AUTHOR: MatveYchev. A.S., Engines: 507/118-56-2-2/19 TITLE: The Mechanization of the Maintenance Work of Martin Furnaces (Mekhanizatsiya remonta martenovskikh pechey) PERIODICAL: Mekhanizatsiya trudoyëmkikh i tyazhëlykh rabot, 1958, Nr 2, pp 6-8 (USSR) ABSTRACT: The article deals with the mechanization of the maintenance works of the Martin (open hearth) furnaces. Special repair trusts (Yuzhdomnaremont trust and other) developed work methods which considerably cut down the idle time of furnaces by introducing special tools and installations to speed up the repair work; conveyer belts were installed in the modern plants for the evacuation of slag and broken brick and for the transportation to the furnaces of new material necessary for maintenance work. Mechanized methods of repair are still insufficiently developed; many operations are still done by manual labor; many repair shops must be reorganized and Card 1/2

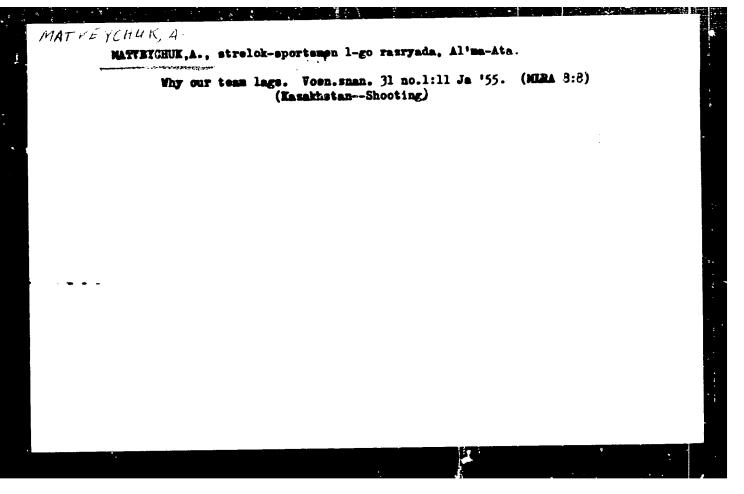
SOV/118-58-2-2/19

The Mechanization of the Maintenance Work of Eartin Furnaces

new equipment must be installed so that the repair work can start as soon as the furnace has cooled off. There are 5 diagrams and 1 table.

1. Furnaces-Maintenance

Card 2/2



- 1. MATVEYCHUK, A.Y., SHABLIOVSKIY, V.V.
- 2. USSR (600)
- 7. Mery Bor'by a Glavneyshimi Vreditelyami i Boleznyami Polevykh Kul'tur (Method for Combatting the Chief Pests and Diseases of Field Crops), Under the Editorship of A.Ye. Chumakov, Candidate in Agricultural Sciences, 23 pp, Voroshilov-Ussuriyskiy, 1951.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Peb 1952, pp 121-132. Unclassified.

SOKOL'SKIY, D.V.: AZERBAYAEV, I.N.; MATVEYCHUK, A.Ya.; KIRILYEG, I.V.

Effect of the additions of metals of the IV period on the activity of alloyed nickel catalysts, Report No.1:

Hydrogenation of dimethylacetylenylcarbinol on a nickel catalyst with chromium additions. Izv. AN Kazakh. SSR. Ser. khim. nauk 15 no.1:58-63 Ja-Mr '65. (MIRA 18:12)

1. Submitted April 8, 1964.

SOKOL'CKIY, D.V.; AZERBAYEV, I.N.; MATVEYCHUK, A.Ya.; GETMANTSEVA, I.P.; KERILYUS, I.V.

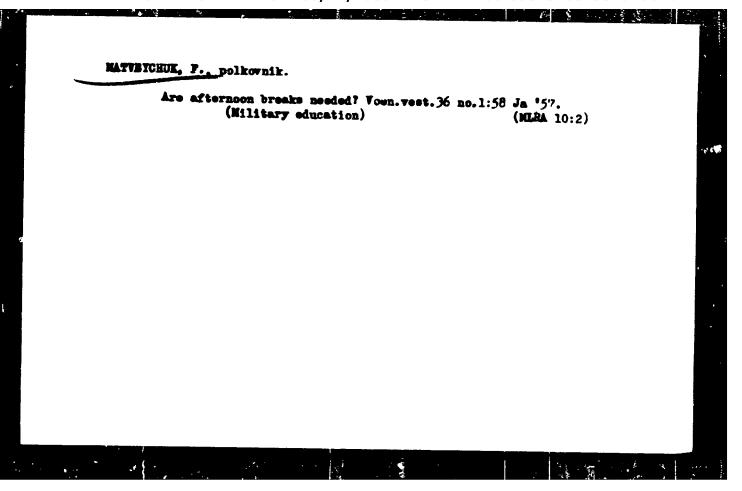
Effect of the additions of metals of the IV period on the activity of alloyed nickel catalysis. Report No.2: Hydrogenation of nitrosonaphthols on a nickel catalyst with the addition of vanadium. Izv. A N Kazakh. SSR. Ser. khim. nauk 15 no.1:64-69
Ja-Mi 165. (MIRA 18:12)

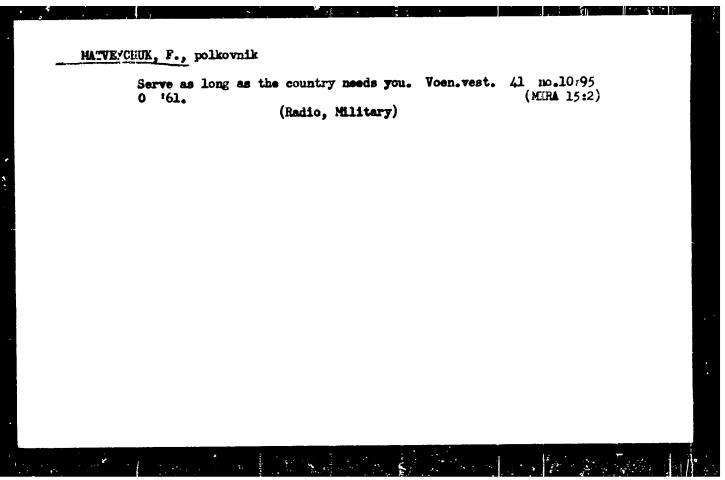
% Submitted April 8, 1964.

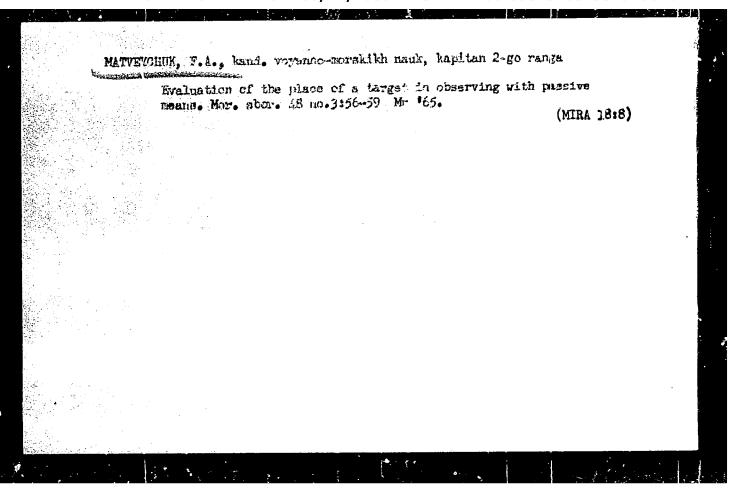
SOKUL SKIY, D.V.; AZERBAYEV, I.N.; MATVEYCHUK, A.Ya.; KIRILYUS, I.V.

Effect of metals of the IV period on the activity of alloyed nickel catalysts. Report No.3: Nickel catalysts with additions of titanium, vanadium, copper. Izv. AN Kazakh. SSR. Ser. khim. nauk 15 no.3:67-70 Jl-Ag . (MIRA 18:11)

1. Submitted April 8, 1964.







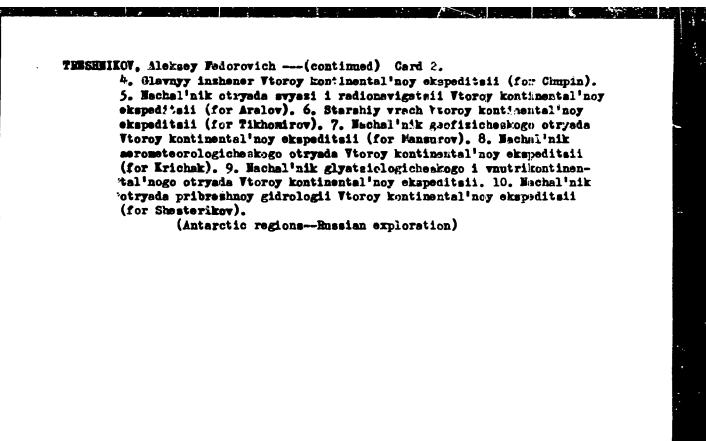
THESHNIKOV, Aleksey Fedorovich, kand.geograf.nauk. Prinimali uchastiye:
M.TVEYCHUK, Georgiy Ivanovich; CHUPIN, Nikolay Petrovich; ARALOV,
Dmitriy Fetrovich; TIKHOMIROV, Igor' Ivanovich, vrach-storatelog;
MANSUROV, Sergey Mikhaylovich; KRICHAK, Oaker Grigor'yevich, kand,
geograf.nauk; SHUMSKIY, Petr Aleksandrovich, doktor geograf.nauk;
SHUMSTRRIKOV, Nikolay Pavlovich, mladshiy nauchnyy sotrudnik, gidrolog. DROZHEHIMA, L.P., tekhn.red.

