Study of the phase diagram and the ... S/576/61/000/000/020/020 E021/E120

lpha NiS with a millerite-type structure, behave below 300 $^{\circ}$ C as semi-metals, but β' CoS with 55.22 at.% S and β' NiSe with 52.3 at.% Se have a tendency to semiconducting type of conductivity. The phases α Ni₃S₂, α Ni₃Se₂, Co₉S₈, mixtures of α Ni₃S₂ with Ni, α Ni₃Se₂ with Ni an NiSe₂ and Ni6Se5, CogS8 with Co, have metallic conductivity. The c/a ratio is close to the ideal nickel-arsenide structure in the case of β NiS (c/a = 1.555) but the tendency to semiconducting properties is greater for β' CoS (c/a = 1.534) and β' NiSe (c/a = 1.463). This is a deviation from the prediction by W.B. Pearson (Ref. 20: Canadian J. of Physics, 1957, v. 35, 8, 886) that phases with nickel-arsenide structure would have semiconducting type of electrical conductivity. Detailed information is given on the limits of homogeneity and phase structure of Ni-S, Ni-Se and Co-S systems and also the interatomic distances in sulphides and selenides of nickel and cobalt There are 2 figures, 2 tables and 32 references: 7 Soviet-bloc and Co non-Soviet-bloc. Card 3/4

KUZNETSOV, V.G.; YELISEYEV, A.A.

X-ray examination for determining the boundaries of homogeneity and the nature of the β -NiS phase. Zhur.strukt.khim. 2 no.5: 578-584 S-0 '61. (MIRA 14:11)

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

(Nickel alloys)

(Crystal lattices)

MEDVEDEVA, Z.S.; KLOCHKO, M.A.; KUZNETSOV, V.G.; ANDREYEVA, S.N.

Phase diagram of the system palladium-tellurium. Zhur.
neorg. khim. 6 no.7:1737-1739 Jl '61. (MIRA 14:7)
(Palladium) (Tellurium)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5"

DRUZHININ, I.G.; IMANAKUNOV, B.; KUZNETSOV, V.G.

Study of some physicochemical properties of nickel astrakhanite.

Zhur.neorg.khim. 6 no.11:2576-2581 161. (MIRA 14:10)

(Nickel ores) (Bloedite)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5"

DRUZHININ, I.G.; IMANAKUNOV, B.; KUZNETSOV, V.G.

Solubility in the quaternary system consisting of nickel, sodium, aluminum sulfates, and water. Zhur.neorg.khim. 6 no.11:2582(Systems (Chemistry)) (Solubility) (Salts)

RODE, Ye.Ya.; GOLOVLEVA, Z.S.; KUZNETSOV, V.G.; KOZ'MIN, P.A.

Physicochemical study of hydrated peroxide compounds of uranium.

Zhur.neorg.khim. 6 no.12:2635-2648 D •61. (MIRA 14:12)

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

(Uranium oxide)

KUZNETSOV, V.G.; IMANAKUNOV, B.

I-ray diffraction study of solid phases in ternary aqueous systems consisting of nickel, sodium, and aluminum mulfates at 25-65 C. Zhur.strukt.khim. 3 no.1:51-63 Ja-F 162. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR i Institut khimii AN Kirgizskoy SSR. (Systems (Chemistry)) (I rays-Diffraction)

TSAREGORODTSEV, P.P.; CARASIMOV, Ya.P., master; BORMASHENKO, R.I.;
LOSKUTNIKOV, V.D., stalevar; KUZMETSOV, V.G., stalevar;
SAFRONOV, V.F., stalevar; SUVCROV, K.R., stalevar

"Steelmaker's manual" by M.I. Panfilov. Reviewed by P.P.
TSaregorodtsov and others. Motallurg 7 no.5:39 My '62.

(HIRA 15:5)

1. Petrovsk-Zabaykal'skiy metallurgicheskiy zavod.
2. Nachal'nik martenovskogo tsskha Petrovsk-Zabaykal'skogo metallurgicheskogo zavoda (for TSaregorodtsev).

(Open-hearth process-Handbocks, manuals, etc.)

(Panfilov, M.I.)

S/078/62/007/005/003/014 B101/B110

AUTHORS:

Kuznetsov, V. G., Tokareva, S. A., Dobrolyubova, M. S.

TITLE:

X-ray diffraction analysis of sodium ozonide NaO3

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 5, 1962, 967 - 970

TEXT: X-ray powder patterns were taken for determining the crystallization form of NaO₃. NaO₃ was synthesized by reaction of O₃ with anhydrous NaOH at -80°C and subsequent extraction with liquid NH₃ which was removed in vacuo at -50°C. The resulting product (red crystals) contained 90-92% at nitrogen temperature by an YPC-55 (URS-55) camera. The x-ray patterns were taken of NaNO₃, (NH₄)NO₃, NaOH, NaOH·H₂O, and NaO₂ were taken for comparison. NaO₃ was found to contain small amounts of NaOH and NaO₂. The indication of the x-ray patterns showed good agreement with the interplanar spacings Card 1/2

KUZNETSOV, V. G

X-ray investigation of the phase diagram of the system 8i253-Sb253. V. G. Kuznetzov, A. S. Kanishcheva.

Concerning the crystal structure and some properties of solid solutions in the ternary reciprocal system Bi₂Se₃ + Sb₂Te₃ → Bi₂Te₃ + Sb₂Se₃.

K. R. Palkina, V. G. Kuznetsov.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

KUZNETSOV, V. G.; KOZ'MIN, P. A.

"Kristallicheskaya struktura (C5H5NH)HRe^{II}Cl, i (C5H5NH)HRe^{II}BR, "

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome,
9 Sep 63.

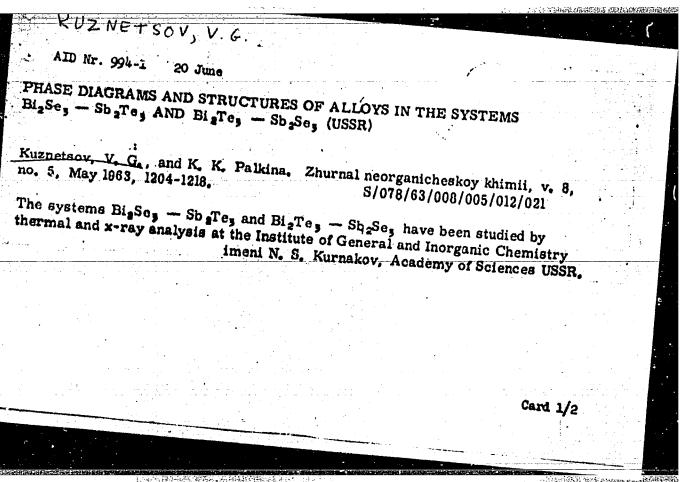
Inst obshchey i neorganicheskoy khimii im N. S. Kurnakova, AN SSSR, Moskva.

KUZNETSOV, V.G.; KOZ'MIN, P.A.

Structure of (PyH)HReCl₄. Zhur.strukt.khim. 4 no.1:55-62 Ja-P (MIRA 16:2)

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

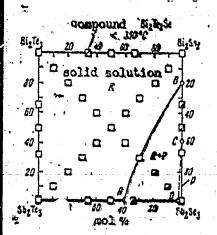
(Rhenium compounds) (I-ray crystallography)



AID Nr. 994-1 20 June

PHASE DIAGRAMS AND STRUCTURES OF ALLOYS [Cont'd]

8/078/63/008/005/012/021



The results of the study have made it possible to plot phase diagrams and to establish the structures of alloys in the above systems. The system Bi₂Se₅ — Sb₂Te₅ forms completely miscible substitutional solid solutions with a rhombohedral multiple-layer structure of the tetradymite type. The liquidus and solidus are smooth, with a minimum at 595°C, 85 mol% Sb₂Te₅. The system Bi₂Te₅ — Sb₂Se₅ forms partially miscible solid solutions. Solutions based on Bi₂Te₅ also have a multiple-layer structure of the tetradymite type and a one-phase region from 0 to 70 mol% Sb₂Se₅. Solutions based on Sb₂Se₅ have a rhombic nucleus, a chain structure of the Sb₂S₅ type, and a single-

phase region from about 97 to 100 mol% Sb₂Se₃. The region from about 70 to 93 mol% Sb₂Se₃ contains a mixture of the rhombohedral and rhombic solid solutions and a extectic at 600°C, 86 mol% Sb₂Se₃. The phase diagram of the system Bi₂Se₃ + Sb₂Te₃ = Bi₂Te₃ + Sb₂Se₃ at 500°C is given in the illustration.

[BAO]

Card 2/2

KULIKOVSKIY, B.N.; MIKHAYLOV, Yu.N.; KUZNETSOV, V.G.

X-ray diffraction study of the oxidation products of tellurium. Zhur. neorg. khim. 8 no.6:1338-1341 Je '63. (MIRA 16:6)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova

(Tellurium) (Oxidation) (X rays—Diffraction)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5"

YANAT'YEVA, O.K.; ORLOVA, V.T.; KUZNETSOV, V.G.

