"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S.

Use of geoacoustic methods for the solution of earthquake forecasting problems. Trudy Geof.inst.25:157-161 '54. (MLRA 7:12)
(Seismology)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

"Electrodynamic Vibrometers of the Sonic Range".

Geophysics Institute, Academy of Sciences USSR

A report delivered at a conference on electro-acoustic held by the Acoustic Commission, the Acoustic Institute of the AS, USSR, and the Kiev Order of Lenin Polytechnic Inst., from 1-[illegible] July 1955 in Kiev.

SO: Sum 728, 28 Nov 1955

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

IORISH, Yuliy Iosifovich; ANTSYFEROV, M.S., kandidat fiziko-matematicheskikh nauk, retsenzent; ZHITOMIRSKIY, V.K., doktor tekhnicheskikh nauk, redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Vibration measurement; general theory, methods and instruments] Izmerenie vibratsii; obshchaia teoriia, metody i pribory. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 403 p.
(Vibration--Measurement) (MLRA 9:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S.; PEREVERZEV, L.B.

Seismoacoustic apparatus for recording and studying warning signs of sudden outbursts of coal and gas. Trudy Geofiz.inst.no.34:208-242 '56. (MLRA 10:2)

(Mine explosions) (Geophone)
(Coal mines and mining--Safety measures)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S.; KONSTANTINOVA, A.G.

Analysis of seismoacoustic phenomena during two outbursts of coal and gas in Donets Basin mines. Trudy Geofiz.inst.no.34:243:268 '56. (Donets Basin--Coal mines and mining--Safety measures)(MLRA 10:2) (Mine explosions)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

SOV/124-57-9-10813

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 140 (USSR)

AUTHORS: Antsyferov, M. S., Zvolinskiy, N. V., Konstantinova, A. G.

TITLE: On the Emission and Propagation of Quasi-harmonic Elastic Waves Under the Conditions Obtaining in Underground Mines (Ob izuchenii i raspostranenii kvazigarmonicheskikh uprugikh voln v usloviyakh podzemnykh vyrabotok)

PERIODICAL: Tr. Geofiz. in-ta. AN SSSR, 1956, Nr 34 (161), pp 280-295

ABSTRACT: The authors examine problems relating to the emission and propagation of quasi-harmonic stationary elastic waves under conditions obtaining in underground mines. For the purposes of their examination of these problems the medium is considered to be ideally homogeneous. They examine two types of driving forces: 1) Forces acting from within the elastic medium [three-dimensional (spherical; Transl. Ed. Note)] waves and 2) forces acting on the free boundary of a semi-infinite medium (surface waves). It is established that the driving power needed to excite surface waves having a given amplitude is approximately two orders of magnitude smaller than the driving power needed to excite three-dimensional waves having that same amplitude.

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SOV/124-57-9-10813

On the Emission and Propagation of Quasi-harmonic Elastic Waves Under the (cont.)

Also, the authors elucidate the law whereby the intensity of the emissive power must increase with the observer's distance from the emitter. An account is given of observation methods used, and the results obtained thereby, in coal mines of the Donbass. While, in general, the author's experimental findings do support their theoretical conclusions, the wave-attenuation picture as traced by them is rendered more complicated in some respects by the operation of interference and resonance factors. Included are experimental data on the propagation distance of elastic waves (in the 300-1,000 cps frequency range) in Donbass coal seams and in the rock enclosing them.

Authors' résumé

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S., kand.fiziko-matemat.nauk; KONSTANTINOVA, A.G., kand. geologo-mineralogicheskikh nauk.

Using geophones in mine rescue work. Bezop.truda v prom. 1 no.10:25-26 O '57. (MIRA 10:11)

(Geophone)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

AUTHOR: Solomonov, M. SOV/24-58-4-38/39

TITLE: Combating Sudden Ejections of Coal and Gas From Coal Mines (Bor'ba s vnezapnymi vybrosami uglya i gaza v ugol'nykh shakhtakh) (Conference at the Institute of Mining of the Ac.Sc. USSR) (Soveshchaniye v Institute gornogo dela Akademii nauk SSSR)

PERIODICAL: Izvestiya Akademii Nauk, SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 4, pp 155 - 156 (USSR)

ABSTRACT: On February 17 - 21, a conference was held at the Institut gornogo dela Akademii nauk SSSR (Mining Institute of the Ac.Sc.USSR) on the results and prospects of research work on combating sudden ejections of coal and gas and coal explosions in mines. Members of the Central Commission for combating sudden ejections of coal and gas, representatives of scientific research and project institutes and of higher teaching establishments participated in the conference. After a brief opening speech by Academician M.A. Skochinskiy, the following papers were read at the conference: "Investigation of the Conditions in the Field of Application of Local Methods of Preventing

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Sudden Ejections of Coal and Gas in preparatory workings and in drawing (V.E. Khodot); "Development of a Combination of Measures for Safe Mining of Coal in Stopes in Unprotected Zones of Seams Which are Dangerous From the Point of View of Sudden Ejections of Coal and Gas" (M.M. Krichevskiy); "Finding a Safe and Productive System of Working Individual Steeply Sloping Seams Which Have an Inclination to Develop Sudden Ejections of Coal and Gas" (B.S. Lokshin); "Finding an Effective System of Working Thin Seams for the Purpose of Utilising Them as Protective Seams" (B.S. Lokshin); "System of Working of the "Pugachevka" Mine of the im. Artem Trust of Dzerzhinskugol' (J.I. Zhizlov); "System of Working Individual Seams of the Central Donbass region Where There is a Danger of Sudden Ejections of Coal and Gas (D.P. Borisov); "Safe and Effective Methods of Working Coal Seams of the Yegorshinskiy deposits Which are Dangerous From the Point of View of Sudden Ejections of Coal and Gas" (D.P. Borisov); "Investigation of the Tendency to Ejections of Coal of the Makhnevskiy anthracite

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deposits and Justification of Rational Methods of Mining This Coal (I.N. Sidorov); "Method of Detection of Sections Which Are Dangerous as Regards Sudden Ejections in Seams of the Yegorshinskiy mining region" (O.I. Chernov); "Development of Geophysical Methods and Apparatus for Establishing and Studying the Forerunners of Sudden Ejections of Coal and Gas" (U.S. Antsyferov); "Results of Scientific Investigations on the Problem of Combating Shocks in Coal Mines During 1957" (M.G. Avershin); "On the State of Designing and Testing Drilling Machines and Equipment for Passing Through Galleries in Seams Which Are Dangerous From the Point of View of Ejections of Coal and Gas" (K.B. Kogan). On the basis of the presented papers and discussions, the participants in the conference concluded that in 1957 progress was achieved in the theory of sudden ejections of coal and gas.

Some of the interesting items discussed at the conference are briefly summarised.

