

MEDUMOV, I.B.

Origin of rare-metal pegmatites in a deposit of Siberia. Trudy
DGKE no.8:85-132 '62. (MIRA 16:1)

(Siberia—Pegmatites)
(Siberia—Metals, Rare and minor)

SMIRNOV, Aleksandr Dmitriyevich; MEDUNOV, Leon' Borisovich;
BULDAKOV, Vitaliy Vladimirovich; VLASOV, K.A., glav. red.;
LEONT'YEV, L.N., doktor geol.-miner. nauk, otv. red.;
PLATOV, N.A., fred. 1sd-va; VOLKOVA, V.V., tekhn. red.

[Riphean structures in the Eastern Sayan Mountains and the
distribution of pegmatite zones in them] Rifeiskie struktury
Vostochnogo Saiana i polozhenie v nikh pegmatitovykh polei.
Moskva, Izd-vo AN SSSR, 1963. 152 p. (MIRA 16:7)

1. Chlen-korrespondent AN SSSR (for Vlasov).
(Sayan Mountains--Pegmatites)

GYANDZHUNTSEV, Yervand Tatevosovich, kand. ekon. nauk, dots.;
N.DUMOV, Boris Ivanovich, inzh.; SHTUK, G.S.;
POMERATSKY, N.N.; ANDRIANOV, S.I., doktor ekon. nauk,
prof., retsenzent; KUL'BERG, L.M., dots., kand. tekhn.
nauk, retsenzent; GORDON, A.L., red.

[Economics and organization of radio production! Ekono-
mika i organizatsiya radiotekhnicheskogo soizvodstva.
Moskva. Energiia, 1964. 360 p. (MIRA 17:10)

1. Zaveduyushchiy kafedroy ekonomiki promyshlennosti Mo-
skovskogo aviationskogo instituta (for Andrianov).
2. Kafedra ekonomiki promyshlennosti Moskovskogo aviations-
kogo instituta (for Kul'berg').

18(6)

AUTHORS:

Grigor'yev, A. T., Kuprin, V. I.,
Nedumov, N. A.

SCV/70-4-2-24/34

TITLE:

The Phase Diagram of the System Chromium - Tantalum
(Diagramma sostoyaniya sistemy khrom - tantal)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, № 3.
pp 651-654 (USSR)

ABSTRACT:

The system chromium - tantalum was investigated by the method of thermal and microscopic analysis. As initial product tantalum was used in a purity of 99.4 % and chromium in a purity of 99.68 %. Chromium diffuses extremely slowly in tantalum alloys. In order to attain the equilibrium a longer treatment at higher temperature is necessary. In the system the chemical compound Cr₂Ta is formed, which melts at 2,020° without decomposing. The chemical compound Cr₂Ta dissolves the individual components to a hardly recognizable extent. It was found that the chemical compound Cr₂Ta forms a eutectic with solid solutions of chromium in tantalum at 1,980° and 75 % tantalum. With solid solutions of tantalum

Card 1/2

The Phase Diagram of the System Chromium - Tantalum SCV/78-4-3-24/1:

in chromium it forms a eutectic mixture at 1,700° and 31 % tantalum. The solubility of tantalum in chromium amounts at a eutectic temperature to ~10 %. This value agrees well with the values given in publications. The cooling curve of the alloy was plotted corresponding to the chemical compound Cr₂Ta. The first thermal effect at 2,020° corresponds to the crystallization of the alloy from the liquid state. The second effect at 1,905° points to the transformation of the modification of Cr₂Ta from $\delta \rightarrow \epsilon$. Based upon the results the phase diagram chromium - tantalum was plotted and is given in figure 4. There are 4 figures and 2 references.

SUBMITTED: July 2, 1958

Card 2/2

83126

S/070/60/005/009/009/017
B015/B064

181200

AUTHORS Cherkashina, N. V., Nedumov, N. A., Shashay, F.
TITLE Some Data on Alloys of the System Titanium - Chromium - Boron
PERIODICAL Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 9
pp. 2025-2031

TEXT The phase diagram of the ternary system Ti-Cr-B was investigated; first, the cross sections Cr-Ti₂B and Cr-TiB₂ were studied (Tables 1, 2, composition of the mixtures). The samples were produced by mixing and melting the powders and were investigated both metallographically and with respect to microhardness (on the ПМТ-4 (PMT-3) device), while the alloys Cr-Ti₂B were thermally analyzed with a device described in Refs. 10-12. Phase transformations were recorded by a differential thermometer (Fig. 1) while temperature was optically measured in an electric furnace (Fig. 2). Figs. 3 and 4 show the microstructure photographs of some alloys, the data of the microhardness of the phases are given in Tables 3 and 4. At 20 at%

Card 1/2

83126

Some Data on Alloys of the System
Titanium - Chromium - Boron

8/078/60/004/009/004/0
B015/B064

Ti₂B or TiB₂ a eutectic occurs in the structure of the alloy. An increase of the Ti₂B or TiB₂ content to more than 20 at% leads to the formation of an excessive boride phase whose microhardness is between 1500 and 2070 kg/mm² depending on the boron content. The results of thermal analysis show that apparently a ternary eutectic occurs in the system Ti-Cr-B whose formation temperature lies somewhat over 1500°C. Its composition could not be stated. It is, however, very likely to lie in the range of 70 at% Cr and 30 at% TiB₂. There are 6 figures, 4 tables, and 11 references: 5 Soviet, 5 US
1 German, 1 British, and 1 Danish

SUBMITTED June 20, 1959

Card 2/2

~~NEPTUNUS, N.A.~~

16-125	16-125	Bacteriological examination of the soil in the village of Dzhur-Dzhur.	The results have established in Dzhe- r-Dzhur, in addition to the <i>Escherichia coli</i> , <i>Shigella</i> and <i>Salmonella</i> bacteria, <i>Yersinia</i> , <i>Staphylococcus</i> , <i>B. C.</i> , <i>Clostridium</i> , <i>C. perfringens</i> , <i>C. butyricum</i> , <i>B. d.</i>
16-125	16-125	Bacteriological examination of the soil in the village of Dzhur-Dzhur.	The results have established in Dzhe- r-Dzhur, in addition to the <i>Escherichia coli</i> , <i>Shigella</i> and <i>Salmonella</i> bacteria, <i>Yersinia</i> , <i>Staphylococcus</i> , <i>B. C.</i> , <i>Clostridium</i> , <i>C. perfringens</i> , <i>C. butyricum</i> , <i>B. d.</i>

ASSOCIATIONS Bookvalley Quilters, Inc., Box 100, Mineral, Refer to Standard Bassett (Roanoke State University), Department of Computer Science.

卷之三

卷二

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136-

NEDUMOV, N.A. (Moscow)

High-temperature methods of contactless thermography. Zhur.
fiz. khim. 34 no.1 1960. (NIRA 13:5)
(Temperature--Measurement)

18.9360

UDC 2608.2208, 1918,
14154

28871

S// 6/17/007 6/05/020
E12/EM

ACTIVITY: Research, development, and production.

TITLE: Investigation of Nb-Al system by the electron microscope system

MATERIAL: Al-Nb binary alloy system. From the journal "Metall. und
tehnologische Rundschau", No. 10, 1961, p. 60 - 63, Germany.

TEXT: Prompted by the growing interest in the application of Nb in combination with light metals, the present article describes the investigation of the Nb-Al system. The experiments were performed on Nb prepared from 99.3% pure Nb prepared by vacuum annealing at 1 200°C, and 99.9% pure Al. The aluminum ingot was melted in a furnace for melting the alloys. Each charge of the aluminum ingot was remelted 5 - 6 times in the furnace until a button containing no segregations was obtained. The button was cut into small pieces for analysis, X-ray diffraction, hardness measurements, and micrographic examination were used to study the crystal structure. Specimens subjected to the following treatment.

Card 1/5

2987

INVESTIGATION OF ALLOYS

C. C. HARRIS

a) annealed at 1160°C for 5 hours and cooled quenched in water; b) annealed at 1160°C for 5 hours and cooled slowly in furnace; c) annealed for 20 hours at 1160°C and cooled slowly. The re-annealed bar was cut into 1/2" diameter disks which were ground down to near completion of the heat treatment. A portion of each disk was also examined in the as-received condition. The electron micrograph of the as-received bar was taken at a magnification of 10,000^x in Fig. 1. The top left portion composed of a single phase, 1 wt. % Al, was relatively uniform, showing small circular, triangles and squares distributed throughout the solid solution. In the center, the region of eutectoid transformation, some large irregular regions with a very small amount of fine precipitate were found. Two-phase regions, if any, will be seen. These two regions of the compounds are found in the system indicated in Fig. 1. As a result of a peritectic reaction it is known¹ that the aluminum is eliminated from the melt. The Mark's hardness of these three compounds is 790 ± 600, 700 ± 670 and 470 ± 510 kg/mm², respectively, the NbAl phase being extremely brittle.

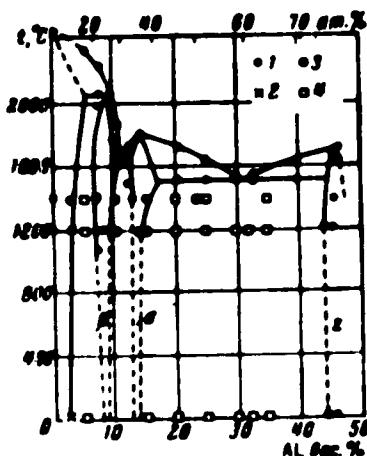
Investigation of alloys

28871
S/180/61/000/004/009/020
E193/E383

There are 5 figures and 6 references: 3 Soviet-block and 3 non-Soviet-block. The English-language reference quoted is:
Ref. 5 - E. Tood, V. Compton, V. Matthias and E. Coren -
Acta crystallogr., 1958, 11, 604.

SUMMITTED: December 13, 1960

Fig. 5:



Card 3/3

21754

18.1235 1496, 1454, also 1418

8/078/61/006/005/013/015
B121/B208

AUTHORS: Grigor'yev, A. T., Sokolovskaya, Ye. M., Nedunov, N. A.,
Maksimova, M. V., Sokolova, I. G., and Ye Yuy Pu

TITLE: Polymorphous conversion of chromium and the phase diagram of
the system chromium - nickel in the range of concentrated
chromium

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 5, 1961,
1248 - 1251

TEXT: The alloys of chromium with nickel were studied in the range of
concentrated chromium by microscopic, thermal and X-ray analyses. Ther-
mal analyses were made by recording the heating and cooling curves of the
alloys hardened at 1200°C by means of a WK-52 (PK-52) pyrometer.
The phase diagram of the system chromium - nickel in the range of concen-
trated chromium was drawn on the basis of microstructural and thermal anal-
yses; it is schematically presented in Fig. 1. Five homogeneous ranges
of the solid solutions of α , β , γ , δ , and ϵ modifications of chromium

Card 1/4

21754

S/078/61/006/005/013/015
B121/B208

Polymorphous conversion of ...

