L 41078-66

ACC NR: AT6026550

room temperature and contains, besides austenite, some delta-ferrite and about 30% martensite. The steels with 8-10% Ni are fully austenitic at room temperature. These steels undergo martensitic transformation at -196C or, under the effect of deformation, at room temperature. The steels containing 12-14% Ni undergo martensitic transformation under the effect of deformation only at subzero temperatures. The $M_{\rm S}$ point for steels with 10 and 12% Ni is -190 and -250C, respectively, and that of steel with 14% Ni is below -253 C. austenite of 20% Ni steel is completely stable and does not transform to martensite even in liquid hydrogen (-253C). The mechanical properties of all the steels tested depend basically on the martensite content. The martensite present in the initial structure increases the tensile strength and yield strength and decreases the elongation and reduction of area. The martensite formed during testing does not affect the yield strength but increases the tensile strength and lowers the ductility. The notch toughness is beneficially affected by Ni; for instance, steels with 12, 14, and 20% Ni at -80C have a notch toughness of 18-24 mkg/cm² compared to 3.5 mkg/cm² for steel with 6% Ni. The highest tensile strength, 150 kg/mm², and yield strength, 145 kg/mm², at an elongation of 5% and a reduction of area of 40%, were obtained in 8% Ni steel after rolling at -196, which resulted in the formation of 70% martensite. Orig. art. has: 7 figures and 1 table. [WW]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001/ ATD PRESS: 5057

"APPROVED FOR RELEASE: Monday, July 31, 2000

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L 37129-66 EWT(d)/EEC(k)-2 GD	
ACC NR: AT6006224 (A, N) SOURCE CODE: UR/0000/65/000/000/0259/0268	
AUTHOR: Kozlova, N. A.	
ORG: none	
TITLE: Increasing the efficiency and instrument accuracy of a telemetry system with pulse duration modulation	
SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Tekhnicheskaya kibernetika	
(Technical cybernetics). Moscow, Izd-vo Nauka, 1965, 259-268	
TOPIC TAGS: telemetry system, pulse duration modulation, signal reception, telemetry receiver	
ABSTRACT: The author proposes the use of transformers as tracking threshold devices working as pulse duration selectors. The device is called an exponential receiver of pdm working as pulse duration selectors. The device is called an exponential receiver of pdm video-pulses. The simplicity and high functional stability of this device makes it possible video-pulses.	
video-pulses. The simplicity and high functional stability of this device than one to increase the instrument accuracy and efficiency of pdm telemetry systems by more than one to increase the instrument accuracy and efficiency of pdm telemetry systems by more than one	
to increase the instrument accuracy and efficiency of pain telemosty systems of the order of magnitude. A diagram is given showing the components and wiring diagram of the order of magnitude. A diagram is given showing the components and wiring diagram of the	
order of magnitude. A diagram is given showing the components that instrument accuracy can be input video-pulse exponential receiver. Results show that instrument accuracy can be increased by one order of magnitude if the exponential pdm video pulse receiver is used. This	
Card 1/2	

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I 37129-66 ACC NR: AT600622	A	0
can be accomplished l	by simple means as compared to the ordinary methologically simple means as compared to the ordinary methologically simple receivers brings closer the possibility stems. Orig. art. has: 11 figures, 1 table, and 3	v of designing narrow
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ANSHRIES, I.M. [decembed]; KOZLOVA, N.A.; SAPOZHNIKOVA, V.A.

Sanitary-epidemiological and sanitary-demographic conditions and the effectiveness of compound sanitary and prophylactic measures in the prevention of dysentery. Reports Nos. 1-3. Trady Len. inst. epid. i mikrobiol. 24:54-81 163

Epidemiologic significance of migration during the summer months in large populated centers. 1bid.:84-92

(MIRA 18:10)

1. Iz sektora epidemiologii (rukovoditel' I.M. Ansheles) Instituta epidemiologii i mikrobiologii imeni Pastera.

KOZLOVA, N.A.; LEBEDEV, D.V.

Mechanical properties of stainless austenitic steels at -253° C. Metalloved. i term. obr. met. no. 12:47-51 D '65. (MIRA 18:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni Bardina.

KOZLOVA, N.A. (Moskva)

Increasing the accuracy of the equipment of a telemetering system with pulse-width modulation. Avtom. i telem. 26 no.8:1423-1430 Ag '65.