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3(10)

AUTHOR: Antsyferov, M. S. SOV/20-121-5-16/50

TITLE: The Laboratory Reproduction of the Seismo-Electric Effect of the Second Kind (Laboratornoye vosproizvedeniye seysmoelektricheskogo effekta vtorogo roda)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 5, pp 827 - 829 (USSR)

ABSTRACT: The author first discusses some previous papers on this subject. The main obstacle for the reproduction of the seismo-electric effect of the second kind under laboratory conditions is the deficiency of a sufficiently powerful exciter (vozbuditel'). The author was able to overcome this difficulty by using the resonance properties of the rock sample which has the shape of a prismatic rod. Vibrations of sound frequency were excited in a 235 mm long rod of previously moistened shale by means of a special vibrator which consisted of a piezo-electric hydrophone fed by the alternating tension of a sound generator. The experimental apparatus is shortly described and also shown in form of a graph. Observing

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the figures on the oscillograph screen, very sharp and rather intensive resonances (with the eigenfrequencies of the rod) could be observed. Two resonances of this kind of 2800 and slightly more than 5000 cycles could be observed. These resonances agree well with the eigenfrequencies of the rod determined by V.I.Bune. The sharpness of the resonances of the seismoelectric effect depends to a considerable degree on the humidity of the rock. The sharped resonances observed by the author had an absolute width of 10-20 cycles, but for frequencies of 3000-5000 cycles this corresponds to a maximum absolute with of 0,5%. The amplitude of the vibration velocity of the ends of the rod is ~ 10 cm/sec which corresponds to a displacement of ~ 3-5 μ. In dry shale (without a moisture in the pores) the seismo-electric effect could not be observed. This agrees with the results obtained by Mokli and tends to confirm the dissociation hypothesis of Ya.I.Frenkel'. The late Academician G.A.Gamburtsev suggested the observations discussed in this paper and took active part in them. There are 2 figures and 4 references,

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The Laboratory Reproduction of the Seismo-Electric Effect of the Second Kind SOV/20-121-5-16/50

3 of which are Soviet.

PRESENTED: April 18, 1958, by A.A.Skochinskiy, Academician

SUBMITTED: April 16, 1958

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, Mikhail Sergeyevich; KONSTANTINOVA, Aleksandra Georgiyevna; PEREVERZEV, Leonid Borisovich. Prinimal uchastiye IVANOV, V.S. SKOCHINSKIY, A.A., akademik, otv.red.; GRIGOR'YEV, Ye.N., red. izd-va; SIMKINA, G.S., tekhn.red.

[Seismoacoustic investigations in coal mines] Seismoakusticheskie issledovaniia v ugol'nykh shakhtakh. Moskva, Izd-vo Akad.nauk SSSR, 1960. 103 p. (MIRA 13:11)
(Coal mines and mining--Accidents) (Seismometry)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S., kand.fiz.-mat.nauk; VUKALOVICH, M.P., prof., doktor tekhn.nauk, laureat Leninskoy premii; KRIPETS, N.S., insh.; LAZAREV, L.P., prof., doktor tekhn.nauk; MAZYRIN, I.V., insh.; NIKITIN, N.N., kand.fiz.-mat.nauk; OCHKIN, A.V., insh.; PANICHKIN, I.A., prof., doktor tekhn.nauk; PETUKHOV, B.S., prof., doktor tekhn.nauk; PODVIDZ, L.G., kand.tekhn.nauk; SIMONOV, A.F., insh.; SMIRYAGIN, A.P., kand.tekhn.nauk; TOKMAKOV, G.A., kand.tekhn.nauk; FAYNZIL'BER, N.M., prof., doktor tekhn.nauk; KHALIZEV, G.P., kand. tekhn.nauk; CHESACHENKO, V.F., kand.tekhn.nauk; YAN'SHIN, B.I., kand.tekhn.nauk; ACHERKAN, N.S., prof., doktor tekhn.nauk, red.; KUDRYAVTSEV, V.N., prof., doktor tekhn.nauk, red.; PONOMAREV, S.D., prof., doktor tekhn.nauk, laureat Leninskoy premii; red.; 'SATEL', E.A., prof., doktor tekhn.nauk, red.; SERENSEN, S.V., akademik, red.; RESHETOV, D.N., prof., doktor tekhn.nauk, red.; KARGANOV, V.G., insh., red.graficheskikh materialov; GIL'DENBERG, M.I., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Manual of a mechanical engineer in six volumes] Spravochnik mashinostroitelia v shesti tomakh. Red.sovet N.S.Acherkan i dr. Izd.3., ispr. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.2. 1960. 740 p. (MIRA 14:1)

1. AN USSR (for Serensen).
(Mechanical engineering) (Machinery--Construction)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S., kand.tekhn.nauk

Seismic acoustic method for preventing sudden coal and gas outbursts. Bezop.truda v prom. 5 no.4:17-19 Ap '61. (MIRA 14:3)
(Coal mines and mining—Safety measures)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S., kand. fiziko-matematicheskikh nauk; NIKITCHENKO, R.F., insh.; BALAKIREVA, N.G., insh.

Apparatus for laboratory hydraulic modeling seismic phenomena in mine workings. Nauch. soob. IGD 11:118-125 '61. (MIRA 16:4)

(Blasting) (Hydraulic models)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S., kand.fiziko-matematicheskikh nauk; KAZAMANOV, Yu.G., inzh.; KACHANOVA, N.S.; PEREVERZEV, L.B.

ShShG-1 and ShShG-2 mine geophones for use in boreholes. Nauch. soob. IGD 17:135-140 '62. (MIRA 16:7)

(Geophone)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S.

The electroseismic effect. Dokl. AN SSSR. 144 no.6:1295-1297 Je '62. (MIRA 15:6)

0665

1. Institut gornogo dela im. A.A. Skochinskogo Akademii nauk SSSR. Predstavleno akad. L.D. Shevyakovym.
(Seismic prospecting)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, M.S., kand. fiz.-matem. nauk; IVANOV, V.S., inzh.; SHEVCHENKO, L.N., inzh.; KAMNEVA, T.N., red.

[FGI geophone and methods for its use in hole prospecting] Geofon FGI i metodika ego primeneniia dlia poiska skvazhiny. Moskva, In-t gornogo dela, 1963. 17 p. (MIRA 17:8)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

IORISH, Yu.I.; ANTSYFEROV, M.S., kand. fiz.-mat. nauk, retsenzent; BRANOVSKIY, M.A., kand. tekhn.nauk, red.; BRATANOVSKIY, V.A., red.; BYKHOVSKIY, I.I., inzh., red.; VASIL'YEVA, R.V., inzh., red.; KORITYSSKIY, Ya.I., kand. tekhn. nauk, red.; KUSHUL', M.Ya., doktor tekhn. nauk, red.; PEVZNER, L.A., inzh., red.; SHMELEV, V.A., kand. tekhn. nauk, red.; BYSTRITSKAYA, V.V., red.izd-va; UVAROVA, A.F., tekhn. red.

[Vibrometry; measurement of vibrations and shocks, general theory, methods and devices] Vibriometriia; izmerenie vibratsii i udarov. Obshchaia teoriia, metody i pribory. Izd.2., perer. i dop. Moskva, Mashgiz, 1963. 771 p. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ACCESSION NR: AP4014027

S/0049/64/000/001/0085/0089

AUTHORS: Antsy*ferov, M. S.; Antsy*ferova, N. G.; Kagan, Ya. Ya.

TITLE: Study of the velocities of elastic wave propagation and absorption in frozen sand

SOURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 1, 1964, 85-89

TOPIC TAGS: elastic wave, seismic wave, wave propagation, wave attenuation, frozen sand core, massive frozen sand, wave propagation velocity, wave attenuation velocity, Poisson coefficient, frozen sand model, seismic exploration model, IKL-5 seismoscope

ABSTRACT: Longitudianal wave propagation and attenuation velocities in frozen sand cores and the propagation of longitudinal and transverse waves in massive frozen sand were studied in models. The IKL-5 impulse device (analogous to the usual laboratory and field seismoscopes) was used for the production and reception of elastic waves. The material used in the models was a homogeneous quartz sand of average grain size with 17-20% water saturation. All measurements were taken at -15C. The impulse frequencies used in the sand-core model were 28 to 170 kcps, and

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the P wave average velocity was 4300 ± 100m/sec. The Poisson coefficient calculated from the formula

$$\sigma = \frac{1}{4}\left[\xi^2 - 1 + \sqrt{(\xi^2 - 1)^2 - 8(\xi^2 - 1)}\right],$$

was 0.23 ± 0.03, where $\xi = V_{P_C}/V_{P_M}$ ($V_{P_{Core}}/V_{P_{Massive}}$). The P wave velocity ($V_P$) in the massive sand was 4650 ± 50 m/sec, and the S wave velocity was 2760 ± 40 m/sec. In the latter case the Poisson coefficient was calculated from the formula

$$\sigma = \frac{\left(\frac{V_{P_M}}{V_{S_M}}\right)^2 - 2}{2\left[\left(\frac{V_{P_M}}{V_{S_M}}\right)^2 - 1\right]},$$

and was equal to 0.23 ± 0.02. The coefficient of wave attenuation increased with the increase in impulse frequency. Thus, for impulses of 28, 45, 65, 75, 170 kcps, the attenuation coefficients were respectively 0.015, 0.021, 0.031, 0.046, 0.140 cm^{-1}. "The authors express their appreciation to G. I. Man'kovskiy for his initiative and his assistance in this work." Orig. art. has: 6 figures and 4

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ACCESSION NR: AP4014027

formulas.

