S/070/61/006/001/005/011
E032/E314

A Study of the Crystalline Structure .....

Ba 1 : (a) 000
Bi_I 1 : (c) 1/2 1/2 0
Bi_{II} 2 : (e) 1/2 0 1/2; 0 1/2 1/2 .

It is concluded that $SrBi_3$ and $BaBi_3$ belong to the Cu_3Au and $SrPb_3$ structural types, respectively. The minimum interatomic distances in $SrBi_3$ and $BaBi_3$ are given in the following table

Compound	Interatomic Distance, Å		
	Bi - Bi	Bi - Me	Me - Me
$SrBi_3$	3.56	3.56	5.04
$BaBi_3$	3.66	3.66	5.19

S/070/61/006/001/005/011
E032/E314

A Study of the Crystalline Structure .....

The structure of $BaBi_3$ is similar to that of $SrBi_3$ and differs from the latter by a small compression along the four-fold axis. The minimum interatomic distances agree with the correlation obtained by Zhuravlev (Ref. 3) between the transition temperature of superconductors and the minimum interatomic distances. There are 2 figures, 1 table and 6 references: 4 Soviet and 2 non-Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University im. M.V. Lomonosov)

SUBMITTED: February 8, 1960 (initially)
October 10, 1960 (after revision)

Card 4/4

KUZ'MIN, R.N.; ZHURAVLEV, N.N.

Problem of achieving greater accuracy in the constitution diagram for the system Bi- Rh. Kristallografiia 6 no.2:269-271 Mr-Ap '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Bismuth-rhodium alloys) (Radiography)

15 2240

26650
S/070/61/006/005/008/011
E032/E114

AUTHORS: Zhuravlev, N.N., Stepanova, A.A., Paderno, Yu.B., and Samsonov, G.V.

TITLE: X-ray measurements of the thermal expansion coefficients of hexaborides

PERIODICAL: Kristallografiya, 1961, Vol.6, No.5, pp.791-794

TEXT: The present authors have measured the thermal expansion coefficients in the temperature range 20-800 °C using the Unicam X-ray camera (diameter 190 mm, copper radiation). The specimens were prepared by reduction of the oxides of the corresponding elements by boron. Table 1 gives the thermal expansion coefficient α obtained from measurements on powder X-ray diffraction patterns. In all cases the error in α is between 0.3×10^{-6} and 0.5×10^{-6} deg^{-1} except for the hexaborides of neodymium and terbium, where the error is 10^{-6} deg^{-1}. The table also gives the values of the lattice constant a at room temperature (20 °C) determined with the precision camera РКУ-114 (RKU-114). Using the data on the thermal expansion coefficients, the authors have calculated the

Card 1/4

26650

X-ray measurements of the thermal S/070/61/006/005/008/011
E032/E114

characteristic temperature Θ, the root mean square amplitude of the thermal vibrations of the complexes, and the melting temperature. Numerical results are reproduced.
The figure shows the lattice constant a of the hexaborides as a function of the atomic radii of the metals. The lattice constant a tends to increase with the atomic radius.
There are 1 figure, 2 tables and 25 references: 20 Soviet and 5 non-Soviet. The English language references read as follows:
Ref.15: E. Felten, J. Binder, B. Post. J. Amer. Chem. Soc., V.80, 3479, 1958.
Ref.17: C.F. Cline, Nature, V.181, 476, 1958.
Ref.21: H. Eick, P. Gilles. J. Amer. Chem. Soc., V.81, 5030.1959.
ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University im. M.V.Lomonosov)
Institut metallokeramiki i spetsial'nykh splavov AN USSR (Institute of Cermets and Special Alloys, AS Ukr.SSR)

SUBMITTED: March 10, 1961.

Card 2/4

S/070/62/007/002/017/022
E132/E160

AUTHORS: Zhuravlev, N.N., and Stepanova, A.A.

TITLE: X-ray diffraction studies of the superconducting alloys of bismuth and platinum in the temperature range 20 to 640 °C

PERIODICAL: Kristallografiya, v.7, no.2, 1962, 310-311

TEXT: Powder photographs were taken of specimens of PtBi and $PtBi_2$ in a Unicam high-temperature camera between 20 and 600 °C. It was found that PtBi keeps the NiAs structure up to 600 °C; that PtBi loses Bi above 300 °C by evaporation; and that there are three modifications of $PtBi_2$. The coefficients of mean thermal expansion are:
Pt (300-500 °C) 8.6 ± 1 ($\times 10^{-6}$);
PtBi (20-600 °C) $\alpha_{\parallel} = 1.9 \pm 0.2$ ($\times 10^{-6}$), $\alpha_{\perp} = 16.4 \pm 2$ ($\times 10^{-6}$);
α-$PtBi_2$ (20-400 °C) 1.25 ± 0.1 ($\times 10^{-6}$);
Bi (20-92 °C) 15.4 ± 1 and 12.8 ± 1 ($\times 10^{-6}$).

Card 1/2

X-ray diffraction studies of ... S/070/62/007/002/017/022
E132/E160

There are 1 figure and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

SUBMITTED: May 24, 1961

Card 2/2

ZHURAVLEV, N.N.; SMIRNOVA, Ye.M.

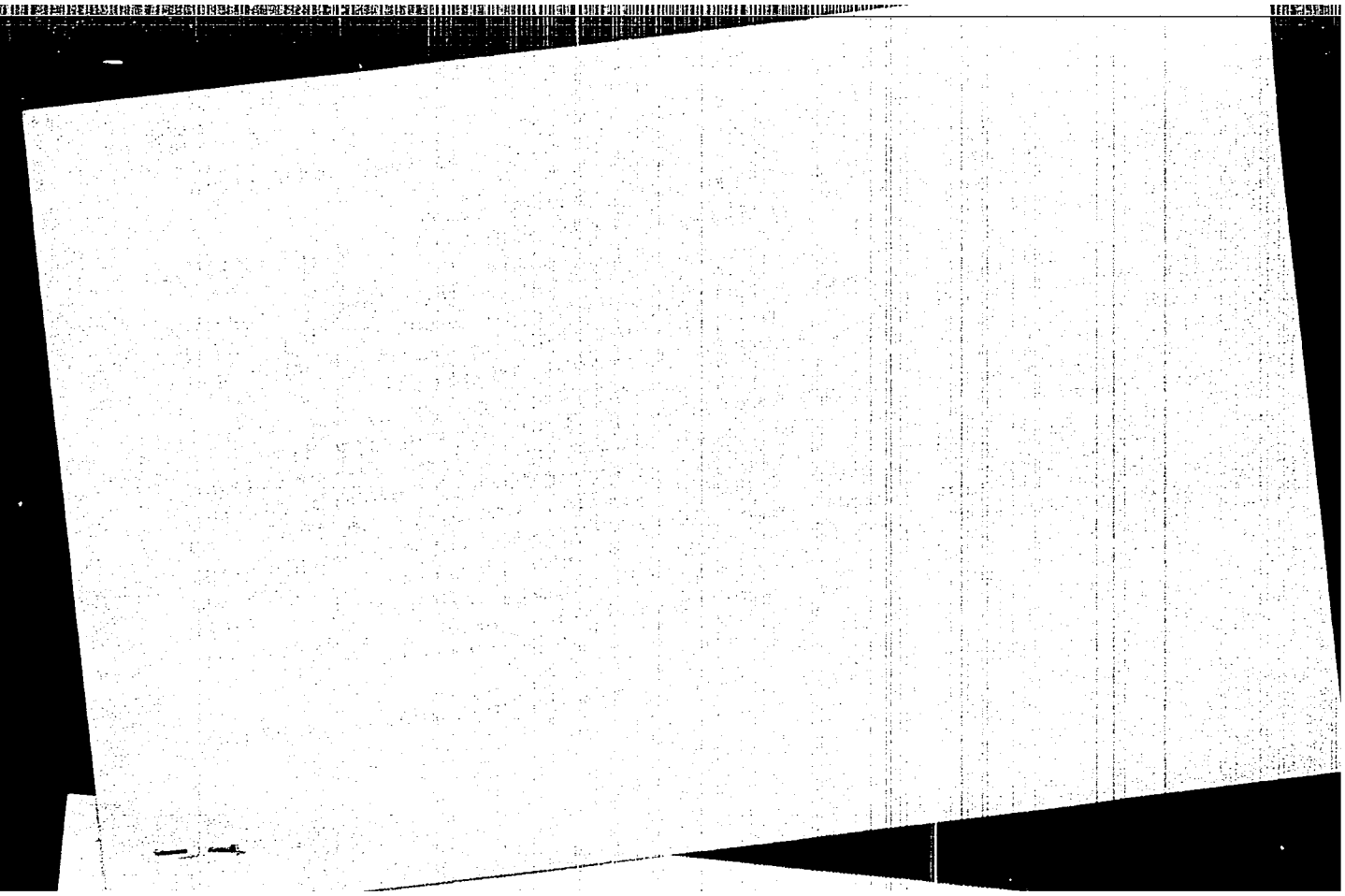
Study of bismuth-antimony-scandium alloys. Kristallografiia 7 no.2:312-313 Mr-Ap '62. (MIRA 15:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Bismuth-antimony-scandium alloys)
(X-ray crystallography)