(MIRA 18:11)

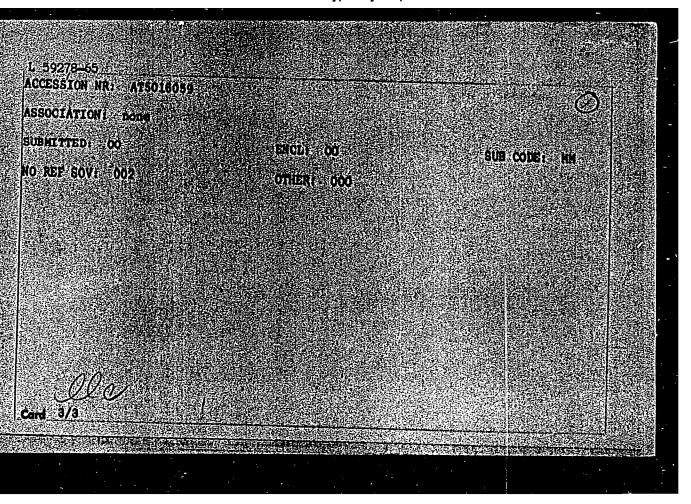
"APPROVED FOR RELEASE: Monday, July 31, 2000

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CCESSION NRI ATSOLOGIS	UR/2776/65/000/039/0081/0086	
WINDRY BABAKOZYAN ANG JODDOZI KITEKNY		
LTTE: Stablity of austentity o	olid solutions of stainless steel with	
OURCE: Moscow: Tsentral ny nauchno-isal Sbornik trudov, no. 39, 1985 Spetsial ny Coys), 81-86	SGDVATellakiy institut chernoy metallurgil 76 Stall I splayy (Special steels and al-	
OPIC TACE: stainless steel; heat treatm tability marrensitic transformation; as eformation	mt; metal mechanical property, austanite callographic examination, low temperature	
	oped by partially replacing the Miccontent of Bittogen. Sight steels were prepared	
了 就也是提供的自己的特别。	Cr. N., Hn/St and N., The affect of Cr properties of these steels after quanching in connection with the degree of sustenia cont of martenaite formed after low tess	
Card 1/3		

rature deformat	5016069 ion Rechanical	nvijeti este	id magnetic ch	aracteriatics w	ete détete
ned on sheet sa	mples after cumpl ched from 1050 an	hing and place	tic deformati	on. Hechanical	proper-
96°C. The micr	edinderstradere in di Legisland purely		221 Cr. 4.8-5	.21 NE 6.5-8.5	S to and
does not exces	8/20/20 strant in ng the Collontant	the quenchin	g temperature	remains approx	imately
ining compositi	embernezelencien avancemores avare	in Lacre as Line	the quenchin	g temperature c	ontrie:
th 20% Cr; havi	ng an austenitic	structure af	er guenching	from 105096. wo	uld have
om temperature	81: quenching from deformation = ifox	ever streng	h was increas	ed by testing a	t lover
g from 1050°C	ishiri adalisika Merikenpin dha	oreen restars	nce vere abou	t 150 and 100 k	t/m²
30-401 / Defor	le the elongation mation of the etc	els at temes	stutes of -70	and -196°C led	to train-
rmation of the			dr val abre n	oticeable for a	taels
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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910



BABAKOV, A.A.; KOZLOVA, N.A.

Applying rapid methods of heat treatment of thin-sheet stainless steel of the ferritic class. Sbor. trud. TSNIICHM no.39:101-108 '65. (MIRA 18:7)

L 11139-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(+)/EWP(z)/EWP(b) JD

AP6000612 SOURCE CODE: UR/0129/65/000/012/0047/0051

AUTHOR: Kozlova, N. A.; Lebedev, D. V.

ORG: TENTICHERMET

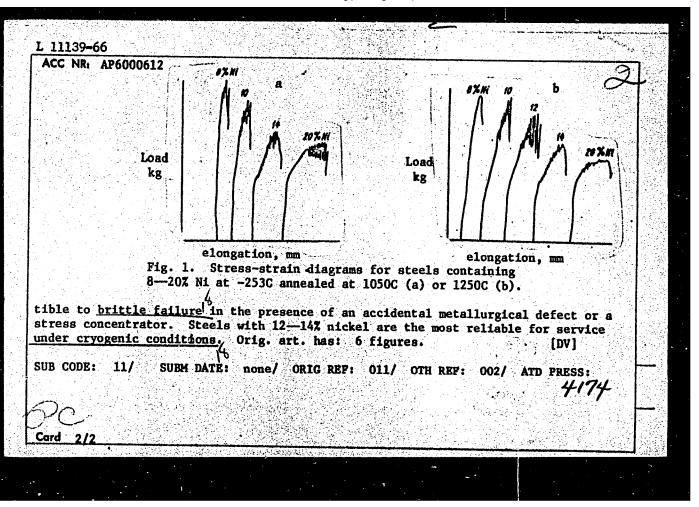
ACC NR

TITLE: Mechanical properties of austenitic stainless steels at -253C

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 12, 1965, 47-51

TOPIC TAGS: steel, sustenitic steel, stainless steel, solid mechanical property, metal grain structure, cryogenic engineering, Brittleness