ASSOCIATION: Institut gornogo dela im. A. A. Skochinskogo (Mining Institute)

SUBMITTED: 22Apr63 DATE ACQ: 14Feb64

SUB CODE: ML, PH NO REF SOV: 006 ENCL: 00

OTHER: 002

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L 25 [illegible]-65 EWT [illegible] (EWA(h)) Feb [illegible]

ACCESSION NR: AP5001950 [illegible]

20

AUTHOR: Antsyferov, M. S.; Antsyfe[illegible] [illegible]

TITLE: The propagation [illegible]

SOURCE: AN SSSR. Izvestiya. Seriya geofizicheskaya, no. 12, 1964, 1774-1781

TOPIC TAGS: longitudinal wave, elastic wave, quartz sand, piezoconverter, seismogram, absorption factor, hodograph, hysteresis, visible frequency, ultrasound propagation, ultrasound attenuation

ABSTRACT: The propagation speed of [illegible]

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ACCESSION NR: AP5[illegible]

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AM5023902 BOOK EXPLOITATION UR/ 534.647:622

Akademiya nauk SSSR. Institut gornogo dela

The use of seismoacoustic methods in mining (Primeneniye seysmoakusticheskikh metodov v gornom dele) Ed. by M. S. Antsyferov. Moscow, Izd-vo "Nauka," 1964. 186 p. illus. Errata printed on the back cover. 1300 copies printed.

TOPIC TAGS: mining engineering, seismic prospecting, seismic instrument, phonon acoustics, seismoacoustic pulse

PURPOSE AND COVERAGE: This is a collection of articles summarizing the results of work done by the Laboratory of Geophysical Research of the Mining Institute imeni A. A. Skochinskiy and the Scientific Seismoacoustic Station of the Donetskiy Sovnarkhoz. The research was basically conducted at the coal mines of the Donet Basin, where dangerous sudden outbursts of coal and gas occur. The authors give data on the design and manufacture of various seismoacoustic instruments, used in both laboratory and field investigations. Results of these investigations are analyzed, emphasizing their

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importance for the theory of dynamic phenomena in mines and for the prognosis of the danger zones of possible sudden outbursts. The book is of interest to miners and geophysicists concerned with the application of geophysical methods in coal and ore mines.

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Konstantinova, A. G., and L. G. Mysina. Relative changes in the parameters of elastic pulses before sudden outbursts of coal and gas -- 154

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Konstantinova, A. G., and E. V. Petrosyants. Seismoacoustic method of investigating the effect of an explosion on the roof of a mine -- 173

Antsyferov, M. S. Electroseismic effect in rocks -- 180

SUB CODE: GO, ES, GP/ SUBMITTED: 26Nov64 NO REF SOV: 113

OTHER: 005

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROV, N. A.

Planting potatoes in checkrows, Vologda, Obl. izd., 1951.

SO: MLRA, December 1952.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSIFEROV, Nikolay Pavlovich

ANTSIFEROV, Nikolay Pavlovich.....Okrestnosti Leningrada; putevoditel' pod red. B. Briullova i M. Sergeeva. Moskva, Gosizdat, 1927. 350 p.
NN

SO: LC, Soviet Geography, Part II, 1951/Unclassified

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSIFEROV, Nikolay Pavlovich

ANTSIFEROV, Nikolay Pavlovich.....Prigorody Leningrada; goroda Pushkin, Pavlovsk, Petrodvorets. Moskva, Gos. literaturnyi muzei, 1946. 112 p. (Literaturnye mesta, vyp. 1.)
DLC: DK579.A54

CU InU MH NN NNC OCl

SO: LC, Soviet Geography, Part II, 1951/Unclassified

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSIFEROV, N. P.

Moskva. (Avtory teksta N. P. Antsiferov i dr. Moskva, Molodaia gvardiia, 1948). 267 p. (Nasha rodina; geograficheskaia nauchno-khudozhestvennaia seriia)

DLC: DK601.M645

SO: LC, Soviet Geography, Part II, 1951/Unclassified

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

Antsyferova, A. A. -- "Changes of the Pathogenic Microflora of the Lacunae of the Palatine Tonsils, of the Phagocytic Reaction in the Peripheral Blood, and of the Phagocytic Reaction and the Cellular Composition in Press Preparations from the Surface of the Palatine Tonsils in the Conservative Treatment of Chronic Tonsillitis." Min Public Health Ukrainian SSR, Dnepropetrovsk State Medical Inst, Dnepropetrovsk, 1955 (Dissertation for Degree of Doctor of Medical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA, L.I.

Studies on the problem of thinking in modern foreign psychology. Vop.psikhol.2 no.3:95-111 My-Je '56. (MLRA 9:9)
(Thought and thinking)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA, L.I.

Harry Wells, an exponent of progressive philosophy and psychology. Vop. psikhol. 4 no.1:140-145 Ja-F '58. (MIRA 11:3)
(Wells, Harry Kohlsaat) (United States--Psychology)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA, L.I.

Elementary cognitive activity in the process of differentiation. Vop.psikhol. 5 no.2:169-178 Mr-Ap '59. (MIRA 12:6)

1. Sektor psikhologii Instituta filosofii AN SSSR.
(Perception) (Conditioned response)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA, L.I.

Concerning the theory of personality in the works of Kurt Lewin. Vop. psikhol. 6 no. 6:149-158 N-D '60. (MIRA 13:12)
(Lewin, Kurt, 1890-1947)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA, L.I.

In memoriam Georges Politzer. Vop. psikhol. 8 no.3:167-172 My-Je '62. (MIRA 15:6)

1. Institut filosofii AN SSSR, Moskva.
(Politzer, Georges, 1903-1942)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA, L.I.

Materialistic tendencies in the solution of the mind - brain problem abroad. Vop. psikhol. 8 no.5:163-169 S-O '62. (MIRA 16:5)

1. Institut filosofii AN SSSR, Moskva.
(Mind and body)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ACCESSION NR: AP4014027

S/0049/64/000/001/0085/0089

AUTHORS: Antsy*ferov, M. S.; Antsy*ferova, N. G.; Kagan, Ya. Ya.