X-ray analysis indicated that the solid solution ϵ of the alloy with 17% nickel has a body-centered cube with $a = 2.879 - 3$ kX. In the alloy with 13% nickel, hardened at 1400°C, with the solid solution $\epsilon + \delta$ the hexagonal lattice of the solid solution of δ with the parameters $a = 2.514$ kX, $c = 6.445$ kX, and $\frac{c}{a} = 1.62$ was found in addition to the body-centered cube of the solid solution of ϵ . The alloys with the phases $\alpha + \beta$ and β have a face-centered cube. Alloys with 17% nickel, hardened at 900°C and more, have a face-centered cube. The results obtained are in good agreement with the data in Refs. 1 - 6 (Ref. 1: A. T. Grigor'yev, L. N. Guseva, Ye. M. Sokolovskaya, M. V. Maksimova. Zh. neorgan. khimii, 4, 2168 (1959). Ref. 2: A. T. Grigor'yev, Ye. M. Sokolovskaya, Yu. P. Simanov, I. G. Sokolova, V. N. Pavlov, M. V. Maksimova. Vesten. MGU, no. 4, seriya II, khimiya, 23 (1960). Ref. 3: A. T. Grigor'yev, Ye. M. Sokolovskaya, Yu. P. Simanov, I. G. Sokolova, M. V. Maksimova, L. I. Pyatigorskaya. Zh. neorgan. khimii, 5, 2136 (1960). Ref. 4: A. T. Grigor'yev, Ye. M. Sokolovskaya, M. V. Maksimova, I. G. Sokolova, N. A. Medumov. Zh. neorgan.

Card 2/4

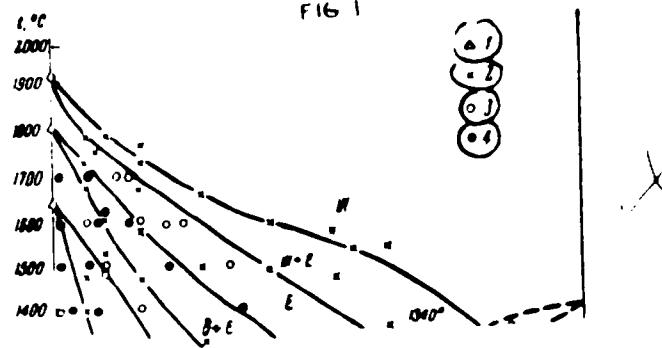
21754
S/078/61/006/005/013/015
B121/B208

Polymorphous conversion of ...

khimii, 5, 2640 (1960). Ref. 5: A. T. Grigor'yev, Ye Yuy Pu, Ye. M. Sokolovskaya. Zh. neorgan. khimii, 5, 2642 (1960). Ref. 6: A. T. Grigor'yev, Ye. M. Sokolovskaya, A. T. Nefedov, M. V. Maksimova. Vesten. MGU (in the press)). There are 2 figures, 1 table, and 14 references: 8 Soviet-bloc and 6 non-Soviet-bloc. The four most recent references to English-language publications read as follows: Ref. 7: M. Hansen, K. Anderko, Constitution of binary alloys, 1958; Ref. 8: D. S. Bloom, N. J. Grant, J. Metals, 3, 1009 (1951); Ref. 9: D. S. Bloom, J. W. Putman, N. J. Grant, J. Metals, 4, no. 6 (1952); Ref. 10: C. Stern, N. J. Grant, J. Metals, 7, 127 (1955).

SUBMITTED: December 8, 1960

Card 3/4



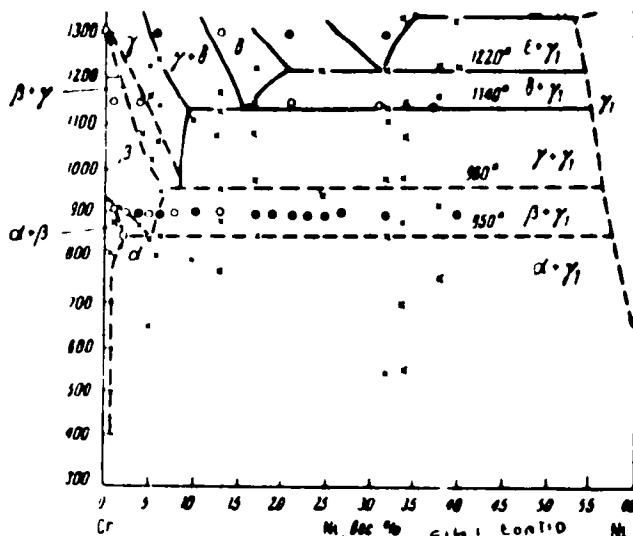
Polymorphous conversion of ...

Fig. 1. Phase diagram
of the system
chromium - nickel in
the range of concen-
trated chromium.

Legend:

- 1) polymorphous conversions;
- 2) thermal analysis;
- 3) one phase;
- 4) two phases

21754
S/078/61/006/005/013/015
B121/B208



Card 4/4

8/226/62/000/006/006/016
E193/E383

AUTHORS: Fedorov, T.P., Nedumov, N.A., Polyakova, M.D. and
Shampay, F.I.

TITLE: Some data on the ternary titanium-boron-chromium
system

PERIODICAL: Poroshkovaya metalurgiya, no. 6, 1962, 42 - 49

TEXT: The object of the present investigation was to study the constituents of the Cr-B and Ti-B-Cr systems. In the first stage of the investigation, thermal and metallographic analysis as well as hardness and microhardness measurements, conducted on Cr-B alloys with up to 40 at.% B, cooled slowly to room temperature or quenched from 1450 °C, were used to construct the Cr end of the constitution diagram of the Cr-B system. In the second stage, the same experimental technique and, in some cases, X-ray diffraction analysis, were used to study the Ti-B-Cr system. The experimental alloys included the following: some binary Ti-B, B-Cr and Ti-Cr alloys; alloys of the pseudo-binary TiB_2 -CrB, TiB_2 -Cr B_2 , $TiCr_2$ -CrB, $Ti-CrB_2$, $Ti-Cr_5B_3$ and Cr- TiB_2 systems;

Card 1/2

Some data on

S/226/62/000/006/006/016
E193/E383

alloys defined by sections parallel to the Cr-B side of the ternary system at 3, 10, 15, 25, 35 and 45% Ti. The results obtained were insufficient to construct a complete constitution diagram of the system studied. It was established, however, that the single-phase fields constituted only a small proportion of the isothermal section of the system at room temperature. These fields correspond to solid solutions based on Ti, Cr and B and on some binary and, possibly, ternary intermetallic compounds. In addition, TiB_2 and CrB_2 form a continuous series of solid solutions. There are 7 figures.

ASSOCIATION: Institut metallurgii im. A.A. Baykova AN SSSR
(Institute of Metallurgy im. A.A. Baykov, AS USSR)

SUBMITTED: April 14, 1962

Card 2/2

NEDUHOV, N.A.

ADD MR. NEUDOV 21 JUNE

TIC_n-MC_n, SYSTEM (USER)

Neudov, L. I., M. I. Shakhov, P. B. Dubrov, and N. A. Neudov - IN:
Aeronautics name given. Doklady, v. 148, no. 6, 21 April 1963, 1349-1352.

5/22/63/146/006/017/027

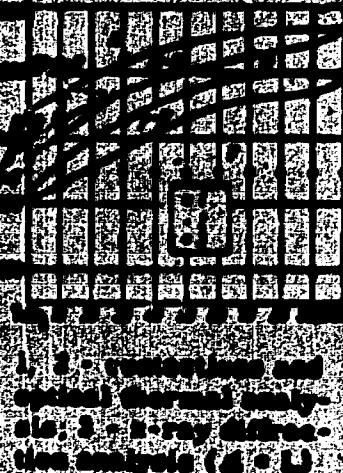
The TIC_n-MC_n system along with G to MC_n TIC_n have been studied at the Institute of Mathematics under A. A. Dorogov, Academy of Sciences USSR. From

Card 2/3

AID NO. 995-10 21 June

[REDACTED] [REDACTED] [REDACTED]

8/02/69/249/006/017/027



The results of the thermal and x-ray diffraction experiments, the lattice diagram (see illus.) and plot of the system was plotted. Over the entire composition range, $TiCr_3$ and $TiCr_2$ form a continuous series of solid solutions not only between the high-temperature phases δ and γ , but also between the intermediate phases β and γ . The γ - δ transformation temperatures for $TiCr_3$ and $TiCr_2$ were determined at $1230 \pm 10^{\circ}C$ and $1160 \pm 10^{\circ}C$, respectively. On the $TiCr_3$ side the β , $\beta + \delta$, $\delta + \gamma$, and $\delta + \delta + L$ regions are present, since the $TiCr_3$ compound in the binary $Ti-Cr$ system is formed from a solid solution with a bcc lattice (the δ phase). X-ray diffraction patterns of alloy samples annealed from $1500^{\circ}C$ showed that at

End 8/3

AB 1977-30 21 June

2023/24/03/21/07

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Class 2/3

SD(1)-2/AUD(1)-3/AED(1)-3/ATTTR/ RARM(4)	JD/JG
ACCESSION NO.: A402906	5/0078/64/009/004/083/0889
NAME: SOKOLOVSKAYA, YE. N.; ORLOV-YEV, A. T.; SOKOLOVA, I.G.	15
ABSTRACT: The V-Ta system was studied in view of incomplete and contradictory state of the literature. Some 39 alloys containing 0-100% tantalum were subjected to microscopic, thermal and x-ray diffraction analyses, and determinations of hardness, microhardness, specific electric resistance and of the temperature coefficient of electric resistance were made. The phase diagram (Fig. 1) shows that at temperatures above 1300°C the alloys of the V-Ta system form a	
care 1/67	