ABSTRACT: Specimens of five austenitic stainless steels containing 0.03Z carbon, 18% chromium, and 8, 10, 12, 14, and 20% nickel were subjected to tensile tests at -253C at a deformation rate of 2 mm/min. For each steel two types of specimens were tested: fine-grained (annealed at 1050C) and coarse-grained (annealed at 1250C). In all steels, regardless of grain size, the deformation in the elastic-plastic region had a more or less unstable behavior with multiple necking along the gage length (see Fig. 1) owing to the formation of martensite or, in the case of steel with 20% nickel, to heat fluctuations. With increasing nickel content, the tensile strength drops and ductility increases. Analysis of the experimental data led to the conclusion that although steels with 8—10% nickel have a high tensile strength (185 kg/mm²) and ductility (reduction of area 40%) at -253C, they cannot be recommended for stressed parts of cryogenic equipment because at the moment unstable deformation begins, these steels are strain hardened to a high degree and therefore are suscepcord 1/2



WSSR/Medicine - Cholinesterase May/Jun 51	"Effect of Proserine on Muscle Contraction by Carbocholine /Garbamyl Choline Chloride/," N. A. Kozlova, M. R. Mikhel'son, Lab of Gen Pharmacol, Inst of Exptl Med, Acad Med Sci USSR, Leningrad	"Fiziol Zhur SSSR" Vol XXXVII, No 3, pp 362-365	Expts on muscles of frogs and leeches contracted with carbocholine and escrinized leech muscles contracted with acetyl choline show that prosering in weak concus produces increased sensitivity to 192771	UBSR/Medicine - Cholinesterase May/Jun 51 Inhibitors (Contd)	choline. In higher concus the effect is cholin- olytic but also can bring about a cholinomimetic effect. Phenomena described cannot be explained by the anti-cholinesterase effect of proserine.	19277	
	T/T/26		ध≱०न	5	2002	LOVA, H. A.	70V

KARASIK, V.M.; KOZLOVA, N.A. Rhythmic function of the muscle in leach produced by veratrine. Farm. 1 toks. 17 no.2:44-47 Mr-Ap '54. (MLRA 7:6) 1. Laboratorya obshchey farmakologii (zav. chlen-korrespondent AME SSSR prof. V.M.Tarasik) otdela farmakologii Instituta eksperimental'noy meditsiny AME SSSR. (MUSCLES, effect of drugs on, *reratrine, rhythmic contractions in leach) (VERATRUM ALKALOIDS, effects, *on muscles, rhythmic contractions in leach) (LEECHES, *muscular rhythmic contractions prod. by veratrine)

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TROITSKIY, V.L., professor; CHAKHAVA, O.V.; KOZLOVA, W.A.

Effect of ionizing radiation on antibody formation. Med.rad. 1
no.1:49-58 Ja-F '56. (MIRA 9:9)

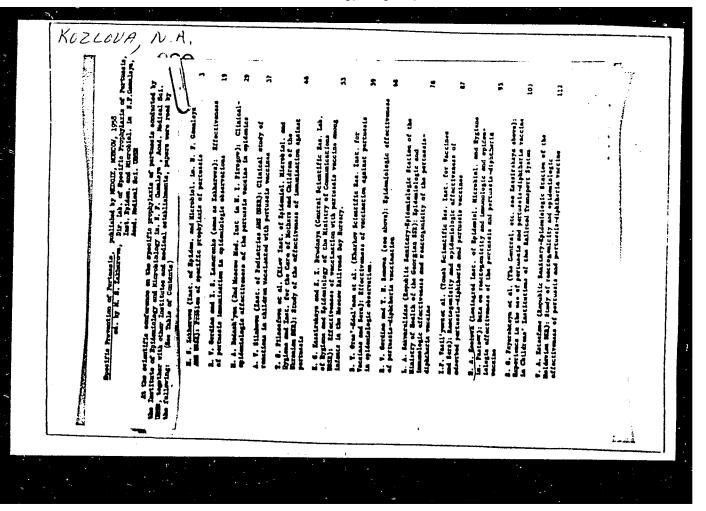
1. Iz otdela meditsinskoy mikrobiologii (sav.-chlen-korrespondent
AMW SSSR prof. V.L.Troitskiy) Instituta epidemiologii i mikro-
biologii imeni akad. W.F.Gameleya AMN SSSR.