[Second Continental Expedition, 1956-1958; general description]
Vtorais kontinental nais ekspeditsiis, 1956-1958 gg.; obshchoe opisanie. Pod red. A.F.Treshnikova. Leningrad, Izd-vo Morskoi transport. 1960. 205 p. (Sovetskais antarkticheskais ekspeditsiis, no.8).

(MIRA 13:7)

1. Leningrad. Arktichaskiy i antarktichaskiy nauchno-issledovatel'-akiy institut. 2. Machal'nik Vtoroy kontinental'noy ekspeditsii (for Treshnikov). 3. Zamestitel' nachal'nika Vtoroy kontinental'noy ekspeditsii po administrativno-khozyaystvennoy chasti; nachal'nik beregovoy baxy (for Matveychuk).

(Continued on next card)



USSR / General and Specialized Zoology - Insects. : Ref Zhur - Biologiya, No 5, 1959, No. 20910 Abs Jour : Matveychuk, N. I. Author : State Commission for Variety Testing of Inst Agricultural Cultures at the Ministry of Agriculture of USSR : On the Effectiveness of the Use of Poison Title Chemicals for the Control Agricultural Pests of the Sugar Beet : Inform. byul. Gos. komis. po sortoispyt. Orig Pub s.-kh. kul'tur pri M-ve s.-kh. SSSR, 1958, No 4, 13-14 : The spraying of beets with a 0.5% suspension, Abstract of DDT, 300 liters/hectare (by active ingredient) completely paralyzed the beet weevils within 24 hours. Dusting with 12% Card 1/249

USSR / General and Specialized Zoology - Insects.

D

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20910

hexachlorocyclohexane, 20 kg/hectare, paralyzed within 24 hours all the larvae of the beet bug (Poeciloscytus cognatus Fieb.). The dusting of beets with 5.5% DDT, 20 kg/hectare, paralyzed 100% of the caterpillars of clover and cabbage Noctuidae (Scotogramma trifolii Rott. and Burathra brassicae L.) after 8-10 hours. -- A. P. Adrianov

Card 2/2

MATVETCHUK, V.I.

1. 17.33

William St. Comment

Elimination of foci of anaylestorianis in the mines of "Tajikugol" in Lenimbed Frovince. Edrav. Tadsb. 7 no.1:18-23 Ja-F '60. (MIRA 13:5)

1. Is Ruspublikanskey sanitarney epidemiologicheskoy stantsii Tadshikakoy SSR. (LIMINARAD PROVINCE-COAL MIMERS-DISMASES AND HYGINEE) (HOOKYGRM)

KAIMYKOV, Ye.S.; @BURMAKINA, V.F.; MATVEYCHUK, V.I.

Measures for reducing ascariacin among the rural population.
Zdrav. Tadzh. 7 no. 2:12-14 Mn-ap '60' (MIRA 13:10)

1. Iz Stalinabadakogo Instituta epidemiologii i gigiyeny i
Respublikanskoy sanitarno-epidemiologicheskoy stantali.

(TAJIKISTAN-ASCARIDS AND ASCARIASIS)

MASVET CHUK, V.S.; RARIEOVICH, A.N., doktor tekhn. nauk, prof., red.; VE-

[Investigating loading and unloading devises having magnetic and cacum clemps] Issledovanie sagrusochmo-rasgrusochnykh ustroisty s magnitnymi vakummymi sakhvatami. Pod red. A.N.Rabinovicha.
L'vov, L'vovskii politekhm. in-t, 1959. 107 p. (MIRA 14:8)
(Landing and unloading—Equipment and supplies)

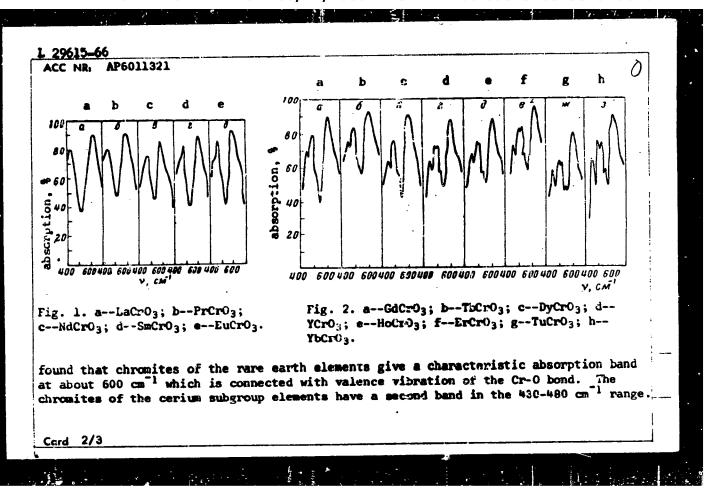
RABINOVICH, Avraem Nakhimovich; MATVEICHIN, Vladimir Sergevavich;
SHTANKOV, Oleg Borisovich; FURER, P.Ya., red.; GORNOSTAYFOL'SKAYA,
M.S., tekhn. red.

[Automation of the feeding and discharging of metal-cutting
equipment] Avtomatizatsiia zagruski i rasgruski metalloobrabatyvanushchego oborudovaniia. Moskva, Mashgis, 1963. 115 p.

(MIRA 16:9)

(Feed mechanisms) (Automatic comtrol)

29615-66 IJP(c) ENT (m)/EWP(t)/ETI ACC NR: AP6011321 SOURCE: CODE: UR/0363/66/(02/003/0514/0516 AUTHOR: Matveychuk, V. T.; Shevchenko, A. V.; Skripchenko, N. V. ORG: Institute of Material Science Problems, Academy of Sciences UkrSSR (Tratitut problem materialovedeniya Akademii nauk UkrSSK) TITLE: Infrared abscrption spectra of chromites of rare earth elements SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 3, 1966, 514-516 TOPIC TAGS: rare earth element, chromite, chromium, crystal lattice, IR absorption, spectrophotometric analysis ABSTRACT: The IR absorption spectra of 13 chromites of rare earth elements were taken using a UR-10 spectrophotometer. Chromite samples were prepared by two techniques: by growing single crystals from a melt containing PbO+PbF2 mixed solvent, the melt was held at 1360°C for 4 hours whereupon the melt temperature was reduced from 1360°C to 1000°C at a rate of 10-30° per hour. Under the second method, mixtures of the chromium oxide were fused with a rare earth element oxide at 2000°C for 15 minutes in an argon atmosphere. Individual chromite phases were examined by petrographic and x-ray analyses and the chromite compositions were confirmed by chemical analysis. The IR spectra of chromites of the cerium subgroup elements are shown in figure 1. The IR spectra of chromites of the yttrium subgroup elements are shown in figure 2. It was UDC: 546.65'763:543.422.4 Cord 1/3



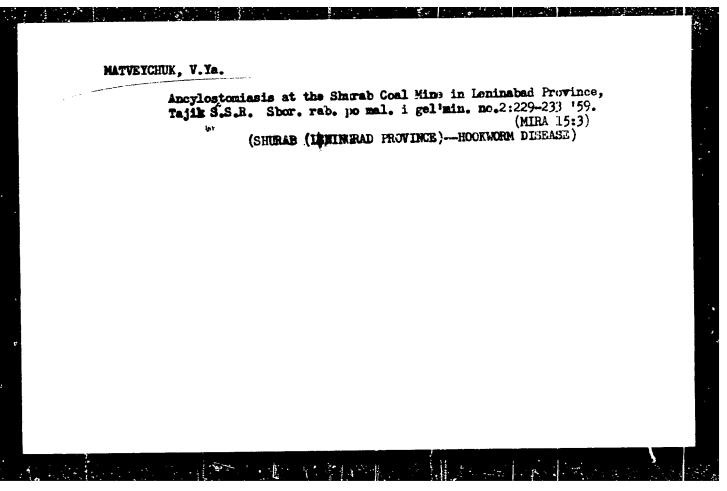
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ACC NR: AP6011321

Due to the imperfections in the crystal lattice, the second band of the chromites of the yttrium subgroup elements is split into either a doublet or a triplet, or a quadruplet. A linear relationship was established between the wave number of the second band and the ionic radii of the rare earth elements contained in the chromites. Orig. art. has: 1 table, 3 figures.

SUB CODE: 07/ SUBM DATE: 05Jul65/ ORIG REF: 003/ OTH REF: 002

Card 3/3 10



RABIBOVICH, A.N., dir.tekhn.nauk; MATVETCHUK, V.S., inzh.; MESEHKO, V.I., inzh.

