of the calibration curve change in the course of time, only a reciprocal parallel displacement of the calibration curve occurs in X-ray spectroscopic analysis. This fact permits the determinations on the basis of a single constant calibration curve, the position of which is controlled with the help of a standard with not too small a content of the respective element. The straying of the results can be split up into three components: σ_R - error due to lack of reproducibility, characterized by the straying of the results in relation to an arithmetic mean which was cal-

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culated for a short period; σ_{Ei} - error caused by the instability of the process of rubbing the sample into the anode; $\sigma_{T'}$ - error caused by other uncontrollable factors which change in the course of time. The most important of these factors is the lack of constancy during the development of the film. At known values of σ_R, σ_{Ei} and $\sigma_{T'}$, the constant calibration curve must be displaced parallelly only if the point which corresponds to the control standard sample, is further away than

$\pm 2\sqrt{\frac{\sigma_R^2}{nm} + \frac{\sigma_{Ei}^2}{m}}$ (m - number of parallel rubbings, n - number of parallel determinations of each rubbing). If this parallel displacement of the curve surmounts the limits

Card 2/4 $\pm 2\sqrt{\frac{\sigma_R^2}{nm} + \frac{\sigma_{Ei}^2}{m} + \sigma_t^2}$, the results are uncertain and the

determination must be repeated. When using an anode with four slits for increasing the exactitude of the determinations, it is suitable to choose m = 2, n= 2 for the sample to be analyzed as well as for the standard. When using a constant calibration curve for rapid determinations, without the use of a control standard, an increase in the number of exposures for each rubbing is of little consequence on the results, since the error in the determination depends mainly on $\sigma^2_{Ei} + \sigma^2_{T}$, which quantity is not reduced thereby. The accuracy of the determination, when using a constant calibration curve, cannot be increased even by a periodical check of the calibration curve. The error analysis is fully discussed in the paper. There are the following tables: 1) and 2): Results of the examination of the hypothesis of a normal error distribution for errors in the reproducibility, and for the straying between the results of X-ray spectroscopic analysis and chemical analysis; 3) and 5): Compilation of the calculation data for the investigation of the straying which is caused by the influence of one factor (Table 3) and by the influence of two factors

(Table 5); 4): Root square deviations and the straying coefficients in the determination of hafnium; 6) Results of the analysis of error strayings, which was carried out by the determination of zirconium; 7) Relation between the quantity of the errors in the determination of ΔS on the one side, and the number of rubbings (m) and the number of parallel determinations (n), on the other side. There are 9 figures, 7 tables, and 12 references, 7 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, AS USSR, Moscow)

SUBMITTED: June 12, 1958

SHEVALEYEVSKIY, I.D.; PAVLENKO, A.S.; VAYNSHTEYN, E. Ye.

Relation between the behavior of zirconium and hafnium and the petrochemical characteristics of magmatic and alkaline-metasomatic rocks. Geokhimiia no.3:222-230 '60. (MIRA 14:5)

1. V. I. Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences U.S.S.R., Moscow.
(Zirconium)
(Hafnium)
(Rocks, Igneous)

KOSTERIN, A.V.; SHEVALEYEVSKIY, I.D.; RYBALOVA, E.K.

The Zn/Hf ratio in zircons of some igneous rocks on the northern slope of the Kurama Range. Geokhimiia no.5:451-454 '60. (MIRA 13:8)

1. Far East Branch of the Academy of Sciences, U.S.S.R.
(Kurama Range—Rocks, Igneous) (Zirconium) (Hafnium)

KUKHARENKO, A.A. ; VAYNSHTEYN, E.Ye.; SHEVALEYEVSKIY, I.D.

The zirconium hafnium ratio in rock-forming pyroxenes and zirconium minerals of the Paleozoic complex of ultrabasic and alkaline rocks in the Kola Peninsula. Geokhimiia no.7:610-617 '60. (MIRA 13:11)

1. Chair of Geochemistry, Leningrad State University and V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.
(Kola Peninsula--Rocks, Igneous) (Zirconium)
(Hafnium)

LIPOVA, I.M.; SHEVALEVSKIY, I.D.

Zirconium hafnium ratio in zircons from pegmatites of various composition. Geokhimiia no.7:634-636 '61. (MIRA 14:6)

1. Institut geokhimii i analiticheskoy khimii imeni V.I.Vernadskogo, AN SSSR, Moskva.
(Zirconium) (Hafnium) (Pegmatites)

BULAKH, A.G.; SHEVALEYEVSKIY, I.D.

Mineralogy and crystallography of calzirtite from alkali rocks and carbonatites. Zap. Vses. min. ob-va 91 no.1:14-29 '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut, Leningrad i Institut geokhimii i analiticheskoy khimii AN SSSR, Moskva.

(Zirconates)

LYAKHOVICH, V.V.; SHEVALEYEVSKIY, I.D.

Zirconium hafnium ratio in the accessory zircon of granitoids. Geokhimiia no.5:440-452 '62. (MIRA 15:7)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare elements, Academy of Sciences, U.S.S.R., Moscow.
(Zirconium) (Hafnium)

TUROVTSEVA, Z.M.; SHEVALEYEVSKIY, L.D.