(ANTIGENS, AND ANTIBODIES,
antibody form., eff. of ionizing radiations (Rus))

(RADIATIONS, effects,
ionizing, on antibody form. (Rus))
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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910



KOZLOVA, N.A.

Data on the reactogenicity immunological and epidemiological effectiveness of the whooping cough and whooping cough-dipb-therial vaccine. Trudy Len.inst.epid. i microb. 18:103-110'58.

(MIRA 16:7)

1. Iz sektora epidemiologii (rukovoditel* I.M.Ansheles) Leningradskogo instituta epidemiologii, mikrobiologii i gigiyeny imeni Pastera.

(WHOOPING COUGH—PREVENTIVE INOCULATION)
(DIPHTHERIA—PREVENTIVE INOCULATION)

KOZLOVA, N.A.; SKLYAROVA, N.N.; IOANNESYAN, B.I.

Epidemiological problems in preventing focal spread of whooping cough with syntomycin. Trudy Len.inst.epid.i microbiol. 18: 111-117'58. (MIRA 16:7)

l. Iz sektora epidemiologii i iz laboratorii detskikh kapel'nykh infektsiy Leningradskogo instituta epidemilogii, mikrobiologii i gigiyeny imeni Pastera i iz otdela mikrobiologii Instituta eksperimental'noy meditsiny AMN SSSR.

(WHCOPING COUGH) (ACETAMIDE)

MAYSKIY, I.N.; KOZLOVA, N.A.

Influence of antirhonidase serum from goats on the metastasing process of Brown-Pearce carcinoma in rabbits. Biul. eksp. biol. i med. 50 no.10:101-105 0 '60. (MIRA 14:5)

l. Iz laboratorii neinfektsionnoy immunologii (zav. - prof. I.N. Mayskiy) Instituta eksperimental'noy biologii (dir. - prof. I.N. Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym.

(HYALURONIDASE) (CANCER)

MAYSKIY, I.N.; KOZLOVA, N.A.; NIKOVSKIY, M.N.

Production of antironidase horse serum and its effect on the metastatic spreading of Brown-Pearce carcinoma in rabbits. Biul. eksp. biol. 1 med. 50 no. 11:86-90 N '60. (MIRA 13:12)

l. Iz laboratorii neinfektsionnoy immunologii (zav. - prof. I.N. Mayskiy) Instituta eksperimental noy biologii (dir. - prof. I.N. Mayskiy) AMN SSSR, Moskva:

(HYALURONIDASE) (CANCER)

KOZLOVA, N.A.

Data on the response to and efficacy of pertussic and pertussisdiphtheria vaccines. Vop. okh. mat. i det. 6 no. 2:34-38 F '61. (MIRA 14:2)

1. Iz epidemiologicheskogo sektora Instituta epidemiologii, mikrobiologii i gigiyeny imeni L. Pastera (dir. - kandidat meditsinskikh nauk M.Ya. Nikitin, nauchnyy rukovoditel' - prof. K.N. Tokarevich).

(WHOOPING COUGH) (DIPHTHERIA)

SKLYAROVA, N.N.; KOZLOVA, N.A.

Shortening the quarantine periods in whooping cough. Zhur.mikrobiol., epid. i immun. 32 no.10:46-50 0 '61. (MIRA 14:10)

1. Iz Leningradskogo instituta epidemiologii i mikrobiolgii im. Pastera.

(WHOOPING COUGH)

KOZLOVA, N.A.; KULAKOVA, M.N.

Effectiveness of the serum prophylaxis of epidemic hepatitis. Vop. virus.7 no.5:614-615 S-0 '62. (MIRA 15:11)

1. Leningradskiy institut epidemiologii i mikrobiologii imeni L.Pastera i Leningradskaya gorodskaya sanitarno-baldemiologicheskaya stantsiya.

(HEPATITIS, INFECTIOUS) (GAMMA GLOBULIN)

KOZLOVA, N.A.

Evaluation of the effectiveness of vaccination against whooping cough. Sov. med. 25 no.4:89.92 Ap '62. (MIRA 15:6)

l. Iz epidemiologicheskogo sektora Instituta epidemiologii i mikrobiologii imeni Pastera (dir. - dotsent I.F. Mikhaylov, nauchnyy rukovoditel' - prof. K.N. Tokarevich).

(WHOOPING COUGH---PREVENTIVE INNOCULATION)

KOZLOV, V.V.; VOL'FSON, T.I.; KOZLOVA, N.A.; TUBYANSKAYA, G.S.