TITLE: Study of the velocities of elastic wave propagation and absorption in frozen sand

SOURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 1, 1964, 85-89

TOPIC TAGS: elastic wave, seismic wave, wave propagation, wave attenuation, frozen sand core, massive frozen sand, wave propagation velocity, wave attenuation velocity, Poisson coefficient, frozen sand model, seismic exploration model, IKL-5 seismoscope

ABSTRACT: Longitudianal wave propagation and attenuation velocities in frozen sand cores and the propagation of longitudinal and transverse waves in massive frozen sand were studied in models. The IKL-5 impulse device (analogous to the usual laboratory and field seismoscopes) was used for the production and reception of elastic waves. The material used in the models was a homogeneous quartz sand of average grain size with 17-20% water saturation. All measurements were taken at -15C. The impulse frequencies used in the sand-core model were 28 to 170 kcps, and

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ACCESSION NR: AP4014027

the P wave average velocity was 4300 ± 100m/sec. The Poisson coefficient calculated from the formula

$$\sigma = \frac{1}{4}\left[\xi^2 - 1 + \sqrt{(\xi^2-1)^2 - 8(\xi^2-1)}\right],$$

was 0.23 ± 0.03, where $\xi = V_{P_C}/V_{P_M}$ ($V_{P_{Core}}/V_{P_{Massive}}$). The P wave velocity ($V_P$) in the massive sand was 4650 ± 50 m/sec, and the S wave velocity was 2760 ± 40 m/sec. In the latter case the Poisson coefficient was calculated from the formula

$$\sigma = \frac{\left(\frac{V_{P_M}}{V_{S_M}}\right)^2 - 2}{2\left[\left(\frac{V_{P_M}}{V_{S_M}}\right)^2 - 1\right]},$$

and was equal to 0.23 ± 0.02. The coefficient of wave attenuation increased with the increase in impulse frequency. Thus, for impulses of 28, 45, 65, 75, 170 kcps, the attenuation coefficients were respectively 0.015, 0.021, 0.031, 0.046, 0.140 cm^{-1}. "The authors express their appreciation to O. I. Man'kovskiy for his initiative and his assistance in this work." Orig. art. has: 6 figures and 4

Card 2/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ACCESSION NR: AP4014027

formulas.

ASSOCIATION: Institut gornogo dela im. A. A. Skochinskogo (Mining Institute)

SUBMITTED: 22Apr63 DATE ACQ: 14Feb64

SUB CODE: ML, PH NO REF SOV: 006 ENCL: 00

OTHER: 002

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

the important role of the inelastic deformations developing in the sand under pressure. "This project was initiated by G. M. Man'kovskiy and participated in by

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA, N.N.

Separation of carbohydrate metabolism enzymes by electrophoresis. Uzb. biol. zhur. 8 no.6:26-27 '64. (MIRA 18:3)

1. Institut eksperimental'noy biologii tekhnicheskikh i zernovykh kul'tur AN UzSSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYFEROVA-SKVIRSKAYA, A.A., kand.med.nauk

Conservative treatment of noncomplicated forms of chronic tonsillitis by the use of antibiotics and its objective evaluation. Zhur.ush., nos. i gor.bol. 22.no.6:12-16 N-D'62. (MIRA 16:7)

1. Iz kafedry otolaringologii (zav.-zasluzhennyy deyatel' nauki prof. L.A.Lukovskiy)Dnepropetrovskogo meditsinskogo instituta.
(TONSILS--DISEASES)
(ANTIBIOTICS)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYPALOVSKIY, Yu. F.; ZINCHENKO, A. P., kand. med. nauk (Leningrad)

Increased sensitivity to cold. Klin. med. no.6:130-137 '61. (MIRA 14:12)

1. Iz kliniki No. 2 (nach. - prof. A. G. Papov) kafedry nervnykh bolezney (nach. - prof. S. I. Karchikayan) Voyenno-meditsinskoy ordena Lenina akademii imeni S. M. Kirova.

(COLD--PHYSIOLOGICAL EFFECT) (ALLERGY)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYPOLOVSKIY, Yu. I.

Clinical aspects of mumps meningitis in adults. Zhur. nevr. 59 no.3: 310-312 '59. (MIRA 12:4)

(MUMPS, compl.
meningitis in adults (Rus))
(MENINGITIS, etiol. & pathogen.
mumps, in adults (Rus))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ZHABINSKIY, Yan [Zhabinski, Jan]; ANTSYFOROVICH, Aleksandr [translator]

[Possibility of mutual understanding. Translated from the Polish] Vozmozhnost' vzaimoponimaniia. [2. izd. Lodz] Gos. nauchn. izd-vo [n.d.] 186 p. (MIRA 18:10)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHIN, S P

Spravochnik Lesnichego. Avtorskiy Kollektiv: Antsyshin, S.P. (1 Dr.)
Moskva, Sel'khozgiz, 1961.
894 p. illus., tables.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

AUTHOR: Antsyshkin, G.V. 130-58-2-1/21

TITLE: Organisation of Repair Services in Metallurgical Works (Organizatsiya remontnoy sluzhby na metallurgicheskikh zavodakh)

PERIODICAL: Metallurg, 1958, Nr 2, pp 1 - 2 (USSR)

ABSTRACT: The author comments on an article by V.F. Ivanov of the same title in Metallurg, 1957, Nr 5, and on the reply to it by A.I. Gurvich (Metallurg, 1957, Nr 6). He considers that what these authors denote as repairs to equipment are merely routine preventative maintenance which he claims to have originated and developed in the USSR. He does not agree with Ivanov's view that repair services centralized in sections are suitable only for large metallurgical works, considering that all would benefit from the adopting of this system. He briefly discusses the working of the system.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Works

AVAILABLE: Library of Congress

Card 1/1

1. Machines-Maintenance

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKIN, G.V.

Repair of rolling mill assembly units. Metallurg 6 no.2:26-27 F '61. (MIRA 14:1)

1. Glavnyy mekhanik Zlatoustovskogo metallurgicheskogo zavoda.
(Rolling mills—Maintenance and repair)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKIN, S.P.

Protivopozharnaia okhrana lesov [Guarding forests against fire]. Moskva, Goslesbumizdat, 1952. 192 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

GRIGOR'YEV, Il' ya Aleksandrovich; ANTSYSHKIN, S.P., redaktor; SVETLAYEVA, A.S., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor

[Leading ranger district in the Gorkiy working circle] Peredovoi ob"ezd Gor'kovskogo leskhoza. Moskva, Goslesbumizdat, 1956. 14 p. (MLRA 10:1)

(Gorkiy Province—Forests and forestry)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKIN, Sergey Petrovich; AKHMEDOV, V.M., redaktor izdatel'stva; KONYASHINA, A., tekhnicheskiy redaktor

[Prevention of forest fires] Protivopozharnye meropriiatiia v lesu. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1956. 73 p. (MLRA 10:2)
(Forest fires--Prevention and control)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

AMTSYSHKIN, S.P.

[Prevention of forest fires] Protivopozharnaia okhrana lesa. Moskva, Goslesbumizdat, 1957. 185 p. (MIRA 11:5)
(Forest fires--Prevention and control)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKIN, S.

Let us save our forest resources. Pozh. delo 5 no.5:3-4 My '59.
(MIRA 12:6)

1. Nachal'nik Upravleniya okhrany i zashchity lesov Ministerstva sel'skogo khozyaystva SSSR.
(Forest fires--Prevention and control)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

VORONIN, Ivan Vasil'yevich, dotsent; VASIL'YEV, Prokofiy Vasil'yevich, prof.; ANTSYSHKIN, Sergey Petrovich, inzh.; ISHIN, Dmitriy Petrovich, inzh.; KOSTYUKOVICH, Fedor Trofimovich, dotsent; MAKAROV, Grigoriy Yefimovich, inzh.; RADETSKIY, Vitaliy Il'ich, kand.sel'skokhoz.nauk; SABO, Yevgeniy Dyul'yevich, kand.tekhn. nauk; SUDACHKOV, Yevgeniy Yakovlevich, doktor sel'skokhoz.nauk; FEDOROVYKH, Mikhail Leonidovich, assistent; YANYSHKO, Anatoliy Davydovich, assistent; FUKS, Ye.A., red.izd-va; KUZNETSOVA, A.I., tekhn.red.