Vertical-freder hoist with automatic regulation of the high level of blanks. Mashinostroitel' no.1:5-6 Ja '60, (MIRA 13:4)

(Machine tools--Attachments)

BOL'SHAKOV, A.G., doktor tekhn. nauk, prof.; MATVEYENKO, A.A.

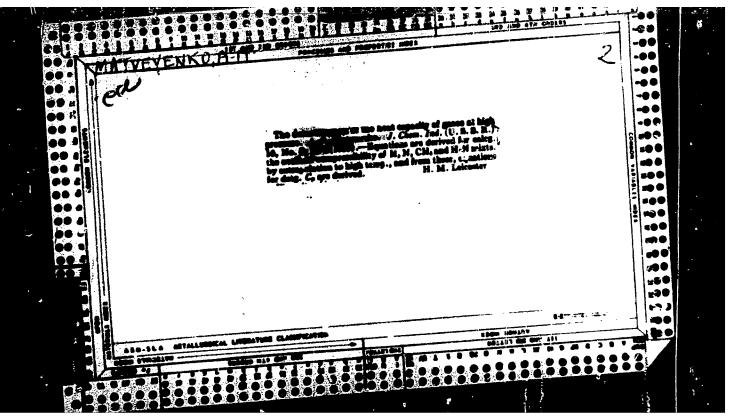
Material talance of the production of grapular ammonium nitrate.

Report No.1. Nauch. zap. Od. politekh. inst. 40:3-14 '62.

(MIRA 17:6)

1. Predstavlena kafedroy "Protsessy i apparaty khimicheskikh proizvodstv" Odeaskogo politekhnicheskogo instituta.

41



L 31927-56 EWT(1) GW

ACC NR: AP5017029

SOURCE CODE: UR/0387/65/00C/003/0065/0070

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AUTHOR: Avchyan, G. M.; Harvovenko, A. A.

ORG: All-Union Scientific Research Institute of Geophysical Methods of Prospecting (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)

TITLE: Effect of saturating 'iquids on the propagation velocity of longitudinal waves in sedimentary rocks at high pressures and temperatures

SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 3, 1965, 65-70

PPIC TAGS: seismic wave, high pressure chamber, ultrasonic wave propagation, seismic prospecting

ABSTRACT: The authors describe an investigation of the effect of saturating liquids upon the propagation velocity of elastic longitudinal waves in samples of sedimentary rocks exposed to omnidirectional pressures up to 1500 kg/cm² and temperatures up to 150°C. Thile it is known that variations in the physical properties of minerals (caused by the saturating liquids) can be used for the detection of oil deposits, there is very little data available on the effect of these liquids on the physical parameters of sedimentary rocks. The experiments were based on measurements of the propagation velocity of ultrasonic vibrations through various samples of clay and sandstone under accurately controlled conditions of pressure and temperature, both in presence and in absence of saturating liquids (kerosene, naphta and 4 mol solution of KaCl). A spe-

Cord 1/2 UDC: 534.222 ; 539.09

L 31927-66

ACC NR: AP5017029

cial chamber was constructed, designed to withstand pressures up to 5000 kg/cm2 and temperatures up to 300°C. This chamber was equipped with a heating element, an oil pump to generate omnidirectional pressure on the sample, an ultrasonic transducer and receiver, as well as various temperature and pressure gages for measuring and controlling the internal environment. The authors measured the variations of sound propagation (at about 100 KHz) caused by changes in temperature and pressure in dry and liquid saturated rock samples. Dry samples of sandstone exhibited nonlinear change of propagation velocity with respect to omnidirectional pressure. The changes were much less pronounced for dry clay. In the liquid-saturated samples, the absolute velocity was higher (up to 500 m/sec) due to greater acoustical coupling area but the changes in velocity for sandstone were now similar to those in clay, which differed only slightly from the dry sample. The higher degree of velocity variation in dry sandstone can be attributed to more rapid closure of pores under ambient pressure than in clay. The increase in temperature causes reduction in propagation velocity in both dry and liquid saturated samples. The following conclusions are made based on the results of these experiments: 1. In dry samples, the changes in propagation velocity of longitudinal waves depend upon lithological composition and the nature of porceity. In clays, such changes are gradual and in sandstone there is an abrupt change at 500 kg/cm² with a subsequent decrease in the gradient. 2. The velocity changes with respect to pressure are similar in saturated clays and sandstone. 3. The influence of temperature on the velocity is stronger in rocks saturated with naphta, than in dry samples of those saturated with mineralized water. Orig. art. has: 7 figures. SUB CODE: 08.13/ SUBH DATE: 10Mar64/ ORIG REF: 003/

Card 2/2

BOL'SHAKOV, M.N.; KOLOSOV, I.S.; LUGOVOY, V.S.; MATVEYENKO, A.I.

Prospects of developing electric power in Kirghizistan in the near future. I.AN Kir. 3SR.Ser.est.i tekh.nauk 2 no.7:5-23 '60.

(Kirghizistan—Electric power)

(Kirghizistan—Electric power)

AUTHOR: Akopov, M. G. (Graduate student); Matveyenko, A. M. (Graduate student) ORG: None TITLE: Testing and calculating the reliability of hydropneumatic equipment SOUNCE: IVUZ. Mas.inostroyeniye, no. 7, 1966, 75-80 TOPIC TAGS: hydraulic equipment, pneumatic servomechanism, reliability engineering, probability ABSTRACT: Testing the reliability of the elements in hydropneumatic systems involves considerable difficulties due to the necessity of the latery number of specimens to obtain a high confidence coefficient for entire in a constitity of reliable operation with sufficient accuracy. The authors prepage a method for reducing the number of specimens required by increasing the length of the test. The method is based on testing a given number of specimens simultaneously under identical operating conditions. Specimens which fail are not put back into operation so that binomial law gives the number of specimens which bave broken down by a given moment. Formulas are derived for determining the lower confidence limits of the unknown reliability function with a limited number of specimens. It is shown that the proposed method may be used in the first approximation for determining the lower confidence limit of the	I, 10291-67 EWP(d)/EMP(c)/EMP(v)/EMP(k)/EMP(1) IJP(c) IJ - ACC MRI AP6031376 (A) SOURCE CODE: UR/01/15/66/000/007/0075/0080	
TITLE: Testing and calculating the reliability of hydropneumatic equipment SOURCE: IVUZ. Mas. inostroyeniye, no. 7, 1966, 75-80 TOPIC TAGS: hydraulic equipment, pneumatic servomechanism, reliability engineering, probability ABSTRACT: Testing the reliability of the elements in hydropneumatic systems involves considerable difficulties due to the necessity of the large number of specimens to obtain a high confidence coefficient for eather the remaining the operation with sufficient accuracy. The authors propose a method for recucing the number of specimens required by increasing the length of the test. The method is based on testing a given number of specimens simultaneously under identical operating conditions. Specimens which fail are not put back into operation so that binomial law gives the number of specimens which bave broken down by a given moment. Formulas are derived for determining the lower confidence limits of the unknown reliability function of the limited number of specimens. It is shown that the proposed method may be	MUTHOR: Akopov, M. G. (Graduate student); Matveyenko, A. M. (Graduate student)	
TOPIC TAGS: hydraulic equipment, pneumatic servomechanism, reliability engineering, probability ABSTRACT: Testing the reliability of the elements in hydrophechanic systems involves considerable difficulties due to the necessity of the large number of specimens to obtain a high confidence coefficient for entirely and remainity of meliable operation with sufficient accuracy. The authors propose a method for reducing the number of specimens required by increasing the length of the test. The method is based on testing a given number of specimens simultaneously under identical operating conditions. Specimens which fail are not put back into operation so that binomial law gives the number of specimens which bave broken down by a given moment. Formulas are derived for determining the lower confidence limits of the unknown reliability functions.	DRG: None	
ABSTRACT: Testing the reliability of the elements in hydropmethatic systems involves considerable difficulties due to the necessity of the large number of specimens to obtain a high confidence coefficient for estimate in propose a method for reducing the operation with sufficient accuracy. The authors propose a method for reducing the number of specimens required by increasing the length of the test. The method is based on testing a given number of specimens simultaneously under identical operating conditions. Specimens which fail are not put back into operation so that binomial law gives the number of specimens which back broken down by a given moment. Formulas are derived for determining the lower confidence limits of the unknown reliability functions. In this shown that the proposed method may be	PITLE: Testing and calculating the reliability of hydropneumatic equipment	
ABSTRACT: Testing the reliability of the elements in hydrogeneratic systems involves considerable difficulties due to the necessity of the a large number of specimens to obtain a high confidence coefficient for estimate an according to reducing the operation with sufficient accuracy. The authors propose a method for reducing the number of specimens required by increasing the length of the test. The method is based on testing a given number of specimens simultaneously under identical operating conditions. Specimens which fail are not put back into operation so that binomial law gives the number of specimens which back broken down by a given moment. Formulas are derived for determining the lower confidence limits of the unknown reliability functions.	SOURCE: IVUZ. Mas.inostroyeniye, no. 7, 1966, 75-80	
to obtain a high confidence coefficient for entire in a remaility of reliable operation with sufficient accuracy. The authors prepose a method for reducing the number of specimens required by increasing the length of the test. The method is based on testing a given number of specimens simultaneously under identical operating conditions. Specimens which fail are not put back into operation so that binomial law gives the number of specimens which bave broken down by a given moment. Formulas are derived for determining the lower confidence limits of the unknown reliability functions. It is shown that the proposed method may be	TOPIC TAGS: hydraulic equipment, pneumatic servomechanism, reliability engineering, probability	
	to obtain a high confidence coefficient for entire to the necessity of the large manual of reliable operation with sufficient accuracy. The authors propose a method for reducing the number of specimens required by increasing the length of the test. The method is based on testing a given number of specimens simultaneously under identical operating conditions. Specimens which fail are not put back into operation so that binomial law gives the number of specimens which bave broken down by a given moment. Formulas are derived for determining the lower confidence limits of the unknown reliability functions of the limited number of specimens. It is shown that the proposed method may be	
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ACC NR: AP6031376