Naphthalene series. Part 25: Formation of sulfones by the action of chlorosulfonic acid on naphthalene. Zhur.ob.khim. 32 no.10:3440-3445 0 '62. (MIRA 15:11) (Sulfones) (Sulfonic acid) (Naphthalene)

MAYSKIY, I.N.; AYRAPET'YAN, G.P.; KOZLOVA, N.A.; NILOVSKIY, M.N.; SUVOROVA, G.V.; SUKHORUKIKH, S.V.; KHUNDANOVA, L.L. (Moskva)

Therapeutic and cytotoxic action of antibodies and their role in the pathogenesis of cancer. Usp. sovr. biol. 55 no.2: 219-238 '63. (MIRA 17:8)

We of biologically active substances in plant protection.

Trudy Len. ob-va est. 74 no. 1:49-52 '63. (MIRA 17:9)

10FFE, Vladimir Il'ich; OSIPOVA, Folina Vasil'yevna; KKY 180VA, Nina Nikolayevna; KOZLOVA, Nina Alekseyevna; LUR'YE, N.A., red.

[Whooping cough; its microbiology, immunology, specific prevention] Kokliush; mikrobiologiia, immunologiia, spetsificheskaia profilaktika. [Hy]V.1.loffe i dr. Leningrad, Meditsina, 1964. 282 p. (MIRA 18:1)

KOZLOVA, N.A.; KULAKOVA, M.N.

Effectiveness of seroprophylaxis for epidemic hepatitis in Leningrad in 1958-1959. Trudy LPMI 30:250-258 63.

(MIRA 18:3)

l. Leningradskiy institut epidemiologii i mikrobiologii imeni Pastera (dir. M.Ya.Nikitina) i Leningradskaya gorodskaya sanitarnoepidemiologicheskaya stantsiya (glavnyy vrach V.Ye.Kovshilo).

PEKERMAN, F.M.; KOZLOVA, N.A.; PETOSHINA, L.N.; KAZANKIN, O.N.

Investigating the stability of electroluminophors. [Trudy] GIPKH no.51:40-52 '64. (MIRA 18:5)

L 2220-66 EVT(d)/EEC(k)-2

ACCESSION NR: AP5022983

UR/0103/65/026/008/1423/1430 621.398.44

43

AUTHOR: Kozlova, N. A. (Moscow)

TITLE: Increases in instrumental accuracy of telemetric systems with pulse-width modulation

SOURCE: Avtomatika i telemekhanika, v. 26, no. 8, 1965, 1423-1430

TOPIC TAGS: telemetry system, pulse width modulation, pulse duration modification

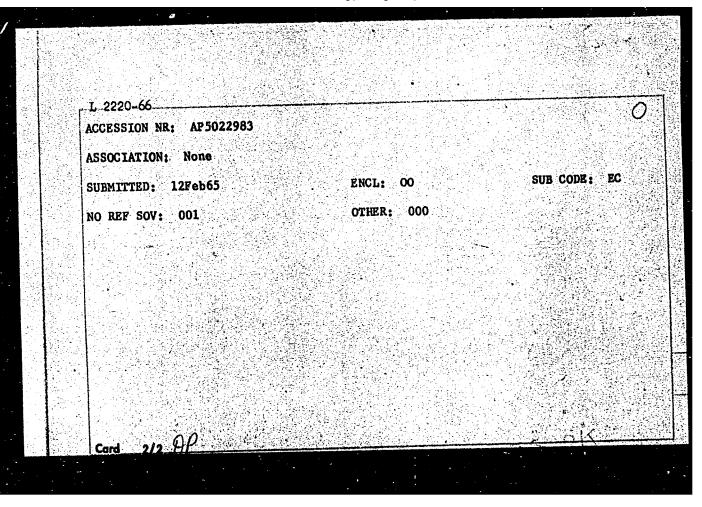
ABSTRACT: A new approach is proposed for the reception of pulse-width modulated signals with the aim of increasing the accuracy of a telemetric system. An exponential converter operating as a pulse duration selector serves as a tracking threshold device. Using the description of the selectors of the front and back of the pulse the author carries out a comparative analysis (experimental threshold setup versus fixed threshold instrument) and estimates the gains in accuracy as a result of the introduction of the new approach. Results show that the high operating stability of the resulting equipment increases by more than one order of magnitude the instrumental accuracy of telemetric pulse-width modulated devices. Orig. art. has: 26 formulas, 13 figures, and 1 table.