Nature of the glaserite phase in the system K2SO₄ - Na₂SO₄ - H₂O₆.

Zhur. neorg. khim. 8 no.7:1756-1765 J1 63.

(MIRA 16:7)

(Alkali metal sulfates) (Aphthitalite)

L 17743-63 EWP(a)/EWT(m)/EDS AFFTC/ASD RDW/JD \$/0078/63/008/009/2132/2135 ACCESSION NR: AP3006805 AUTHOR: loffe, A. V.; Kuznetsov, V. G.; Palkina, K. K. TITLE: (Thermal conductivity and thermoelectric figure of merit (Z) of solid solutions in the bismuth selenide antimony telluride and bismuth telluride-antimony selenide systems SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 9, 1963, 2132-2135 TOPIC TAGS: bismuth selenide, antimony telluride, bismuth tellu ride, antimony selenide, solid solution, alloy, semiconductor, semiconductor system, thermoelectric material, total thermal conductivity, electron, lattice, thermal conductivity, electrical conductivity, thermoelectric power, thermoelectric figure of merit, bismuth selenide antimony telluride system, bismuth telluride antimony selenide system ABSTRACT: Total thermal conductivity (x_), electrical conductivity (a), and thermoelectric power (a) have been measured at room temperature for the entire composition range of solid solutions in Card 1/A 3

L 17743-63
ACCESSION NR: AP3006805

the Bi_2Se_3 — Sb_2Te_3 and Bi_2Te_3 — Sb_2Se_3 systems. The calculated values of the thermoelectric figure of merit (Z) were correlated with composition. Data for the systems studied are not available in the literature. Alloys were prepared by melting mixtures of the high-purity elements in the required proportions in evacuated sealed quartz ampuls. The alloys were vacuum annealed hot pressed into specimens, and quenched from 500C. All measurements were conducted with the same specimen of each alloy. Thermal conductivity by electrons (κ_{el}), was calculated from the measured σ_{el} and thermal conductivity by lattice vibrations (κ_{el}) as the difference. Isotherms of σ_{el} , σ_{el} , and Z for solid solutions in both systems studied are shown in Figs. 1 and 2 of the Enclosure. The following conclusions are reached. 1) Diffuse minima of κ_{el} and characteristic of metals, exist in both systems at a 1/1 molar ratio of the components. 2) The peak Z values (at 33.33 and 66.66 mol% Sb_2Te_3) in the Bi_2Se_3 — Sb_2Te_3 system are 1.6 and 1.3 times the Z value for pure Bi_2Se_3 ; the peak Z value (at 33.3 mol% Sb_2Se_3) in the Si_2Se_3 system is 7 times the Z value for

Card 2/A3

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its maximum value, whi the p-type Bi ₂ Te ₃ —Sb ₂ 40 molX Sb ₂ Se ₃ . Certa between this and a pre A. V. Dmitriyev, Zh. n	ch is 2.5 times that of Se3 system reaches its in discrepancies in about 100 cm. Study (V. G. Kurnergan, khimii, 8 [Abstributed to the fact that is earlier study. The	solute a and or values netsov, K. K. Palkina, racter's note: 9], the impurity content patterns of a and o
component of Kt in bot and 1 table.	th systems is k ₁ . Orig t obshchey i neorganich	art. has: 4 rigures
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	utuar. Kuzne	tsov. V. G.; Palkin	a, K. K.; Dmitr	iyav, A. V.	60	
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the sections are not a grams have been estable neorgan. khimii, 8, 12 carried out at room to by melting mixtures of sealed quartz ampuls. annealed and water quaresponds to 70 mol Stable in the Bi with an increase in Stand 2) the sign of a changes from minus to at 70 mol Sb2Te3, who maximum at 50 mol Sb type temperature depended Sb2Te3, and a sem crepancies between ex	vailable in the literature, but ished (V. G. Kuznetsov, K. K. P. 04 (1963)). Heasurements of o mporature on hot-pressed specime the high-purity compounds in each the hot-pressed specimens were nached. It was shown that 1) mideline in the Bi ₂ Se ₃ —Sb ₂ Te ₃ system decreases of the second contration in the solid of Bi ₂ Se ₃ in the Bi ₂ Se ₃ —Sb ₂ Te ₃ plus at 60 mol% Sb ₂ Te ₃ and reach the ain the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Se ₃ system the Bi ₂ Se ₃ and reach the ain the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Se ₃ system the Bi ₂ Te ₃ —Sb ₂ Te ₃ and reach the Bi ₂ Te ₃ —S	and a wens prevacuate vacuum nimum oem, whi ontinud soluti system hes a metalli 2Te 3. I Sb 2 Se 3 on o and ference	cor- le lusly on: aximum a c- li 2Se j Dis i a	

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RODE, Ye.Ya.; GOLOVLEVA, Z.S.; KUZNETSOV, V.G.; KOZ'MIN, P.A.

Hydrated compounds in the system uranium trioxide - water. Zhur. neorg. khim. 8 no.12:2751-2772 D '63. (MIRA 17:9)

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

ACCESSION NR: AP4019271

8/0192/64/005/001/0142/0144

AUTHORS: Kusnetsoy, Y.G.; Bakulina, Y.M.; Tokareva, S.A.; Zimina, A.M.

TITLE: X ray study of sodium ozonide, NaO sub 3

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 1, 1964, 142-144

TOPIC TAGS: x ray study, sodium ozonide, symmetry, cell dimension, interplaner distance, volume centered tetragonal lattice, sodium, sodium compound

ABSTRACT: Sodium ozonide was obtained by reaction of ozone with dehydrated sodium hydroxide at -80°C for 3 hrs. with subsequent extraction from liquid ammonia. The solvent was removed in a vacuum at -50°C. The crystallic product contained 85% sodium ozonide. Specimens of sodium ozonide synthesized at a temperature interval of 0 to 5°C and separated by subsequent extraction with liquid ammonia were studied simultaneously. From X-ray photographs it was

Cord 1/2

ACCESSION NR: AP4019271

possible to measure more lines and obtain more accurate values, and also to determine the symmetry and cell dimensions. Indexing of x-ray photographs by means of Helly's curves provided better agreement of measured and calculated interplaner distances for a volume centered tetragonal lattice with the ratio c/a = 0.66 and with periods a = 11.65 and c = 7.66 Å. Deviation is observed for the first diffuse line with d = 3.927 Å, which is explained by a large error of measurement for this line. The density of sodium ozonide found by the hydrostatic suspension method, is 1.6 g./cm^3 . The number of molecules in the unit cell is 14. As a result of analysis of extinction and of value N = 14, spatial group I of 4ttt was tentatively selected. Orig. art. has: 1 table, 1 figure.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR (Institute of General and Inorganic Chemistry AN SSSR)

SUBMITTED: 19Jun68

DATE ACQ: 27Mar64

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SUB CODE: CH

NO REF 80V: 005

OTHER: 003

Card 2/2

YELISEYEV, A.A.; KUZNETSOV, V.G.; YAREMBASH, Ye.I.

X-ray diffraction study of lanthanum telluride. Zhur. strukt. khim. 5 no.4:641-642 Ag '64. (MIRA 18:3)

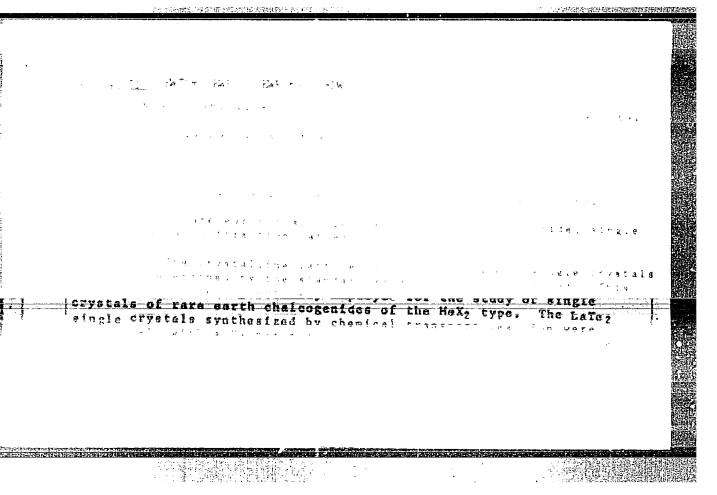
1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

YLISEYEV, A.A.; YAREMBASH, Ye.I.; KUZNETSOV, V.G.; VIGILEVA, Ye.S.; RESHCHIKOVA, A.A.; ANTONOVA, L.I.

Lanthanum tellurides. Zhur.neorg.khim. 9 no.4:876-882 Ap '64. (MIRA 17:4)

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

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5



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ACCESSION NR: AP4040728

AUTHOR: Kuznetsov, V. G.; Petushkova, S.M.; Tananayev, I.V.