probability of reliable operation for a minimum number of specimens. The test volume for reliability experiments is a constant given by the formula

$$\frac{tn}{T} = \lim_{n \to \infty} n(1 - \sqrt{1 - \alpha})$$

where t is the test duration, n is the number of specimens tested, α is a rather high confidence coefficient and T is the ratio of the guaranteed time resource to the reliability level. Tests on do ermining the lower confidence limit for the probability of reliable operation should not be carried out beyond n/2 failures (breakdown of half the units being tested) since there is a sharp drop in the probability of raising the resultant estimate after this time limit. Orig. art. has: 5 figures, 24 formulas.

SUB CODE: 13/ SUBM DATE: 09Mar66/ ORIG REF: 002/ OTH REF: 001

KOROVKIN, V.; , MATVEYENKO, A.

Moving Picture Projection

Proper utilisation of reels. Kinomekhanik no. 8, 1951.

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclas titled.

MATUEYENKO, A.

Amplifiers, Vacuum Tube

Replies to readers Kinomekhanik no. ?, Feb. 195?

. MONTHLY LIST OF RULSIAN ACCESSIONS. Library of Congress, August, 1952. UNGLASHFIEL.

- 1. MATVETENÇO, A.
- 2. USSR (600)

÷ ,4,

- 4. Heving-Picture Projection
- 7. Inspection and adjustment of the KZVT apparatus in the process of operation.

 Kinemekhanik. Ne.9, 1952

直到了好人的人 沙鞋 水的 流光电

9. Monthly List of Eussian Accessions, Library of Congress, January 1953, Unclassified.

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38077. MATVEYENKO, A. S. AND KHRUSHCHEV, A. A.

Massovyy tip usilitel'nogo ustroystva dlya zvukovogo kinc (USU-45).

Trudy nikfi (nauch.-issled. kinofoto in-t), vyp. 10, 1949, s. 138-60.

[Ropair of the sound-reproducing motion-picture apparatus] Remont synthesis of the sound-reproducing motion-picture apparatus] Remont synthesis of the sound-reproducing and synthesis of the sound-reproducing (Mina 6:7) (Sound-Recording and reproducing)

HATVETUTO A.E., YAKOBSON, A.Kh., redaktor; VORONTSOVA, Z.V., tekhnicheskiy redaktor.

[Repairing motion-picture sound apparatus] Remont svukovosproisvodiashchei kinoapparatury. Moskva, Gos. isd-vo "Iskusatvo." Pt. 2.
1954. 255 p. (NIRA 8:2)

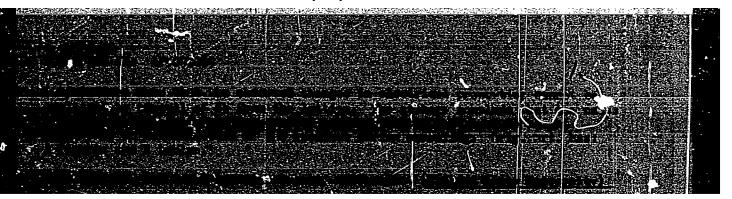
(Notion-picture projectors) (Sound-Apparatus)

PARPRET'YEV, A.I.; DEMIKHOVSKIY, L.A.; MATVEYEMEO, A.S.; TAGER, P.G., professor, redaktor; SOVETOV, S.S., Fedaktor; MATISSEE, Z.M., tekhnicheskiy redaktor

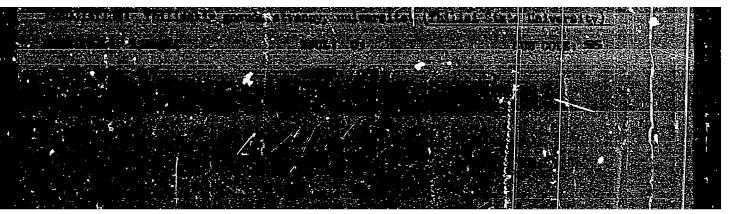
[Sound recording in the staging of theatricals] Zvukosapis' v oformienti spektaklia. Pod red. P.G.Tagora. Noskva, Gos. indevo "Iskustve." 1956. 142 p. (MIRA 9:7)

(Sound--Recording and reproducing)

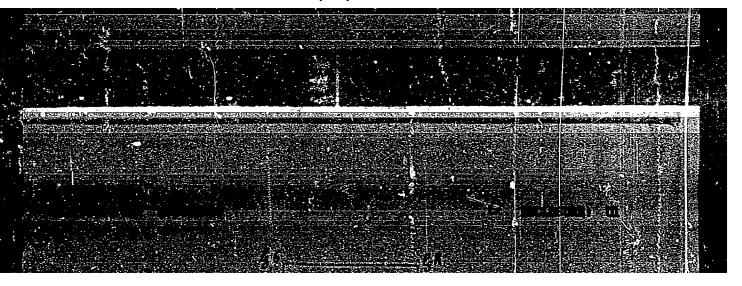
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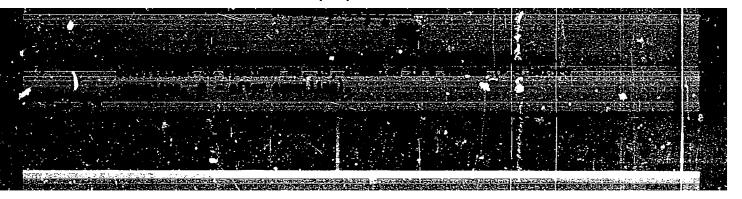


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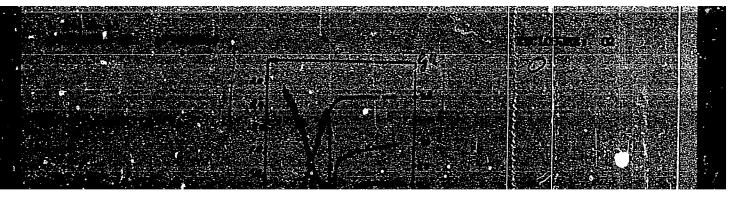


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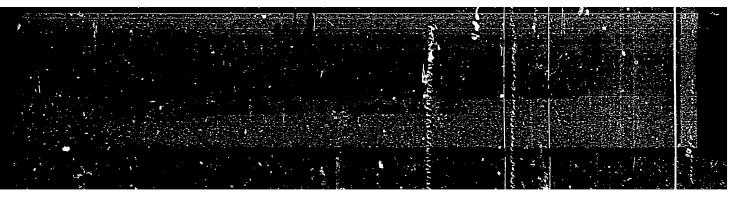




"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R032932920016-4







ACC NR. AP7003229

SOURCE CODE: UR/0056/66/051/006/1873/1879

AUTHOR: Alliluyev, S. P.; Matveyenko, A. V.

ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut)

TITLE: Symmetry group of the hydrogen molecular ion (a system with separable variable)

ables)

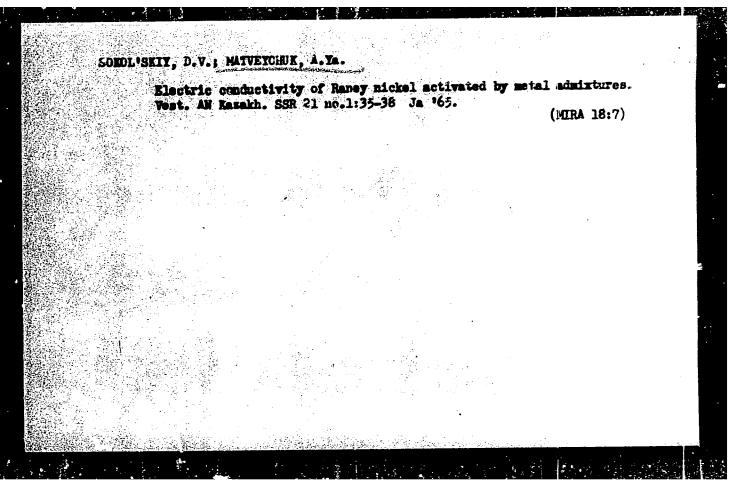
SOURCE: Zh eksper i teor fiz, v. 51, no. 6, 1966, 1873-1879