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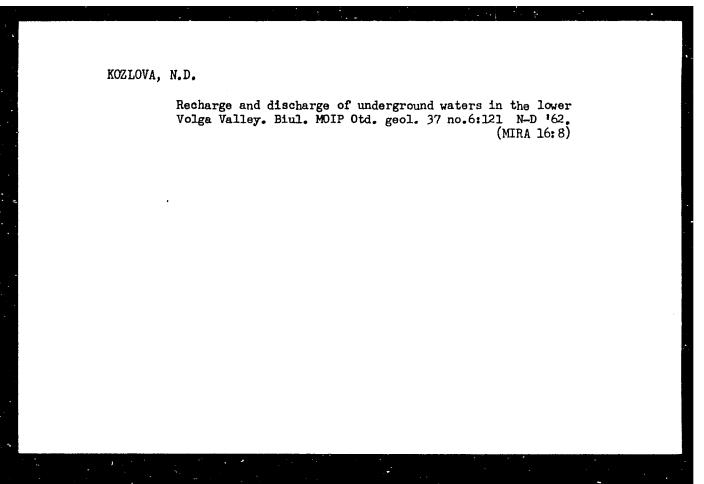
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KOZLOVA, Nadezhda Dmitriyevna; AFANAS'YEV, T.P., doktor geol.miner. nauk, otv. red.

[Geochemistry and the formation of underground waters as revealed by a study in the middle Don- Valley] Geokhimiia i formirovanie podzemnykh vod; na primere Stednego Dona. Moskva, Nauka, 1965. 164 p.

(MIRA 18:12)



Dynamics and chemistry of the waters of the Alb-Senoman horizon in the regions of the middle Don and the right bank of the upper Volga. Trudy Lab.gidrogeol.probl. 40:114-124 '62. (MIRA 15:11) (Don Valley-Water, Underground-Analysis) (Volga Valley-Water, Underground-Analysis)

VASHENTSEVA, V.M.; VOLKOV, M.I.; ZHAMIN, V.A.; ZHUKOV, F.G.; CHUBUK, I.F.; KAPUSTIN, Ye.I.; KOZLOVA, N.G.; KOROCHKIN, V.V.; KUL'KOV, A.V.; MARINKO, I.L.; MOICHALOV, B.M.; ROMANOV, B.V.; FEDOROV, V.I.; SHIRINSKIY, I.D.; GRINGAUZ, A., red.; SHIXK, M., tekhn. red.

[How to study the economics of socialism] Kak izuchat' politicheskuiu ekonomiiu sotsializma; posobie dlia rukovoditelei seminarov sistemy partiinogo prosveshcheniia. Moskva, Mosk. rabochii, 1961. 239 p. (MIRA 14:8)

1. Dom politicheskogo prosveshcheniya, Moscow. (Economics—Study and teaching)

KOZLOVA, N.I.

Reserve carbohydrates in perennial grasses in the first year of their life. Bot.zhur. 47 no.3:405-408 Mr '62. (MIRA 15:3)

1. Leningradskiy sel'skokhozyaystvennyy institut, g. Pushkin. (Grasses) (Carbohydrates)

|--|

KCZLOVA, N.T.

AUTHORS:

Onusaytis, B. A., Kozlova, M.I.

32-2-19/60

TITLE:

The Characteristics of the Thermal Morkability of Semicoke (Kharakteristika stepeni termicheskoy obrabetki polukoksa)

PURIODICAL:

Zavodskaya Laboratriya, 1958, Vol. 24, Er 2, pp. 151-183 (USSR)

ABSTRACT:

The yield of volatile constituents in the thermal treatment of coal to semicome is of decisive importance. The change of structure that took place in this is in close connection with the modification of electric conductivity, so that a method of investigation based on this phenomenon was developed, as all methods which have been in use hitherto were insufficient. The increase of electric conductivity with increasing coking of coal is traced back to the formation of stiff chemical bonds between the elementary structural units. The conductivity of a unit layer of semicoke was investigated as indicator of thermal treatment, as well as the conjection with the yield of volatile priducts. The apparatus serving in this inventigation had altered box described in an eacher sorie (pur. 7). The increase of the electric conductivity and cust

Card 1/2

The Characturistics of the Thermal Workshillity of Semicoke

32-2-19/60

he taken into consideration in the investigations. The accu-

racy of the method amounts to 0,500, i.e. it is better than the 0,50 demanded by 3031-13-1. More are 2 tables, and

7 references, 7 of which are Slavic.

ASSOCIATION: Institute for Combustible Inscribe All U.D. (Institut

Soryuchikh iskopayemykh Arade i nauk 333R)

AVAILA"L.:

Library of Congress

1. Coal-Distillation

Card 2/2

KALINKINA, V.A. (Moskva), KOZLOVA, N.I. (Moskva), NIKOLATEV, I.N. (Moskva), STEPANCHIKOV, A.A. (Moskva)

Investigating the thermal decomposition of coals and their mixtures.