TITLE: Radiographic investigation of gadolinium phosphates

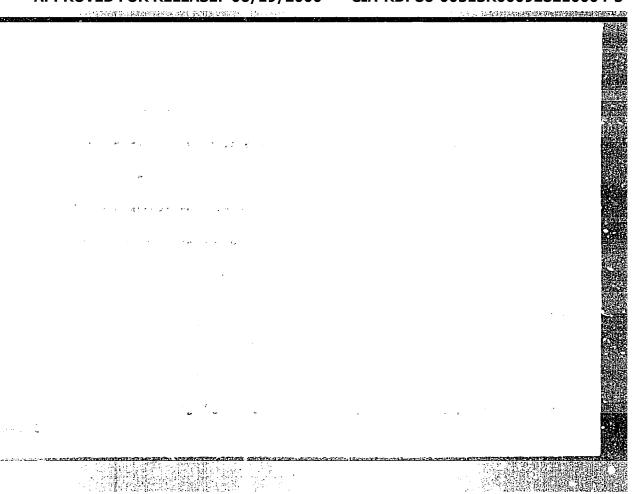
SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 3, 1964, 397-403

TOPIC TAGS: gadolinium phosphate radiography, gadolinium phosphate, powder radiography

ABSTRACT: Using methods of powder radiography, solid phases formed at 250 in systems GdOl3-H-PO4-H₂O and GdOl3-Na₂PO4-H₂O were in-vestigated. The article contains tabulated data of radiographic vestigated. The article contains tabulated data of radiographic analysis covering the obtained products: 9GdPO4·Gd(OH)3·27H2O; GdPO4·H2O; 4GdPO4·NazPO4·12H2O, as well as the products of their heat treatment: GdPO4·12H2O, as well as the products of their heat treatment: GdPO4·GdPO4·O.33H2O; 18GdPO4·Gd2Oz and 4GdPO4·NazPO4·treatment: GdPO4; GdPO4·O.33H2O; 18GdPO4·Gd2Oz and 4GdPO4·NazPO4·It was found that GdPO4 has two crystalline modifications: hexagonal it was found that GdPO4 has two crystalline modifications hexagonal (a=6.89% c=6.33Å; spatial group D6 =P6222 and D65=P6422) which is isostructural with the hexagonal modifications of lanthanum, isostructural with the hexagonal modifications of lanthanum, cerium and neodymium phosphates. and probably monoclinal isostructural group of their heat analysis covering the obtained products: cerium and neodymium phosphates, and probably monoclinal isostructural monazite. The results obtained may serve for the identification of the compounds. Orig. art. has: 6 tables.

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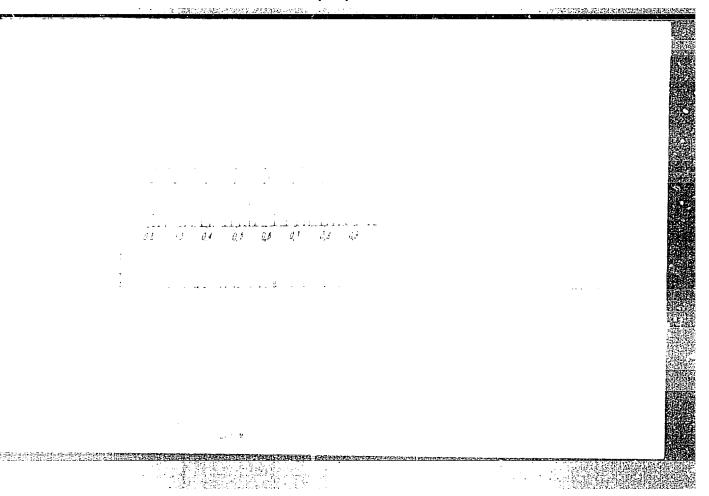
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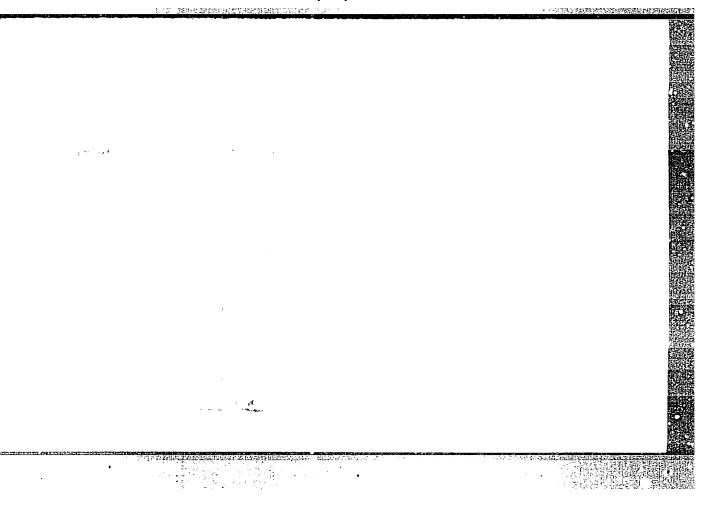
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ARSTRACT: A series of alloys of the Is-Te system, containing 50-80 at. Te was ided at temperatures below the lighting.







KUZNETSOV, V.G.; LI CHI-FA [Li Ch'ih-fa]

X-ray diffraction examination of the system SnS - PbS. Zhur. neorg. khim. 9 no.5:1201-1206 My '64.

(MIRA 17:9)

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

KUZNETSOV, V.G.; VASIL'YEVA, V.P.; TANANAYEV, I.V.

X-ray examination of lanthanum phosphates. Zhur. neorg. khim. 9 no.9:2053-2059 S 164. (MIRA 17:11)

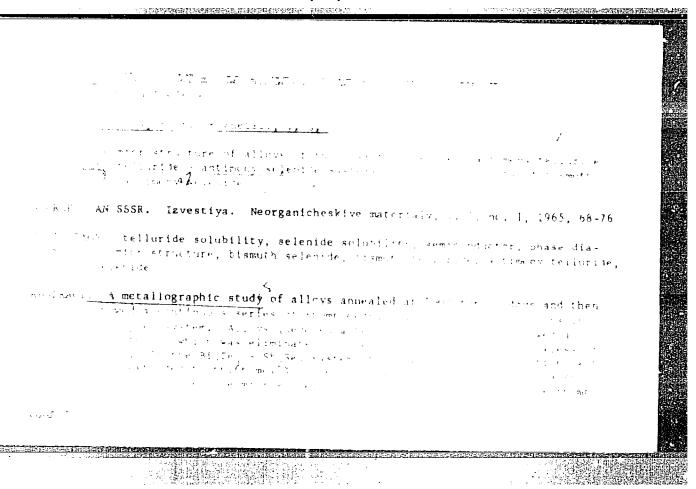
"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

REZUETSOV, V.G.; PETUSHKOVA, S.M.; TAR NAMEY, 1.V.

X-ray diffraction study of gadolinium phosphates. Zhur. strukt. Phim. 5 no.3:397-403 My-Je 164. (MIRA 18:7)

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



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bedral solid solution with the Sb₂Se₃ base at 5000 was 98.1 mol.7 Sb₂Se₃, as shown that the state of the state of

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2/2 Card

KUZNETSOV, V.G.; SOKOLOVA, M.A.; PALKINA, K.K.; POPOVA, Z.V.

Cobalt-sulfur system. Izv. AN SSSR. Neorg. mat. 1 no.5:675-689 My 165. (MIRA 18:10)

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

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YELISEYEV, A.A.; YAREMBASH, Ye.I.; KUZNETSOV, V.G.; ANTONOVA, I.T.; STOYANTSEVA, Z.P.

X-ray diffraction examination of lanthanum tellurides. Izv. AN SSSR. Neorg.mat. 1 no.7:1027-1038 J1 165. (MIRA 18:9)

1. Institut obshchey 1 neorganicheskoy khimii iment N.S. Kurrakova AN SSSR.

ELLERT, G.V.; TSAPKIN, V.V.; MINHAYLOV, Yu.N.; KUZNETSOV, V.G.

Chloridobromide complex compounds of tetracido-type uranyl. Zhur. neorg. khim. 10 no.7:1572-1580 Jl '65. (MIRA 18:8)

CIA-RDP86-00513R000928210004-5" APPROVED FOR RELEASE: 06/19/2000

PALKINA, K.K.: KUZNETSOV. V.C.

X-rays diffraction and thermographic investigation of alloys of the system Sb2Te₁ - Sb₂-Se₃. Tev. AN SCSB, Nearg. mat. 1 no.12:2158-2164 D 765. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy knimii im. N.W. Euraskova AN SSSR. Submitted June 10, 1965.

LAPINSKAYA, T.A.; KUZNETSOV, V.G.

Correlation of the zone of the Kama-Kincl' depression with the tectonics of the crystalline basement. Dokl. AN SSSR 164 no.5:1125-1128 0 '65. (MIRA 18:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti. Submitted April 13, 1965.