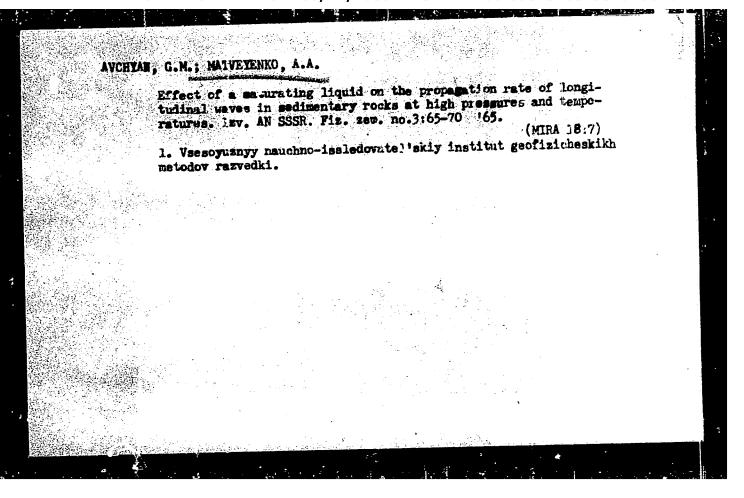
TOPIC TAGS: hydrogen ion, molecular structure, molecular property, group theory

ABSTRACT: The authors present another example of a physical system where the complete symmetry group does not reduce to purely geometrical transformations. Such a system is a molecular hydrogen ion or, in more general form, any system consisting of an electron moving in the field of two differently charged Coulomb centers. It is shown that such a system has a symmetry group which is higher than geometric, because it does not obey the Neumann-Wigner theorem, which forbids the crossing of terms having the same symmetry. It is shown that in the case of the hydrogen molecular ion the violation of the Neumann-Wigner theorem is only apparent and is related to the circumstance that the geometrical symmetry group does not exhaust the entire symmetry which the system possesses. The symmetry group so obtained has the form SO₂ \otimes SO₂ \otimes O₂, with the SO₂ groups cooresponding to the coordinates of the elliptical system in which the variables became separable. The obtained group turns out to be wider than

Card 1/2

Gershteyn	for interest in the	work. Or:	of the variables. g. art. has: 32 fe	rmulas.	Thank S. S.
SUB CODE:	20/ SURM DATE:	05m166/	ORIG REF: 005/	OTH REF:	003
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TSANAVA, H.Ye., ingh.; MATVETERO, D.D., slesar' masterskikh (stantelya Bendary).

Creative work of the Bendary track worker inventors. Put' 1 put. khoz.no.12:13-16 D'57. (MIRA 10:12)

1. Hachal'nik Bendarskoy distantsii puti Noldavskoy dorogi. (Bendary-Railroads-Maintenance and repair)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R032932920016-4"

STALL PROPERTY.

 \mathbf{G}

. USSN/Farm initials. Stall Horned Stock.

Abs Jour: Ref Zhur-Diol., No 20, 1958, 92611.

Author : Matveyenko, D.V.

Inst :

with : Fecundity and Fertility of Karakul Ewes Inseminated with

Domestic and Distant Sperm.

Onig rub: Sots. s. kh. Uzbekistana, 1957, No 9, 48-54.

.Dstract: Karekul breed ewes were artificially inscrinated

with spen, mixtures from bond jeneous sources. Consequently, only a cortain amount of diversity in the quality of the spen, was created in the penital tracts of the ewes, without my norve refler still hus in addition which is connected with the sexual act. This method of a socialation did not yield an

Card : 1/2

. MSSR/Farm Amirals. Small Horned Stock.

Abs Jour: Nef Thur-Libit., No 20, 1953, 9211.

increase in sheep fecundity or fertility. -- v.v.
Polovtsova.

Card : 2/2

MATVEYENKO, D. V.

Cand Agr Sci - (diss) "Problem of the heterosperm and supplementary insemination of sheep." Omsk, 1961. 16 pp; (Index of dissertations listed by author as defended at the Omsk Agricultural Inst imeni S. M. Kirov); 150 copies; price not given; list of author's works on p 16 (11 entries); (KL, 5-61 sup, 198)

MATVEYENKO, Drittry Vasil'yevich

beak for students of the Zootechnical, Game and Game Management Departments of the Irkutsk Institute of Agriculture] Elementarnye cancyy biometrii; uchebno-metodicheskoe posobie dlia studentov zootekhnicheskogo, zverovodcheskogo i okhotovedcheskogo fakulitetov Irkutskogo seliskokhoziaistvennogo instituta. Irkutsk, 1964. 44 p. (MIRA 18:7)

1. Irkutsk. Sel'skokhozysystvennyy institut.

TULASHVILI, N.D.; SAMUNDZHEVA, E.M.; RACHVELISHVILI, E.V.; ANTONOVA, V.P., dotsent; MALEZHIK, G.M.; SMIRNOV, B.M., doktor seleskokhoz.nauk; MATVEYENKO, G.A., aspirantka; BALANTAYEVA, M.R.; GARNAGA, G.K.

From the practices of the use of poisonous chemicals. Zashch.rast. ot vred. i bcl. 8 no.12:28-29 D 163. (MIRA 17:3)

l. Gruzinskiy institut zasnchity rasteniy (for Tulashvili, Samundzheva, Rachvelishvili). 2. Kishinevskiy sel'skokhozyaystvennyy institut (for Antonova). 3. Zaveduyushchiy otdelom zashchity rasteniy Sumskoy opytnoy stantsii (for Malezhik). 4. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Yugo-Vostoka (for Smirnov, Matveyenko). 5. Nauchno-issledovatel'skiy institut bogarnogo zemledeliya, Gallya-Aral (for Balantayeva, Garnaga).

MATVEYENKO, G.P.

Out tasks. Apt. delo 10 no. 2:3-9 Mr-Ap '61.

(MIRA 14:4)

l. Zamestitel' nachal'nika Glavnogo upravleniya meditsinskogo snabzheniya i sbyta Ministerstva zdravookhraneniya SSSR. (DRUGSTORES)

Pharmacy services under strict control. Apt. delo 11 no.2:3-7 Mr-Ap 16. 1. Glavnoye upravleniye meshrespublikanskogo meditsinskogo snabsheniya i sbyta Ministerstva zdravookhraneniya SSSR. (PHARMACI)

MATVEYENFO, G.P. (Moskva); VOIOCHIN, M.Ye.

Pharmacy in Bulgaria. Apt. delo 12 no.2:87-89) - Ap '63.

(MIRA 17:7)

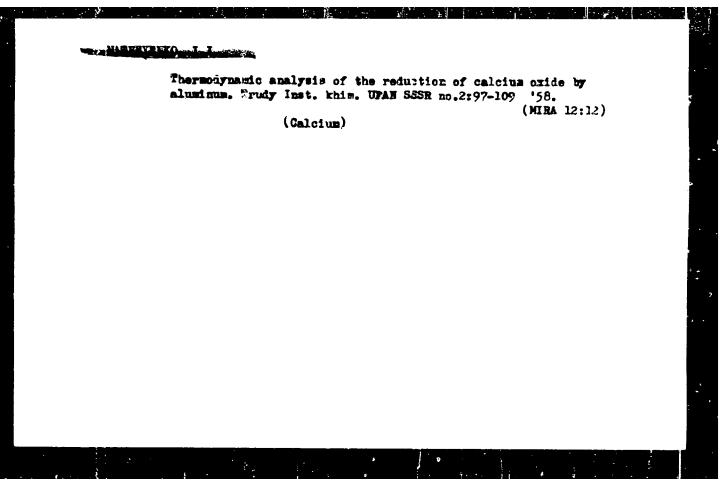
MATVEYENKO, G., assistent

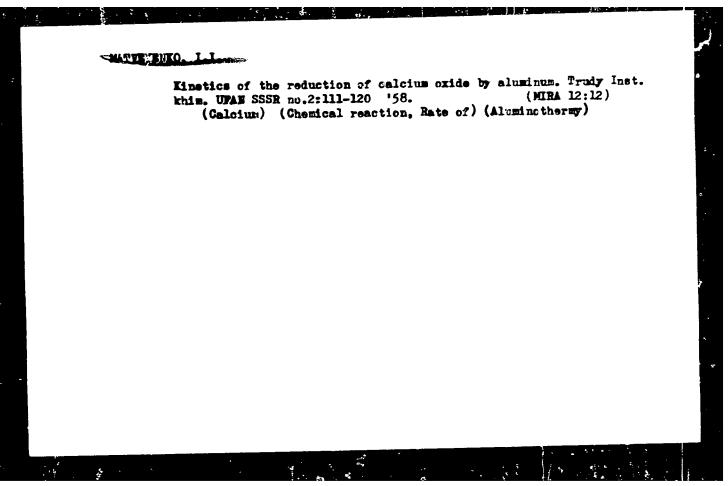
Linear programming. Grand. av. 21 no.9:21 S 164.