L 24484.65

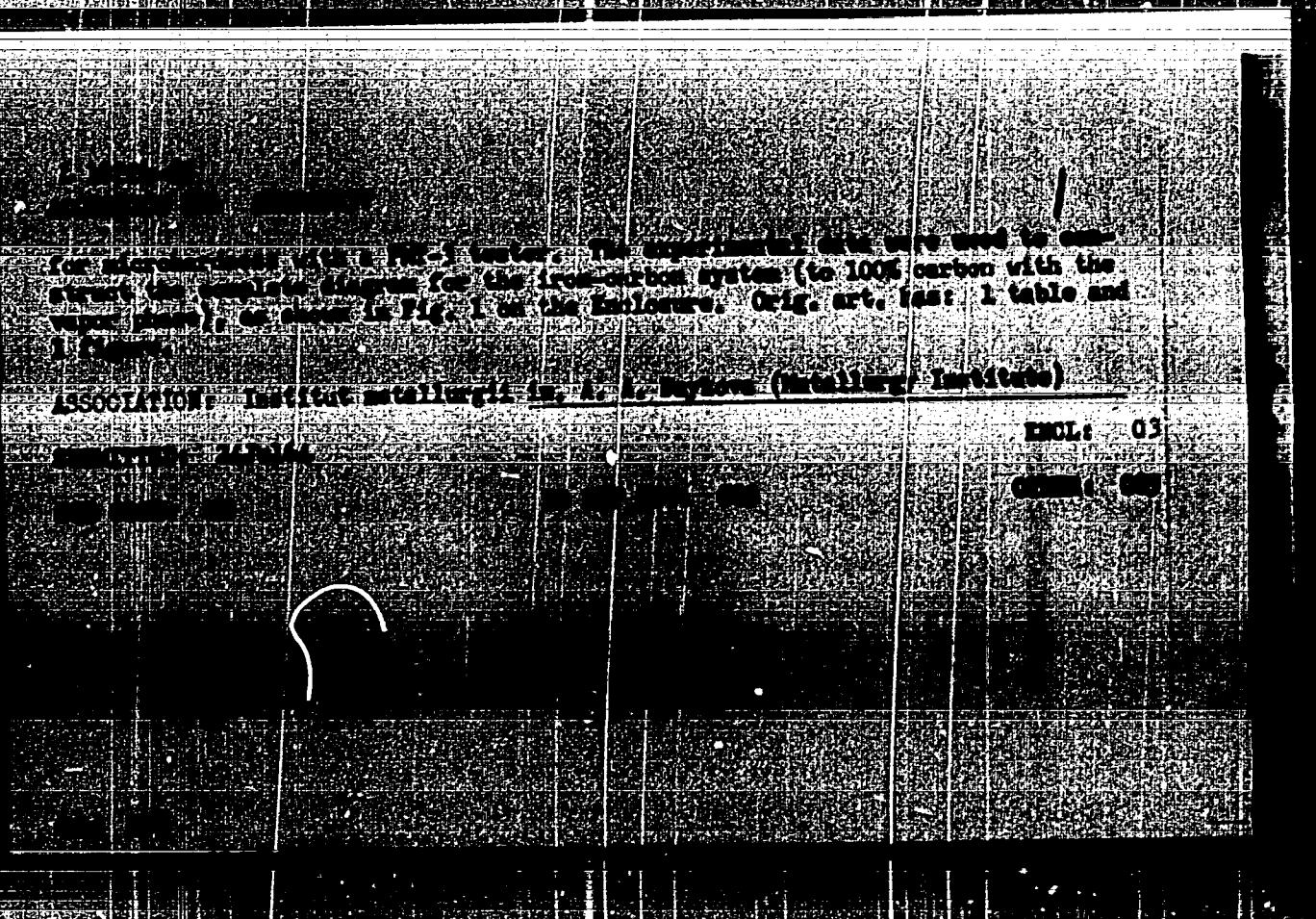
ACCESSION NR: A14029183

continuous series of solid solutions. At 1300 ± 100 V-Ta intermetallic compound is formed; at 900°C its area of homogeneity extends from 32-39 at% Ta. At 900°C the two-phase area (α + V_2Ta , V_2Ta + β) extends from 9-52 at%; at 1250°C this area is reduced to 15-45 at% Ta. The curves of the composition dependence of hardness and specific electric resistance and its temperature dependence show a smooth change within the regions of solid solutions and

having a continuous interface, with parameters $a = 5.951$ Å, $b = 0.4702$, and $n = 4$.
orig. date: Sept. 5, 1968.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

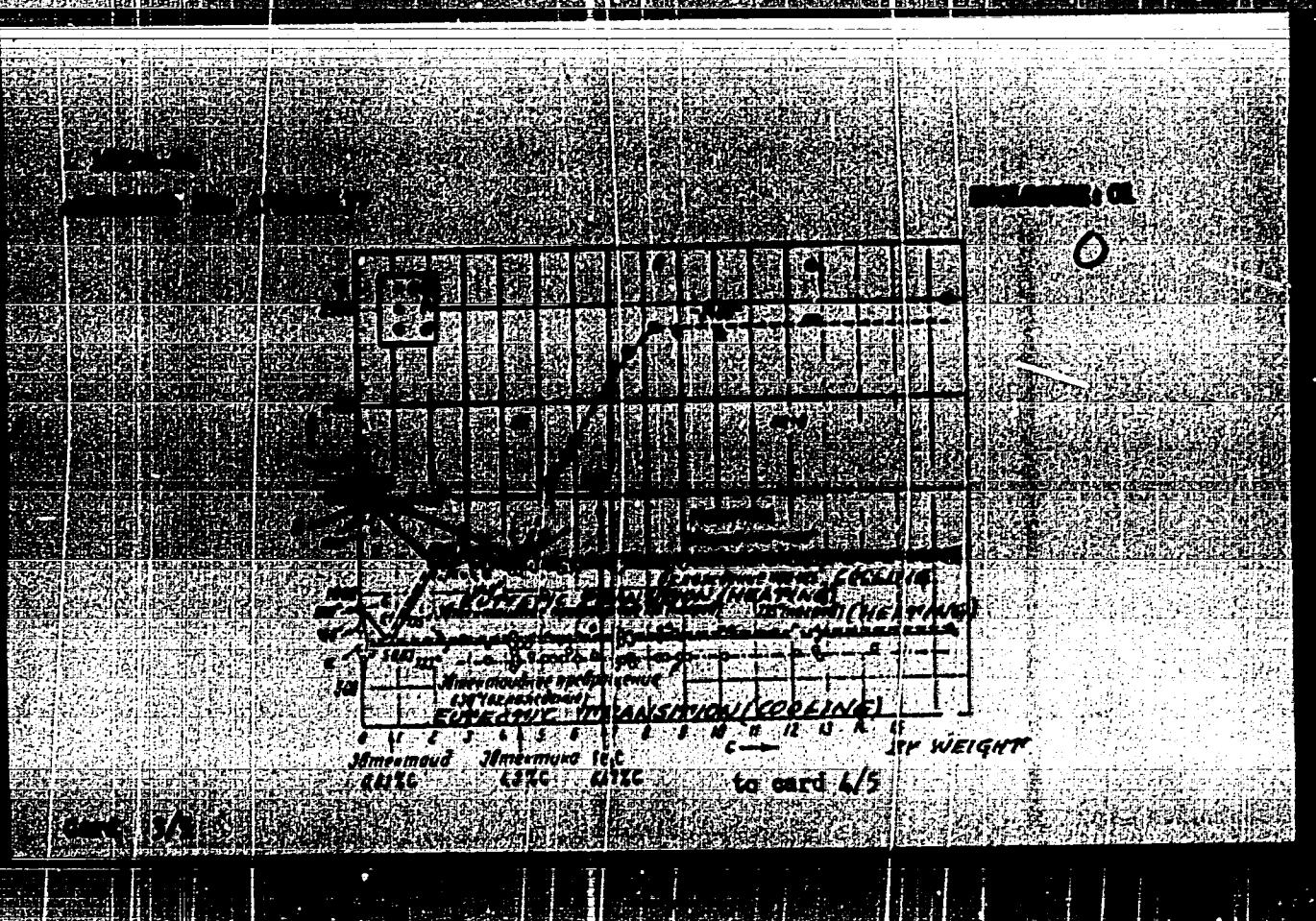


APPROVED FOR RELEASE: Wednesday, June 21, 2000

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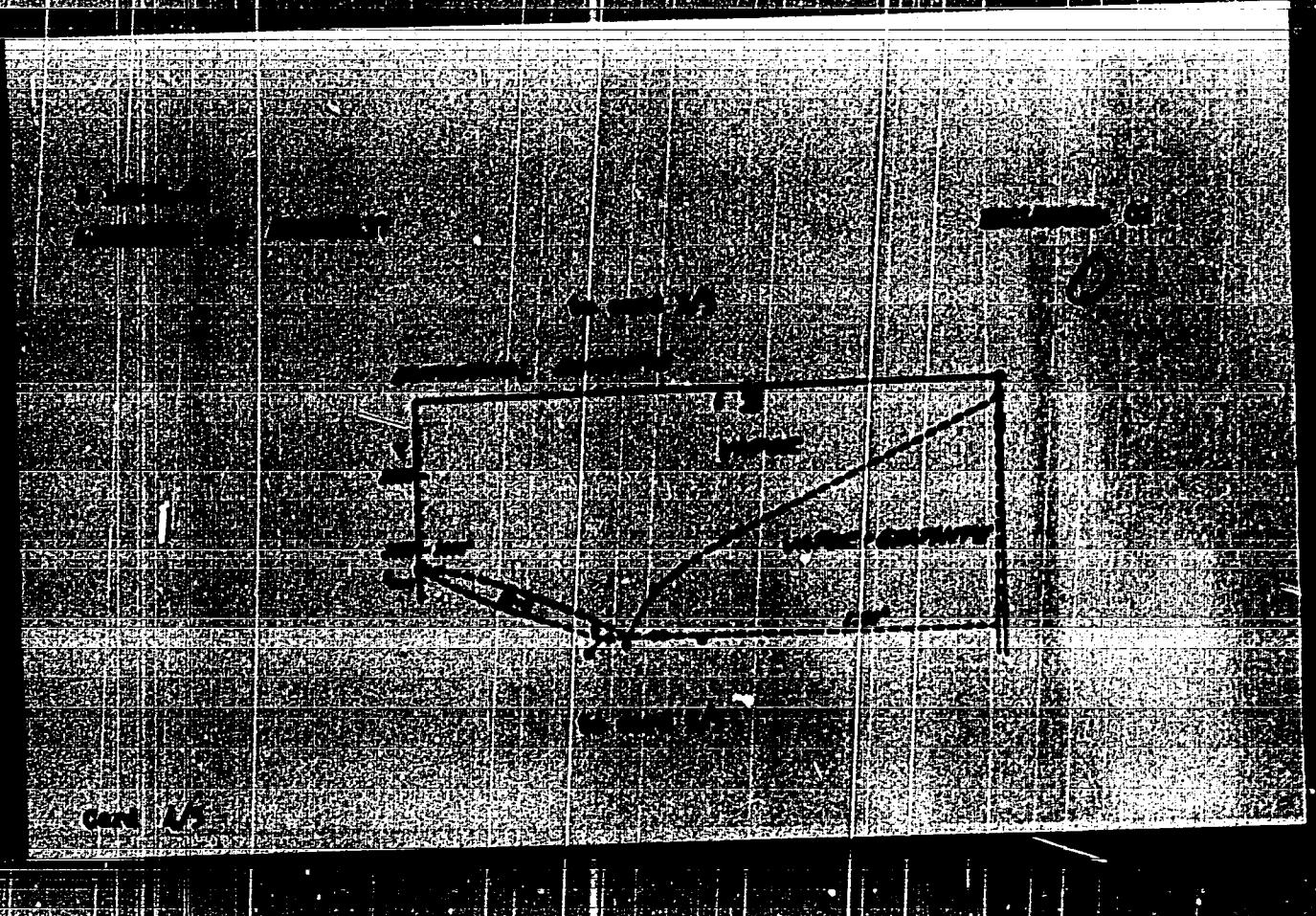