Use of an omegatron in analyzing residual gases at low pressures. Prib. i tekh. eksp. 8 no.6:128-134 N-D '63. (MIRA 17:6)

1. Institut geokhimii i analiticheskoy khimii AN SSSR.

SHEVAL'OV, V.Ye.

FILATOV, V.P.; KIRSHFEL'D, I.P.; SKORODINS'KA, V.V., starshiy naukoviy spivrobitnik; SHEVAL'OV, V.Ye., starshiy naukoviy spivrobitnik

Tissue therapy for leprosy. Medych.zhur. 16:371-389 '47. (MIRA 10:12)

1. Z Ukrains'kogo naukovo-doslidnogo eksperimental'nogo institutu ochnikh khvorob im. V.P.Filatova (direkotr - laureat Stalins'koi premii diysniy chlen AN URSR V.P.Filatov). 2. Direktor Ukrains'kogo leprozoriyu (for Kirshfel'd)
(TISSUE EXTRACTS) (LEPROSY)

SHEVAL'SKI, Robert, prof., inzh.; VECHOREK, Benedikt, inzh.

New design of diaphragms for low pressure steam turbines.
Energomashinostroenie 6 no.3:32-35 Mr '60.
(MIRA 13:6)

(Steam turbines)

BULGARIA

SHEVALEY, Antoan, Dr, Veterinarian in Workers' Cooperative Agricultural Enterprise (trudovo-kooperativnito zemedelsko stopanstvo,) Resen, Turnovsko.

"Rumenotomy in Acute Abdominal Distention in Cattle."

Sofia, Veterinarna Sbirka, Vol 60, No 4, 1963; pp 20-22.

Abstract: Case history of abdominal distention with severe symptoms, due to fresh alfalfa in 30 cows: 20 responded to conventional medical treatment. When emergency rumenotomy in one of the other 10 who was apparently on the point of death was followed by astoundingly swift recovery, the remaining 9 were also so operated, with excellent results; antibiotics and sulfonamides seemed to effectively prevent all complications. Photograph.

1/1

Shevalye A.V.

SHEVAL'YE, A.V.

On IA.M. Terner's remarks. Zhur.nevr. i psikh.55 no.8:640 '55.
(EPILEPSY) (TERNER, IA.M.) (MLRA 8:10)

SHEVAL'YE, A.V.

Spinal shock. Vop.neirokhir. 21 no.1:53-54 Ja-F '57. (MIRA 10:3)

1. Institut eksperimental'noy i klinicheskoy meditsiny Akademii nauk ESSR.

(SPINAL CORD, wounds and inj.
restoration of reflexes after spinal shock)
(SHOCK
spinal, restoration of reflexes)
(REFLEX,
restoration after spinal shock)

SHEVAL'YE, A.V.; RAUDAM, E.I.

Diagnostic value of Puussepp's reflex [with summary in French]. Zhur.nevr. i psikh. 57 no.10:1219-1222 '57. (MIRA 10:12)

1. Institut eksperimental'noy i klinicheskoy meditsiny Akademii nauk Estonskoy SSR i kafedra nevropatologii Tartusskogo gosudarstvennogo universiteta.

(REFLEX,
Poussep's, diag. value in brain tumors (Rus))
(BRAIN NEOPLASMS, diagnosis,
Poussep's reflex (Rus))

SHEVAL'YE, A.V.; SHAMARDIN, B.M.; SHAMARDINA, N.A.; YANES, Kh.Ya. [Jänes, H.] (Tallinn).
Influence of vibration from an electric drill on drillers in shale mines. Gig. truda i prof. zab. 4 no.5:24-26 My '60. (MIRA 13:9)

1. Institut eksperimental'noy i klinicheskoy meditsiny Akademii nauk Estonskoy SSR.
(VIBRATION—PHYSIOLOGICAL EFFECT)
(BORING—HYGIENIC ASPECTS)

RAUDKEPP, F.Yu.; SHEVAL'YE, A.V.