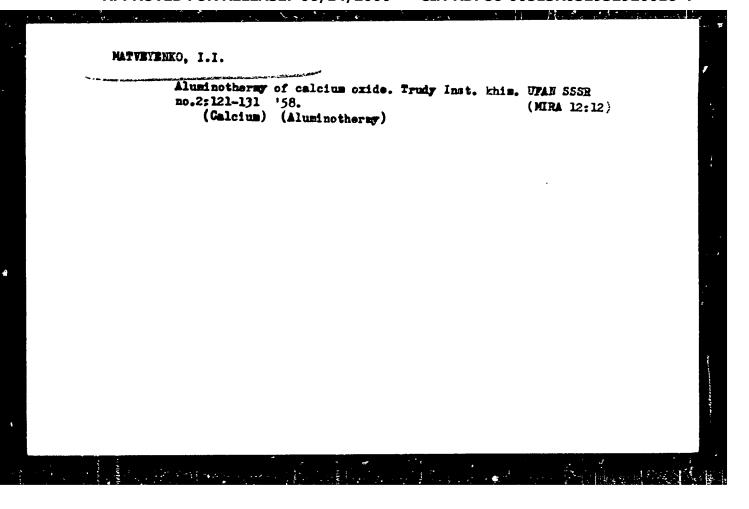
(MIRA 17:10)

1. Kafeira politicharkoy ekonomii i ekonomiki Grazh anskogo vozdushnogo flota Kiyevakogo instituta inzhenerov Grazhdanskogo vozdushnogo flota.

MATVEYENKO, I. I.: Master Tech Sci (dids) -- "Aluminum-thermal reduction of calcium oxide". Sverdlovek, 1958. 16 pp (Acad Sci USSR, Ural Affiliate), 150 copies (KL, No 4, 1959, 127)







Mechanism of the reduction of calcium oxide by aluminum.
Trudy Inst. khim. UPAE SSSR no.2:133-142 '58.

(Galcium) (Aluminothermy)

(Galcium) (Aluminothermy)

NATVEYENIO, I.I. Aluminothermic method for obtaining calcium from limestones of the Ust'-Anginskiy deposit. Trudy Vost.-Sib. fil. Am SSSR no.13:256-297 '58. 1.Ural'skiy filial Am SSSR. (Siberia, Mastern--Calcium)

MATVEYENKO !! GELYD, PV,
MATVEENKO, I.I.; GELYD, P.V.; ALYAMOVSKIY, S.I.

Kinetika vorstanovleniya pyatiokisi vanadiya vodorodom.

report submitted for the 5th Physical Chemical Conference on Steel Production.

NIOSCOW 30 JUN 1959

MATTERENO, 1.I., insh.; GEL'D, P.V., prof.; ALYAMOVSKIY, S.I., insh.

Reduction kinstics of vanadium pentoxide by hydrogen.

1sv. vys. ucheb. zav.; cherr. met. 2 no.4:13-21 Ap '59.

(MIRA 12:3)

1.Ural'skiy politekhnicheskiy institut i Ural'skiy filial Akademii nauk SSSR.

(Vanadium-Metallurgy) (Oxidation-reduction reaction)

86487

S/078/60/005/008/020,'031/XX B023/B066

5.1190 AUTHORS: 2203,1208 1274

Gel'd, P. V., Alyamovskiy, S. I., Matveyenko, I. I.

TITLE:

Intermediates of V205 Reduction With Hydrogen

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

pp. 1678-1687

TEXT: The authors deal with the question how the transformation process of V205 to V203 proceeds, which intermediate phases are formed therein, how large their quantity is, and in how far the conversion of some higher how large their quantity is, and in how far the conversion of some higher oxides to lower ones is complicated. In the first experimental series, the composition of the samples was investigated. Fragments of V205 brighettes

The second series was carried out with preparations of different degrees of reduction. In the third series, samples were investigated which had been prepared in layers and partially reduced with H₂. The X-ray structural analysis of the products of a partial reduction of V₂O₅ with hydrogen was

Card 1/3

Intermediates of V₂0₅ Reduction With Hydrogen S/078/60/005/008/020/031/XX B023/B066

made in PKA(RKD) or BPC (VRS) cameras by means of caromium radiation. When investigating the intermediate products of the reduction of vanadium pentoxide by hydrogen, which had been obtained at 200-1200°C, the authors detected V₆0₁₃, V₂0₄, and V₂0₃, while V0_{1.75}, V0_{1.80}, V0_{1.84}, and V0_{1.86} could not be found. Though phases of VC1.67 and VC1.87 were present, they could not be clearly identified, since they occur only in minute quantities By the reduction of V205 with hydrogen, monophase oxide preparations as intermediates of V205 and V203 could not be obtained. The theorem of A. A. Baykov (Ref. 9) on the sequence of conversions applies to relatively slow interactions proceeding in systems of different composition and different structure. If the process occurs rapidly in systems containing phases of similar composition and structure, some of these phase components are possibly not formed. Table 2 shows the phase composition of products of a partial reduction of V205 by hydrogen. Table 3 illustrates the phase composition of products of vanadium pentoxide with hydrogen. Mention is made of papers by V. I. Arkharov, B. S. Borisov, T. V. Dolgal; Ref. 32),

Card 2/3

86487

G. A. Meyerson and A. N. Zeliaman (Ref. 51), M. A. Gurevich and B.T. Ormont (Ref. 29). There are 1 figure, 4 tables, and 54 references: 25 Soviet, 10 US, 2 British, 7 Danish, 3 French, 5 German, 1 Japanese, 1 Swedish, and 1 Swiss.

SUBMITTED: March 5, 1959

Card 3/3

63037

5.2100(A)

S/126/60/009/02/032/033

Gel'd, P.V., Alyamovskiy, S.I. and Matveyenko, I.J.

TITLE:

The Structural Characteristics of Vanadium Oxide

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol 9, Nr 2,

pp 315 - 317 (USSR)

ABSTRACT:

Investigations were carried out on samples of varying composition $(V0_{0.75}$ to $V0_{1.74})$, prepared by vacuum

sintering of briquettes of metallic vanadium and vanadium trioxide. The samples were heated at 1 400 °C for 60 to 76 hours. X-ray analysis was carried out and the results are given in the table. Samples VO_{0.73}

VO_{1.3} were two-phased. A relation between the lattice parameter and composition was observed only in 'he interval

VC_{0.85} to VO_{1.25}. Special interest is caused by the

possible existence of a & phase. This would be expected to have an NaCl structure. From experimental and theoretical densities, it is shown that the concentration

of vacancies in the region of homogeneous canadium oxide

Card1/2

S/126/60/009/02/032/033

The Structural Characteristics of Vanadium Oxide

was 12 to 22% in the vanadium sub-lattice. The concentration relation of the thermal emf shows a change of sign at the composition corresponding to stoichiometric VO, as would be expected. There are 1 table and 3 references, 3 of which are Soviet and 1 English.

ASSOCIATION: Institut khimi UFAN SSSR (Institute of Chemistry. UFAN SSSR)

Ural'skiy politekhnicheskiy institut im. S.M. Kirova (Ural Polytechnical Institute imeni S.M. Kirov)

SUBMITTED: December 26, 1959

Card 2/2

MATVEYENKO, I.I.; GEL'D, P.V.; ALYAMOVSKIY, S.I.

Kinetics of the reduction of vanadium pentoxide and tetroxide by carbon. Izv. Sib. otd. AN SSSR no. 11:77-88 '60. (MIRA 14:1)

1. Ural'skly filial AN SSSR.

(Vanadium oxides) (Carbon)

(Reduction, Chemical)

ALYAMOVSKIY, S.I.; GEL'D, P.V.; MATVETENKO, I.I.

Phase constituents of the system Mb - Si. Trudy Ural.politekh.
(MIRA 16:6)
(Riodium silicide)
(Phase rule and equilibrium)

8/137/62/000/004/002/201 A006/A101

AUTHORS:

Gel'd, P. V., Alyamovskiy, S. I., Matveyenko, I. I.

TITLE:

Determining the application range of the principle of consecutive

trensformations, set up by Academician A. A. Baykov

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 6 - 7, abstract 4A26 (V sb. "Fiz-khim. osnovy proiz-va stali", Moscow, AN SSSR,

1961, 157 - 167)

TEXT: The substances employed were prepared from two V₂O₅ batches containing about 0.0007% heavy metal oxides and <0.1% SiO2. A thorough investigation of intermediate products of V_2O_5 reduction with hydrogen, obtained at 200 - 1,200°C, revealed the presence of V_6O_{13} , V_2O_4 and V_2O_3 . In none of the samples whose reduction degree varied from 0 to 38.6%, the presence of $V_{01.75}$, $V_{01.80}$, VO1.84 and VO1.86 was revealed. Phases VO1.67(or VO1.87) are present, if any, in small amounts so that they cannot be reliably identified. It was established that by V₂O₅ reduction with hydrogen, single-phase oxide preparations with compositions ranges between V_2O_5 and V_2O_3 can not be obtained. The authors state that

Card 1/2

Determining the application range of ...

S/137/62/000/004/002/201 A006/A101

A. A. Baykov's principle on consecutive transformation is applicable to the case of relatively slow processes with relatively slow interactions, occurring in systems which are characterized by substantial differences in the composition and structure of intermediate phases. At a rapid development of the process in systems containing phase constitutents of close compositions and structures, some of them can not be formed. There are 54 references.