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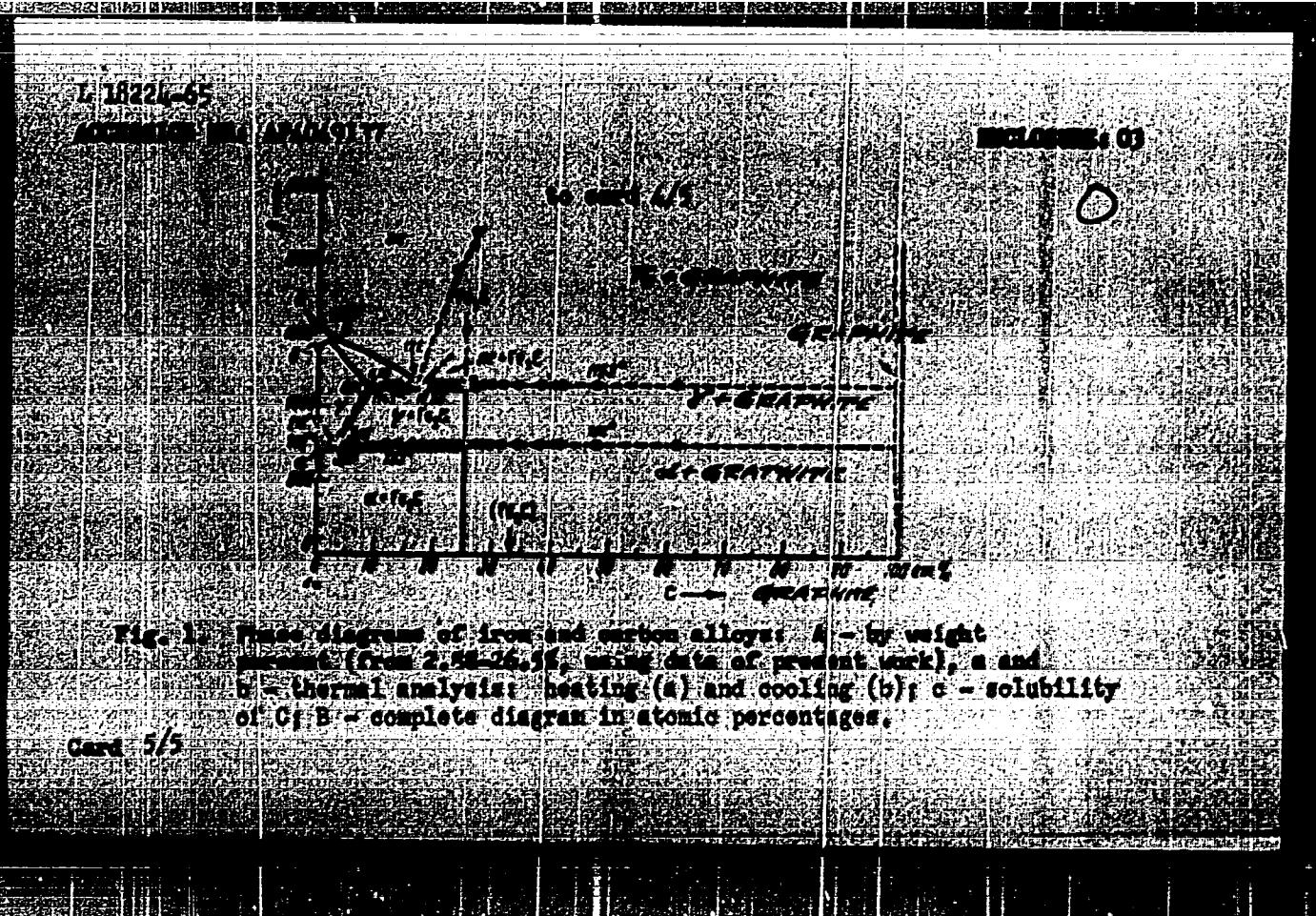
"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136



ACCESSION NR:	AP3017209	REF ID:	UR/0020/65/162/106/1304/1305	37 26 B
AUTHOR:	Vartman, A. A.; Grigorovich, V. K.; Rodimov, I. A.; Semarin, A. M.			
TITLE:	A study of the systems cobalt - carbon and nickel - carbon			
SOURCE:	AN SSSR, Doklady, v. 162, no. 6, 1965, 1304-1305			
TOPIC CODE:	cobalt alloy, nickel alloy, carbon alloy, carbide formation, phase			
<p>Abstract: A study was made of the systems cobalt - carbon and nickel - carbon. Cobalt and saturated with carbon in crucibles or pure graphite under isothermal conditions. The structure of the alloys and their phase composition were studied by examining the microstructure and measuring the microscopic hardness of the structure components. The temperature of the phase transformations was determined by thermal analysis. A eutectic consisting of graphite and a solid solution of carbon in cobalt is formed at 12 at.% C and 1120°C; the eutectic horizontal was traced up to 57.1 at.% C. Quenching of the alloy in water from the liquid state freezes a carbide eutectic consisting of Co_3C and a solid solution of carbon in cobalt. The latter is unstable and decomposes on heating to 300-350°C, and for</p>				
Code:	1/2			

VOLUME NUMBER: AFSQ17207

For this reason the system Co - Co₃C is highly metastable. The system Ni - C was studied up to 69.2 at.% C. It shows the presence of a eutectic horizontal up to 69.2 at.% C. In quenched alloys, the eutectic Ni - Ni₃C is present which converts into a graphite eutectic on heating. The carbides Co₃C and Ni₃C are less stable than Ni₃C and decompose even in the solid state. For this reason, they cannot exist in alloys rich in carbon. Phase diagrams of the Co - C and Ni - C systems were plotted. Only exact base 2 figures and 1 tables.

ASSOCIATION: Institut metalurgii im. A. A. Meykova (Institute of Metallurgy)

SUBMITTING: 07 Jan 65

ENCL: 00

SUB CODE: SS, MM

NO. THIS NO. 002

OTHERS: 000

Card No.: 212

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

HERTMAN, A.A., THEOKOMI, A.S., N.Y. M.Y., N.Y. (AMERICAN)

Hyperneutectic test, 100% success rate. 100% success.
Int. protzy, no. 247, 1978.

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

ACC NR:
AT7004215

SOURCE CODE: UR/0000/66/000/W/ . . /000.

AUTHOR: Nedumov, N. A.

ORG: none

TITLE: Application of a high-temperature, contactless, thermographic method to the study of metals and alloys

SOURCE: Akademiya Nauk SSSR. Institut metallurgii. Eksperimental'naya tekhnika i metody vysokotemperaturnykh izmereniy (Experimental techniques and methods of high temperature measurement). Moscow, Izd-vo Nauka, 1966, 223-233

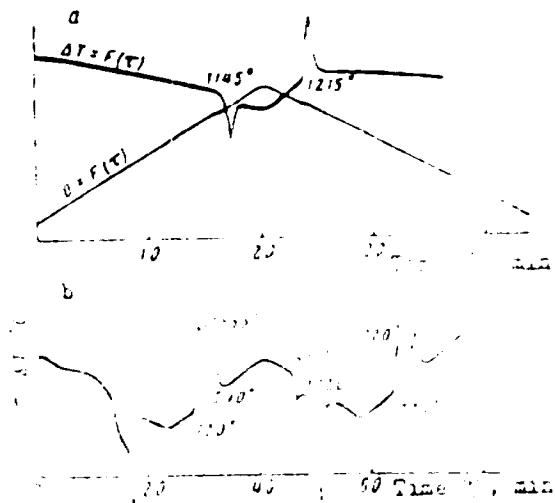
TOPIC TAGS: metallurgic research, alloy phase diagram, metal phase system, copper, nickel

ABSTRACT: The application of a high-temperature, contactless, thermographic method to the study of metals and alloys was investigated. This method was developed by N. A. Nedumov (Zhurn. fiz. khim., 1960, 134, No. 1). The melting points and transition points of some forty metals and alloys were determined by the thermographic method and were compared with existing literature data. The results are tabulated, and it was found that the experimental results are in good agreement with the literature data. The thermograms of Cu-Ni alloy and the intermetallic compound NbCr₂ were also investigated; the results are shown graphically (see Fig. 1). The phase diagram Fe-Cr was investigated and is also presented. It is concluded that the thermographic method is rapid, accurate,

Card 1/2

ACC NR: AF7004215

Fig. 1. Thermograms of copper-nickel alloy with 23 wt. % Ni (a), and intermetallic compound NbCr_2 (b)



and well suited for the determination of high-temperature phase changes in Cu-Ni alloys. Orig. art. has: 2 tables, 5 graphs, and 2 equations.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 016/ CTI REF: 607
13/

Card 2/2

NEDUMOV, N. V., Cand Tech Sci — (diss) "Sergi [unclear] of trapezoidal-shaped
plates for entire-contour emplacement" [unclear]
(Min of Higher Education USSR, Mos Order of Lenin Aviation Inst im
Sergo Ordzhonikidze), 110 copies (KL, 15-58, 115)

- 40 -

MEDUMOV, N.V., inzh.