ZHURAVLEV, N.N.; SMIRNOVA, Ye.M.

X-ray diffraction determination of the structure of YBi and YSb.
Kristallografiia 7 no.5:787-788 S-O '62. (MIRA 15:12)

1. Moskovskiy gosudarstvennyy yniversitet imeni Lomonosova.
(Yttrium-bismuth-antimony alloys) (X-ray crystallography)



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020011-4"

S/089/62/013/002/009/011
B102/B104

AUTHORS: Zhuravlev, N. N., Stepanova, A. A.

TITLE: X-ray determination of thermal expansion coefficients of manganese and cobalt monosilicides

PERIODICAL: Atomnaya energiya, v. 13, no. 2, 1962, 183-184

TEXT: The thermal expansion coefficients of MnSi (lattice constant a = 4.558 ± 0.001 Å at room temperature) and of CoSi (4.447 ± 0.001 Å) were determined in the range 20-800°C. The X-ray measurements were made using iron radiation and gave $16.3 \cdot 10^{-6}$ deg^{-1} for MnSi, $11.3 \cdot 10^{-6}$ deg^{-1} for CoSi, within an error of $1.0 \cdot 10^{-6}$. The measurements of a at 20, 500, 600, 700 and 800°C fitted the a(T) straight line. There is 1 figure.

SUBMITTED: November 16, 1961

Card 1/1

37699

S/126/62/013/004/007/022
E193/E383

IP 1280

AUTHORS: Zhuravlev, N.N., Zhdanov, G.S. and Smirnova, Ye.M.

TITLE: Investigation of platinum-bismuth alloys in the 10 to 50 at.% platinum-concentration range

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no. 4, 1962, 536 - 545 + 1 plate

TEXT: The object of the present investigation was to obtain more precise data on the cause of instability of PtBi and $PtBi_2$ alloys at low and ultralow temperatures. To this end the constitution of Pt-Bi alloys containing 10 - 50 at.% Pt was studied by hardness measurements and by thermal, metallographic and X-ray diffraction analysis. The results of thermal analysis are reproduced in Fig. 1, showing the constitution diagram of of the Pt-Bi system, the circles and crosses representing, respectively, data obtained in the course of the present and earlier investigations (Ref. 4 - N.N. Zhuravlev and L. Kertes - ZhETF, 1957, 32, 1313). Other results can be summarized as follows.

1) As a result of a peritectic reaction at 685 °C a γ-phase

Card 1/4. 3

Investigation of ....

is formed in alloys containing between 35 and 50 at.% Pt; this phase undergoes a eutectoid transformation at about 570 °C, decomposing to yield PtBi and $PtBi_2$.

2) PtBi has the nickel arsenide structure with lattice parameters a = 4.315 and c = 5.490 kX .

3) The superconductive properties of cast Pt-Bi alloys of a composition near to PtBi are associated with the presence of the γ-phase.

4) There are three allotropic modifications of $PtBi_2$: α-$PtBi_2$ with a cubic structure (a = 6.683 kX); β-$PtBi_2$ crystallizing in trigonal singony (a = 6.59, c = 6.17 kX); γ = $PtBi_2$ with a complex structure. The differences observed in the behaviour of $PtBi_2$ at ultralow temperatures must be attributed to the existence of these three modifications, those stable at high temperatures being responsible for superconductive

Card 2/3

Investigation of ....

S/126/62/013/004/007/022
E193/E383

properties of alloys of a composition near to that of $PtBi_2$, which are characterized by a high critical temperature of $T_k \approx 2.4$ °K.

There are 7 figures and 4 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova
(Moscow State University im. M.V. Lomonosov)

SUBMITTED: June 30, 1961

Card 3/3

KUZ'MIN, R.N.; ZHURAVLEV, N.N.; ZHDANOV, G.S.

Thermal analysis of the Rh - Bi system. Zhur. neorg. khim. 8 no.8:1906-1914 Ag '63. (MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet, fizicheskiy fakul'tet, kafedra fiziki tverdogo tela.
(Rhodium-bismuth alloys)
(Thermal analysis)

KUZ'MIN, R.N.; ZHURAVLEV, N.N.

Phase diagram of the system Rh - Sb. Vest. Mosk. un. Ser. 3: Fiz., astron. 18 no.2:9-14 Mr-Ap '63. (MIRA 16:6)

1. Kafedra fiziki tverdogo tela Moskovskogo universiteta.
(Rhodium-antimony alloys)
(Phase rule and equilibrium)

GENKIN, A.D.; ZHURAVLEV, N.N.; SMIRNOVA, Ye.M.

"Moncheir" and "Kotul'skiy" new minerals and the composition of michenerite. Zap.Vses.min.ob-va 92 no.1:33-50 '63. (MIRA 16:4)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR i Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

(Monchegorsk region--Minerals)

ACCESSION NR: AP4012284 S/0070/64/009/001/0116/0117

AUTHORS: Zhuravlev, N. N.; Stepanova, A. A.; Shebatinov, M. P.