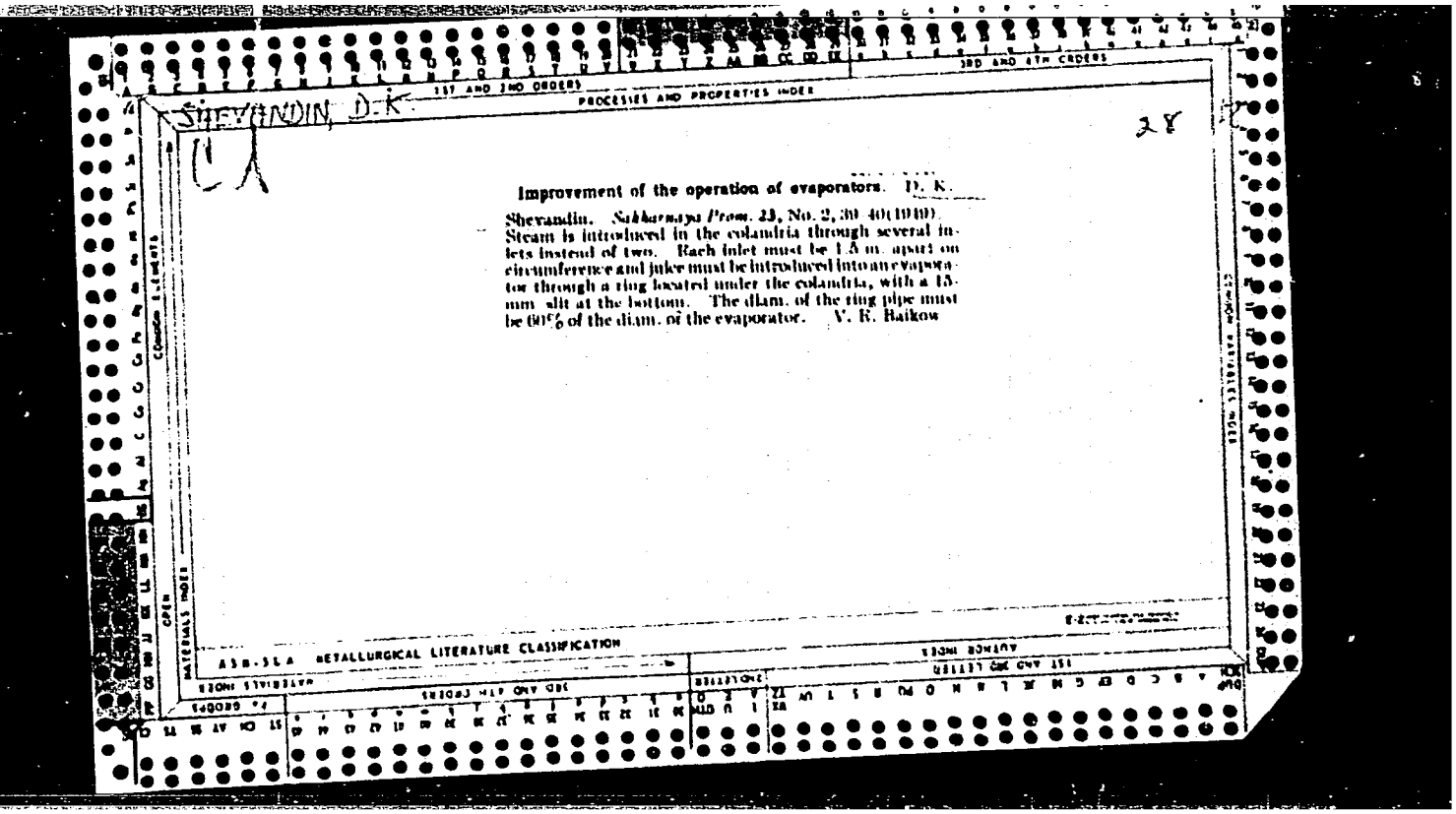
Surgical treatment of nontraumatic intracerebral hemorrhages. Zhur. nevr. i psikh. 61 no.5:641-644 '61. (MIRA 14:7)

1. Neyrokhirurgicheskoye otdeleniye Tallinskoy respublikanskoy bol'nitsy (glavnyy vrach M.G.Smirnova).
(APOPLEXY)

SHEVALYE, A.V.; RAUDKEPP, F.Yu.

Surgery in diskogenic lumbosacral radiculitis. Vop. neirokhir. no.5:52 '54. (MIRA 18:10)

1. Neyrokhirurgicheskoye otdeleniye (zav. F.Yu.Raudkepp) Tallinskoy respublikanskoy bol'nitsy.



SHEVANDIN, D.K.

28

Improvement of the operation of evaporators. D. K. Shevandin. *Sakharnaya Prom.* 23, No. 2, 39-40 (1949). Steam is introduced in the calandria through several inlets instead of two. Each inlet must be 1.5 m. apart on circumference and juice must be introduced into an evaporator through a ring heated under the calandria, with a 15-mm. slit at the bottom. The diam. of the ring pipe must be 60% of the diam. of the evaporator. V. R. Baikov

ISAYEV, I.P., prof., doktor tekhn. nauk; SHEVANDIN, N.A., inzh.

Statistical evaluation of the performance efficiency of locomotive spring suspensions. Trudy MIIT no.207:71-85 '65.
(MIRA 19:1)

PEROVA, A.A., dotsent, kand. tekhn. nauk; PUKHOVA, N.D., kand. tekhn. nauk; SHEVANDIN, M.A., inzh.

Correlation of the dynamic stresses in the truck frames and springs of VL8 electric locomotives. Trudy MIIT no.207:151-161 '65. (MIRA 19:1)

SHEVANDIN, V.A., inzh.

Effect of the load of a car per linear meter of the track on the operational indices of railroads. Trudy MIIT no.153:163-170 '62.
(Railroads—Freight)

ACCESSION NR: AT4014045 S/3073/63/000/000/0061/0074

AUTHOR: Razov, I. A.; Khudozhnikova, L. F.; Shevandin, Ye. M. (Deceased)

TITLE: Effect of cyclic stress on the tendency of steel to cold brittleness

SOURCE: Prochnost' metallov pri peremenny*kh nagruzkakh; materialy* tret'yego soveshchaniya po ustalosti metallov, 1962 g. Moscow, Izd-vo AN SSSR, 1963, 61-74

TOPIC TAGS: steel, steel brittleness, plastic deformation, fatigue, fatigue strength, embrittlement, creep, cold brittleness, cyclic stress, critical embrittlement temperature