ACC NR: AP7000138

SOURCE CODE: UR/0177/66/000/011/0050/0054

AUTHOR: Derevyanko, Ye. A. (Lieutenant Colonel of Administrative Services; Candidate of Biological Sciences); Kuznetsov, V. G. (Major Medical Services)

ORG: None

TITLE: Experimental study of spatial illusion during flight

SOURCE: Voyenno-meditsinskiy zhurnal, no. 11, 1966, 50-54

TOPIC TAGS: medical experiment, space biologic experiment, human ailment, human physiology, jet aircraft, research aircraft, transport aircraft

ABSTRACT: Spatial illusion is one of the factors complicating the pilot's activities when flying on instruments. The causes, conditions and mechanisms which give rise to this phenomenon are of great theoretical and practical interest since only by understanding them can preventive measures be taken. B. A. Yakubov and A. A. Vorona are cited as sources for descriptions of the nature and symptoms of spatial illusions. But it is acknowledged that experimental data on the concrete circumstances in which these illusions arise, other than the word of pilots themselves, is lacking. Present research will only make it possible to establish some of the sensations of the illusions, and indicate some paths to be followed during further experimental study of their causes. Research has been conducted using specially

Card 1/2

UDC: 616.89-008.42-02:629.13

ACC NR: AP7000138

equipped recording devices installed in TU-104 aircraft. The K-12-21 oscillograph, used in conjunction with MP-69, TsGV, and DUS-3 sensors records physical parameters for overload, bank, and angular speed of the aircraft heading into a bank and emerging from it, and glide. Eleven command pilots and co-pilots, as well as six non-flying personnel participated in the research. The manner in which the research was conducted is described. The results obtained indicated that distinction could be made between three types of illusions: prolonged bank, reverse bank, and cyclical illusions, all of which are characterized by descriptions of the sensations experienced. It is concluded that, apart from internal factors involving the central nervous system, acceleration is a major factor in causing illusions. But the analysis of the indications of the three types notes that they were registered in the absence of optical information on spatial conditions. Orig. art. has: 3 figures.

SUB CODE: 22, 01, 22/ SUBM DATE: none

Card 2/2

L 16468-66 EWT(m)/ETC(f)/EPF(n)-2/EWG(m) DM ACC NR: AP6005540 (N) SOURCE CODE: UR/0089/66/020/001/0075/0076

AUTHOR: Veselovskiy, L. N.; Kuznetsov, V. G.; Sakovich, V. A.

ORG: none

Card 1/1 / C

TITLE: Optimum ratio of neutron- and gamma-radiation doses behind the shield of a reactor 16 00

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 75-76

TOPIC TAGS: radiation shielding, gamma radiation, neutron radiation, nuclear engineering, reactor shielding

ABSTRACT: It is shown that slight deviations from equality between the surface areas of the light and heavy components in a lead-water shield may have a considerable effect on the ratio of neutron- and gamma-radiation doses for optimum thicknesses of the water and lead components. No definite ratio of neutron- and gamma-radiation doses can serve as a generalized optimizing test depending on specific structural considerations. Therefore other tests must be used for checking optimum shielding conditions. Orig. art. has: 5 formulas.

SUB CODE: 18/ SUBM DATE: 11Mar65/ ORIG REF: 002/ OTH REF: 002

SUB CODE: 18/ SUBM DATE: 11Mar65/ ORIG REF: 002/ OTH REF:

UDC: 621.039.58:539.125.5 + 539.122

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

RDW/JD EWT(m)/ETC(F)/EWG(m)/EWP(t)/EWP(b) IJP(c) 13565-66 ACC NR. AP6001233 SOURCE CODE: UR/0363/65/001/012/2158/2164 AUTHOR: Palkina, K. K.; Kuznetsov, V. G. ORG: Institute of General and Inorganic Chemistry im. N.S. Kurnakov, Academy of Sciences, SSSR (Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR) TITLE: X-ray diffraction and thermographic study of alloys of the Sb₃Te₃-Sb₃Se₃ system SOURCE: AN SSSR Izvestiya. Neorganicheskiye materialy, v. 1, no. 12, 1965, 2158-2164 TOPIC TAGS: solid solution, antimony alloy, tellurium alloy, selenium alloy, THERMAL ANALYSIS, PHASE ONGERALL ABSTRACT: The homogenized alloys were studied by differential thermal analysis with a Kurnakov pyrometer and by x-ray powder techniques. Because of the supercooling tendencies of the alloys, the thermal effects were recorded on heating curves. The eutectic type of the phase diagram of the system with limited solid solutions was confirmed. The region of homogeneity of the solid solution based on Sb₂Te₃ is located between 0 and 53.5 mole % Sb₂Se₃ at 500C and between 0 and 52.5 mole % Sb₂Se₃ at 350C. The constants of the hexagonal Sb₂Te₃. lattice decrease with increasing SbaSe3 content of the solid solution: a from 4.264 to 4.128 A, c from 30.42 to 29.52 Å. In the range from 46.5 to 97 mole % Sb Se at 500C there exists a two-phase region consisting of solid solutions based on SbaSe3 and SbaTe3. Orig. art. has: 3 figures and 5 tables. SUB CODE: 11 / SUBM DATE: 10Jun65 / ORIG REF: 005 UDC: 546.86'24.1+546.86'23.1

MIKHAYLOV, YO.N.; KUZNETSOV, V.G.; KOVALEVA, Ye.S.

Crystalline structure of cesium tetrabromouranylate Cs₂[UO₂Br₄]. Zhur. strukt.khim. 6 no.5:787-788 S-0 '65.

(MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted May 21, 1965.

L 7824-66 EWT(1)/EWP(e)/EPA(s)-2/EWT(m)/EWP(1)/EPA(w)-2/EWP(t)/EWP(b) ACC NR AP 5028101 __IJP(8) SOURCE CODE: UR/0048/65/029/011/1982/1985 55 1 AUTHOR: Borodin, V.Z., Kuznetsov, V.G.; Lezgintseva, 55 ORG: Rostov-on-the-Don State University (Rostovskiy-na-Donu Gosudarstvennyy TITLE: Dielectric and optical investigations of barium titanate single crystals. in the infralow frequency range Laport, Fourth All-Union Conference on Ferro electricity held at Rostov-on-the-Don 12-16 September 1964/ SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v. 29 no. 11, 1965, 1982-1985 TOPIC TAGS: Perroelectric crystal, barium titanate, dielectric constant, electric coercive force, electric domain structure, extreme low frequency. ABSTRACT: The polarization, effective dielectric constant, and coercive field of thin (0.02 to 0.2 mm) Bario3 single crystal plates with different domain structures were measured at frequencies between 10^{-2} and 10^4 cycle/sec. The reversible dielectric constant was measured at a carrier frequency of 150 kilocycle/sec in the presence of a very low frequency bias field. In addition to this, the behavior under the influence of low frequency fields of single a-domains in the midst of o-domains was observed with a polarizing microscope. At frequencies below about 50 cycle/sec the effective dielectric constant as a function of the amplitude of the reasuring field showed a pronounced maximum at an amplitude in the vicinity Cary 1/2

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ACC NR: AP 5028101

of 1 km/cm; the maximum dielectric constant increased rapidly with decreasing frequency and the position of the maximum shifted slightly to lower amplitudes. The coercive field decreased gradually with decreasing frequency, reached a minimum at a frequency that depended on the amplitude of the applied field, and subsequently increased to the static value. The changes in thickness of a-domains were observed in 0.2 cycle/sec fields. At low amplitudes of the applied field the domains oscillated at the applied frequency, but at high amplitudes the domains oscillated at twice the applied frequency. An analogous transition from fundamental to second harmonic domain oscillation was observed on decreasing the frequency while maintaining the amplitude constant. When oscillating at the second harmonic, the domains reached their greatest size when the applied field passed through the value of the coercive field. The relation between domain oscillation and other dielectric properties of the crystal is discussed briefly. The authors thank M.L.Sholokhovich(S) for providing the single crystals. Orig. art. has: 1 formula and 5 figures.

SUB CODE: SS, EM

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ORIG.REF. 005 OTH REF: 002

Card 2/2 5/10

KUZNETSOV, V.G.

Case of leiomyoma of the corpus ventriculi. Vest. rent. i rad. 37 no.2:61-62 Mr-Ap '62. (MIRA 15:4)

1. Iz rentgenovskogo kabineta Shumerlinskoy rayonnoy bol'nitsy Chuvashskoy ASSR (glavnyy vrach A.N. Yefremov).

(STOMACH-TUMORS)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5"

KUZNETTOV, V.G.

Treatment of parenychia. "drav. Kuzakh. 23 no.4:14-15 '63.

1. Iz Ten normalakoy gorodskoy bol'nitsy No.4: (Glavnyy vrach - S.F. Slivnyah).

SOY/112-58-2-2337

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 90 (USSR)

AUTHOR: Kuznetsov, V. G.

TITLE: The Electrical Equipment of Diesel Locomotives (Elektrooborudovaniye teplovozov)

PERIODICAL: V sb.: Raboty M-va elektrotekha. prom-sti SSSR po mekhaniz. i avtomatiz. nar kh-va. 2. M., 1956, pp 16-24

ABSTRACT: A simplified diagram of the TE 3 Diesel electric locomotive is presented. To obtain a hyperbolic external characteristic of the traction generator, which would ensure constant power, an exciter with saturated and nonsaturated poles is used. A tachometer-generator automatic power-control system is used to improve the utilization of the installed Diesel capacity when the temperature of the generator field winding is changing and when the auxiliary lead varies. A current-limiting device of the traction generator secures the constant acceleration of the locometive. A 1,350-K4850-rpm MPT 99/77 traction generator is installed on the TE 3 Diesel locomotive. Type EDT 200A traction

motors have

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SOV/112-58-2-2337

The Electrical Equipment of Diesel Locomotives

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supporting-weight suspension; each motor has a continuous capacity of 205 kw at 500 rpm. An exciter and an auxiliary generator of the Diesel locomotive have the shaft and housing common with the armatures. The exciter has a capacity of 10 kw; the auxiliary generator 8 kw. Auxiliary generator voltage is kept constant (at 75 v) by a type TRN 1 electrodynamic voltage regulator. A brief description of the electrical equipment of the TE 1 and TE 2 locomotives is also presented.