TITLE: X-ray determination of the coefficients of thermal expansion for monosulfides of La, Ce, Pr, and Nd

SOURCE: Kristallografiya, v. 9, no. 1, 1964, 116-117

TOPIC TAGS: thermal expansion, thermal expansion coefficient, rare earth monosulfid-, x ray determination, semiconductor, metallic conductivity

ABSTRACT: The crystals investigated are cubic and have the structure of NaCl. The lattice dimensions, density, interatomic distances, atomic diameter, and thermal expansion for the various sulfides are shown in Table 1 of the Enclosure. To obtain the coefficient of thermal expansion the authors took x-ray photographs in a vacuum at various temperatures (from room temperature to 400C), using Cu radiation. They also computed an index Δ, proposed by L. D. Didkin (Nekotory*ye zakonomernosti obrazovaniya poluprovodnikovy*kh faz v sistemakh s perekhodny*mi metallami. V sb. "Vy*sokotemperaturny*ye metallokeramicheskiye materialy*." Izd-vo AN UkrSSR, Kiyev, 1962, 87), which characterizes the type of conductiv-

Card 1/2

ACCESSION NR: AP4012284

ity. If $\Delta < 14.5\%$, the compound should have metallic conductivity. If $\Delta > 14.5\%$, then, under certain conditions, the compound may act as a semiconductor. All the studied compounds have Δ less than 14.5%. Orig. art. has: 1 table.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 15Apr63 DATE ACQ: 19Feb64 ENCL: 01

SUB CODE: PH NO REF SOV: 006 OTHER: 001

Card 2/3

ZHURAVLEV, N.N.; STEPANOVA, A.A.; SHEBATINOV, M.P.

X-ray diffraction determination of the thermal coefficient expansion in La, Ce, Pr, and Nd monosulfides. Kristallografiia 9 no.1:116-117 Ja-F '64. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

L 32042-66 EWP(e)/ EWT(m)/EWP(t)/ETI IJP(c) JD/JG/AT/WH
(A)

ACC NR: AP6013339 SOURCE CODE: UR/0363/66/002/004/0608/0616

AUTHOR: Meyerson, G.A.; Zhuravlev, N.N.; Manelis, R.M.; Runov, A.D.; Stepanova, A.A.; Grishina, L.P.; Gramm, N.V.

ORG: Physics Department, Moscow State University im. M.V. Lomonosov (Fizicheskiy fakul'tet, Moskovskiy gosudarstvennyy universitet)

TITLE: Some properties of yttrium borides

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 4, 1966, 608-616

TOPIC TAGS: yttrium compound, boride, work function, thermionic emission

ABSTRACT: The thermionic and crystallographic constants of the borides YB_4, YB_6, and YB_{12} were measured, and the behavior of these materials in a vacuum at elevated temperatures was studied. The borides were prepared by the vacuum thermal method by reducing yttrium oxide with boron. YB_4 is indexed in a tetragonal lattice with constants a = 7.12, c = 4.04 ± 0.05 Å. YB_6 and YB_{12} are indexed in a cubic lattice with constant a = 4.102 and 7.506 ± 0.002 Å, respectively. It was shown that only YB_4 is stable during high-temperature treatment (up to 2750K); YB_6 and YB_{12} decompose to

Card 1/2 UDC: 546.641'271

L 32042-66

ACC NR: AP6013339

form YB_4. The microhardness and strength of the borides decreases in the series $YB_4 \rightarrow YB_6 \rightarrow YB_{12}$. Measurements of the thermionic emission showed that the highest density of the emission current was that of YB_4 (0.284 A/cm^2 at 1890K). Currents of $9.68 \times 10^{-4} - 2.01 \times 10^{-5}$ A/cm^2 can be obtained from YB_6 and YB_{12} on a tantalum substrate at maximum operating temperatures of 1790 and 1730K, respectively. The work function (φ_0) increases from 3.2 to 5.31 to 5.36 in the series $YB_4 \rightarrow YB_6 \rightarrow YB_{12}$. The emissive properties depend substantially on the phase composition of the material. In their emissive properties, the yttrium borides studied are substantially inferior to lanthanum hexaboride. Orig. art. has: 8 fig. and 5 tables.

SUB CODE: 11 / SUBM DATE: 16Jun65 / ORIG REF: 007 / OTH REF: 004

Card 2/2

ZHURAVLEV, N. N.

ZHURAVLEV, N. N. -- "Intramural Nervous Apparatus of the Stomach under Normal Conditions and in Cases of Cancer and Ulcerous Disease." Inst of Experimental Medicine, Acad Sci Latvian SSR. Riga, 1955. (Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

ZHURAVLEV, N.N., mekhanik

Choke to be used in hydraulic testing of exterior piping systems. [Suggested by N.N.Zhuravlev]. Rats. i izobr. predl. v stroi. no. 4:81-82 '57. (MIRA 11:8)

(Pipe--Testing)

L 17427-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG

ACCESSION NR: AP3004348 S/0078/63/008/008/1906/1914

AUTHORS: Kuz'min, R. N.; Zhuravlev, N. N.; Zhdanov, G. S. 57

TITLE: Thermal analysis of the system Rh-Bi 57

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 8, 1963, 1906-1914

TOPIC TAGS: DTA, Rh, Bi, differential thermal analysis, rhodium, bismuth

ABSTRACT: Differential thermal analysis has been conducted for the first time in Rh-Bi equilibrium systems. An equilibrium diagram has been constructed for the above system, starting with pure Bi and ending with a 22.5 weight % of Rh in the system. Rh-Bi thermograms were taken after the alloy had been homogeneously heated for 48 hours at 720°. The only effects shown in the heating curves are the ones corresponding to the eutectic transformation, reaction of $RhBi_4$ formation, and the polymorphic transformation α=β-$RhBi_2$. The differential effect corresponding to the eutectic transformation disappears completely when the

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L 17427-63

ACCESSION NR: AP3004348

Rh content is 10.5 weight %. At 11.0 weight % of Rh, the polymorphic effect of transformation $\alpha \rightleftarrows \beta$-$RhBi_2$ is noted. This effect increases with an increase of Rh content. Authors concluded that a $RhBi_4$ compound exists. Orig. art. has: 11 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet, Fizicheskiy fakul'tet, Kafedra fiziki tverdogo tela (Moscow State University, Division of Physics, Department of Solid State Physics)

SUBMITTED: 26Jun62 DATE ACQ: 21Aug63 ENCL: 00

SUB CODE: CH, EL NO REF SOV: 022 OTHER: 001

Card 2/2

KALINKA, V.D., kand.med.nauk; SHURMAN, F.V., kand.med.nauk; ZHURAVLEV, N.N., kand.med.nauk

Third Republican Conference of Latvian Pathologists. Arkh. pat. 27 no.11:82-84 '65. (MIRA 18:12)

L 21811-65 EWP(e)/EWT(m)/EWP(w)/EPF(c)-2/EWA(d)/EPR/T Pc-4/
Pu-4 AFWL/SSD/IJP(c) JD/WG/AT/WH

ACCESSION NR: AP5001595 S/0020/64/156/006/0083/0084

AUTHOR: Zhuravlev, N. N.; Stepanova, A. A.