Designing isosceles-tapered plates. Izv.vys.ncheb.zav.;
mashinostr. no.6:54-61 '58. (MIRA 12:8)

1. Moskovskiy aviationsionnyy institut.
(Elastic plates and shells)

UNIV, I.V., Land Tech Sci — (distr) "Design
temperature filter
in the form of a ~~trapezum with~~ sealing along the entire outer."

Mos, 1959. 7 pp (Min of Higher Education USSR. Kos Order of
Lenin Aviation Inst~~ute~~ im/ Sargor Ordzhonikidze). 160 copies
(KL,39-59, 104)

✓ ✓

SEGUINOV, N.V., insh.

Design of thin trapezoidal plates fixed along the perimeter. Rasch.
na prochn. no.5:109-145 '60. (XIRA 13:7)
(Elastic plates and shells)

NEDUMOV, Nikolay Vasil'yevich; TIKHOMIROV, Ye.N., prof., retsenzent;
CHERWYSHEV, N.A., dots., retsenzent; SIMAKINA, I.L., red.;
BARANOVSKAYA, K.P., tekhn. red.

[Design of statically determined frames] Rechchet sta-
ticheski opredelennykh ram. Moskva, Aviatsionnyi in-t
im. Sergo Ordzhonikidze, 1962. 112 p. (MIRA 16:4)
(Structural frames)

PHASE I BOOK EXPLOITATION

sov/6523

Nedunov, Nikolay Vasil'yevich

Raschet staticheski opredel'emykh ram (Design of Statically Determinate Frames). Moscow, 1962. 112 p. 1000 copies printed.

Sponsoring Agency: Ministerstvo vyshego i srednego spetsial'nogo obrazovaniya RSPSR. Moskovskiy ordena Lenina Aviatsionnyy institut imeni Sergo Ordzhonikidze.

Reviewers: K. N. Tikhomirov, Professor and N. A. Chernyshev, Docent; Ed. r. I. L. Simakina; Tech. Ed.: K. P. Baranovskaya; Managing Ed.: P. G. Popov.

PURPOSE: This book is intended as an auxiliary textbook for students majoring in structural mechanics and the strength of materials at higher technical schools; it may also be used as a manual for students in a correspondence course.

Card 1/3

Design of Statically Determinate Frames**SOV/6523**

COVERAGE: The textbook deals with the material covered in a division of the course in the strength of materials given at higher technical schools and at the Moscow Aviation Institute. The theoretical aspects of stress analysis are discussed, and many examples of the calculation of stresses in plane and three-dimensional frames are given.

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4. Closed contours with hinges	40
5. Potential energy of deformation	50

Card 2/3

Design of Statically Determinate Frames**207/6583**

6. Determination of displacements	55
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Ch. II. Three-Dimensional Frames

1. Principal concepts	80
2. Determination of internal forces and moments	83
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4. Determination of displacements	108

AVAILABLE: Library of Congress**SUBJECT: Strength of Materials****Card 3/3****3-30-64
GW/PBM/ef**

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

NEI DMCV, N.V., kand.techn.nauk

Stability of compressed beams containing stiffened
elements. Russch.na prochn. no.11:201-337 1959.

(SIFRA 19:1)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

NEDUMOV, P. N.

TITLE: Seminar on refractory metals, compounds, and alloys (Sov. April 1962).

SOURCE: Atomnaya energiya, v. 15, no. 3, 1963, p. 2-17.

ACCESSION NR: AP3008085

P. A. Nedumov, V. K. Grigorovich. Use of the tungsten resistance thermometer for contactless thermal analysis at temperatures up to 2500C.

Yu. A. Silonov. Unit for determining the evaporation rate of Ta and W on a microbalance for continuous weighing in vacuum.

V. V. Fesenko, S. P. Gordiyenko. Investigation of the composition of evaporation products by the mass-spectrometry method.

V. V. Fesenko, A. S. Bolgar. Evaporation rates and thermodynamic properties of Ti, Zr, Hf, Nb, and Ta monocarbides.

G. S. Pisarenko and others. Mechanical properties of refractory materials in the 20-3000C range.

V. I. Iverson, D. N. Eyduk. Laws governing deformations.

L. Kh. Pivovarov, A. V. Varaksina. The effect of bonding phase

Card 8/11

~~NAZUMOV, S., sekretar'.~~

Raise the level of work of trade-union organizations in the
fishing industry. Sov. profsoiuzy 1 no.2:56-59 O '53.
(MLRA 6:12)

1. Astrakhanskiy oblastnyy sovet professional'nykh soyuzov.
(Fisheries)

ZEL'VENSKIY, Ye.D.; NEDUMOVA, Ye.S.; PROKOPETS, V.Ye.

Production of hydrogen sulfide by the catalytic hydrogenation of
sulfur. Khim. prom. no. 2:77-84 P '61. (MIRA 14:4)
(Hydrogen sulfide) (Sulfur)

NEJUMOVA, Ye.S.; BORESKOV, G.K.; SLIN'KO, M.G.

Kinetics of isotope exchange between hydrogen and water vapors on nickel catalysts. Part 1: Effect of transport processes on the reaction rate. Kin. i kat. 6 no.1:65-73
Ja-F '65. (MIRA 18:6)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni
Mendelejeva i Institut kataliza Sibirsogo otdeleniya
AN SSSR.

NEDUR, A.

Rotors replace wings. p. 26

ČESKOSLOVENSKÝ VOJAK. Praha, Czechoslovakia, Vol. 8, no. 15, July 1957

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

NEDUSHOV, I.B.

Effect of tectonics on the formation of rare-metal pegmatites.
Trudy IMGRE no.5:80-98 '61. (MIRA 15:7)
(Pegmatites) (Geology, Structural)

NEDUZHEGO, I. A. and DERTKOT, L. Z. (Kiev Institute of the Institute of High Temperature)
"Results of investigation of thermal capacity of filter materials obtained from
natural basaltic glass."

Report presented at the Section on Thermal-physical Properties and Resistivity
Thermal Capacity, Scientific Session, Council of Acad. Sci. UkrSSR on High Temperature
Physics, Kiev, 24 Apr. 1971.

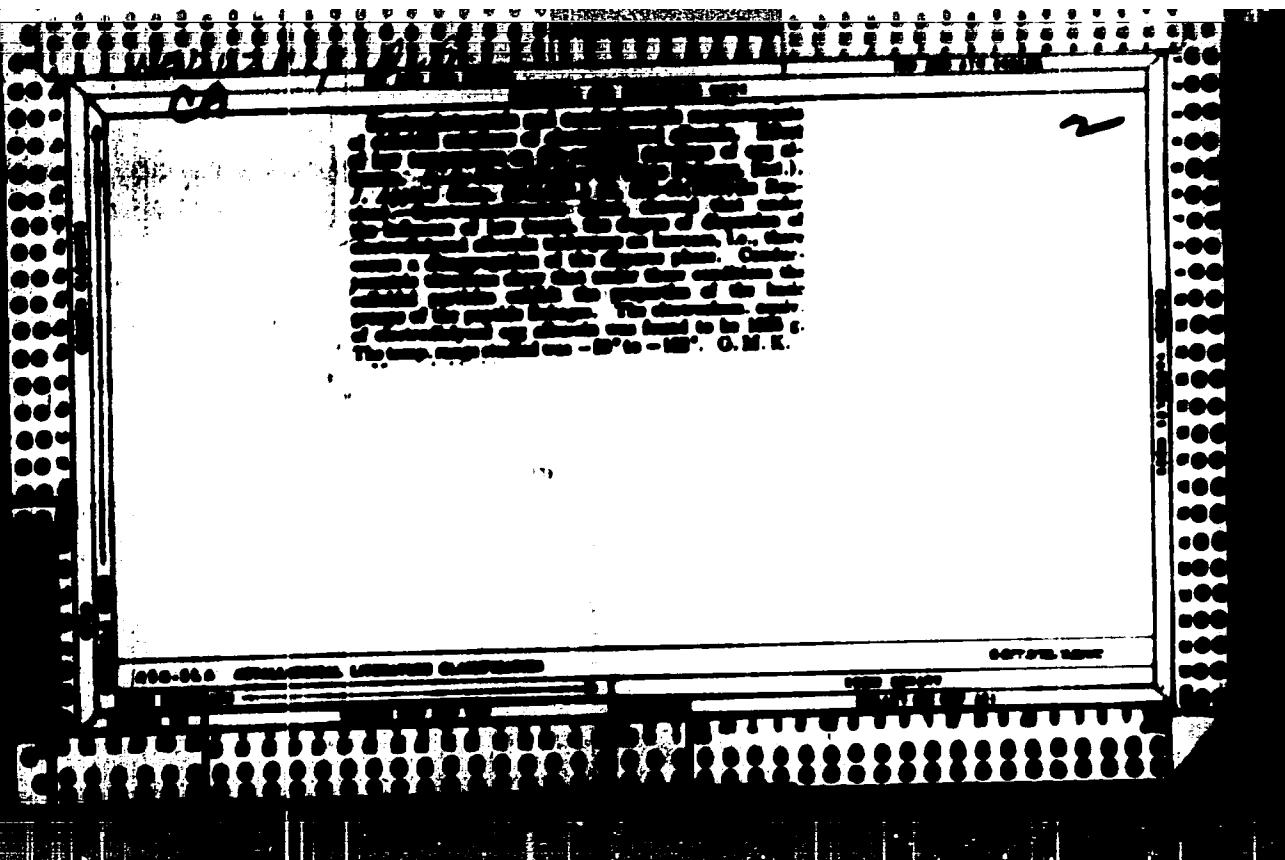
Reported in Teplofizika Vysokikh Temperatur, No. 1, 1971, p. 101, EEC, 1971.
1 May 1974.

NEDUMOVA, Ye.S.; BORESKOV, G.K.; SLIN'KO, M.G.

Kinetics of isotope exchange between hydrogen and water vapors over nickel catalysts. Part 2: Effect of pressure on the reaction rate in the range of internal diffusion. Kin. i kat. 6 no.2:360-363 Mr-Ap '65. (MIRA 18:7)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni Mendeleyeva i Institut kataliza Sibirskogo otdeleniya AN SSSR.

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CA MEDJZHIV A. A.