[Organizing and planning work at forestry enterprises] Organizatsiia i planirovanie proizvodstva na predpriiatiiakh lesnogo khoziaistva. Moskva, Goslesbumizdat, 1960. 328 p. (MIRA 14:2)

(Forest management)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

CHERVONNYY, Mikhail Grigor'yevich; ANTSYSHKIN, S.P., red.; SAMATSKAYA, G.I., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Using airplanes in the prevention of forest fires] Primenenie aviatsii pri okhrane lesov ot pozharov. Moskva, Goslesbumizdat, 1961. 111 p. (MIRA 15:3)

(Aeronatics in forestry)
(Forest fires--Prevention and control)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKIN, S.P.; BOBYLEV, G.V.; GORYACHEV, I.V.; ISACHENKO, Kh.M.; KOVALIN, D.T.; LAVRENT'YEV, V.A.; LITVINOV, I.V.; MUKIN, A.F.; PEREPECHIN, B.M.; PIS'MENNYY, N.R.; REBROVA, G.I.; SERGEYEV, P.A.; SOBINOV, A.M.; FEDOROV, P.F.; FILINOV, N.P.; KHRAMTSOV, N.N.; KAZAKOVA, Ye.D., red.; BALLOD, A.I., tekhn. red.

[Reference book for foresters] Spravochnik lesnichego. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1961. 894 p. (MIRA 14:7)
(Forests and forestry)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSISHKINA, A.S.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Inorganic Chemistry

Structure of crystals of dichlorotetrapyridinenickel and dichlorotetrapyridinecobalt. M. A. Porai-Koshits and A. S. Antsishkina. *Doklady Akad. Nauk S.S.S.R.* 92, 633-5 (1953).—$Ni(C_5H_5N)_4Cl_2$ (I) and $Co(C_5H_5N)_4Cl_2$ (II) belong to the ditetragonally dipyramidal form of symmetry with space group $D_{4h}^{17} = I4/acd$. The unit cell dimensions are: for I *a* 18.8 and *c* 16.9 A.; for II *a* 18.9 and *c* 17.0 A. In each unit cell 8 mols. are present. The Cl atoms enter the inner sphere of the complex. The structure of the crystals is based on mol. octahedra of *trans*-MPy_4Cl_2 type (diagrammatic disposition is given in a figure). The analysis of electron d. shows that all 4 pyridine rings are rotated relative to the plane of the coördination square MN_4 to the same extent: 45° angle. In half of the complexes of a unit cell the py groups are rotated clockwise; in others, counterclockwise, in complexes aligned along the *z* axis these rotations alternate. By the methods summarized by Booth (*C.A.* 39, 4630[8]) the following distances were calcd.: Ni-Cl 2.357 ± 0.005, Ni-N 2.00 ± 0.03, Co-Cl 2.32 ± 0.01, Co-N 1.99 ± 0.02. These show the covalent nature of the metal link to all 6 addends. The interatomic distances within the pyridine rings are approx. the same as within structures of org. crystals. Distances between proximate C and H atoms of 2 different py groups of the same mol. and atoms of H and Cl of the same mol. are substantially less than the sum of interatomic radii (by 0.35); this indicates considerable repulsion forces within the mol. and possibility of formation of Cl ions in soln. Packing coeff. of the mols. is 0.73. G. M. K.

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Structure of nickel and of cobalt dichlorotetrapyridine crystals. M. A. Poral-Koshits and A. S. Antsishkina. *Izvest. Sektora Platiny i Drug. Blagorod. Metal., Tsvet. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* No. 29, 19-36(1955); cf. *C.A.* 48, 38385.—The crystals of complex compds. $Ni\,py_4Cl_2$ and $Co\,py_4Cl_2$ are isomorphic. They belong to a ditetragonal dipyramidic type of symmetry with a space group D_{4h}^{19}-$I4/acd$. The following crystal consts. were detd.: $a_{Ni} = 15.9 \pm 0.05$, $c_{Ni} = 17.0 \pm 0.05$ A., $a_{Co} = 16.0 \pm 0.05$, $c_{Co} = 17.1 \pm 0.05$ A., $N = 8$. The Cl atoms in both compds. are within the inner shell of the complex mol. Bond lengths in the mols. are: Ni-Cl = 2.387, Ni-N = 2.00, Co-Cl = 2.32, and Co-N = 1.99 kX. These bond lengths indicate the covalent character of forces binding the central atom with its ligand. The C—C bond lengths are approx. the same as in the structures of org. compds.

A. P. Kotlov

(1)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSISHKINA, A. S., PORAY-KOSHITS, M.A., DIKAREVA, L. M., and YUKHNOV, E. K.

"The Atomic Crystal Structure of Complex Acido-Amine Nickel Compounds" (Section 6-21) a paper submitted at General Assembly and International Congress of Crystallography, 10-19 Jul 57, Montreal, Canada.

C-3,800,189

Institute of General and Inorganic Chemistry, Academy of Sciences, (PORAY-KOSHITS, ANTSISHKINA, and DIKAREVA)

Moscow University Chemical Faculty (YUKHNOV)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSISHKINA, A.S.

70-3-8/20

AUTHOR: Poray-Koshits, M.A., Yukhno, Ye.K., Antsishkina, A.S. and Dikareva, L.M.

TITLE: The atomic crystals structure of complex acido-amine nickel compounds. (Atomnaya struktura kristallov kompleksnykh soyedineniy nikelya atsidoaminovogo tipa)

PERIODICAL: "Kristallografiya" (Crystallography), 1957, Vol.2, No.3, pp. 371 - 381 (U.S.S.R.)

ABSTRACT: The purposes of the investigations were to find the coordination number of the nickel atom and determine the position of the acid residuals X in compounds of the NiA_4X_2 type; to determine the general character of the structure of thiocyanate-amine compounds (ionic salts, double molecular compounds, complex compounds), which fall out at different solution concentrations; to establish analogies and differences in interatomic distances from nickel to addendium in different compounds; to find the configuration and orientation of thiocyanate groups, to determine the inter-atomic distances and the nature of N...C and C...S bonds.

The investigation of the above mentioned compounds belongs, as a compound part, to the systematic study of crystal chemistry of complex mickel compounds. It is of interest both in point of the theory of complex compounds in general and because

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

In the first compound $a = 10.77_3$, $b = 6.85$, $c = 6.12 \pm 0.02$ kX. $\beta = 128^{\circ}$; $\sigma = 1.72$ g/cm^3; in the second $a = 11.46$, $b = 8.18$, $c = 5.68 \pm 0.02$ kX., $\beta = 105^{\circ}$; $\sigma = 1.55$ g/cm^3.

The structural type of crystals was determined from Patterson projections and electron-density projections. A more precise determination of inter-atomic distances was achieved with the help of 'weighted' electron-density projections of the first layer line; in the final stage, electron-density sections were used. In both compounds acid residuals NO_3 and NCS belong to the inner region of the complex. The molecular six-coordinated octahedral arrangement of the addenda seems to be typical of all nickel compounds of the NiA_4X_2 type, in contra-distinction to the similar Pd and Pt compounds, whose structure is $[MA_4]X_2$.

The results of structure investigation of crystals $Ni(NCS)_2 \cdot 3NH_3$ have already been published (M.A. Poray-Koshits, Proc. Inst. Crystallogr. 1954, 10, 117). The molecular complexes $Ni(NH_3)_3(NCS)_2$ have the shape of tetrahedral pyramids with Ni atoms in the centre of the base.