TITLE: X-ray determination of the coefficient of thermal expansion of ScB_2

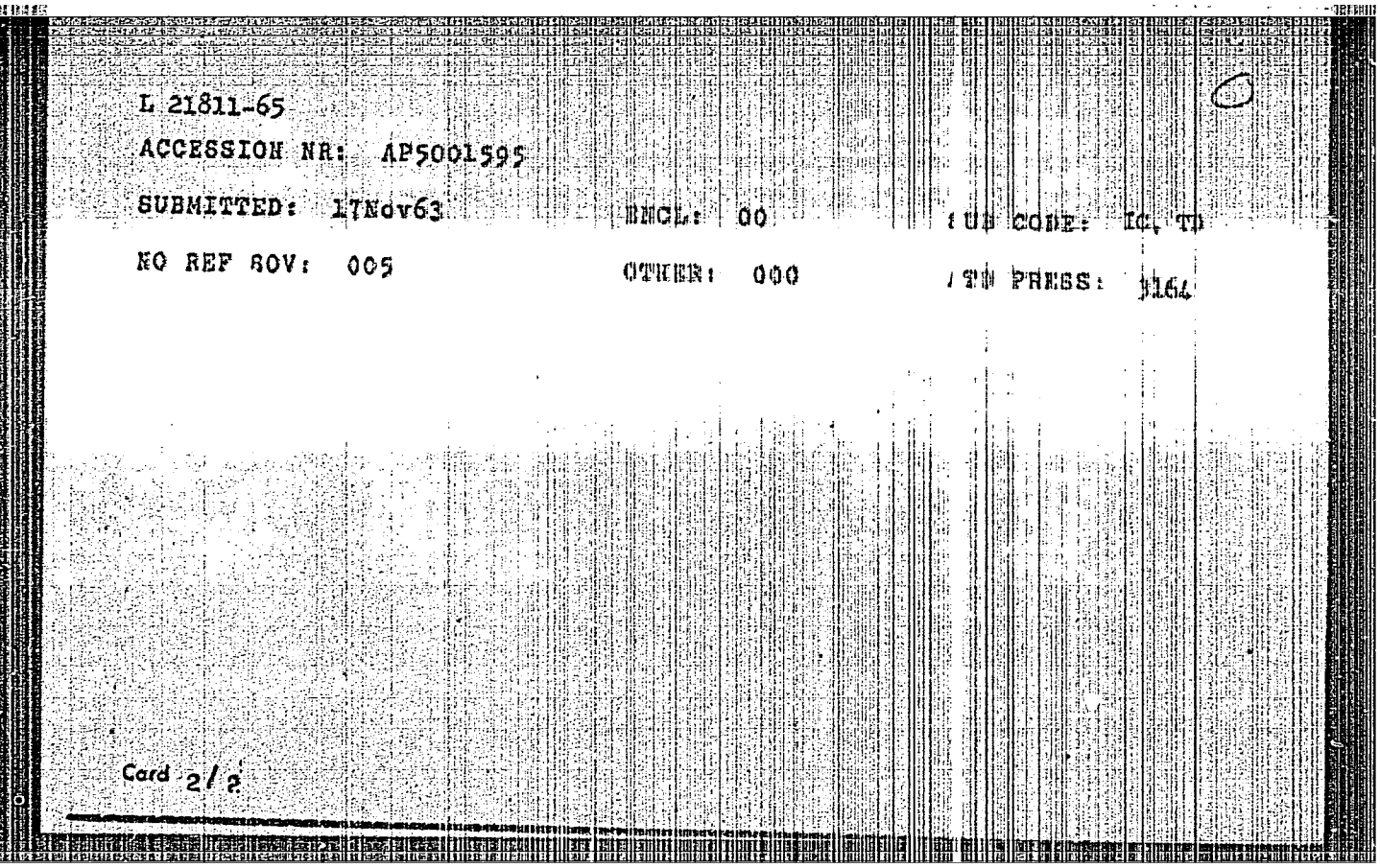
SOURCE: Doklady Akademii nauk SSSR, v. 156, no. 6, 1964, 83-84

TOPIC TAGS: scandium boride, lattice constant, thermal expansion, expansion coefficient

ABSTRACT: The ScB_2 compound has an AlB_2 typed hexagonal lattice with the parameters a = 3.14 Kx and c = 3.52 kx. The x-ray diffraction analysis of ScB_2 powder at 20 to 600C showed that a and c lattice parameters increased almost linearly with increasing temperature. The [illegible] coefficients of thermal expansion were [illegible] and [illegible] [illegible] respectively along the a and c axes, respectively. Orig. art. has: 1 figure.

ASSOCIATION: Moskovskiy gosuniversitet im. M. V. Lomonosova (Moscow State University)

Card 1/2



L 21811-65

ACCESSION NR: AP5001595

SUBMITTED: 17Nov63 ENCL: 00 SUB CODE: EC, TD

NO REF SOV: 005 OTHER: 000 ATD PRESS: 3164

Card 2/2

L 12098-66

ACC NR: AP6000528 SOURCE CODE: UR/0070/65/010/006/0828/0832

AUTHOR: Zhuravlev, N. N.; Smirnova, Ye. M.

ORG: Moscow State University im. M. V. Lomonosov (Moskivskiy gosudarstvennyy universitet)

TITLE: The identification of two new compounds, $IrBi_3$ and $IrBi_2$, in the bismuth-iridium system

SOURCE: Kristallografiya, v. 10, no. 6, 1965, 828-832

TOPIC TAGS: bismuth alloy, bismuth compound, iridium alloy, iridium compound

ABSTRACT: Two new compounds, $IrBi_3$ and $IrBi_2$, have been identified in bismuth-iridium systems. Following a description of crystals, the article describes the crystallochemical and X-ray analysis of acicular and short-prismatic crystals. The $IrBi_3$ compound crystallizes in rhombic crystals which are isomorphous to $NiBi_3$; the $IrBi_2$ compound appears in the form of monoclinic crystals which are isomorphous to α-$RhBi_2$ and have the arsenophyrite structure. The authors list also the dimensions of the elementary cells and show the changes in the hardness of annealed bismuth-iridium alloys as a function of their composition. We thank Prof. G. S. Zhdanov for the discussion of the results of the present

Card 1/2 UDC: 548.736

L 12098-66
ACC NR: AP6000528

investigation. Orig. art. has: 3 figures and 2 tables.

SUB CODE: 07, 20 / SUBM DATE: 14Mar65 / ORIG REF: 009 / OTH REF: 001

HW

Card 2/2

L 6492-65 EWT(d)/EWP(l) IJP(c) BB/GG

ACC NR: AP5027900 SOURCE CODE: UR/0103/65/026/011/2062/2063

AUTHOR: Zhuravlev, O.G. (Moscow); Torgovitskiy, I. Sh. (Moscow) 44 44

ORG: None

TITLE: Optimum method of objective classification of pattern recognition problems

SOURCE: Avtomatika i telemekhanika, v. 26, no. 11, 1965, 2062-2063

TOPIC TAGS: pattern recognition, recognition process, class theory, statistic distribution, data sampling