T.Kolesnikova

[Abstracter's note: Complete translation]

Card 2/2

GEL'D, P.V.; ALYAMOVSKIY, S.I.; MATVEYENKO, I.I.

And 5- phases of the vanadium - oxygen system. Zhur.strukt.-khim. 2 no.3:301-307 Hy-Je °61. (MIRA 15:1)

1. Institut khimii Ural'skogo filiala AN SSSR, Sverdlovsk. (Vanadium oxide)

15.2240

5/192/61/002/004/002/004

D217/D306

AUTHORS:

Alyamovskiy, S.I., Gel'd, P.V. and Matveyenko,

1.1.

TITLE:

Cubic vanadium carbide phases

PERIODICAL:

Zhurnal strukturnoy khimii, v. 2, no. 4, 1961,

445 - 448

TEXT: The object of this investigation was to verify the results of work by earlier authors (Ref. 1: M.A. Gurevich, B.S. Ormont, Ah. neorgan. khimii, 2, 1566, 2581, 1957; 3, 403, 1958) and (Ref. 2: N. Schönberg, Acta Chem. Scand., 8, 624, 1954) and to obtain more precise information. Carbide specimens of various compositions were synthesized by sintering briquetted powder mixtures of vanadium hydride and spectroscopically pure graphite in a high frequency induction vacuum furnace at 1600 - 1750°. The vanadium hydride was prepared by reducing vanadium oxide with carbon or calcium. The powder was hydrated for 2

Card 1/4

\$/192/61/002/004/002/004 D217/D306

Cubic vanadium ...

hours at a hydrogen pressure of 1 atm., at 850°. The lattice parameter of the original metal was 3.020 kX, which indicated a low oxygen content (< 0.04 at.%); this was also confirmed by the high strength of the material. Sintering of the carbides was carried out for 40 - 70 hours with 2 - 3 intermediate re-briquetting operations. The compounds were cooled in the furnace for approximately 30 minutes. X-ray control was carried out after each operation. The attainment of equilibrium in the system was judged by the constancy of the lattice parameters and by the sharpness of the lines obtained in the X-ray pictures. The X-ray investigation was carried out in a Cr Ka irradiation in a Debye Camera of 143.3 mm diameter. The experimental error in the determination of lattice periods did not exceed 0.001 kX. The density of the compounds was measured in vacuum by the picnometric method, using kerosene and decalin as the liquid reagents. The errors in the density determinations were approximately 0.7%. The analysis of the carbides for vanadium content was carried out by a volumetric method, and the total and free

Card 2/4

S/192/61/002/004/002/004 **D**217/J306

Cubic vanadium ...

carbon were determined gravimetrically. The accuracy of the determination of x in the formula VC_x was approximately 0.02. The oxygen content of the specimens was less than the corresponding oxi-carbide VC_x = 00.02. All logether 17 specimens, containing between 10.93 and 25.73 weight % carbon (VC_{0.52} - VC_{1.47}) were synthesized. The results of the X-ray investigation are shown. In the neighborhood of the compositions VC_{0.79} - 0.80 a drastic change in the lattice parameter (approximately by 0.013 kX) occurs. From this it can be deduced that one cubic vanadium phase (6) is stable in the range VC_{0.63} - VC_{0.79}, and another (6) is stable in the range VC_{0.63} - VC_{0.79}, and another (6) is stable in the range Co_{0.79} - VC_{0.92}. It was found that cubic vanadium carbides are characterized by defects in the carbon sub-lattice. It is also assumed that the high carbon phases as well as the vanadium sub-lattice are very slightly defective. There are 1 figure, 2 tables and 11 lefterences: 5 Soviet-bloc and 6 non-Soviet-bloc. The reference to the English-language publication reads as follows: A.K. Ubbelohde, Proc. Roy. Soc., B826, 295 (1937).

Card 3/4

· 新、野、木、田、山、木、田、安川山、田安寺(大田) (18)

\$/192/61/002/004/002/004 D217/D306

Cubic vanadium ...

Institute khimii ural'skogo filiala AN SSSR, Sverdlovsk (Insitute of Chemistry of the Ural Branch, AS USSR, Sverdlovsk) ASSOCIATION:

August 2, 1960 SUBMITTED:

Card 4/4

S/137/61/000/011/071/123 A060/A101

15 2240

Alyamovskiy, S.I., Gel'd, P.V., Matveyerko, I.I.

TITLE:

AUTHORS:

On the phase components of the NbSi system

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 24, abstract 11Zh146 ("Tr. Ural'skogo politekhn. in-ta", 1961, coll. 114, 149-151)

TEXT: Alloys of silicides of niobium were prepared by sintering briquetted mixtures of powdered Nb (99.6%) and Si (99.98%) in a vacuum furnace at 1,200-1,600°C and were studied by the methods of microscopic and X-ray structure analyses. The phases of the silicides have marked regions of homogeneity: for $\infty = \text{Nb}_5 \text{Si}_3$ - from NbSi_0.58 to NbSi_0.56; for NbSi_2 - from NbSi_1.85 to NbSi_2. Here the lattice parameters ∞ of NbSi_3 and NbSi_3 remain practically constant. In the Nb-Si system there exist solid substitution solutions both for NbSi_2 and $\infty = \text{Nb}_5 \text{Si}_3$. At 1,000-1,100°C, while annealing alloys containing Nb4Si, there occurs a decomposition Nb4Si — Nb5Si_3. There are 8 references.

Z. Rogashevskaya

[Abstracter's note: Complete translation]

Card 1/1

s/200/62/000/005/003/005 1003/1242

AUTHORS:

Gel'd, P.V., Matveyenko, I.I., and Alyamovskiy, S.I.

TITLE:

Intermediate products in the process of reduction

of vanadium oxides by carbon

PERIODICAL:

Akademiya nauk SSSR. Sibirskoye otdeleniye.

Izvestiya, no.5, 1962, 59-69

TEXT: The kinetics of the reduction of vanadium oxides by carbon have received little attention. Highly pure vanadium has good mechanical and corrosion resistance properties and there are good prospects for the industrial application of vanadium carbides and oxycarbides. The kinetics of the reduction of V₂C₃ was investigated between 1100 and 1600°C. The reduction is not

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8/200/62/000/005/003/005 1003/1242

Intermediate products in the process of ...

a single reaction because, while its initial stage depends on the rate of gasification of carbon, on the absorption or chemical processes and on crystallographic changes taking place in the reduced oxides, the final stage depends on the velocity of diffusion of atoms of O,C, and V through the lattices of oxides and particularly oxycarbides. The first, product consists of an intermediate oxycarbide f - phase which can be transformed either into an £ - phase or into an intermediate &-phase, depending on the composition of the charge, on the nature of the reducing agent, and on the temperature. The reduction of higher oxides V205 and V02 by carbon below 800°C leads to the formation of the V6013-, V02-, V305-, and V203- phases. No intermediate VO1.87, VO1.86, VO1.84, VO1.80 and VO1.75 phases have been found. There is I figure and 4 tables. Card 2/3

11.

S/200/62/000/005/003/005 1003/1242

Intermediate products in the process of ...

ASSOCIATION: Ural'skii filial AN SSSR, Sverdlovsk (The Ural

branch of the AS USSR, Sverdlovsk)

SUBMITTED: June 24, 1961

1/3

S/078/62/007/004/007/016 B110/B101

15.2240

AUTHORS:

Alyamovskiy, S. I., Gel'd, P. V., Matveyenko, I. I.

TITLE:

Concentration ranges of the stability of niobium silicides at

1250°C

PERIODICAL:

Zhurnal neorganicheskcy khimii, v. 7, no. 4, 1962, 836-843

TEXT: The alloys of the Nb-Si system were investigated. Sodium thermic niobium (99.7% Nb) and purified Si (99.98% Si) (size of particles ~ 90µ) was briquetted at 6-7 ton/cm². High volatilization of Si and concentration of Nb was observed during the silicide synthesis in the vacuum furnace at 1300-1500°C. The briquetted charge was therefore degassed at 800°C in a vacuum furnace and subsequently sintered for J-4 hrs at 1150°C under spectroscopically pure He. The product was ground, briquetted, and further sintered in a scaled, evacuated quartz ampulla for ~5 hrs at 1250°C. It was then cooled in the furnace during 10 min to 200°C. 27 samples between NbSi and NbSi 2.30° as well as NbSi 3°C and NbSi 3°C were studied under the metallographic MMM-7 (MIM-7) or MMM-8M (MIM-8M) microscope and by X-ray diffraction. In samples with < 14% Si, (1) the solid solution of Si Card 1/3

Concentration ranges of the ...