ABSTRAC'.': It is well known that steel tends to become brittle in the cold and that this cold brittleness increases during cyclic stress, even at stresses below the fatigue limit, due both to the effects of plastic deformation and to the fatigue cracks which appear at the sites of stress concentration. In order to relate brittle strength and cold brittleness to the creep limit, the authors investigated the effect of cyclic bending stress (3000/min.) on the critical embrittlement temperature of smooth and notched samples of steel 3, steel SKS-1 and steel SKhL-4 in the annealed, hot-rolled or superheated (1150C) states. The critical embrittlement temperature was determined in two ways: from the curves relating temperature to impact toughness and to the relative fibrosity of the break,

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L 02013-67 EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) JD

ACC NR: AM6006733 (N) Monograph UR/

Shevandin, YEvgeniy Mikhaylovich; Razov, Igor' Aleksandrovich (Deceased)

42
B+1

Cold brittleness and ultimate plasticity of metals in ship building (Khladnolomkost' i predel'naya plastichnost' metallov v sudostroyenii) Leningrad, Izd-vo "Sudostroyeniye", 65. 0335 p. illus., biblio. 1,400 copies printed. 1965

TOPIC TAGS: low carbon steel, low alloy steel, metal physical property, brittleness, ductility, plasticity, plastic deformation, mechanical fracture, shipbuilding engineering

PURPOSE AND COVERAGE: The book presents results of experimental research and theoretical generalizations on problems of cold brittleness and ultimate plasticity of low carbon and low alloy steels used in shipbuilding. The book analyses the effect of temperature, loading speed, stress, scale, and elastic energy on the above properties of metals, and suggests methods for estimating the coefficient of ductility and ultimate plasticity of metals in structural elements. The book is intended for engineering and scientific personnel serving as specialists in physical metallurgy and shipbuilding technology, and may also be useful to workers in related fields.

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Ch. II. Methods for estimating the tendency of metals toward brittleness--50
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Ch. IV. Practical application of data in estimating the tendency of metals toward brittleness--128
Pt. II. Ultimate plasticity of metals:
Ch. V. Plastic deformation and ductile fracture of metals--146
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Ch. VII. Practical application of data in estimating ultimate plasticity of metals--295
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SUB CODE: 11, 13/ SUBM DATE: 14Oct65/ ORIG REF: 263/ OTH REF: 081

Card 2/2

BORODIN, V.P., inzhener; DARMANYAN, P.E.; YUDSON, I.A.; SHEVANDINA, L.S.

Transfer of open-hearth furnaces operated on mazut to natural gas fuel. Stal' 17 no.2:124-129 F '57. (MLRA 10:3)

1. Metallurgicheskiy zavod "Krasnyy Oktyabr".
(Open-hearth furnaces) (Fuel)

AKULINICHEV, I.T.; ANDREYEV, L.F.; BAYEVSKIY, R.M.; BAYKOV, A.Ye.: BUYLOV, G.G. GAZENKO, O.G.; GRYUNTAL', R.G.; ZAZYKIN, K.P.; KLIMENTOV, Yu.F.; MAKSIMOV, D.G.; MERKUSHKIN, Yu.G.; MONAKHOV, A.V.; PETROV, A.P.; RYABCHENKOV, A.D.; SAZONOV, N.P. ; UTYAMYSHEV, R.I.; FREYDEL', V.R.; KHIL'KEVICH, B.G.; SHADRINTSEV, I.S.; SHEVANDINA, S.B.; ESAULOV, N.G.; YAZDOVSKIY, V.I.

Method and means of medical and biological studies in a space flight. Probl. kosm. biol. 3:130-144 '64. (MIRA 17:6)

SHEVANKOVA, Z.A.

PHASE I BOOK EXPLOITATION SOV/3559

Akademiya nauk SSSR. Institut metallurgii. Nauchnyy sovet po probleme zharoprochnykh splavov

Issledovaniya po zharoprochnym splavam, t. 5 (Investigations of Heat-Resistant Alloys, Vol 5) Moscow, Izd-vo AN SSSR, 1959. 423 p. Errata slip inserted. 2,000 copies printed.

Ed. of Publishing House: V.A. Klimov; Tech. Ed.: I.F. Kus'min; Editorial Board: I.P. Bardin, Academician, G.V. Kurdyumov, Academician, N.V. Ageyev, Corresponding Member, USSR Academy of Sciences (Resp. Ed.), I.A. Oding, I.M. Pavlov, and I.F. Zudin, Candidate of Technical Sciences.

PURPOSE: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses in metallurgy.

COVERAGE: This book, consisting of a number of papers, deals with the properties of heat-resisting metals and alloys. Each of the papers is devoted to the study of the factors which affect the properties and behavior of metals. The effects of various elements such as Cr, Mo, and V on the heat-resisting properties of various alloys are studied. Deformability and workability of certain metals as related to the thermal conditions are the object of another study described. The problems of hydrogen embrittlement, diffusion and the deposition of ceramic coatings on metal surfaces by means of electrophoresis are examined. One paper describes the apparatus and methods used for growing monocrystals of metals. Boron-base metals are critically examined and evaluated. Results are given of studies of interatomic bonds and the behavior of atoms in metal. Tests of turbine and compressor blades are described. No personalities are mentioned. References accompany most of the articles.