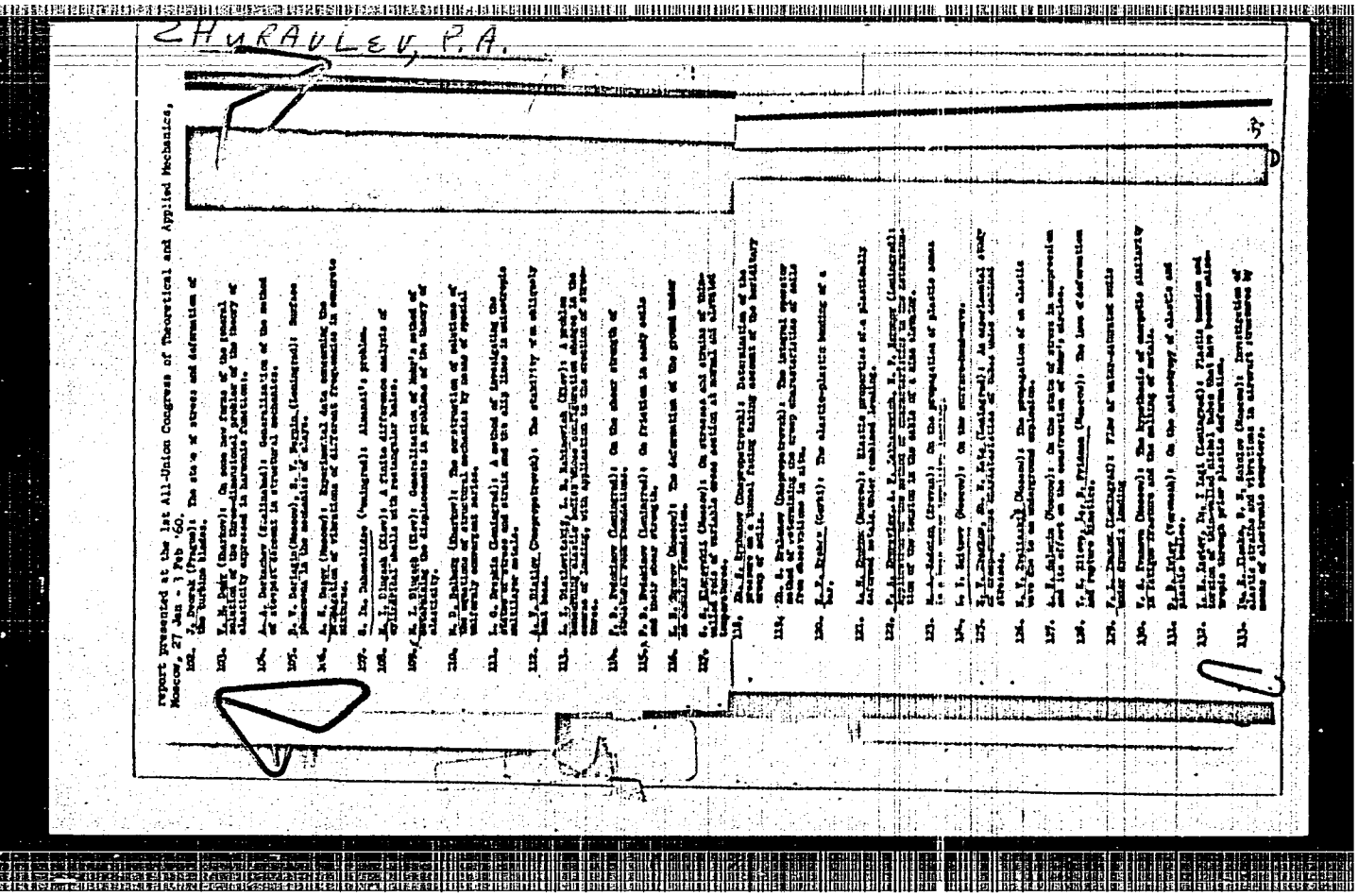
ABSTRACT: In the past, pattern recognition methods required the advance knowledge of the class to which the given pattern belonged (at least during the learning process). The present note investigates a new method based on the theory of statistical solutions according to the general sampling approach corresponding to the set of possible situations. The moment method is utilized for the estimate of unknown parameters in the case of more general multidimensional normal distributions belonging to two recognizable classes. The covariant matrix established for the case of such a multidimensional normal distribution also remains valid for an arbitrary symmetric distribution. Orig. art. has: 5 formulas.

SUB CODE: DP, MA / SUBM DATE: 11Jun65 / ORIG REF: 001 / OTH REF: 004

Card 1/1 UDC: 621.391.193

ZHURAVLEV, P.A.

Introducing a unit for drying and heat treatment of articles. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no. 12:22-23 D '65 (MIRA 19:1)



ZHURAVLEV, P.A.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

ZHURAVLEV, P.A.

Application of Academician S.A.Khristianovich's method to the study of fluid movement in channels. Vest.Len.un. 10 no.8:67-85 Ag '55. (MLRA 9:1)

(Fluid dynamics)

ZHURAVLEV, P. A.

USSR/Mathematics - Flow of a liquid

Card : Pub. 22 - 12/54

Authors : Zhuravlev, P. A.

Title : Application of the Khristianovich method to the study of the movement of a liquid with a free surface

Periodical : Dok. AN SSSR 102/5, 895-902, June 11, 1955

Abstract : An approximate solution of a problem on the movement of a liquid with a free surface in a specially designed channel is presented. The solution was obtained by the Khristianovich method (its description is given in another work). The method implies the concept of the velocity potential $\varphi(x, y)$ and the functions of flow $\psi(x, y)$. Experiments were conducted to compare theoretical data with observed but, mainly, for determining the justification for replacing the exact differential equations with approximate ones. Four USSR references (1940-1948). Diagrams.

Institution : The Leningrad Mining Institute

Presented by: Academician S. A. Khristianovich, April 7, 1955

SOV/124-57-9-9961

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 9, p 13 (USSR)

AUTHORS: Neronov, N. P., Zakharevich, A. F., Zhuravlev, P. A.

TITLE: On the Theory of Vibrating Machinery (K teorii vibratsionnykh mashin)

PERIODICAL: Zap. Leningr. gorn. in-ta, 1956, Vol 33, Nr 3, pp 3-36

ABSTRACT: The motions of a model of a vibrating machine intended for the conveyance and grading of materials are studied. The machine consists of two parallel frames the lower of which is mounted on four shock absorbers and is connected to the top frame by means of flat springs. The two frames together form an elastic parallelogram. The vibration-exciter mechanism consists of a motor with an unbalanced load mounted on the lower frame. The pre-resonance as well as the post-resonance behavior of the system is studied. The problem is reduced to the integration of a system of differential linear equations with variable coefficients performed by the small-parameter method. The results obtained permit a determination of the natural frequencies of vibrations and the resonance conditions of the system. The aggregate data obtained serve in the stress

Card 1/2

On the Theory of Vibrating Machinery

SOV/124-57-9-9961

analysis of the vibrating components of the machinery.

V. N. Geminov

Card 2/2

SOV/124-57-4-4262

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 57 (USSR)

AUTHOR: Zhuravlev, P. A.

TITLE: On the Question of the Motion of a Fluid in Channels (K voprosu o dvizhenii zhidkosti v kanalakh)

PERIODICAL: Zap. Leningr. gorn. in-ta, 1956, Vol 33, Nr 3, pp 54-61

ABSTRACT: The paper studies certain characteristics of the velocity field and the geometry of a plane incompressible steady-state flow. The corresponding complex potential is expressed in the following form:

$$w = Uz + \frac{m}{2\pi} \log_e \cos \frac{\pi z}{a i} \qquad (z = x + iy) \qquad (1)$$

It should be noted that an analogous flow was analyzed earlier in some problems on the steady seepage of incompressible fluid in a horizontal stratum. The isolated areas forming during the outflow of fluid from each source (1) are interpreted as the impermeable walls of a channel. The presentation of the problem permits a generalization in the case of the complication of the complex potential (1) by the addition of new logarithmic terms similar to the one figuring in equation (1). Some typographic errors are noted in the text. V. P. Pilatovskiy

Card 1/1

ZHURAVLEV, P.A.