S.M.D.

Card 2/2

110-1-1-1-4, VIG

USSR/Microbiology - Medical and Veterinary.

F-4

Abs Jour

: Ref Zhur - Biologiya, No 7, 1957, 26402

Author

: Kuznetsov, V.G.

Inst Title

: An Efficient Method of Dysentery Phage Diagnosis

through Mass Tests.

Orig Pub

: Zdravookhr. Tadzhikistana, 1956, No 3, 14-17

Abst

: It is proposed that a polyvalent phage be used for diagnostic purposes, in addition to the usual testing techniques. A suspected colony is implanted on Ressel medium (only traces of water of condensation are permissible in the test-tube). Scratch implantation must cover the entire width of the beveled surface. A loop (2 mm in diameter) is then used to place in the center, a drop of polyvalent phage, which is then smeared upward in the form of a stripe. A "sterile track" arises in 7 - 10 -20 hours on the beveled surface in positive cases.

Card 1/1

EUZNETGOV, V.G.

Simultaneous infestation with Hymenologia mana, Asceria and Dinkyllobothrium latum. Med.paraz.i paraz.bol. 33 nc.4:1288-490 [MIRA 18:3]

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

ACCESSION NR: AT5013227

UR/2556/65/000/036/0030/0037

AUTHOR: Kuznetsov, V. G. (Moscow)

TITLE: Some analogies in the disposition of lunar craters and terrestrial velcances

SOURCE: Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. Byulleten', no. 36, 1965, 30-37

TOPIC TAGS: lunar topography, lunar crater, lunar crater chain, lunar crater arc, endogenic crater

ABSTRACT: The disposition of curved mountain ranges on the surface of the moon, as described by M. M. Shemyakin (Byull. VAGO, 1962, no. 30(37) and Priroda, 1962, no. 2) has been made the subject of a study comparing these ranges and their craters with 16 island arcs on earth, especially those in and on the periphery of the Pacific Ocean (Kuriles, Japanese Islands, Java, etc.). Topographic and geomorphological comparisons included the curvature and lengths of the arcs, the disposition and spacing of craters along the arcs, as well as crater areas, elevations, and symmetry. The similarity between the disposition and topography of the terrestrial and lunar arcs is clear enough to postulate an endogenic origin for the lunar craters, and more detailed studies are recommended. Orig. art. has: 7 figures and 1 table.

Card 1/1

- 8 (4/16) -

1T.D PRESS, Vol.4, No.16, 23 Jul 65,

KUZHETEOV, V.G.; TAHAHAYEV, I.V.; SHEIRT, M.Ye.

Interaction of germaniam doixide with the oxider of aleminum, from, cilicon, calcium, and magnenium on heating. Thur. neorg. khim. 9 no.8:1934-1938 Ag 164.

(MIRA 17:11)

KUZNETSOV, V.G.

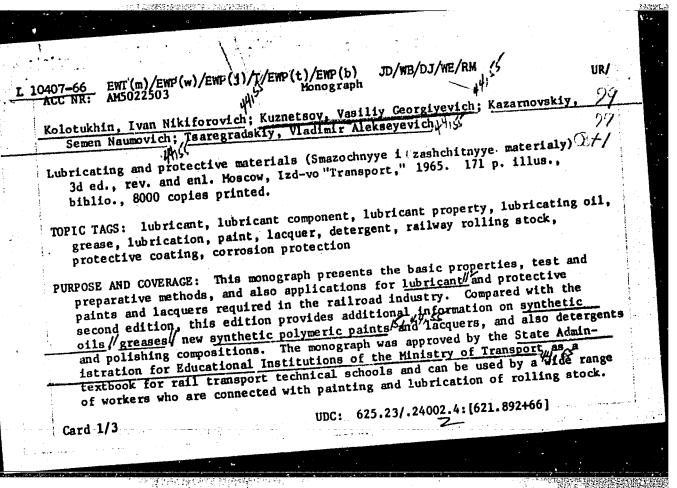
Special facilities and methods for research on enterobiasis in laboratory practice. Lab. delo 10 no.4:229-233 '64. (MIRA 17:5)

KUZNETSOV, V.G.

Method for a mass check of the population for enterobiosis. Zdrav. Tadzh. 3 no.1:22-26 Ja-F '56. (MIRA 12:7)

1. Iz kafedry biologii (zav. - dotsent A. I. Shchurinkova) Stalinabadskogo Gosudarstvennogo meditsinskogo instituta im. Abuali-ibn-Sino (dir. - chlen-korrespondent AN Tadshikskoy SSR Ya. A. Rakhimov) i san. epid. laboratorii SEL (nach. - B.G. Konopkin).

(OXYURIASIS)



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L 1hlh-66 ENT(m)/EPF(c)/ETC/EFF(n)-2/EMG(m)/EMP(j)/EMA(h)/EMA(1) RM ACCESSION NR: AT5023157 UR/2892/65/0000/004/0102/0116 AUTHOR: Afanas'yev, V. P.; Biskupchuk, A. M.; Dudkin, V. Ye.; Kovalev, Ye. Ye.; 79 Kuznetsov, V. G.; Litvinova, E. G.; Smirennyy, L. N. TITLE: Experimental data on the shielding properties of materials with regard to high energy protons SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on sured in a thin layer of a detector placed parallel to the shielding plane. The dose attenuation and accumulation factor was determined from measurements of Q(6) [(6, E ₀) = Q(0) / Q(0).	,	1911年18日中,其1918年1919年1918年1918日 - 111日 -	AND
ACCESSION NR: AT5023157 AUTHOR: Afanas'yev, V. P.; Biskupchuk, A. M.; Dudkin, V. Ye.; Kovalev, Ye. Ye.; 79 Kuznetsov, V. G.; Litvinova, E. G.; Smirennyy, L. N. Ye.; Kovalev, Ye. Ye.; 79 TITLE: Experimental data on the shielding properties of materials with regard to high energy protons SOURCE: Moscow. Inzhenermo-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose Q(6) was meadose attenuation and accumulation factor was determined from measurements of Q(6) beyond a shielding screen of thickness 6:			
ACCESSION NR: AT5023157 AUTHOR: Afanas'yev, V. P.; Biskupchuk, A. M.; Dudkin, V. Ye.; Kovalev, Ye. Ye.; 79 Kuznetsov, V. G.; Litvinova, E. G.; Smirennyy, L. N. 155 TITLE: Experimental data on the shielding properties of materials with regard to high energy protons SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose Q(6) was meadose attenuation and accumulation factor was determined from measurements of Q(6) beyond a shielding screen of thickness 6:	7. 7.1.1.1.66 20.0	m/ Maria / Maria	Andrew Control of the
AUTHOR: Afanas'yev, V. P.; Biskupchuk, A. M.; Dudkin, V. Ye.; Kovalev, Ye. Ye.; 79 Kuznetsov, V. G.; Litvinova, E. G.; Smirennyy, L. N. TITLE: Experimental data on the shielding properties of materials with regard to high energy protons SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on sured in a thin layer of a detector placed parallel to the shielding plane. The deepond a shielding screen of thickness 6:	ACCESSION ND.	$\frac{\Gamma(m)/EPF(c)/ETC/EPF(n)-2/ENG(m)/ENP(j)}{AT5023157}$	EMA(h)/EMA(1) RM
high energy protons SOURCE: Moscow. Inzhenermo-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose Q(6) was meadose attenuation and accumulation factor was determined from measurements of Q(6) beyond a shielding screen of thickness 6:	AITTUOD	44,65 UR/28	92/65/000/004/0102/0116
high energy protons SOURCE: Moscow. Inzhenermo-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose Q(6) was meadose attenuation and accumulation factor was determined from measurements of Q(6) beyond a shielding screen of thickness 6:	Kuznetsov. V. G	yev, V. P.; Biskupchuk, A. M.; Dudkin,	V. Ye.: Koyalan y 44,55 80
high energy protons SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose Q(8) was meadose attenuation and accumulation factor was determined from measurements of Q(6) beyond a shielding screen of thickness 8:	TITLE: FIG.	Held Smirennyy, L. N.	55 Novalev, te. te.;79
SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 4, 1965, 102-116 TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose $Q(\delta)$ was meadose attenuation and accumulation factor was determined from measurements of $Q(\delta)$ beyond a shielding screen of thickness δ :	high energy pro	ental data on the shielding properties	of materials with
TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose $Q(\delta)$ was meadose attenuation and accumulation factor was determined from measurements of $Q(\delta)$ beyond a shielding screen of thickness δ :	SOURCE - Magazin		7,55 with regard to
TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radiation dosimetry ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose $Q(\delta)$ was meadose attenuation and accumulation factor was determined from measurements of $Q(\delta)$ beyond a shielding screen of thickness δ :	ot izlucheniy, r	10. 4. 1965. 102-116 institut. Vopro	osy dozimetnii i zachobia
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ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose Q(6) was meadose attenuation and accumulation factor was determined from measurements of Q(6) beyond a shielding screen of thickness 6:	tion dosimetry	nation shielding, proton beam, polyethy	lene, lead, aluminum, madia,
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dose attenuation and accumulation factor was determined from measurements of Q(6) —— beyond a shielding screen of thickness 6:	the Olyal synchro	ocyclotron in Dubno. The total about	protons were conducted on
of chickness 6:	dose attenuation	layer of a detector placed parallel to	the shielding plan was mea-
	beyond a shieldir	ng screen of thickness 6:	from measurements of Q(6)
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ACCESSION NR: AT5023157