2

In memory of S. I. D'yachkovskii, A. A. Nedzvetskii
Kol'ko Zher. 13, 229(1980). —D. (1904-1989) was profes-
sor at the University of Gomel'. —I. I. Blitman

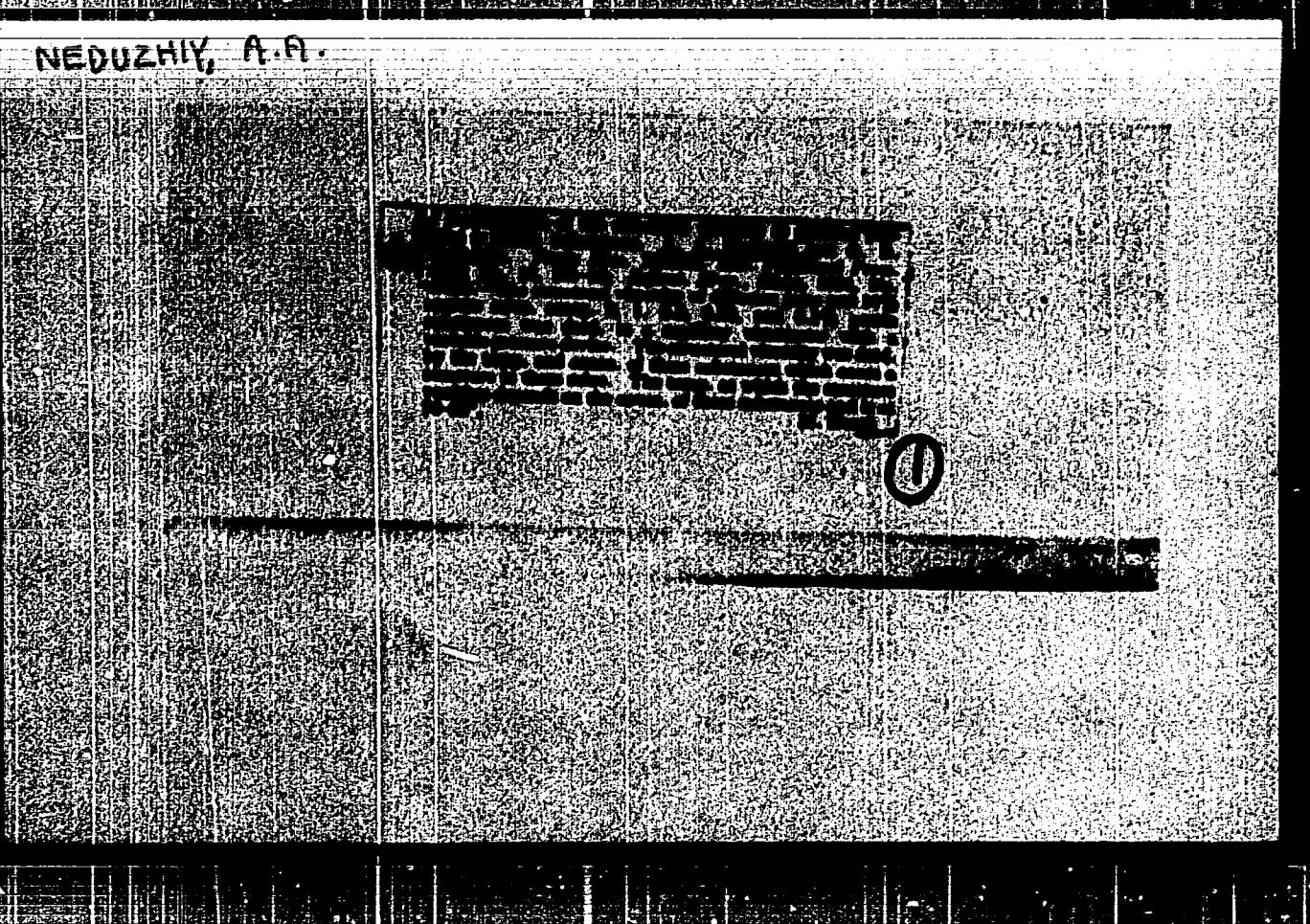
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CIA-RDP86-00513R001136

NEDUZHIIY, A.A.



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

KEDUZHIIY, A.A.; KURILENKO, O.D.

Structure forming process in starch glues. Trudy KTIPP no.19:119-122
'58. (Glue) (Starch)

(MIRA 12:12)

KURILENKO, O.D.; KABAN, A.P.; NEDUZHIY, A.A.

Investigation of the rheological properties of paste-yielding starch, amylose, and amylopectin solutions. Izv.vys.ucheb.zav.; pishch.tekh. 1:12-16 '61. (MIRA 14:3)

1. Kyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
Kafedra fizicheskoy i kolloidnoy khimii.
(Starch) (Amylose) (Amylopectin)

Negligible, 10

Journal of Heat and Combustion, No. 1, 1977, p. 10.

Ref. ZA, 1988, 1990.

In the field of work done on the investigation of turbulent flow and ejection, author makes certain statements which are basically of a qualitative nature, of the choice of dimensions of the mixing chamber and burner head, and also of the working conditions of atmospheric burners; in which mixing of the burning gas and air occurs partly in the burner (primary air) and partly in the combustion process (secondary air).

L. A. Klyachko, USSR

Courtesy of Referatnyi Zhurnal

Translation, courtesy Ministry of Supply, Canada.

SHVETS, Ivan Profimovich, prof.; KONDAK, Mikhail Andrianovich, prof.; KIRAKOVSKIY, Nikolay Feliksovich, dotsent; MEDUZHII, Ivan Afanas'yevich, dotsent; SHIVTSOV, Dmitriy Semenovich, dotsent; SHIL'DIKO, Ivan Mikhaylovich, dotsent; PETREKO, S.I., dotsent, kand.tekhn.nauk, retsentsent; SHUDYUKOV, P.T., inzh., red.; OVIASHCHERKO, N.P., inzh., red.; OREHOMATPOL'SKAYA, N.S., tekhn.red.

[Heat engineering] Osnovchesia teplotekhnika. Moskva, Gos.spravochno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 459 p.

(MIRA 14:3)

(Heat engineering)

37548

S/124/62/000/005/018/048
D251/2308

26.2131

AUTHOR: Neduzhiy, I.A., and Labinov, S.D.

TITLE: Some singularities of the action of stream atomizers

PERIODICAL: Referativnyj zhurnal. Mekhanika, no. 5, 1962, 41,
abstract, 53244 (Izv. Kiyevsk. politekhn. in-ta, 1960,
v. 30, 188 - 192)

TEXT: It is remarked that the simplified presentation of the action of a stream atomizer (pulverizer) given in physics courses is incorrect. In particular, it is remarked that the application of Bernouilli's equation in the given case, in the sense that with the increase of the current velocity the pressure in it falls and under certain definite circumstances may become less than atmospheric, is not permissible, since the static pressure in a sub-sonic stream flowing in the atmosphere cannot be less than atmospheric. A physical model is presented for the action of a stream atomizer which elucidates the case of the rise of rarefaction on the face of a tube situated in an atmospheric sub-sonic current in a direction perpendicular to the direction of the current. Hence the analogy

Card 1/2

Some singularities of the action ...

S/124/62/000/005/018/048
D251/D308

is studied with well-known phenomena of the flow of a sub-sonic current of a viscous liquid around a circular cylinder. In the author's opinion, after placing the ejected tube into the free stream local rarefactions occur on its surface. After consideration of this rarefaction, the ejected material comes into a vortex zone which is displaced with the current and carried by the stream. With the aim of deciding the question of the optimum position of a tube within a free stream, special experimental investigations were conducted. A plane nozzle with dimensions 27 x 43 mm was studied as the ejector. The velocity of the current could reach 60 m/sec. The pressure on the face of the tube was determined, and also the output of the atomizer in dependence on the position of the face of the tube in relation to the axis of the nozzle. It was shown that maximum rarefaction and maximum output occur, in the case when the face of the tube lies in the region of the central part of the ejecting stream. [Abstractor's note: Complete translation].

Card 2/2

ALABOVSKIY, A.N.; NEDUTHIY, I.A.; PILIPKO, N.K.

Experiment 1 investigation of the injection devices of gas
burners. Gaz. prom. 6 no.9:13-17 '61. (MIRA 14:12)
(Gas burners)

SHVETS, Ivan Trofimovich, prof.; TOLUBINSKIY, Vsevolod Ivanovich,
prof.; KIRAKOVSKIY, Nikolay Feliksovich, doc.; NEMZETI,
Ivan Afanas'yevich, doc.; SHEDOVSKIY, Ivan Mikhailevich,
doc.; VOZNESENSKIY, A.A., prof., retsentent; LABUTIN, A.A.,
spets. red.; BALYASNAYA, A.Ye., red.

[General heat engineering] Osnovnaya teplotekhnika. [By]
I.T. Shvets i dr. Kiev, Izd-vo Kievskogo univ., 1963. 562 p.
Mika 1":10)

SOV/112-58-2-3426

Translation from: Referativnyy zhurnal. Elektrotekhnika. 1958. Nr 2. p 250 (USSR)

AUTHOR: Abramova, T. V., Gizetulov, V. A., and Nedashiy, S. A.

TITLE: Cable Lead-Sheath Fault Localization by Radon (Opredeleniye mesta povrezhdeniya svintsovoy obolochki kabelya s pomoshch'yu radona)

PERIODICAL: Tr. Sektsii provodn. svyazi, Ukr. resp. pravl. Nauchno-tehnicheskogo radiotekhn. i elektrosvyazi 1956, Nr 2, pp 64-70

ABSTRACT: The Kiev branch office of TsNIIS is developing a method of localizing cable lead-sheath faults by means of the radioactive inert gas radon. Experiments staged by the authors permit drawing the following conclusions: (1) In order to precisely localize the cable sheath fault, the shortest possible fault containing segment should be determined by a manometric or electric-signaling method. (2) The rate of radon flow in a 3x4x1.2 cable, at an air pressure of 1 atm, lies within 1-1.2 km/hour. (3) Radon diffusion to the surface of the ground in a sandy soil from a depth 1.2 m, with an average leakage of 6.47 mm², takes 1.5-2 hours. (4) Radon can be detected on the surface by radiometric

* Type MKB

Card 1/2

SOV/112-58-2-3426

Cable Lead Sheath Fault Localization by Radon

devices responding to α , β - γ radiation; the radioactivity covers a small spot with a radius of 0.6-0.8 m and with a maximum in the center of the spot.

(5) The radiation maximum of the diffused radon can be displaced to one or the other side by not more than 1-2 m. (6) Soil temperature and moisture do not materially affect the radon diffusion under winter or summer conditions.

(7) The detection of a leakage spot in a cable sheathing by means of radon is practically possible. Attention is called to the necessity of precautions in handling radon.

S. I. Kh.

Card 2/2

CABLE

"Determination of Leak in Cable Sheath with the Aid of Radioactive Gases" by T. V. Abramova, V. A. Gizetulov and S. A. Neduzhiy, Engineers, Junior Scientists of the Cable Division, Scientific Research Institute for Communication. *Vestnik Svyazi*, No 12, December 1957, p. 4.