Mechanics of a jaw crusher. Zap. Len. gor. inst. 34 no.1:73-79 '57. (MLRA 10:9)
(Crushing machinery) (Mechanical engineering)

ZHURAVLEV, P.A.; ZAKHAREVICH, A.F.

Most advantageous conditions of ball mill operation. Obog. rud 3 no.1:61-63 '58. (MIRA 11:10)
(Crushing machinery)

SOV/94-58-11-9/28

AUTHOR: Dolotov, G.P.
Zhuravlev, P.A.
Kuznetsov, I.I
Kogan, G.M.
Kondakov, Ye.A.
Nesterenko, P.S.

TITLE: The Installation of a Radiation Recuperator on a Cupola (Ustanovka radiatsionnogo rekuperatora na vagranke)

PERIODICAL: Promyshlennaya Energetika, 1958, 13 Nr 11, p 19. (USSR)

ABSTRACT: This suggestion was awarded a fifth premium in an All-Union Power Economy competition. Hitherto little use has been made of waste heat from foundry cupolas largely because the heat exchangers become dirty very quickly and therefore inefficient. Metal radiation recuperators of simple construction have recently been used abroad for this purpose. The authors proposed the installation of radiation recuperators for heating blast air on two cupolas of 18 tons per hour upwards. A sketch of the equipment is given. The recuperator consists of two metal tubes with an annular gap of

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The Installation of a Radiation Recuperator on a Cupola

32 mm; the recuperator is 6,000 mm high and constructional details are given. The method of installing the device is briefly described. The equipment has proved satisfactory in service and economises about 1,180 tons of coke a year. There is 1 figure.

ZHURAVLEV, P.A., dotsent; ZAKHAREVICH, A.F., dotsent

Dynamic stresses in hoisting cables. Izv. vys. ucheb. zav.; gor. zhur. 6 no.3:121-128 '63. (MIRA 16:10)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy gornoy mekhaniki.

ZHURAVLEV, P.I.

Utilize the wastes of camphor production. Gidroliz. i lesokhim. prom. 15 no.2:23 '62. (MIRA 18:3)

1. Gor'kovskiy kanifol'no-terpentinnyy zavod.

ZHURAVLEV, P.T.

New trends in the industrial utilization of turpentine. Gidrolis. i lesokhim.prom. 18 no.1:21-22 '65. (MIRA 18:3)

1. Gor'kovskiy kanifol'no-terpentinnyy zavod.

ZHURAVLEV, P.V.

Calculation of the pressure characteristics of multistage centrifugal force pumps. Trudy NPI 137:63-72 '62. (MIRA 16:10)

KOROTOV, S.Ya.; VYRODOV, V.A.; ZHURAVLEV, P.I.

Adoption of the continuous method of saponification of isobornyl formate. Gidroliz. i lesokhim. prom. 16 no.4:16-18 '63. (MIRA 16:7)

1. Vsesoyuznyy zaochnyy lesotekhnicheskiy institut (for Korotov, Vyrobov). 2. Gor'kovskiy kanifol'no-terpentinnyy zavod (for Zhuravlev).

(Isoborneal) (Saponification) (Camphor)

CHASHCHIN, Arkadiy Maksimovich; KISLITSYN, Aleksey Nikolayevich; CHUDINOV, Stanislav Vasil'yevich; ZHURAVLEV, Petr Ivanovich GORDON, L.V., red.

[How wood chemistry benefits the national economy] Lesokhimiia - narodnomu khoziaistvu. Moskva, Lesnaia promyshlennost', 1965. 58 p. (MIRA 18:9)

FUGENFIROV, M.I.; ZHURAVLEV, P.N.

Plan of research, experimental and design work in power and electric engineering for 1963. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.-nauch.i tekh.inform. no.11:88-90 '62. (MIRA 15:11)
(Electric engineering) (Power engineering)

S/834/61/039/003/001/001
E191/E135

AUTHOR: Zhuravlev, P.A.

TITLE: Determination of the acceleration of a material point in complex motion

SOURCE: Leningrad. Gornyy institut. Zapiski. v.39, no.3. Moscow, 1961. Teoreticheskaya mekhanika. Teoriya uprugosti. 63-66.

TEXT: The formulation of the problem refers to several unchanging media and a material point moving in relation to these media. The motion of the point in relation to the first medium is given; furthermore, the motion of the first medium in relation to the second medium and so on until the n-th medium. It is desired to determine the motion of the material point in relation to the n-th medium when n exceeds 3. A formula is derived by the author on the basis of the Coriolis theorem which differs from earlier solutions given by other authors. The new formula, written in the notation of vector analysis, agrees with the older but has the advantage of clarity and easier application.

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It is stated that the formula can be applied in engineering and natural sciences, in particular, astronomy.
There are 2 figures.

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ZHURAVLEV, P.A., dotsent; ZAKHAREVICH, A.F., dotsent.

Numerical evaluation of maximum tension in mine hoisting ropes under regular conditions of hoisting. Izv.vys.uchab.zav.; gor.zhur. no.10:113-118 '59. (MIRA 13:5)

1. Leningradskiy gornyy institut.
(Mine hoisting)

ZHURAVLEV, P.I.

Improvement of the camphene esterification process. Gidroliz.i lesokhim.prom. 13 no.6:24-25 '60. (MIRA 13:9)

1. Gor'kovskiy kanifol'no-terpentinnyy zavod.
(Camphene) (Esterification)

ZHURAVLEV, P.I.

Mechanization of the discharge of isoborneol from centrifuges.
Gidroliz. i lesokhim.prom. 14 no.2:21-22 '61. (MIRA 14:3)

1. Gor'kovskiy kanifol'no-terpentinny zavod.
(Isoborneol)

ZHURAVLEV, P.I.; PLOTNIKOVA, M.I.

Processing of isoborneol oils. Gidroliz. i lesokhim.prom. 14 no.3: 22-23 '61. (MIRA 14:4)

1. Gor'kovskiy kanifol'no-terpentinnyy zavod.
(Isoborneol)

ZHURAVLEV, P. M.

GSVU, Red Army, (-1944-)

"Phagotherapy and phagoprophylaxis of gas gangrene"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 9, 1944.

ZHURAVLEV, P.N.

Organizing a temporary committee at the State Scientific Technological Board of the R.S.F.S.R. on automation of agricultural production processes. Biul.tekh.-ekon.inform. no.6:72 '61. (MIRA 14:6)

(Agriculture) (Automation)

ZHURAVLEV, P.N.

The 1961 plan for expermental design and scientific reaserch work.
Mekh. i elek. sots. sel'khoz. 1:62-63 '61. (MIRA 14:3)
(Agriculture machinery)

ZHURAVLEV, P.N.; SHATOV, B.M.

New machinery for agriculture. Biul.tekhn.-ekon.inform. no.12:63-65 '60. (MIRA 13:12)
(Agricultural machinery--Technological innovations)

ZHURAVLEV, P.N.; KOSHKIN, K.Ye.

Electric power in agriculture. Biul.tekh.-ekon.inform. no.8:63-66 '61. (MIRA 14:8)

(Rural electrification)

ZHURAVLEV, P.V., dotsent, kand.tekhn.nauk

Determining the pull in jet propulsion. Trudy NPI 49:25-49 '59.
(MIRA 14:3)

1. Kafedra gornoy elektromekhaniki Novocherkasskogo politekhnicheskogo instituta.

(Jet propulsion)

ZHURAVLEV, P.V.; VODYANIK, G.M.