In all cases, the values of $Q(\delta)$ were normalized in conformity with the monitor readings. The experimental set-up is shown in fig. 1 of the Enclosure. The proton beam from absorber 1 passes through collimator 2 and is deflected by magnet 3 to collimator 4, thus producing a highly pure monochromatic beam of energy. The beam then passes through collimator 5 and ionization chamber M, and impinges direct ly (normal to the surface) on a layer of shielding material immediately adjacent to detector D. The detector was a flat ten-channel ionization chamber filled with a gas mixture (35% He + 65% Ar) which is capable of measuring the dose in tissue rads for energies of 1-560 Mev. The dimensions of the chamber were 500 \times 300 mm. The characteristics of the materials used in the experiments are shown in table 1 of the Enclosure. Curves are given for the dose accumulation and attenuation factor for a wide beam of protons as a function of shield thickness for various materials at various beam energies. The curves show good agreement with theoretical calculations. Curves are also given for the mean tissue dose in a flat phantom as a function of the incident energy of protons in the absence of a shield. The curves agree quite well with theoretical calculations. The mean tissue dose \overline{D}_{\star} for a flat phantom with 6 = 30 g/cm² is found behind a polyethylene shield at proton incident energies of 126, 260, 415 and 660 Mev. The maximum mean tissue dose for a thickness of 20 g/cm² is at a proton energy of 260 Mev, while at greater

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ACCESSION NR: AT5023157

thicknesses, the maximum comes at 415 Mev. The mean tissue dose for 415-Mev protons remains practically unchanged up to a thickness of 50-60 g/cm2 of polyethylene. The 660-Mev proton dose is reduced beyond this thickness by a factor of only 2, while the dose is practically zero at a thickness of 15 g/cm² for 126 Mev, and the same is true at a thickness of ~40 g/cm² for 260-Mev protons. The attenuation curves for the various materials are practically identical. Thus an equivalent thickness of any of the materials studied may be substituted at proton energies of 126 and 260 Mev for a polyethylene shield. On this basis, curves are given for mean tissue dose as a function of shielding thickness for various materials at energies of 126 and 260 Mev. It is found that for a proton energy of 260 Mev, consideration must be given to beam attenuation through inelastic interaction in the shielding materials and in biological tissue. The method used in this investigation has not been verified for proton energies greater than 260 Mev and less than 126 Mev. Orig. art. has: 12 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 006

ENCL: 02

OTHER: 007

SUB CODE: NP

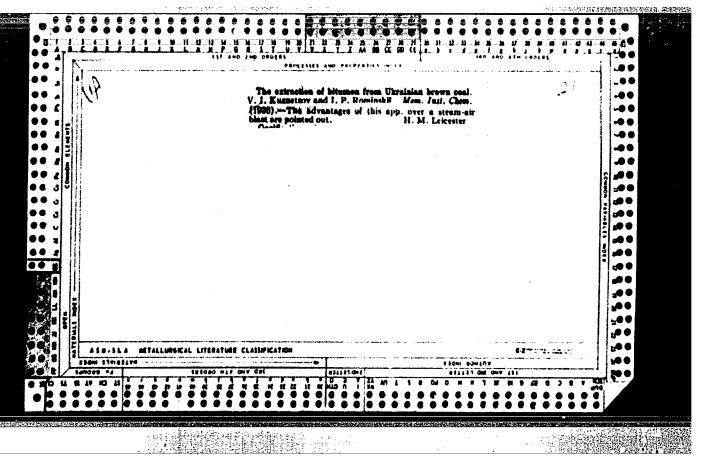
Card 3/5

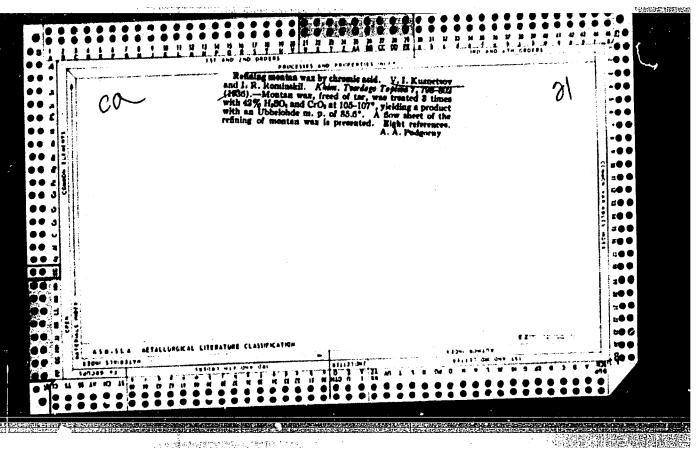
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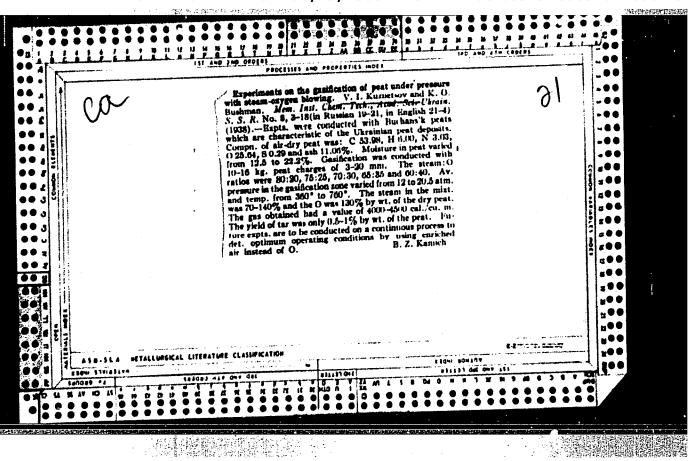
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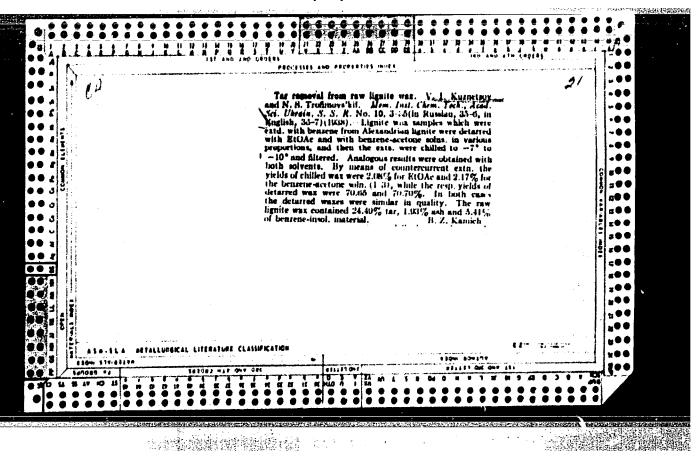
SKAVINSKIY, Yu.V.; ZAKHAROV, N.I.; BYCHKOVA, A.I.; KUZNETSOV, V.G.