Card 3/7

Trigonal crystals $Ni(NCS)_2 \cdot NH_4NCS \cdot 3NH_3$ possess considerable piezoelectricity; space group P321; $a = 10.2$ $c = 11.13 \pm 0.02$

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The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

kX.; $= 1.495$ g/cm^{-3}; $N = 3$. The structure is determined with the help of Patterson-function projections and Harker sections at heights 1/3 and 0 parallel to (001) and also by using electron-density projections along the second-order axis. The atoms are surrounded octahedrally by three molecules NH_3 and three groups NCS after the design a-a, b-b, a-b (edge isomer). Complex anions $[Ni(NH_3)_3(NCS)_3]^-$ are arranged according to cubic close packing, in the octahedral interstices of which ions NH_4^+, surrounded by six sulphur atoms, are to be found.

Crystals $Ni(NCS)_2 \cdot 2NH_4NCS \cdot 2NH_3 \cdot H_2O$, which belong to the cubic system, also possess piezoelectricity; space group I23; $a = 13.41 \pm 0.02$ kX., $\sigma = 1.523$ g/cm^3; $N = 6$. Six octahedral complex ions trans-$[Ni(NH_3)_2(NCS)_4]^{2-}$ are arranged in all the corners of the eight cubes with edges 1/2a, except the points 0, 0, 0 and 1/2, 1/2, 1/2; these two are occupied by water molecules.

Eight cathions NH_4^+ are in the centres of the same cubes and are surrounded octahedrally by sulphur atoms of the thiocyanate group. The remaining four ammonium groups, together with four

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The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

polar water molecules, form two tetrahedra around two water molecules in the corners of the cubes 0, 0, 0 and 1/2, 1/2, 1/2.

Thus, all the thiocyanate-amine nickel compounds that fall out of the solution are complex in structure type and must be described by the following formulae:

$$Ni(NH_3)_4(NCS)_2,\ Ni(NH_3)_3(NCS)_2,\ NH_4[Ni(NH_3)_3(NCS)_3],$$
$$(NH_4)_2[Ni(NH_3)_2(NCS)_4]H_2O$$

We succeeded in determining all inter-atomic nickel-addendum distances with sufficient precision only in centro-symmetrical structures. The distances are entered in Table 2, p.378, showing that in $Ni(C_5H_5N)_4Cl_2$ and $Ni(NH_3)_3(NCS)_2$ all the nickel-addendum bonds are of covalent character.

The Ni-S distance in the second compound is the contact of different molecules, which completes the nickel co-ordination to six.

The Ni-Br and Ni-NCS distances in bromine- and thiocyanate-pyridine complexes, equal to 2.58 and 2.0 kX., also correspond to covalent bonds.

Card 5/7 In spite of the isomorphism of $Ni(NH_3)_4(NCS)_2$ and

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

SOV/70-3-6-4/25

AUTHORS: Antsyshkina, A.S. and Poray-Koshits, M.A.

TITLE: X-ray Structural Investigations of the Ni^{II} and Co^{II} Compounds of the type $MePy_4X_2$ (Rentgenostrukturnoye issledovaniye soyedineniy Ni^{II} i Co^{II} tipa $MePy_4X_2$)

Part II. The Structures of Crystals of Dibromotetrapyridine-nickel and dibromotetrapyridine-cobalt (II. Struktura kristallov dibromotetrapiridin-nikelya i dibromotetrapiridin-kobal'ta)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 6, pp 676-685 (USSR)

ABSTRACT: Crystals of $NiPy_4Br_2$ (green) and $CoPy_4Br_2$ (violet-rose) were found to be isomorphous with space group Pna and cell dimensions a = 15.9, b = 9.4, c = 14.0 and a = 15.9, b = 9.5, c = 14.2 Å respectively in each case ± 0.1 Å . The observed density of the Ni compound was 1.67 giving Z = 4 . The structure was determined from (001), (010) and (100) Patterson projections, followed by the Patterson sections (001) with w = 1/2 and (211) through (0,0,0). The Fourier projection onto (001) was calculated. The reliability factors were R = 0.24 for hk0 and R = 0.03 for h0l .

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SOV/70-3-6-4/25

X-ray Structural Investigations of the Ni^{II} and Co^{II} Compounds of the type $MePy_4X_2$. Part II. The Structures of Crystals of Dibromotetrapyridine-nickel and dibromotetrapyridine-cobalt

F_o and F_c are given for hkO projection.
The atomic co-ordinates are shown in a figure on p 679 and in Table 6.
The Ni is six-co-ordinated octahedrally with the Br-atoms in the trans-position. The planes of the pyridine groups are tilted at 45-55° to the plane of the MeN_4 square.
The molecular symmetry is approximately 422.
The magnetic moments were found to be $\mu_{Ni} = 3.03$ and $\mu_{Co} = 4.56$ Bohrmagnetons. Tables of interatomic distances are given. Acknowledgments to A.A.Levin.

Card 2/3

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SOV/70-3-6-4/25

X-ray Structural Investigations of the Ni^{II} and Co^{II} Compounds of the type $MePy_4X_2$. Part II. The Structures of Crystals of Dibromotetrapyridine-nickel and Dibromotetrapyridine-cobalt

There are 5 figures, 7 tables and 6 references, 4 of which are Soviet and 2 English.

ASSOCIATION: Institut obshchey i neorganicheskoy khimi (Institute of General and Inorganic Chemistry)

SUBMITTED: March 5, 1958

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

SOV/70-3-6-5/25

AUTHOR: Poray-Koshits, M.A. and Antsyshkina, A.S.

TITLE: X-ray Structural Investigations of Ni^{II} and Co^{II} Compounds of the Type $Me^{II}Py_4X_2$ (Rentgenostrukturnoye issledovaniye soyedineniy Ni^{II} i Co^{II} tipa $Me^{II}Py_4X_2$)

Part III. The Structure of Crystals of Di-isocyano-tetrapyridine-nickel and Di-isocyano-tetrapyridine-cobalt (III. Struktura kristallov diizorodanotetrapiridin-nikelya i diizorodanotetrapiridin-kobal'ta)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 6, pp 686-695 (USSR)

ABSTRACT: Crystals of $Ni(NC_5H_5)_4(NCS)_2$ and $Co(NC_5H_5)_4(NCS)_2$ were found to be isomorphous with space group C2/c (or possibly Cc although no piezo-electric effect could be detected) and cell dimensions a = 12.55, b = 13.0, c = 16.6 Å, $\beta = 119^o45'$ and a = 12.48, b = 12.9, c = 16.5 Å, $\beta = 118^o30'$, respectively. (Measurements were to ± 0.1 Å). Z = 4, d_{Ni} = 1.39 . Both compounds were paramagnetic with moments μ_{eff} = 3.01 Bohr magnetons (Ni) and 4.84 (Co). X-ray reflections were recorded with a retigraph (KFOR). Intensities for the zones (100) (010)

Card1/4

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SOV/70-3-6-5/25

X-ray Structural Investigations of Ni^{II} and Co^{II} Compounds of the Type $Me^{II}Py_4X_2$. Part III. The Structure of Crystals of Di-isocyano-tetrapyridine-nickel and Di-isocyano-tetrapyridine-cobalt

and (001) were estimated visually. Corresponding Patterson projections and packing considerations located the heavy atoms. These were confirmed from the syntheses $P_1(uv)$ and $P_1(uw)$.

$$\left[P_1(uw) = 1/v_o \sum_h \sum_k \left|F(hkl)\right|^2 \sin 2\pi hu . \sin 2\pi kv\right].$$