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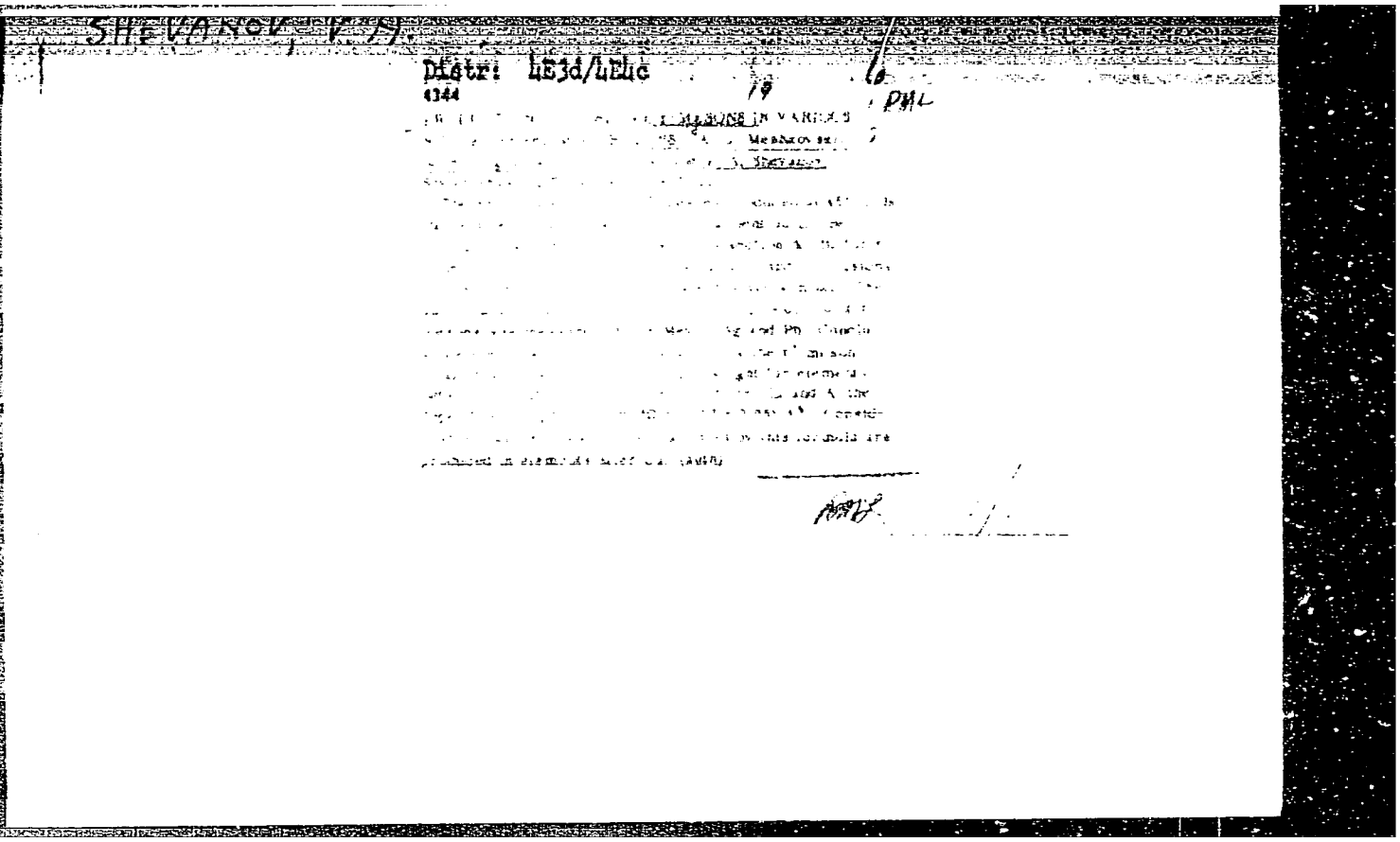