Using SVM-6M fans in electric locomotive construction. Trudy NPI 137:73-79 '62. (MIRA 16:10)

ZHURAVLEV, P. V.

EC

PA 26T17

USSR/Engineering Oct 1947
Ventilating Systems
Fans

"Type TsAGI Axial Ventilators for Ventilating Shafts," P. V. Zhuravlev, Candidate in Technical Sciences, Novocherkask Industrial Institute, 4 pp

"Gornyy Zhurnal" No 10

Very little has been said about the effect and operation of axial ventilators in mine shafts and it is the intention of the author to clarify some of the doubts which exist with regard to the advisability of using this type of ventilator. Such ventilators of Type TsAGI Series U and V are

26T17

USSR/Engineering (Contd) Oct 1947

in use at the Donbas and Kivorozh' workings. Author gives operation results of these ventilators in graph form. Also several mathematical formulae to determine the operation capacity required of ventilators.

26T17

ZHURAVLEV, P.V., dotsent, kandidat tekhnicheskikh nauk.

Guarantee of safe operation of ventilators in complex systems.
Nauch. trudy MPI 26:3-9 '55.
(Mine ventilation)

(MLRA 9:12)

ZHURAVLEV, P.V., dotsent, kandidat tekhnicheskikh nauk.

Influence of air inflow on changes in fan performance. Nauch. trudy NPI 32:47-52 '55. (MLRA 10:2)

(Fans, Mechanical) (Mine ventilation)

CHEREPNIN, V.K.; ZHURAVLEV, R.S.

Using centrifugal analysis to diagnose finely dispersed products of the oxidation zone. Trudy Inst.geol.i geofiz.Sib.otd.AN SSSR no.4:141-145 '60. (MIRA 15:7)
(Mineralogy, Determinative) (Centrifugation)

[illegible]KOVSKIY, V.A.; YEGOROV, P.I.; ZHURAVLEV, P.Ya.

Increasing the resistance of stoppers of steel pouring ladles.
Metallurg 10 no.2:13-15 F '65. (MIRA 18:3)

ZHURAVLEV, P.Ya.; EFROS, D.I.; KUTENKO, Yu.V.; POKROVSKIY, V.A.; GRANAT, I.Ya.; MOROZENSKIY, L.I.; GORSKIY, V.B.

Influence of vacuum treatment and the conditions of steel deoxidation on the formation of surface defects in continuous ingots. Stal' 25 no.10:891-894 O '65. (MIRA 18:11)

1. Gor'kovskiy mashinostroitel'nyy zavod.

PERMITIN, V.Ye.; ZHURAVLEV, P.Ya.; KUTENKO, Yu.V.; POKROVSKIY, V.A.

Using exothermic mixes in continuous steel teeming. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. no.8:9-11 Ag '65. (MIRA 18:12)

L 22637-66 EWT(1) GW SOURCE CODE: UR/0007/65/000/005/0619/0624

ACC NR: AP6012660

AUTHOR: Osipov, D. K.; Zhuravlev, R. S.

ORG: Institute of Geology and Geophysics, SO, AN SSSR, Novosibirsk (Institut geologii i geofiziki SO AN SSSR)

TITLE: Uranium and thorium in the magmatic rocks of the Kuzbass

SOURCE: Geokhimiya, no. 5, 1965, 619-624

TOPIC TAGS: uranium, thorium, petrology, geochemistry

ABSTRACT: Magmatic rocks of the trap formation of the Kuzbass, in contrast to intrusive rocks of acid composition, are characterized by the relatively uniform distribution of U and Th in them. In the Upper Paleozoic dolerite-monzonites and monzonite-essexites the average content of U amounts to $3.77 \cdot 10^{-4}$% and Th — $13.4 \cdot 10^{-4}$%, and the ratio of U to Th is 3.6. In the basalts of the lower Mesozoic period the U concentration varies from $2.66 \cdot 10^{-4}$ (Tom' river) to $3.13 \cdot 10^{-4}$% (Tersʼ river), the Th concentration correspondingly varies from $9.48 \cdot 10^{-4}$ to $13.20 \cdot 10^{-4}$%. The ratio of U to Th is changed proportionally from 3.6 to 4.2. The main part of the U and Th in dolerite-monzonites and monzonite-essexites is connected with feldspars. In basalts a considerable portion of these elements is concentrated in a glassy mass. A direct correlation was established between U and Th. The correlation of U and Th is clearly expressed with SiO_2, K_2O, CaO, and MgO. U and Th in trap rocks and their minerals are

UDC: 546.791: 549.6: 552.3

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ACC NR: AP6012660

found in the form of molecular scattering, filling, and in all likelihood the interstices and other defects of the crystalline lattices, or collected on the crystalline planes of growth. Interposed rocks were not subjected to contact metamorphism from the traps of the Kuzbass and did not affect the distribution of U and Th in them noticeably. The authors thank G. V. Nesterenko, who made the collection of basalt specimens from the Ters' cross-section available for analysis. Orig. art. has: 3 figures and 3 tables. [JPRS]

SUB CODE: 08, 07 / SUBM DATE: 24Jun64 / ORIG REF: 012 / OTH REF: 002

Card 2/2 MJS

ZHURAVLEV, R.S.; OSIPOV, D.K.

Uranium in the basic rocks of the Patyn Massif and Great Kul'-Tayga Mount in Gornaya Shoriya. Geokhimiia no.4:490-494 Ap '65. (MIRA 18:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

ZHURAVLEV, R.S.; OSIPOV, D.K.; GLADKIKH, Z.V.

Distribution of uranium and thorium in the nepheline rocks of Goryachaya Mountain and the problems of its genesis. Geokhimiia no.6:762-766 Je '65. (MIRA 18:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

OSIPOV, D.K.; ZHURAVLEV, R.S.

Uranium and thorium in the igneous rocks of the Kuznetsk Basin. Geokhimiia no.5:619-623 My '65. (MIRA 18:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

OSIPOV, D.K.; ZHURAVLEV, R.S.; KOMARNITSKIY, G.M.

Geochemistry of uranium in the granitoids of the Upper Kondoma Massif(Gornaya Shoriya). Geol. i geofiz. no.6:48-57 '64. (MIRA 18:11)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

BERZIN, G., inzh.; ZHURAVLEV, S., inzh.; TURKIN, V., inzh.

Radiant heating of apartment houses. Zhil. stroi. no.5:21-23 '62. (MIRA 15:6)

(Radiant heating). (Apartment houses)

VYSOKOV, K.; ZHURAVLEV, S.

Made of polymers. Na stroi.Ros. no.1:19-22 Ja '61. (MIRA 14:6)
(Polymers)

ZHURAVLEV, S.

New technical school under the administration of the Executive Committee of the Moscow City Council of Workers' Deputies. Gor.khoz. Mosk. 35 no.6:11 Je '61. (MIRA 14:7)

1. Direktor zhilishchno-stroitel'nogo tekhnikuma.
(Moscow—Municipal services—Study and teaching)

ZHURAVLEV, S., inzh; VASETSKIY, Ye., inzh.

Developing healthy and safe working conditions for miners. Bezop. truda v prom. 4 no.11:11-13 N '60. (MIRA 13:11)

1. Dneprostrovskiy sovet narodnogo khozyaystva.
(Mining engeneering--Safety measures)

ZHURAVLEV., S. A., TOMILIN, G. N., MIASNIKOV, V. P.