Description of a method that permits determination of leakage in a cable with an accuracy to within 50 meters. The radioactive gas usually employed is radon and methyl bromide. A gamma counter is used as a detector.

From Dept. Int. R. C. & Com. Institutions.

Card: 1/1

S/194/61/000/007/046/079
D201/D305

AUTHOR: Neduzhiy, S.A.

TITLE: The use of ultrasound in the process of preparing photo-emulsion

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 14, abstract 7 E88 (Tr. Vses. n.-i. kinofotoin-ta, 1959, no. 28, 133-147)

TEXT: A survey is given of works considering the effect of ultrasound oscillations in the frequency range 100 kc/s - 2 Mc/s on the process of preparing the photo-emulsion Φ (P) and also of works concerned with the showing of a sudden picture under the influence of ultrasonic fields and of mechanical pressure. The transmitter used by various authors were piezoelectric transducers made of quartz or barium titanate ceramics, operating from 300 W to 2 kW generators. The ultrasonic oscillations may be applied during either the whole process of P preparation or in its separate stages

Card 1/2

The use of ultrasound...

S/194/61/000/007/046/079
D201/D305

such as emulsification, first or second stage of maturing and peptization. The effect of ultrasonic oscillations may result in increased definition properties of F. This effect may be explained by dispersion properties of US, thermal US effect and by micro mixing in the US field. It has been found that at a greater than optimum US intensity and at mechanical pressures of the order of 1000 - 1500 kg/cm² a hidden picture is being reproduced in F. 22 references. [Abstracter's note: Complete translation]

Card 2/2

S/081/61/000/C-1/013/040
B105/B203

AUTHOR: Nedushny, S. A.

TITLE: Study of the emulsification mechanism based on the effect of ultrasonication

PERIODICAL: Referativnyy zhurnal Khimiya prirodnykh i sintezirovannykh elementov (Tr. Vses. nauch.-tekhn. konf. po khimii elementov), 1974, No. 1.

TEXT: The author studied the mechanism of formation of emulsions under the action of standing ultrasonic waves with a frequency of 20 kHz, set up in the system diethyl phthalate - water. The rate of formation of E depends on the intensity of irradiation. The concentration of the emulsion E grows up to a certain limit, with the time of irradiation; the maximum concentration however, increases with increasing wave intensity.
[Abstracted from: Complete translation.]

Card 1/1

NEDUZHIIY, S.A.

Dependence of the process of emulsification on the intensity of
ultrasound. Akust. zhur. 7 no.1:99-100 '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut,
Moskva.

(Ultrasonic waves)
(Emulsions)

XEDUZHIIY, S.A.

Effect of the ultrasonic wave intensity on the state of a dispersed phase at the instant of emulsification. Akust. zhur. 7 no.2:265-266 '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut, Moskva. (Ultrasonic waves—Industrial applications) (Emulsions)

NEDUZHIY, S.A.

Study of the emulsification process induced by sonic and
ultrasonic vibrations. Akust. zhur. 7 no.3:295-294 '61. MIA 14:9

1. Nauchno-issledovatel'skiy kinofotoinstitut, Moskva.
(Sound waves--Industrial applications)
(Emulsions)

NEDUZHIY, S.A.

Some particular features of emulsion formation induced by
ultrasonic waves [with summary in English]. Koll.zhur. 23
no.4:442-453 Jl-Ag '61. (MIRA 14:8)

1. Nauchno-issledovatel'skiy kinofotoinstitut, Laboratoriya
akustiki, Moskva.
(emulsions) (ultrasonic waves)

NEDUZHIIY, S.A.

Formation of emulsions as dependent on ultrasonic intensity. Akust.
shur. 9 no.1:125-126 '63. (MIRA 16:5)

1. Vsesoyusnyy kino-fotoinstitut, Moscow.
(Emulsions) (Ultrasonic waves)

MEZUZHII, S.A.

Effect of ultrasonic frequency on the composition of the
disperse phase of an emulsion at the moment of emulsification.
Akust. zhur. 9 no.2:241-243 '63. (NIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut,
Moskva.
(Ultrasonic waves) (Emulsions)

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- Microfilm - 1 copy

NEDUZHIY, S.A.

Relation between the nephelometer readings and the absolute values of the concentration of highly disperse emulsions with high uniformity of disperse phase particles. Koll. zhur. 26 no.4:524-526 Jl-Ag '64. (MIRA 17:9)

1. Nauchno-issledovatel'skiy kinofotoinstitut, Moskva.

NEDUZHKO, M. I.

PA 26/49T32

~~Engineering~~
Engineering
Furnaces, Blast

Aug 48

"Assembling a Welded Blast Furnace Having a Capacity of 1,300 Metric Tons," M. I. Neduzhko, 38 pp

"Stroitel' Prom" No 8

Subject blast furnace, installed at Zaporozhstal Factory, was damaged by the Germans. Describes measures employed by Stalmontashtrast in repairing the furnace in 1948. Several photographs show various stages in the reconstruction procedure.

26/49T32

KOSHELYUK, Ye.O.; YEMEZHO, N.Ya., dorozhnyy master (stantsiya Zhechepilovka, Stalinskoy dorogi); YEDOROV, M.I., dorozhnyy master (stantsiya Kakhovka, Stalinskoy dorogi); GUTYAK, A.M., insh.; KOREN', P.T., putevoy obkhodchik (Vil'nyus); ORISHAZKOV, V.O., putevoy obkhodchik (Vil'nyus); KURSHNEVA, M.N., dezhurnaya po pereyesdu (Vil'nyus); BALAKIN, B.S.; PASECHNIK, A.I.; CHERDANTSEV, A. Ye., dorozhnyy master (stantsiya Verkh-Neyvinsk, Sverdlovskoy dorogi); STROCHKOV, A.A., insh.

Letters to the editor. Put' i put.khos. 4 no.2:40-42 P '60.
(MIRA 13:5)

1. Mekhanik putesmeritel'noy teleshki, stantsiya Kovel', L'vovskoy dorogi (for Kosheleyuk). 2. Zamestitel' nachal'nika distantsii puti, stantsiya Galich, Severnoy dorogi (for Balakin). 3. Inshener distantsii, stantsiya Sambor, L'vovskoy dorogi (for Pasechnik).

(Railroads)

NEDUZHKO, Ye. A.

Improvement of the criterion equation of the heat transfer in
the boiling of massocuite. Izv.vys.ucheb.zaved. pishch.tekh.no. 2:
125-126 '64. (MIRA 17:5)

NEDVAYLO, A., (Gds Lt Col, Twice Hero of the Soviet Union)

Author of article, "Critique of Aerial Gunnery Practice Flights," encouraging the holding of such critiques after flights. (Vestnik Vozdushnogo Flota, Moscow, No 10, Oct 53)

SO: SUM No. 208, 9 Sep 1954

NEDVED, Bohumil

Mechanized processing of the data on railroad operation.
Doprava no.11:371-374 '62.

NEDVED, Bohuslav, inz.

Possibility of reducing the topographic revision of open terrain
in the map 1: 10,000. Geod kart obsor 8 no.12:22-231 D '62.

1. Ustredni sprava geodesie a kartografie, Praha.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

MLOVENO, Bohuslav, in'.

Aerogrammetric survey of relief in woodlands. 1:100,000
oboz 11 no. 2:34-39 7 '65.

I. Central Administration of Geography and Cartography - Teplice

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

L 11221-66

ACC NR: AP6004786

SOURCE CODE: CZ/0024/65/000/002/0034/0039

AUTHOR: Miroslav Bohuslav (Engineer)

ORG: Central Geodetic and Cartographic Office, Prague (Ustredni sprava geodesie a kartografie)

TITLE: Photogrammetric surveying of relief in woodlands

SOURCE: Geodeticky a kartograficky obzor, no. 2, 1965, 34-39

TOPIC TAGS: photogrammetry, mapping, geographic survey

ABSTRACT: The article discusses the problems in mapping terrain covered with woods. Tables of the errors of photogrammetric data determined from control point data are given. This work was presented by Mgr. Jaroslav Slitr. Orig. art. has: 5 tables.

JPS/

SUB CODE: 08 / SUBJ DATE: none / ORIG REF: 004

UDC: 528.721.28:634.0

HW
Card 1/1

L-0404-65 EMP(a)/EMP(1)/EMP(4)-2/EMP(5)/EMP(c)/EMP(v)/EMP(v)/T-2/EMP(k)/
EMP(h)/EMP(l) MM/DL

ACCESSION NR: A15009463

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Temperature equipment, but are themselves operated at room temperature. Orig. art. has 6 figures.		
ASSOCIATION	Nuclear Research Institute, Czechoslovak Academy of Sciences, Rez	
SUBMITTED:	00	ENCL: 01 SUB CODE: TD,GP 44-15
NR REF Sov:	000	OTHER: 000
Card 2/3		

L 64645-65

ACCESSION NR: A15009463

ENCLOSURE: 01

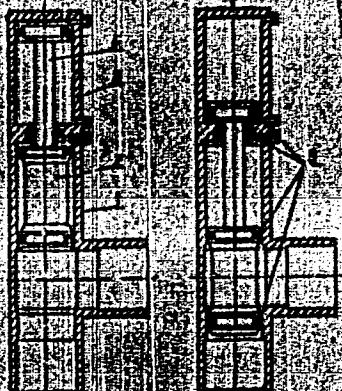


Fig. 1. Metal-vacuum valve.