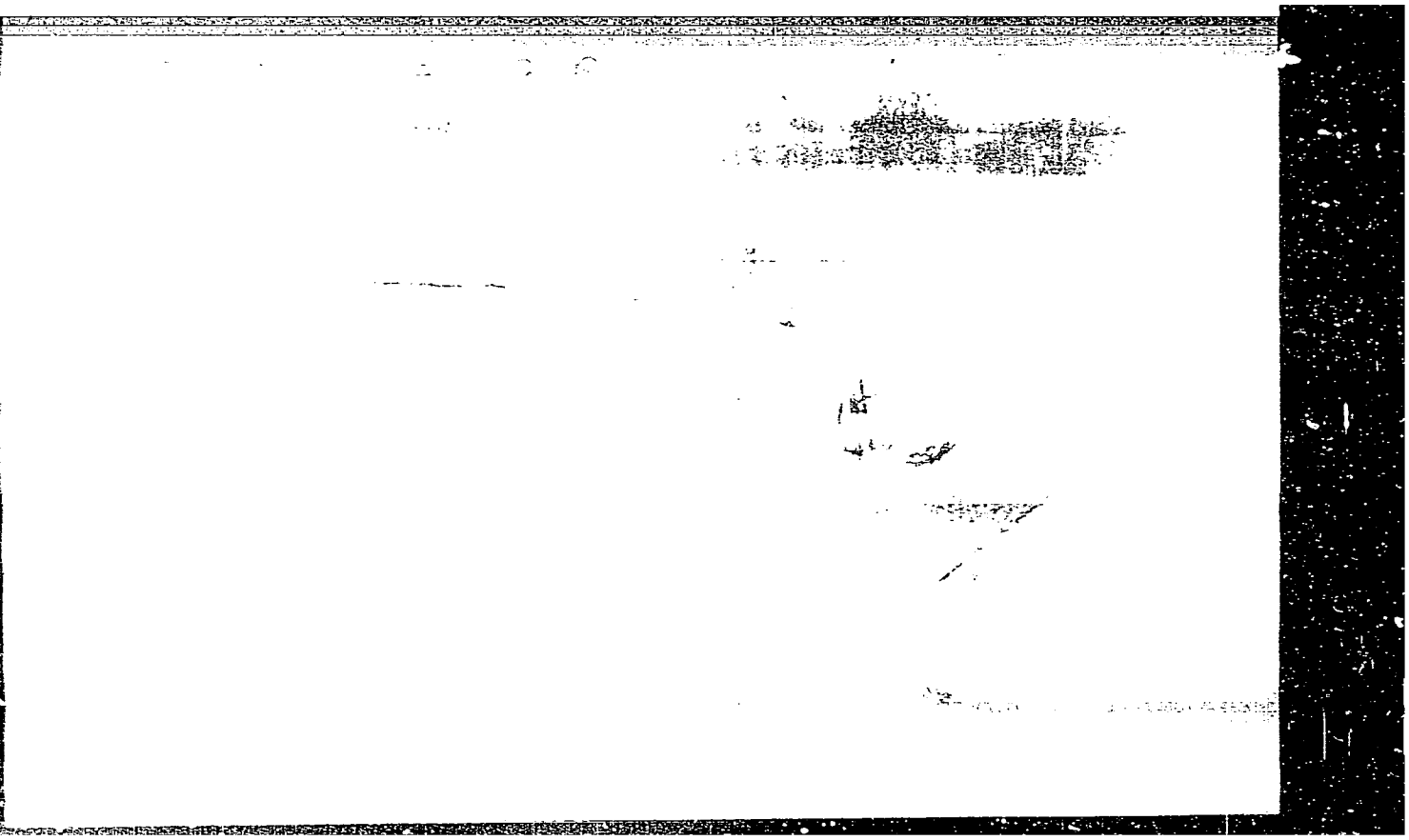

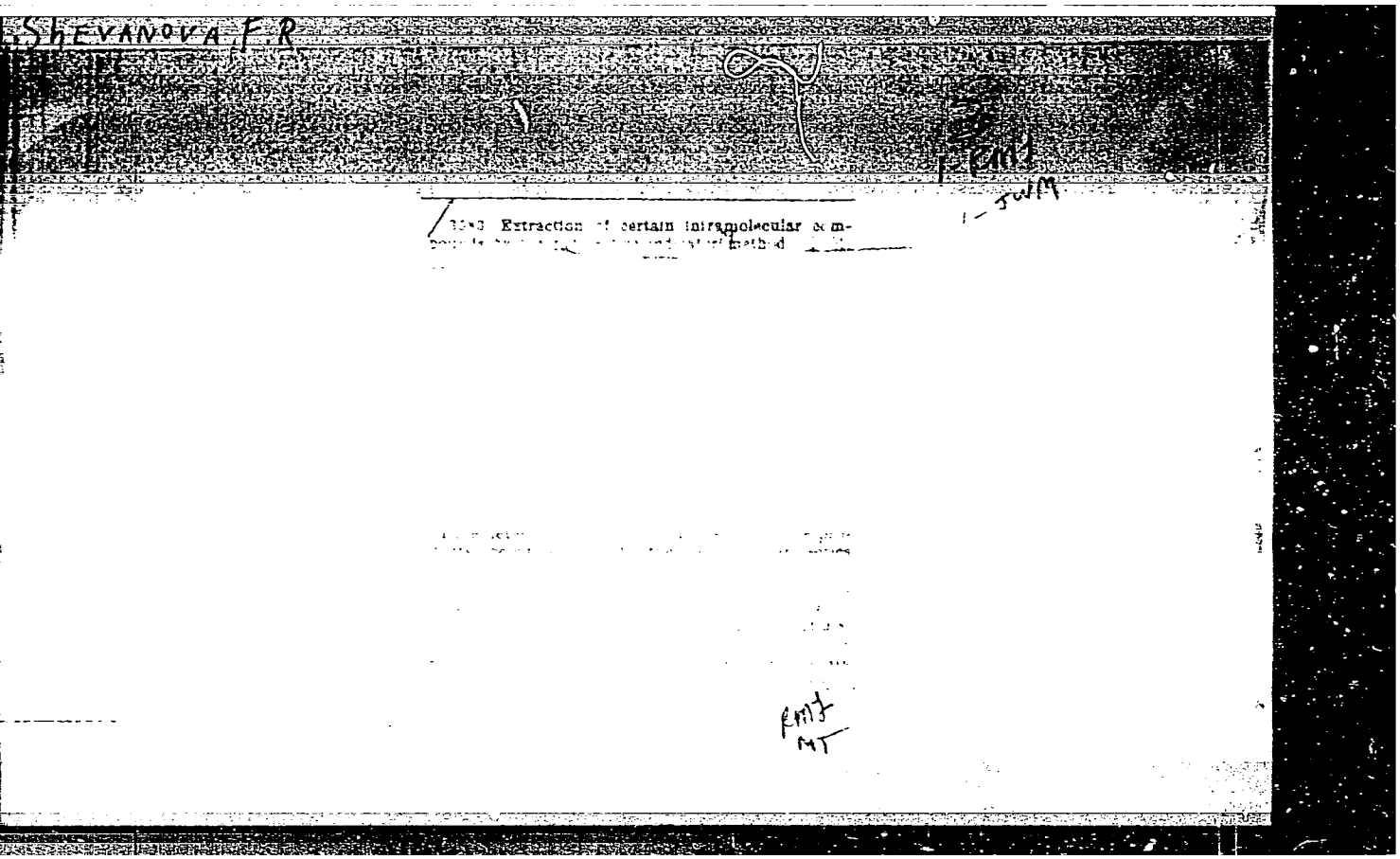

SHEVANOVA, E.R.

1456 **Radiometric titration of zinc and copper.** I. M. Korenman, E. R. Shevanova, E. A. Demina and M. I. Shaposhnikova (N. I. Lobachevskii Gorki State Univ.). *Zavod. Lab.*, 1956, 22 (10), 1143–1146.—Zinc is determined radiometrically by titration with $K_4Fe(CN)_6$ or with ammonium mercurithiocyanate on a micro-scale in the presence of ^{65}Zn. In several centrifuge tubes similar vol. of the soln. to be analysed, together with 1 ml of a soln. containing 0·14 mg of ^{65}Zn are acidified with dil. HCl (1 + 1) and diluted with water so that each total vol. after addition of various amounts (0 to 1 ml) of $K_4Fe(CN)_6$ soln. (1 ml ≡ 1·00 mg of Zn) is 3 ml. The soln. are centrifuged and 0·2 ml of