Izv. AN SSSR. Otd. tekh. nauk. Net. 1 topl. no.6:156-160 K-D '60.

(Coal--Carbonization)

(Coal--Carbonization)

NIKOLAYEV, I.N.; STEPANCHIKOV, A.A.; DAVYDOVA, K.I.; KOZLOVA, N.I.;

KALRIKINA, V.A.; SMIRNOVA, M.I.

Method for the direct determination of the coking capacity of coals and charges. Koks i khim. no.11:9-15 '60. (NIRA 13:11)

1. Institut goryuchikh iskopayemykh AN SSSR. (Coal--Testing) (Coke)

3388h

S/640/61/000/000/005/035 D258/D302

18.1247 21.2100_

Ivanov, O. S., Semenchenkov, A. T. and Kozlova, N. I.

AUTHORS: TITLE:

The structure of the system uranium-molybdenum below 600°C and the complete equilibrium diagram of this

system

SOURCE:

Akademiya nauk SSSR. Institut metallurgii, Stroyeniye splavov nekotorykh sistem s uranom i toriyem. Moscow,

Gosatomizdat, 1961, 68-86

TEXT: The authors investigated the formation of the δ_2 -phase below 600°C and its coexistence with other phases in the U-Mo system. The data gathered in this investigation were combined with the authors! and coworkers earlier results (Ref. 1: This publication, p. 48) in order to yield a complete equilibrium diagram, whose uranium rich corner is shown in a figure. Molybdenum depresses the transformacorner is shown in a rigure. Noryodenum depresses the transformation $\alpha \geq \beta$ and $\beta \geq \delta$ to such an extent that an eutectic equilibrium, $\beta(\sim 1.4 \text{ at.-}\% \text{ No}) \geq (\langle 0.1 \text{ at.-}\% \text{ No}) + \langle 8 \text{ at.-}\% \text{ Mo} \rangle)$ is formed near 648°C. The phase $(\alpha + \beta)$ existing below 648°C, meets the $\beta + \delta \geq \delta$

card(1/4)

33⁹⁸4 \$/640/61/000/000/005/035 D258/D302

The structure of the system ...

(U2Mo)-phase and as a result, a second eutectic equilibrium (21.5) at.-% Mo) (0.1) at,-% Mo) + (0.1) at,-% Mo) + (0.1) at,-% Mo) + (0.1) at,-% Mo) + (0.1) and forms a third equilibrium (0.1) + (0.1) and forms a third invariant equilibrium, namely (0.1) at.-% Mo) (0.1) Mo((0.1) 8 at.-% Mo) + (0.1) at (0.1) at (0.1) Mo ((0.1) 8 at.-% Mo) + (0.1) at (0.1) at (0.1) Mo is fully converted on quenching into (0.1) which consists of a supersaturated solution of Mo in (0.1) The hardness of (0.1) is sharply increased by a rise in the Mo-content and attains a maximum at (0.1) at (0.1) Mo ((0.1) 400 kg/mm² for samples quenched from (0.1) A further rise of the Mo content causes the hardness to be steeply decreased, thus indicating a depression of the (0.1) -phase. A minimum ((0.1) - (0.1) Mo kg/mm²) is reached at (0.1) at (0.1) Mo. At this composition, the cubical lattice of the (0.1) solid solution is transformed into a tetragonal one, with dimensions a = (0.1) kg/m² at (0.1) kg/m² at (0.1) Mo. The tetragonal nature of the lattice is less pronounced at (0.1) at (0.1) Mo.

Card 2/4

33884 S/640/61/000/000/005/035 D258/D302

The structure of the system ...

(c/a = 0.9847) and vanishes completely at 13 at -%. The hardness of -solid solution containing samples rises sharply within the limits of 12 - 16 at.-%; this is followed by an inflection and a subsequent broad maximum. This is interpreted as indicating the transformation of the cubical lattice into a tetragonal. The steep rise of the hardness continues up to the boundary of the two-phase composition (/ + / Mo); thereafter, the hardness is almost independent of the Mo-content. The annealing of a sample subsequent to its quenching, is characterized by a noticeable increase in hardness, due to the decomposition of X-phase and of X-solid solution. On annealing to 250 - 300°C, the tetragonal structure becomes more pronounced at 10 - 12 and at 13 - 14 at -% Mo. while at 1 at -% it approaches the dimensions of the δ_2 -phase. On subsequent annealing to 350 - 400°C, the X-ray pattern becomes very diffused. On further annealing to 450°C, weak diffused lines of & U and of the 02-phase are formed. These lines gain in strength and clarity, on further annealing the samples to 5000 and 550°C. To this corresponds a decrease in hardness. The Mo-rich X-solid solutions in the range of

Card 3/4

33884

S/640/61/000/000/005/035 D258/D302

The structure of the system ...