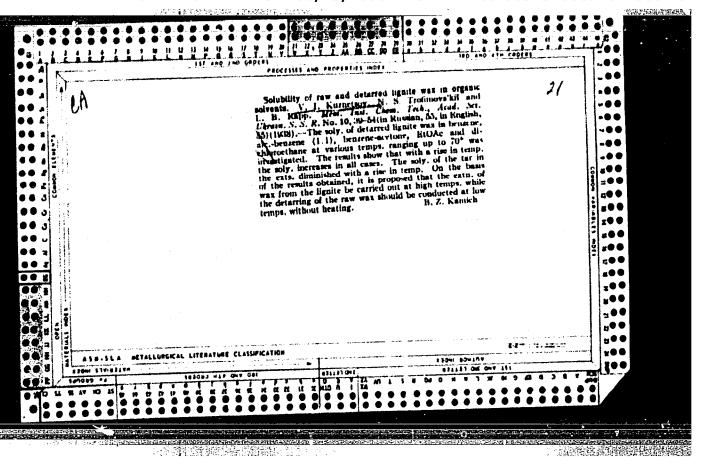
Toxoplasmosis in the Far North. Toxoplasmosis in Taymyr National Area of Krasnoyarsk Territory. Trudy TSTU 80:30-32 '65. (MIRA 18:11)

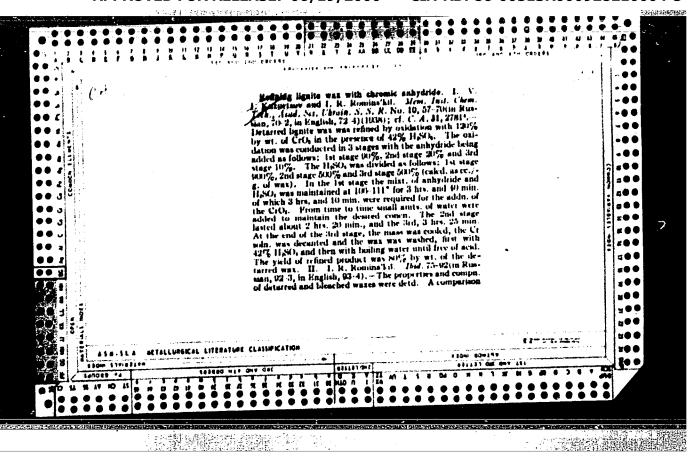


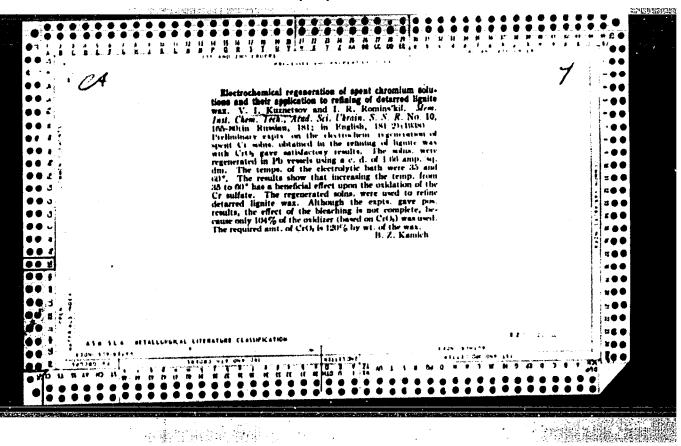


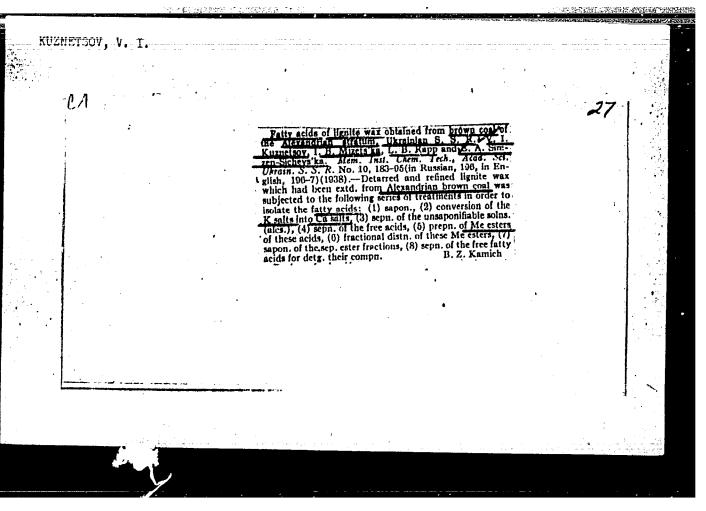


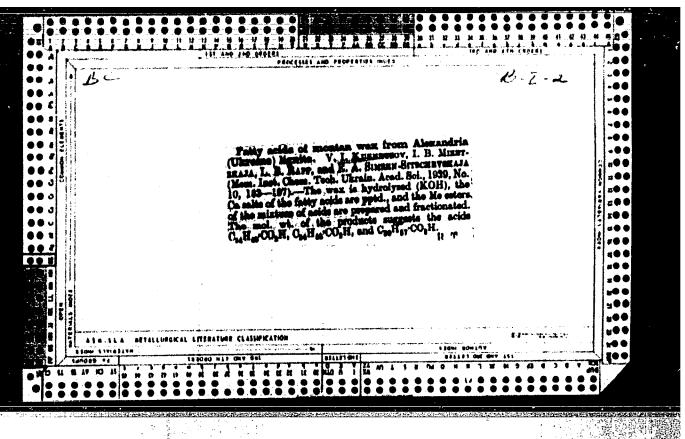












KUZNETSOV, V. I.

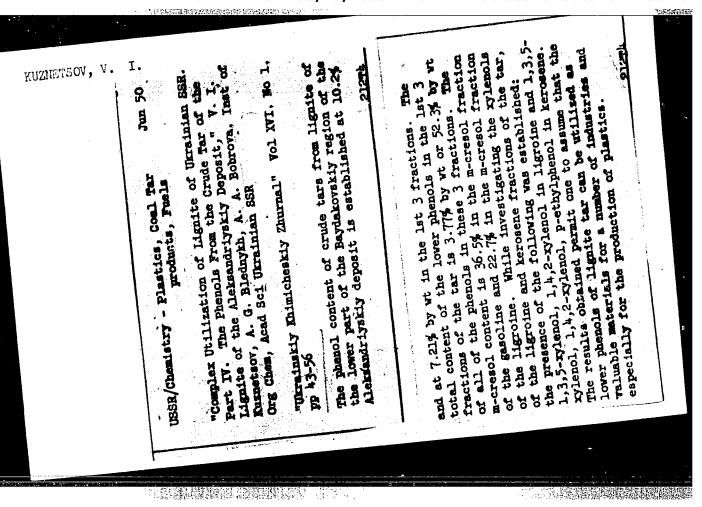
Kuznetsov, V. I. "Complex utilization of the brown coals of the Ukranian SSR," Report 1, Ukr. khim. zhurnal, Vol. XV, Issue 1, 1919, p. 3-10, - Bibliog; lh items

SO: U-52hl, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 2-, 17h/)

KUZNETSOV, V. I.,

Kuznetsov, V. I., Govorova, R. P. and Shilov, S. V. "Complex utilization of the brown coal of the Ukranian SSR," Report 2, Ukr. khim. zhurnal, Vol. XV, Issue 1, 1947, p. 11-24

SO: U-5241, 17 December 1953, (Letojis 'Zhurmal 'nykh Statey, No. 26, 1919)



KUZNETSOV, V. I.

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Chemical Abst.
Vol. 43 No. 8
Apr. 25, 1954
Fuels and Carbon Matien Products

Complex utilization of brown coal of Ukrainian S.S.R.

V. Comparative evaluation of suivents for extraction of mineral was from brown coal of one site of Ukrainian S.S.R.

V. Pounction shown coal of one site of Ukrainian S.S.R.

V. Pounction and A. A. Dobroys. Ukrain, Khim. Zhur.

V. Pounction and A. A. Dobroys. Ukrain, Khim. Zhur.

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V. Pounction and A. A. Dobroys. Ukrain, Khim. Zhur.

V. Pounction and A. A. Dobroys. Ukrain, Khim. Zhur.

V. Indiana of the coal of the coal

chose very rot, vot. 10, 50, 692; about in them. About. 1954, vol. 46, 4650). The parafile fraction of interiols extracted from each by Ciclography contains some 25 peraffin, approximately it dixture of note and bond forms. By sweating some 25 of the oil content on to review from the crude peraffin. In periffection by adsorbents such as tentenite in stitute jet it is possible to obtain white peraffin in 25-456 yield, freezing point as to the crude peraffin in 25-456 yield, freezing point

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CIA-RDP86-00513R000928210004

Euznetsov, V. I.

USSR/Chemistry - Low Temp Coking; Lignite

"Complex Utilization of Brown Coals of the Ukrainian SSR. 7. Investigation of the Composition of Tar Fractions Obtained by Low Temposition of Tar Fractions Obtained by Low Temposition of Brown Coal," N. M. Karavayev, perature Coking of Brown Coal," N. M. Karavayev, V. I. Kuznetsov, R. P. Govorova, Inst of Heat Power Engng, Acad Sci Uk SSR

Ukrain Khim Zhur, Vol 19, No 5, pp 556-561.

Purification of the ligroin-kerosene and paraffin fractions is best carried out by selective solvent

27116

Sep/Oct 53

extraction. The furfural used as a solvent can be recovered almost completely, and the material extracted applied in the [used] rubber recovery industry.

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••	tana na manaka mana Manaka manaka manak	
USSR	VIII. REMOVAL OF HEMPAL DILE FROM PHEMOLATES DURING PRODUCTION OF PRIMARY TAR FROM BROWN COALS. Exemptsoy, V.I. and Blechykh, A.G. (Ukr. Khim. Zh. (Ukr. Chem. J.), 1953, vol. 19, (6), 683-686; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Roscow) 1954, (18), L2128). Fhonolates were	
	obtained by treating a wide fraction of primary ter, boiling at 170 to obtained by treating a wide fraction of primary ter, boiling at 170 to 312°C, with a 10% solution of caustic sode. The following methods of removing the neutral cils are described: extraction with other, with bracene, dilution with water and blowing off with superheated steem. The last method was the best and removed 90.4% of the neutral cils.	
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KUZNETSOV V.I.