each is placed on filter-paper. After the papers have been dried the radioactivities are determined and the results are plotted against the vol. of titrant. The end-point is read from the graph. Since the curve is linear over most of its course the process can be shortened by determining two activities only, the first corresponding to the original soln. and the second to that of the liquid after addition of 30 to 70% of the amount of titrant necessary and extrapolating the line joining the points to zero activity. [illegible] $K_4Fe(CN)_6$ soln. [illegible] this fact or since [illegible] determined. Ammonium mercurithiocyanate can be used similarly [illegible] the presence of ^{65}Zn or [illegible]

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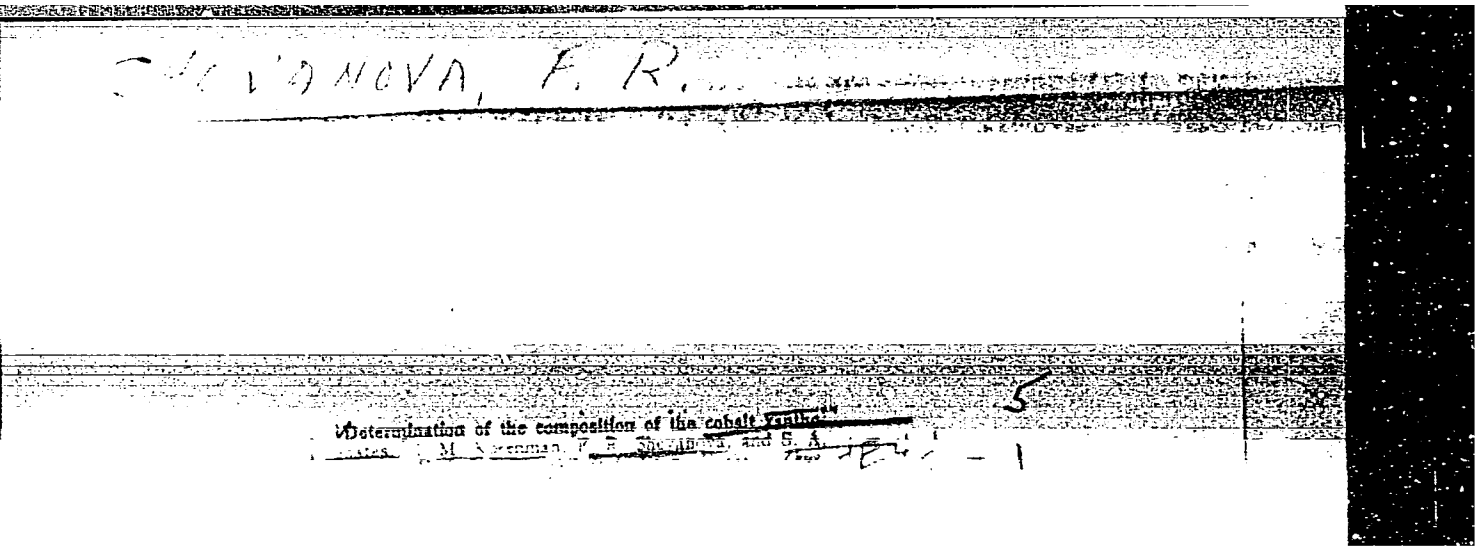