The lighter atoms were found from appropriate Fourier projections. The final parameters are Ni, (0,0,0); $N_{(NCS)}$, (0.16, 0.08, 0.02); C, (0.25, 0.09, 0.05); S, (0.40, 0.11, 0.08); N_{IPy}, (0.11, -0.06, 0.135); N_{IIPy}, (-0.04, 0.135, 0.07); C_I, (0.25, -0.16, 0.31); C_{II}, (-0.10, 0.28, 0.15). The thiocyanate groups enter the inner co-ordination sphere of the Ni or Co, which is octahedrally co-ordinated by the 4 pyridine groups and

Card2/4

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

SOV/70-3-6-5/25

X-ray Structural Investigations of Ni^{II} and Co^{II} Compounds of the Type $Me^{II}Py_4X_2$. Part III. The Structure of Crystals of Di-isocyano-tetrapyridine-nickel and Di-isocyano-tetrapyridine-cobalt

the 2 isocyanate groups, the latter in the trans- position. The NCS bond is to the Ni or Co through the N atoms. The NCS group is linear with N-C = 1.07 ± 0.06 Å and C-S = 1.74 ± 0.04 Å. The Ni-N-CS bond angle is 165°. The $Ni-N_{(NCS)}$ bond is 2.12 Å and the $Ni-N_{Py}$ = 2.03 + + 0.06 Å. These compounds are similar to others of the NiA_4X_2 class in having this octahedral co-ordination.

There are 6 figures, 2 tables and 43 references, 15 of which are Soviet, 8 German, 2 Scandinavian, 1 Spanish, 1 Italian and 16 English.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

SOV/70-3-6-5/25

X-ray Structural Investigations of Ni^{II} and Co^{II} Compounds of the Type $Me^{II}Py_4X_2$. Part III. The Structure of Crystals of Di-isocyano-tetrapyridine-nickel and Di-isocyano-tetrapyridine-cobalt

ASSOCIATION: Institut obshchey i neorganicheskoy khimi (Institute of General and Inorganic Chemistry)

SUBMITTED: April 16, 1958

Card 4/4

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

AUTHOR: Antsyshkina, A.S. SOV/70-3-6-15/25

TITLE: Crystallographic Investigation of the Ni and Co Compounds of the Type $MePy_4X_2$ (Kristallograficheskoye issledovaniye soyedineniy Ni i Co tipa $MePy_4X_2$)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 6, pp 742 - 744 (USSR)

ABSTRACT: Ni^{++} and Co^{++} compounds of the type $Me(NC_5H_5)_4X_2$, where X is Cl, Br, CNS, have been studied goniometrically and optically. The chlorides were known earlier to be isomorphous. The bromides were found to be isomorphous, the Ni compound having r.i. $N'_g = 1.700$, $N'_m = 1.692$ and $N'_p = 1.682$ with 2V approx 90°. The Co compound reacted with the immersion liquids. For the Ni compound, the axial ratios were 1.703:1:1.490 (opt.) and 1.682:1: 1.477 (X-ray) and for the Co compound 1.697:1:1.51 (opt.) and 1.681:1:1.480. The crystals were orthorhombic pyramidal. The isothiocyanates were also found to be isomorphous but of the monoclinic prismatic class. For the Ni compound, the r.i. were $N_g = 1.718$, $N_m = 1.680$, $N_p = 1.642$ and for the Co compound 1.718, 1.672 and 1.628. The elongation of the

Card1/2

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Crystallographic investigation of the Ni and Co Compounds of the Type $MePy_4X_2$ SOV/70-3-6-15/25

crystals was negative. Axial ratios were found to be (Ni) 0.970:1:1.280 (opt.) and 0.967:1:1.280 (X-ray) with $\beta = 119^{\circ}45'$ and (Co) 0.966:1:1.279 (X-ray) $\beta = 118^{\circ}30'$. There are 3 figures, 2 tables and 6 references, 2 of which are Soviet, 3 German and 1 French.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii (Institute of General and Inorganic Chemistry)

SUBMITTED: March 5, 1958

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKINA, A. S.: Master Chem Sci (diss) -- "Crystal-chemical investigation of the diacido tetrapyridine compounds of divalent cobalt and nickel". Moscow, 1959, published by the Acad Sci USSR. 15 pp (Acad Sci USSR, Inst of Gen and Inorganic Chem im N. O. Kurnakov), 150 copies (KL, No 9, 1959, 113)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKINA, A.S.; PORAY-KOSHITS, M.A.

Dimer complexes in paramagnetic nickel compounds. Structure of $Nien_2Cl_2$ and $Nien_2Br_2$ crystals. Dokl. AN SSSR 143 no.1:105-108 Mr '62. (MIRA 15:2)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR. Predstavleno akademikom I.I.Chernayevym.
(Ethylenediamine)
(Nickel compounds)
(Crystallography)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

PORAY-KOSKITS, M.A.; ANTSYSHKINA, A.S.

Structure of rhodium acetate complexes. Dokl. AN SSSR 146 no.5: 1102-1105 O '62. (MIRA 15:10)

1. Institut obschey i neorgicheskoy khimii im. N.S.Kurnakova AN SSSR. Predstavleno akademikom I.I.Chernyayevym.
(Rhodium compounds)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

SHVELASHVILI, A. Ye.; FORAY-KOSHITS, M.A.; ANTSYSHKINA, A.S.

Dimeric structure of nickel thio cyanododiethylediamine.
Zhur. strukt. khim. 5 no.5:787-798 S-O '64 (MIRA 18:1)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova, AN SSSR.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

TSINTSADZE, G.V.; PORAY-KOSHITS, M.A.; ARTSYSHEVSKAYA, A.S.

Structure of nickel (II) trans-diselenocyanatotetradimethylformamide and cobalt (II) trans-diselenocyanatotetradimethylformamide. Zhur. strukt. khim. 5 no.5:796 S-O '64 (MIRA 18:1)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

TSINTSADZE, G.V.; PORAY-KOSHITS, M.A.; ANTSYSHKINA, A.S.

Parameters of an elementary cell and the space group of potassium diselenocyanatoargentate. Zhur. strukt. khim. 5 no.3:495-496 My-Je '64. (MIRA 18:[illegible])

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

SHVELASHVILI, A.Ye.; PORAY-KOSHITS, M.A.; ANTSYSHKINA, A.S.

Cis-octahedral structure of diacyldiethylenediamminonickel of $Nien_2NCSCl$ and $Nien_2NCSBr$. Zhur. strukt. khim. 6 no.1:[illegible] 171 Ja-F '65.

Two modifications of diacyldiethylenediamminonickel of $Nien_2NO_2NCS$. Ibid.:168-170

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted October 2, 1964. (MIRA 18:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ROGACHEV, D.L.; ANTSYSHKINA, A.S.; PORAY-KOSHITS, M.A.

Some zirconium sulfates. Zhur.strukt.khim. 6 no.5:791-792 S-O '65. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova. Submitted April 24, 1965.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKINA, L.M.; CHAPLINA, A.M.

Ligula infestations in fishes of the Ukrainian steppe reservoirs and measures for their control. Nauch. dokl. vys. shkoly; biol. nauki no.1:13-15 '60. (MIRA 13:2)

1.Rekomendovana Nauchno-issledovatel'skim institutom gidrobiologii Dnepropetrovskogo gosudarstvennogo universiteta im. 300-letiya vossoyedineniya Ukrainy s Rossiyey.
(Ukraine--Cestoda) (Parasites--Fishes)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

CHAPLINA, A.M., nauchnyy sotrudnik; ANTSYSHKINA, L.M.

Parasite fauna of fishes of the middle Dnieper system in the Kremenchug-Dneprodzerzhinsk section. Vest. Dnep. nauch.-issl. inst. gidrobiol. 12:241-252 '60. (MIRA 14:12)
(Dnieper River--Parasites)
(Parasites--Fishes)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKINA, L.M.