US IR/ Chemistry - Chemical technology

Card 1/2

Pub. 116 - 23/25

Authors

Kuznetsov, V. I.; Govorova, R. P.; Livyy, G. V.; and Landa, I. M.

"你们我们的一个人,我们们就是一个人,我们们就是一个人,我们们就是一个人,我们们们就是一个人,我们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们

Title

Use of furfurole extracts of ligroin-kerosene fractions of primary

lignite tar for reclaiming of rubber

Periodical :

Ukr. khim. zhur. 21/1, 127-131, 1955

Abotract

Lignite tar refining wastes and especially furfurole extracts of ligroinkerosene fractions were investigated to determine their applicability as plasticizers for rubber reclamation. It was found that the ligroin-kerosene extract is an active swelling agent for synthetic rubber. Even though the extract cannot be used in pure form for the reclamation of rubber it is, however, well applicable as a diluent of solid plasticizers which makes it possible to obtain reclaimed rubber with high physico-mechanical

Institution

Acad. of Sc., Ukr-SSR, Heat Energy Institute. The Rubber Reclaiming Plant,

Kiev.

Submitted

February 20, 1955

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

Periodical: Ukr. khim. zhur. 21/1, 127-131, 1955

Gard 2/2: Pub. 116 - 23/25

Abstract: properties. The best results were obtained during the application of solid plasticizers of the colophony, commarone resin types. Four USSR references (1938-1953). Tables; graphs.

USSR/Chemistry - Chemical technology

Card 1/1 Pub. 116 - 27/30

Authors Kuznetsov, V. I., and Bobrova, A. A.

Title Complex utilization of brown coal in Ukr. SSR. Part 9. Extraction of brown coal for the purpose of separating mineral wax

Periodical : Ukr. khim. zhur. 21/3, 416-420, June 1955

Abstract

The extraction of bituminous brown coal was investigated to determine the effect of various factors: grain size and moisture of coal, age and origin of the coal, preliminary thermal and chemical processing, pressure, type of machines, etc., on the yield and quality of the mineral wax separated from the coal. Analysis of results obtained is presented. Eleven refer-

ences: 10 USSR and 1 German (1929-1953). Tables.

Institution: Acad. of Sc., Ukr. SSR., Heat Power Engin. Inst.

Submitted : February 22, 1955

KNZNETSOV, SV.I.

USSR /Chemical Technology. Chemical Products

1 Products I-15

and Their Application

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31838

Author : Kuznetsov V. I., Fadeicheva A. N.

Title : Composite Utilization of Brown Coal of Ukrainian

SSR. X. Characteristics of Primary Tar Produced in Shaft Furnaces from Bituminous Brown Coal of

Ukrainian SSR

Orig Pub: Ukr. khim. zh., 1955, 21, No 4, 522-526

Abstract: Low-temperature carbonization of bituminous

brown coal from the Aleksandriyskiy deposit (Ukraine) was carried out under laboratory con-

Card 1/3

USSR /Chemical Technology. Chemical Products and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31838

ditions, in a revolving retort, and in industrial shaft furnaces. Yield of tar, on the basis of dry coal, amounts to 13.7%; it contains 9.4% phenols (6.6% liquid), 12.6% paraffins and 16.3% silica-gel tars. The neutral, hydrocarbon portion, which constitutes 51.8% of the tar, contains 5.9% of 95-200° gasoline fraction, 6.3% 200-230° fraction, 19.5% 230-290° fraction, 48.3% 290-353° fraction and 17.7% pitch. About 44% of the phenols are low boiling. On the 44% of the phenols are low boiling. On the basis of the tar, the phenol fraction amounts to 0.5%, the cresol fraction -- 1.83% and the

Card 2/3

USSR /Chemical Technology. Chemical Products and Their Application

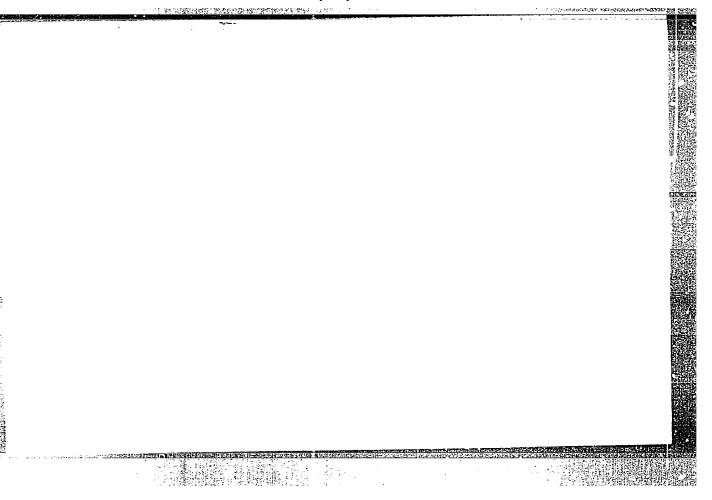
T-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31838

xylenol fraction -- 1.68%. Part IX see RZhKhim, 1956, 48055.

Card 3/3



KUZ NETSOV, V.I.

USSR/ Chemistry - Solid fuels

Card 1/1 Pub. 116 - 25/29

Authors : Kuznetsov, V. I., and Bobrova, A. A.

Title : Complex utilization of brown coal in the Ukr. SSR. Part 12. Semicoking of

extracted brown coal

Periodical : Ukr. khim. zhur. 21/6, 800-803, Dec 1955

Abstract : Experiments showed that semicoking of extracted bituminous brown coal lead to

a reduction in the primary tar yield and a small reduction in the yield of pyrogenetic water as compared with the yield of these products from basic lignite. The reasons for the change in properties and composition of primary coal tars originating as result of separating the bitumena from the coal, are explained. Tars of extracted coal were found to contain considerable amounts of phenols and other liquid hydrocarbons. Three USSR references (1919-1952).

Table.

Institution : Acad. of Sc., Ukr. SSR, Inst. of Heat Power Engineering

Submitted: March 18, 1955

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

KUZNETSOV V.I.
USSR/ Chemistry - Solid fuels

Card 1/1

Pub. 116 - 26/29

Authors

* Kuznetsov, V. I.; Govorova, R. P.; Fadeycheva, A. G.; Gigel', T. B.; and Chernykh, M. K.

Title

* Complex utilization of brown coal in the Ukr. SSR. Part 13, Tars from semicoking of smut coal with the solid heat carrier - semicoke

Periodical

! Ukr. khim. zhur. 21/6, 804-809, Dec 1955

Abstract

Tars obtained by semicoking of brown coal with the solid heat-carrier (semicoke) were found to offer a higher yield of benzene and lower yield of paraffin fractions as compared with tar obtained during the semicoking of the very same coal with a gaseous heat carrier. The primary decomposition products during the semicoking of brown coal with a solid heat carrier - semicoke - submit to cracking to a greater extent than during semicoking with a gaseous heat carrier. The increase in fractions in tars of unsaturated compounds was found to be due to cracking. The phenols obtained from such fractions offer a somewhat lower yield of phenol-cresol fractions; and the paraffin yield is much lower. Tables; graph.

Institution: Acad. of Sc., Ukr. SSR, Inst. of Heat Power Engineering, Lab. for Chem. Proc.

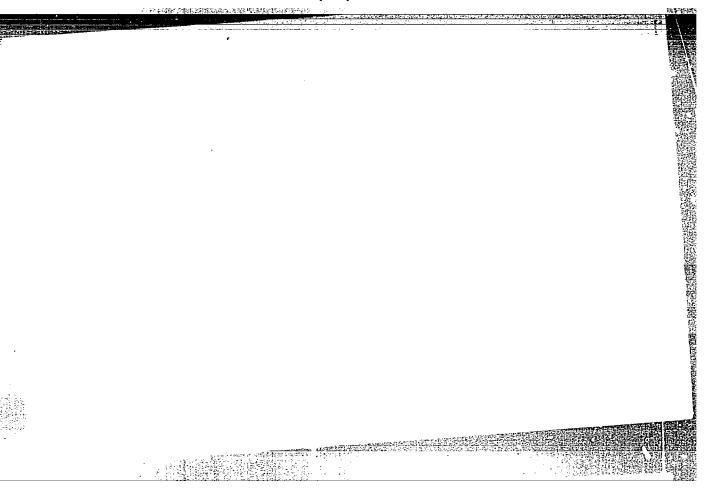
Submitted: June 17, 1955

VLARATIMEN TURBURY TO

MULHER

TOLUBINSKIY, Vsevolod Ivanovich; SHCHEGOLEV, German Mikhaylovich; BABI-HOVIGH, Mikhail Iosifovich; KUZHETSOV, Vladimir Ivanovich; TOLU-BINSKIY, V.I., redaktor; TITKOV, B.S., redaktor izdatel stva; SKLYA-ROVA, V.Ye., khudozhestvennyy i tekhnicheskiy redaktor

[Use of local fuels for industrial power engineering] Energotekhnologicheskoe ispol'zovanie meatnykh topliv. Pod obshchei red. V.I. Tolubinskogo. Kiev, Izd-vo Akad. nauk USSR, 1956. 128 p. (MIRA 10:4) (Tuel) (Power engineering)





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