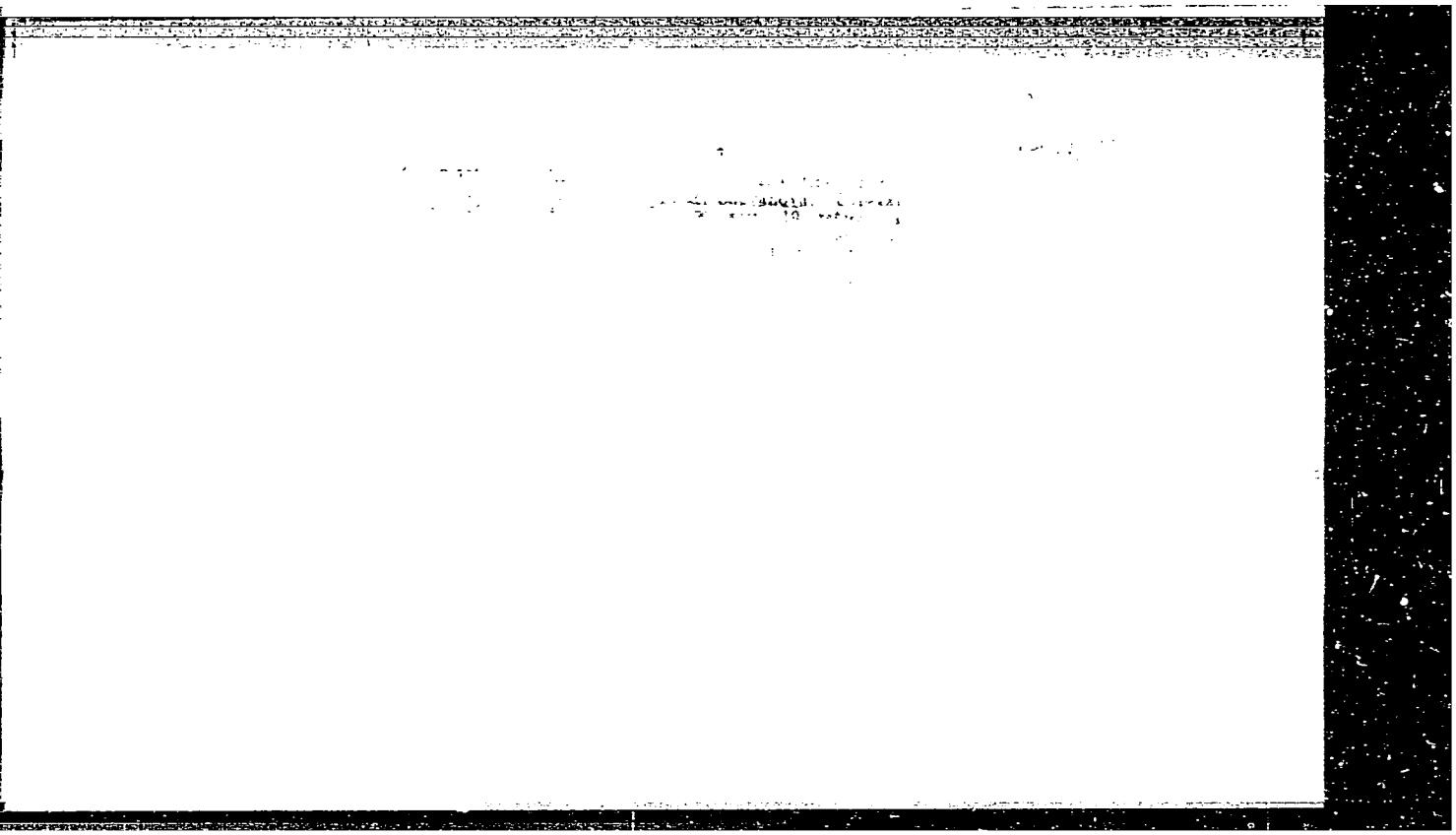

SHEVARDIN, A.N.

SHEVARDIN, A.N.

"Investigation of Complete Polarization of Rochelle Salt at Temperatures Exceeding the Temperature of the Upper Curie Point." Cand Phys-Math Sci, Chair of Experimental Physics, Leningrad State Pedagogical Inst imeni A.I. Gertsen, Min Education RSFSR, Leningrad, 1955. (KL, No 15, Apr 55)

SO: Sum.No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

G-3

SHEVARDIN, A.N.

USSR/Electricity - Semiconductors 12142

Abs Jour : Referat Zhur - Fizika, No 5, 1957

Author : Kosman, M.S., Shevardin, A.N.

Inst : -

Title : The Upper Curie Point for Rochelle Salt.

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 7, 1443-1450

Abstract : The hysteresis loops of Rochelle salt crystals (I) were investigated at temperatures from 18 to 40° in electric fields up to 45 kv/cm at a frequency of 50 cycles. It is shown that the hysteresis phenomenon in strong fields continues to exist also at T > 24°. In the authors' opinion, the spontaneous and residual polarization at the Curie point do not cease, and the magnitude of the polarization is connected with the intensity of the electric field. Since the spontaneous polarization turned out to be the same fro various electric field intensities for all the investigated temperatures, it is concluded that the

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Orig Pub : ...

...of Seignette's salt were studied ... 45 000 v/cm. It