S/078/62/00?/004/007/016 B110/B101

in Nb and (2) α-Nb₅Si₃ were ascertained. No No₄Si was found. The lattice constants of the phase components from NbSi_{0.15} to NbSi_{0.55} were identical. The alloys with the stoichiometric composition of Nb₅Si₃ and NbSi₂ were monophase. NbSi₂ was hexagonal (a = 4.785 kX, c = 6.58 kX), α-Nb₅Si₃ was tetragonal (a = 11.84 kX, c = 6.54 kX). NbSi_{0.50}-NbSi_{0.80} the alloys NbSi_{0.50} and NbSi_{0.55} were found to con in two phases: (1) α-Nb₅Si₃ and (2) slightly solid solution of Si in Nb. NbSi_{0.60}, NbSi_{0.62}, NbSi_{0.64} and NbSi_{0.66} are monophase. The identity periods of all lattices practically coincide. By adding ~2% carbon black or NbO (related to ~3% O₂) to Nb-Si mixtures γ-Nb₅Si₃ and the phase component Nb-Si-C(0) were obtained. The latter points toward isomorphous behavior of C and O on interaction with α-Nb₅Si₃. In the range NbSi_{1.70}-NbSi_{2.30} a diphase state consisting of α-Nb₅Si₃ and NbSi₂ was detected for NbSi_{1.70} and NbSi_{1.60}; the following

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Concentration ranges of the ...

S/078/62/007/004/007/016 B110/B101

were monophase (NbSi₂): NbSi_{1.87}, NbSi_{1.90}, NbSi_{2.00} and NbSi_{2.10}. For NbSi_{2.20}, NbSi_{2.28}, NbSi_{2.29} and NbSi_{2.30} were found: NbSi₂ and Si. The density drops with increasing Si content. The thermo emf and the identity periods of the lattices of samples in the homogeneity range of α-Nb₅Si₃ and NbSi₂ herdly change with the composition. NbSi₂ has p-type, α-Nb₅Si₃ has n-type conductivity. It is supposed that the net found Nb₄Si is only stable above 1500-1600°C. The proportional change of the alloy densities with the composition and the unimportant sensitivity of the interplane distances to the composition best explained with the formation of solid solutions by substitution, supposing approximately equal dimensions of the most important English-language reference is: H. J. Goldschmidt, J. Iron and Steel Inst., 194, 169 (1960).

SUBMITTED:

June 1, 1961

Card 3/3

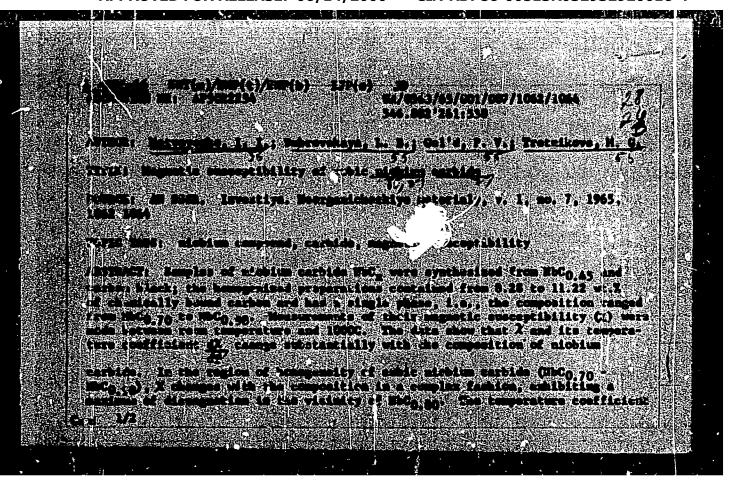
GEL L, P.V.; MA TVEYENKO, I.I.; ALYAMOVSKIY, S.I.

Intermediate products in the reduction of vanadium oxides by carbon. Izv. Sib. otd. AN SSSR no.5:59-69 *62.

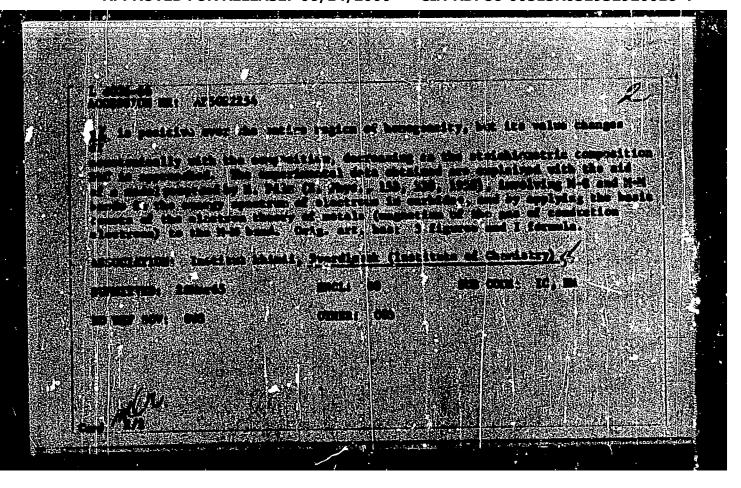
(MIRA 18.2)

1. Ural skiy filial AN SSSR, Sverdlovsk.

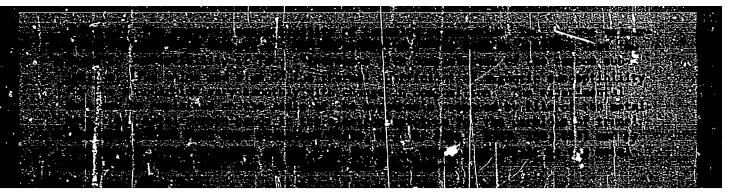
The second secon EWT(1)/EWT(m)/EWP(t)/ETI L 32994-66 SOURCE CODE: UR/CO53/65/000/011/E074/EC74 ACC NR. AR6016235 AUTHORS: Dubrovskava, L. B.; Matveyenko, I. I.; Klimov, R. A. 绍 TITUE: Apparatus for the measurement of the magnetic susceptibility of weakly magnet 9111 ic nubstances ... 4 SOURCE: Ref. zh. Fisika, Abs. 118588 REF SOURCE: Tr. Ural'skogo politekhn. in-ta, sb. 144, 1964, 62-66 TOPIC TAGS: magnetic susceptibility, measuring apparatus, magnetic metal ABSTRACT: Apparatus is described for themeasurement of the magnetic susceptibility of weakly-magnetic substances; the apparatus is based on a pendulum balance of nodified construction. A procedure for using the apparatus is described and a formula is given for determining the magnetic susceptibility of substances; the causes of possible measurement errors are given. A. Hikonov. [Translation of abstract] SUR CODE: 20. Cerc 1/1 pla)

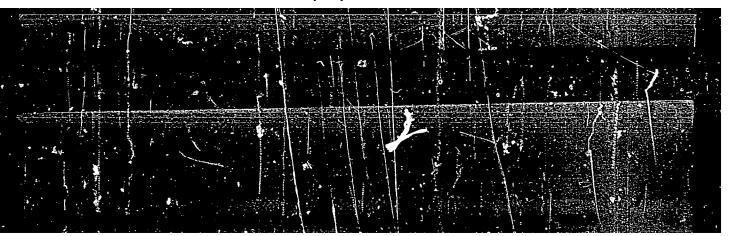


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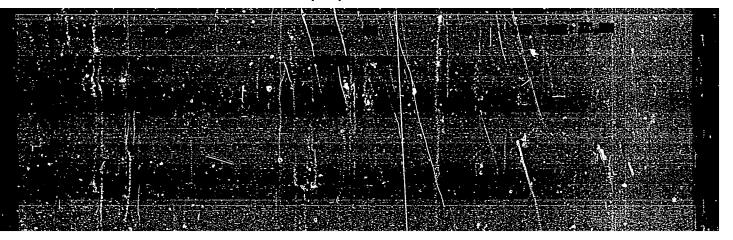


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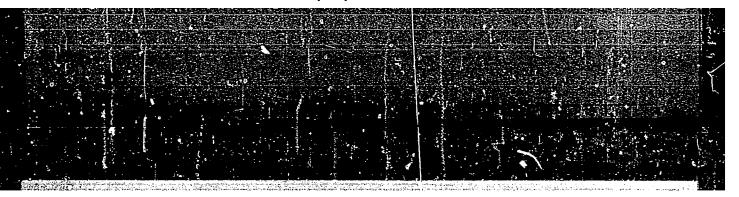




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TITIES illectric conductivity of tantalum carbides

SOURCE: AN SSSR. Ural'skiy filial. Institut khimii. Trudy, no. 9, 1966. Fiziko-khimicheskiy:issledovaniya soyedineniy redkikh tugoplavkikh elementov (Ti, V, No, Te), eh. 1: Twerdefaznyye protessy (Physicochemical analysis of compounds of rare refractory elements (Ti, V, No, Te), pt. 1: Solid-phase processes), 17-21

TOPIC TAGS: tantalum compound, carbide, resistivity

ABSTRACT: The electric resistivity of carbide phases of tantalum was measured over a wide range of compositions (TaC_{0.21}-TaC_{0.98}) and temperatures (80-1500 °K) on samples prepared by sintering in a vacuum at 2200 °C at 5 x 10 °5 mm, cocling rapidly to room temperature, and annealing. On the basis of the data obtained, resistivity room temperature, and polytherms for 15 carbides of various compositions were isotherms (see Fig. 1) and polytherms for 15 carbides of various compositions were plotted. It is apparent that the electric conductivity of the phase components of the tantalum-carbon system depends substantially on their composition (the carbon content being a major factor) and temperature. The data indicate that the carbide phases of tantalum have a metal-type conduction in the investigated range of compositions and temperatures. The absolute value of the resistivity strongly depends on

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