Instrumenty dlia skorostnogo rezaniia metallov. Moskva, Mashgiz, 1950. 231 p. diagrs.

Bibliography: p. 229-(230)

Tools for high-speed metal-cutting.

DLC: TH1230,T65

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

ZHURAVLEV, S.A.

Our purpose is to encourage all workers to take part in technical creative work. Izobr. i rats. no.6:6-8 Je '58. (MIRA 11:9)

1. Chlen orgbyuro Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov pri Sverdlovskom oblastnom sovete profsoyuzov. (Inventions)

ZHURAVLEV, S.A., elektromekhanik

Determination of the conductivity of rail joints with graphite lubricants. Avtom., telem. i sviaz' 6 no.10:39 O '62. (MIRA 16:5)

1. Orshanskaya distantsiya signalizatsii i svyazi Belorusskoy dorogi.

(Railroads—Signaling—Block systems)

OGLOBLIN, S.A., kand. tekhn. nauk; OL'BINSKIY, Z.M., inzh., retsenzent; ZHURAVLEV, S.A., kand. tekhn. nauk, red.

[Dividing heads and their adjustment] Delitel'nye golovki i ikh nastroiki. Pod red. S.A.Zhuravleva. Moskva, Mashinostroenie, 1964. 136 p. (Bibliotechka frezerovshchika, no.6)
(MIRA 19:1)

SERGEYEV, M.A.; ZHURAVLEV, S.A., kand. tekhn. nauk, red.

[Organization of the working area of a milling-machine operator and safety measures] Organizatsiia rabochego mesta frezerovshchika i tekhnika bezopasnosti. Moskva, Mashinostroenie, 1964. 84 p. (Bibliotechka frezerovshchika, no.9) (MIRA 18:5)

KOVALEV, N.M.; PERELOMOV, N.G.; KUCHER, A.M., kand. tekhn. nauk, dots., retsenzent; ZHURAVLEV, S.A., kand. tekhn. nauk, red.

[Milling machines] Frezernye stanki. Moskva, Mashinostroenie, 1964. 107 p. (Bibliotechka frezerovshchika, no.3) (MIRA 18:8)

PLOTITSYN, V.G.; BLYUMBERG, V.A., kand. tekhn.nauk, retsenzent;
ZHURAVLEV, S.A., kand. tekhn. nauk, red.

[Technology of milling] Tekhnologiia frezernykh rabot. Moskva, Mashinostroenie, 1964. 123 p. (Biblioteckka frezerovshchika, no.4) (MIRA 18:8)

ZHURAVLEV, S.A., kand. tekhn. nauk; SHIFRIN, A.Sh.; RUBETSKIY, A.L., dots., retsenzent

[Milling cutters] Frezy. Moskva, Mashinostroenie, 1964. 125 p. (Bibliotechka frezerovshchika, no.2)
(MIRA 18:5)

ZHURAVLEV, S.A., kand.tekhn. nauk; SHIFRIN, A.Sh.; GOL'DBERG, M.I., inzh., retsenzent

[Fundamentals of milling and the cutting conditions] Osnovy frezerovaniia i rezhimy rezaniia. Moskva, Mashinostroenie, 1964. 150 p. (Bibliotechka frezerovshchika, no.1)
(MIRA 18:5)

LOSEV, S.A.; KOVALEV, N.M., kand. tekhn. nauk, retsenzent;
ZHURAVLEV, S.A., kand. tekhn. nauk, red.

[Multitool milling] Mnogoinstrumentnaia obrabotka frezerovaniem. Moskva, Mashinostroenie, 1965. 121 p.
(MIRA 18:5)

ZHURAVLEV, S. F.

Central Sci. Research Inst. for Disinfection, NKZDRAVA, People's Commissariat Public Health, Dir. F. S. Khanenya, (-1944-)

"Bisethylxantogen (K-preparation)."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 3, 1944.

ZHURAVLEV, S.I., gornyy inzh.; ARTEMOVA, A.A., gornyy inzh.; BOZHKO, M.P., gornyy inzh.; RUKASOVA, Ye.N., gornyy inzh.

Technology of the production of high-quality concentrates at the Southern Ore Dressing Combine. Gor. zhur. no.7:72-76 Jl '65. (MIRA 18:8)

ZHURAVLEV, S.I. (Odessa)

Device for bacteriological seedings. Veterinariia 36 no.3:79 Mr '59.
(MIRA 12:11)

(Bacteriology--Apparatus and supplies)

YEVSIOVICH, S.G.; ZHURAVLEV, S.I.; LYUBARETS, I.M. KOSOY, G.M.; IGUMNOVA, I.P. SUBBOTA, L.F.; GOLGER, Yu.S.

Industrial use of several methods of dressing Krivoy Rog iron ore in heavy suspensions. Gor.zhur. no.5:54-60 My '60. (MIRA 14:3)

1. Mekhanobr, Leningrad (for Yevsimovich and Zhuravlev).
2. Mekhanobrchermet, Krivoy Rog (for Lyubarets, Kosoy, Igumnova and Subbota). 3. Rudoupravleniye imeni Dzerzhinskogo (for Golger).
(Krivoy Rog Basin—Ore dressing)

ZHURAVLEV, S.I., inzhener; KHAZOVSKIY, I.L., inzhener; KOLOTOVCHENKOV, M.N., tekhnik.

Eliminating dust formation in fuel feeding. Energetik 4 no.6: 12-13 Je '56. (MLRA 9:8)

(Coal-handling machinery)

YEVSIOVICH, S.G.; ZHURAVLEV, S.I.

An efficient technology of magnetite ore dressing at the Sokolovka-Sarbay Mining and Ore Dressing Combine. Gor.zhur. no.8:62-65 Ag '65. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut mekhanicheskoy obrabotki poleznykh iskopayemykh, Leningrad.

DEVSLOVICH, S.G., kand. tekhn. nauk; ZHURAVLEV, S.I., gornyy inzh.

Technological improvement of the dressing of Krivoy Rog magnetite quartzites. Gor. zhur. no.9:65-67 S '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut mekhanicheskoy obrabotki poleznykh iskopayemykh, Leningrad.

ZHURAVLEV, Semen Innokent'yevich [Zhuravl'ov, S.I.]; BABENKO, V.G. [Babenko, V.H.], red.; LEMANOVA, M.I., tekhn.red.

[New forms of party control] Novi formy partiinoho kontroliu. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1959. 28 p. (MIRA 13:2)

1. Zaviduyuchiy viddilom partiynikh organiv Kharkivs'kogo obkomu KP Ukraini (for Zhuravlev).
(Kharkov Province--Industrial management)
(Communist Party of the Soviet Union--Party work)

AL'SHEVSKIY, A.Ye. [deceased]; BRATCHENKO, V.P.; BOL'SHAKOVA, L.I.; KOPYRIN, I.A.; NEKRASOV, V.G.; PLASTININ, B.G.; RYSYUKOV, N.Ye.; ZHURAVLEV, S.M.

Analysis of the performance of a large-size blast furnace.
Metallurg 9 no.12:4-8 D '64. (MIRA 18:2)

1. Orsko-Khalilovskiy metallurgicheskiy kombinat i Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.

ZHURAVLEV, S. N.

Glass Manufacture

Inadequate pamphlet on the history of glass manufacture. Stek. i ker., 9, No. 7, 1952

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.