Parasites of pond fishes in the steppe zone of the Ukraine. Trudy sov. Ikht. kom. no.14:211-214 '62. (MIRA 15:12)

1. Dnepropetrovskiy gosudarstvennyy universitet.
(Ukraine--Parasites--Fishes)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKINA, L.M.; KIRILENKO, N.S.; MAMONTOV, V.Ya.; MEL'NIKOV, G.P.; MYAKOV, F.P.

Keeping fish in hermetic aquariums with Chlorella and without it. Probl. kosm. biol. 4:646-652 '65. (MIRA 28:9)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

L 16811-66 EWT(1) SCTB DD

ACC NR: AT6003903 SOURCE CODE: UR/2865/65/004/000/0646/0654

AUTHOR: Antsyshkina, L. N.; Kirilenko, N. S.; Namontov, V. Ya.; Mel'nikov, G. B.; Rysbov, F. P.

ORG: none

50
B+1

TITLE: Experiment on fish kept in hermetically sealed aquariums with and without *Chlorella*

SOURCE: AN SSSR. Otdeleniye biologicheskih nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 646-654

TOPIC TAGS: algae, Chlorella, photosynthesis, oxygen, closed ecology system, carbon dioxide

ABSTRACT: Two series of experiments were performed with crucian carp and algae to determine the survival time of the fish. In the first series, the aquarium was divided into two compartments by a partition 6 cm from the top. One compartment (8 liter capacity) contained *Chlorella pyrenoidosa*-82 while the other (16 liter capacity) contained the fish. Both were connected by an air cushion through which the gases diffused in two directions. The fish were supplied with oxygen released by

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L 16811-66
ACC NR: AT6003903

the algae during photosynthesis. In the second series of experiments, the fish were exposed to *Chlorella vulgaris*-25 which served both as a source of oxygen and as food. There was no air cushion. Analysis of the results of the first series of experiments showed that during the first 48 hours oxygen and carbon dioxide contents decreased, but thereafter the oxygen content rose considerably and remained at that level until the end of the experiment. The fish lived 39-49 days. In the second series of experiments, without an air cushion, the oxygen content decreased sharply due to the low level of chlorella photosynthesis and the fish survived only 11-37 days. The weak photosynthetic activity was ascribed to the insufficiency of light resulting from the energetic multiplication of the algae and to the inadequate supply of carbon dioxide. Orig. art. has: 3 tables.

SUB CODE: 06/ SUBM DATE: 00/ ORIG REF/ 000/ OTH REF: 000

Card 2/2

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ANTSYSHKINA, N.S.

Petroleum production abroad in 1962 and prospects for its further development. Neft. i gaz. prom. no.2:73-74 Ap-Je '63. (MIRA 17:11)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTSYSHKINA, N.S.; OGANOV, K.A.

Studying the possibility of increasing the recovery of oil from layers. Neft. i gaz. prom. no.2:74-76 Ap-Je '62. (MIRA 15:6)
(Oil fields--Production methods)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

42152

S/203/62/002/004/017/018
I046/I242

AUTHOR: Antayshkina, V.N.

TITLE: The effect of the solar eclipse of February 15, 1961 on the ionosphere

PERIODICAL: Geomagnetizm i aeronomiya, v.2, no.4, 1962, 791-792

TEXT: During the solar eclipse, the ionization density of all ionospheric layers diminished essentially, the maximum (20%) decrease having been observed for the E-layer at 10:10 to 10:15 Leningrad time. There are 2 figures.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR, Leningradskoye otdeleniye (Institute of Terrestrial Magnetism, the Ionosphere and Propagation of Radio Waves, AS USSR, Leningrad Branch)

SUBMITTED: March 23, 1962

Card 1/1

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

L 44454-66 EWT(d)/EWT(m)/EWP(c)/EWP(v)/EWP(t)/ETI/EWP(k) IJP(c) JD

ACC NR: AP6018260 (N) SOURCE CODE: UR/0133/66/000/002/0135/0139

AUTHORS: Medovar, B. I.; Bondarenko, O. P.; Klyuyev, M. M.; Antuan, L.; Zhallas, P.; Busho, P.; Gibor, Zh.; Valle, P. 39

ORG: [Medovar, Klyuyev, Bondarenko] Institute for Electrowelding im. Ye. O. Paton AN UkrSSR (Institut elektrosvarki AN UkrSSR) B

TITLE: Experimental results obtained on the first electroslag furnace built in France according to a Soviet license

SOURCE: Stal'. no. 2, 1966, 135-139

TOPIC TAGS: steel alloy, steel industry, steel microstructure, steel impurity, austenitic steel

ABSTRACT: The performance of the first Soviet-built electroslag steel furnace in France is described. The performance of the furnace was tested on a number of alloy and austenitic steels. The chemical composition, the usual mechanical properties, microstructure, and the distribution of nonmetallic impurities in the steel ingots were determined. The experimental results are presented in graphs and tables (see Fig. 1). It is concluded from the experimental results that the furnace performance was highly satisfactory and that the electroslag method of steel smelting seems to be very promising indeed.

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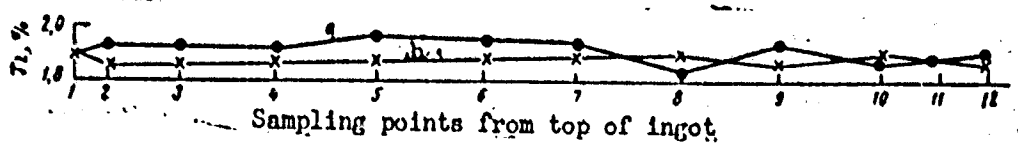

Fig. 1. Distribution of titanium in the ingot of steel G after electroslag smelting (refining) (EShP). a - specimens at 5 mm from edge; b - at 40 mm; height of ingot 1000 mm, cross section at bottom 200 x 200, at 160 x 160 mm; 1 - about 50 mm from top; 12 - about 50 mm from bottom.

Orig. art. has: 3 tables and 7 graphs.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

PERLOV, Georgiy Vladimirovich; ANTUF'YEV, A.Ye., inzh., retsenzent; DENISOV, B.N., inzh., retsenzent; PUSHKIN, N.I., red.; OZEROVA, Z.V., red.; KRYAKOVA, D.M., tekhn. red.

[Marine steam boilers] Sudovye parovye kotly. Pod red. N.I. Pushkina. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1961. 343 p. (MIRA 15:2)

(Boilers, Marine)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

GRUZBERG, Yakov Yudkovich; ANTUF'YEV, A.Ye., inzh., retsenzent; SANCHURSKIY, M.P., inzh., retsenzent; SPIVAK, A.Ya., nauchn. red.; OZEROVA, Z.V., red.

[Marine steam boilers] Sudovye parovye kotly. Leningrad, Sudostroenie, 1964. 252 p. (MIRA 17:10)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ARUTYUNOV, G.A.; ANTUF'YEV, I.I.; VOROB'YEV, A.I.; KUZNETSOV, M.I.; UDALOV, Yu.F.; SHIBUNEYEV, A.G. (Moskva)

Effect of nervous strain on requirement of the body for some vitamins. Vop.pit 21 no.4:3-10 Jl-Ag '62. (MIRA 15:12)
(VITAMINS) (FATIGUE, MENTAL) (STRESS(PHYSIOLOGY))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820004-5

ANTUF'YEV, V.

A useful measure. Den.i kred. 18 no.5:61-64 My '60.
(MIRA 13:5)
(Irkutsk--Banks and banking--Accounting)

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