1 - body of cylinder, 2 - lower piston, 3 - upper
cylinder, 4 - driving piston, 5 - seal

REF ID: A6772015 / RPP(1)	P/JP(6) SD Z/0030/06/010/007/0043/0046
AUTHOR: <u>JOHN STAMMAYER (Editor)</u> <u>Stammayer (Shultz, S.)</u> ; <u>Sect.</u>	LOWELL, VERN; <u>SHULTZ, FRANZISKUS</u> ; <u>SEITZ</u> <u>LOWELL (SHULTZ, M.)</u> ; <u>SEITZ, KAROL</u> (<u>SHUTZ, K.</u>)
TITLE: <u>A device for studying the gamma radiation of oriented nuclei</u>	11
CONTENT: <u>JOURNAL OF PHYSICS</u> , V. 10, No. 1, 1964, 243-246	8
TOPIC INDEX: <u>gamma radiation</u> , <u>oriented nucleus</u> , <u>paramagnetic crystal</u> , <u>adiabatic demagnetization</u> , <u>one stage cryostat</u> , <u>liquid helium bath</u> , <u>vacuum casing</u> , <u>thermal insulation</u> , <u>scintillation spectrometer</u>	26 15 21
ABSTRACT: <u>The article describes a device with which a temperature on the order of 0.01°K was reached for the first time in the CSR in a paramagnetic crystal by adiabatic demagnetization, starting from a temperature of 1°K to which the crystal had been cooled. A one-stage cryostat and the experimental space with the sample were immersed in a liquid helium bath with a temperature of 4.2°K. Thermal insulation was insured by a vacuum casing. Vacuum apparatus, mostly of glass, served to evacuate the various spaces of the low-temperature apparatus and to ensure the liquid helium feed. In the verification of the operation of the whole device Co⁶⁰ nuclei were oriented, set up directly in the cooling crystal of cerium magnesium</u>	100
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ACCESSION NO. AR4042144

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Abstract. Anisotropic demagnetization of this crystal was effected with a VAMA 80 electromagnet of a maximum field intensity of more than 20,000 gauss to zero field strength. The Co^{60} nuclei were then oriented by the Bleany method. Gamma radiation was detected by single channel scintillation spectrometers in the $\theta = 0$ and $\theta = \pi/2$ directions. The temperature of the crystal after demagnetization was measured by the ballistic method from the change of its susceptibility. The dependence of the angular distribution of gamma radiation on temperature in Co^{60} nuclei whose spins at the same temperatures had been oriented using the anisotropy of the internal field in a paramagnetic crystal was measured. The time dependence of the ballistic error and the characteristic curve $W(0)$ and $W(\pi/2)$ after demagnetization were independently measured in the experiments. Comparison of both relations shows that experiment is in good agreement with theory in the temperature interval 0.05 to 0.10°K; at $T \leq 0.03^{\circ}\text{K}$ the measured value is less than the theoretical value. The results obtained are in agreement with other experiments with Co^{60} in which other methods of orientation were used, and confirm the correct functioning of the device. These methods for studying oriented radioactive nuclei enrich the fund of basic research in nuclear physics. The authors express their thanks to their co-workers Novakov, Praskov, Rodov, and Sedinov in the building and testing of the apparatus. Orig. art. has: 6 formulas and 5 figures.

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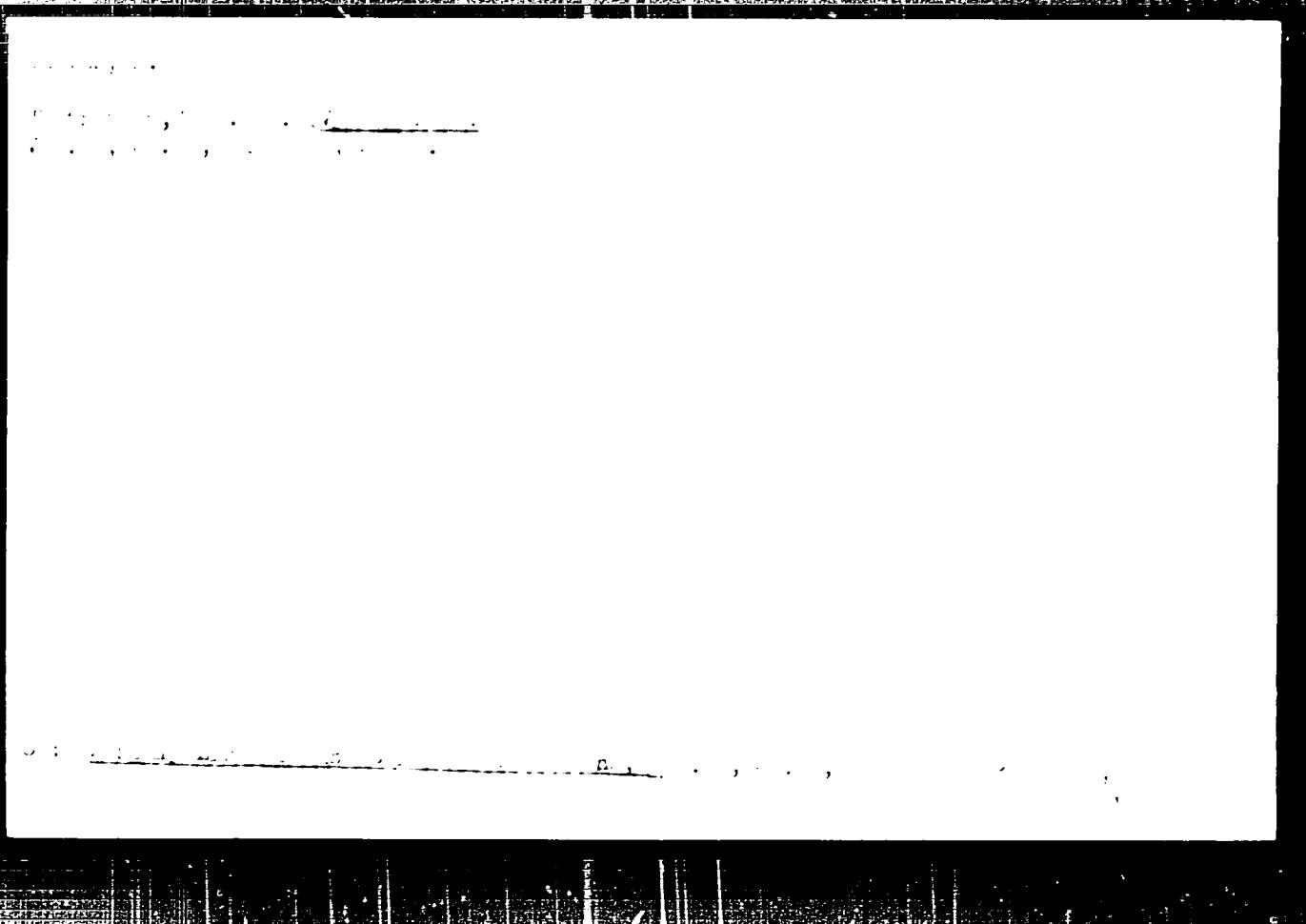
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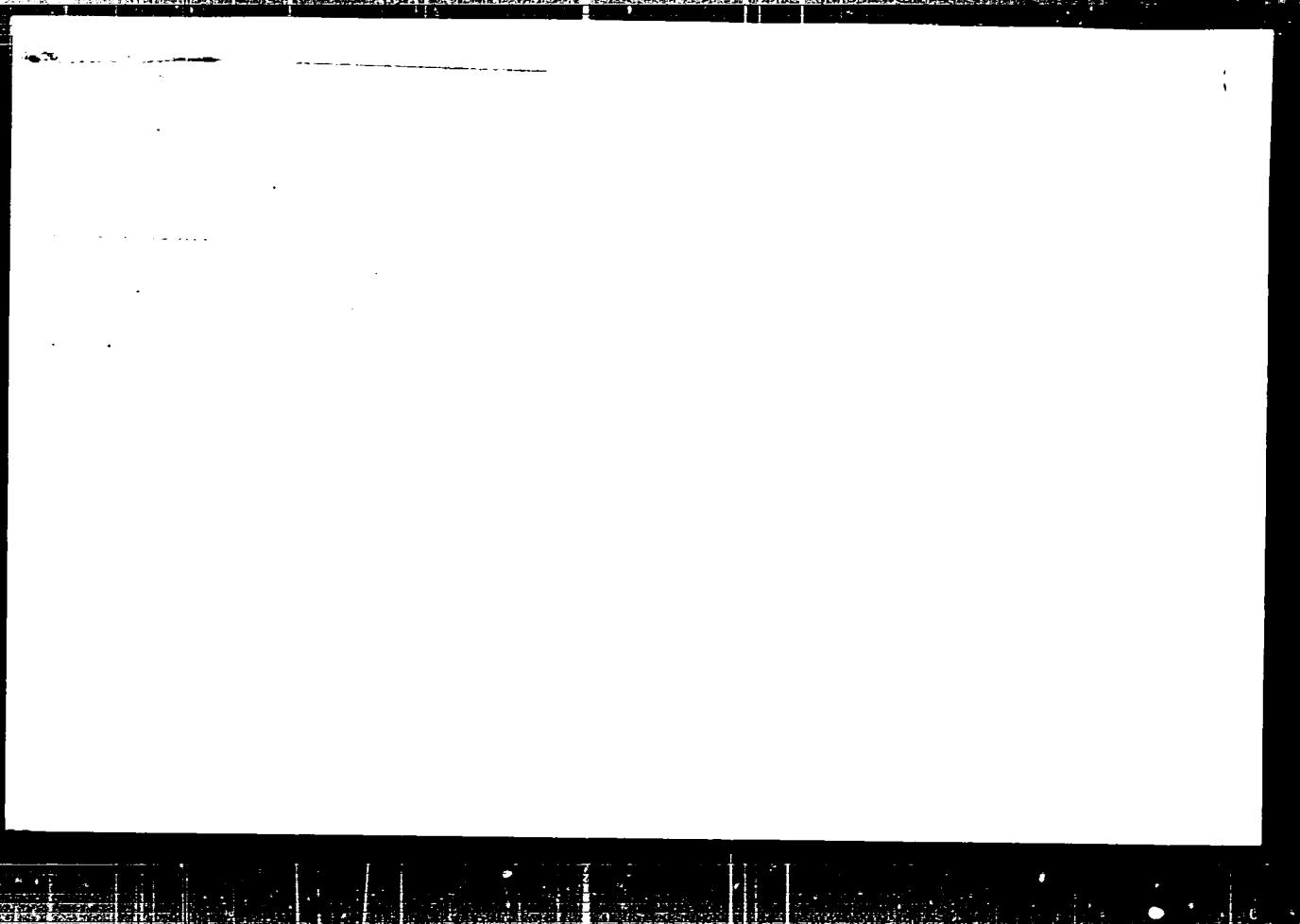
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STATEMENT OF THE CHIEF OF STAFF OF THE ARMY
OF THE REPUBLIC OF KOREA, TAE KWON, KIA,

RECORDED AND APPROVED IN ACCORDANCE WITH THE STATEMENT OF A MEMBER OF THE
KOREAN DEFENSE MINISTRY, SEOK JAE PUNG, ON APRIL 11, 1950.

KIA TAE KWON, CHIEF OF STAFF OF THE ARMY OF THE REPUBLIC OF KOREA,
RECORDED AND APPROVED THE STATEMENT OF THE CHIEF OF STAFF OF THE ARMY OF THE
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