 500° C are decomposed as a result of both α -phase separation and the formation of the δ_2 -phase. The former process is the leading

one, in the composition range of 20 at.-% Mo. This separation and the inherent heterogenization is accompanied by a rise in hardness; while the formation of the \$\frac{1}{2}\$-phase, at 30 at.-%, leads to a small decrease of hardness. There are 15 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: E. K. Halteman. The crystal structure of \$U_2\$Mo. Acta Cryst. 10, 166 (1957).

Card 4/4

NIKOLAYBY, I.N.; KOZLOVA, N.I.; KALINKINA, V.A.; STEPANCHIKOV, A.A.

Heat capacity of coals and coal mixtures as determined by the temperature of their heating. Koks. i khim. no. 3:12-15 '61.

(MIRA 14:4)

1. Institut goryuchikh iskopayemykh AN SSSR. (Coal-Thermal properties)

NIKOLAYEV, I. N.; KOZLOVA, N. I.

Effect of the thermal pretreatment of coals on their caking capacity. Trudy IGI 17:116-120 162. (MIRA 15:10)

(Coal-Carbonization)

ACC NR: AP6032948

SOURCE CODE: UR/0363/66/002/010/1811/1815

AUTHOR: Yezerskiy, M. L.; Kozlova, N. I.; Bagotskiy, V. S.; Kalliga, G. P. (Deceased); Demonis, I. M.; Rastorguyev, L. N.; Prilepskiy, V. I.

ORG: none

TITIE: Electric conductivity of solid solutions of calcium oxide in zirconium dioxide at elevated temperatures

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 10, 1966.

TOPIC TAGS: calcium oxide, zirconium compound, electric property, solid solution

ABSTRACT: The electric conductivity χ of ZrO_2 -CaO solid solutions was studied at 600-1000°C as a function of the CaO content and the degree of purity of ZrO_2 and method of its stabilization. In this range, the temperature dependence of χ was found to be expressed by the equation $\chi = Ae^{-E/RT}$, where E and A are constants. The curve of the dependence of χ on the CaO content at 1000°C passes through a maximum at 12.5 mole χ CaO; this maximum is independent of the purity of ZrO_2 (1. e., of the presence of HfO₂ impurity) and method of its stabilization. As the density of the sintered ZrO_2 -CaO sample rises, its electric conductivity increases. X-ray structural analysis was used to determine the limits of homogeneity of cubic solid solutions; the presence of a superstructure was established in samples with CaO 15 mole χ . On the basis of

Card 1/2

UDC: 54-165:537.311

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910

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SUB CODE:	07/ SU	EM DATE:	13 Jan 66/	ORIG	REF:	002/	OTH	ref:	800	and	l form	ile.
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ACC NR: AT6036933

SOURCE CODE: UR/0000/66/000/000/0110/0115

AUTHORS: Demonis, I. M.; Kalliga, G. P.; Mayer, A. A.; Yezerskiy, M. L.; Kozlova, N. I.; Kolesnikov, E. I.

ORG: none

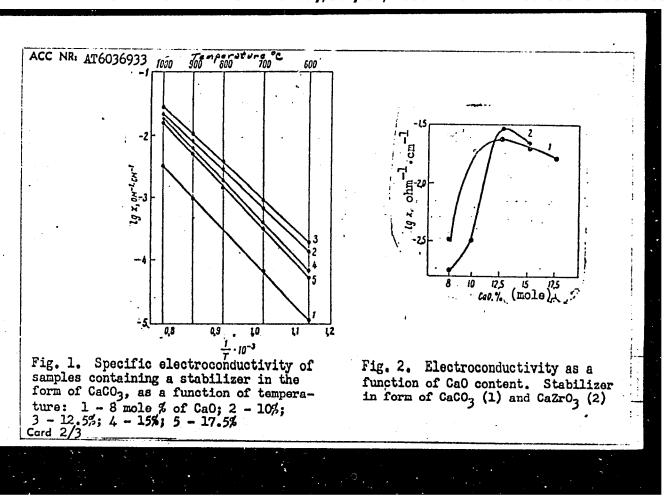
TITLE: Some data on the electroconductivity of zirconium dioxide stabilized with calcium oxide at a temperature range of 600—1000°C

SOURCE: Nauchno-tekhnicheskoye obshchestvo chernoy metallurgii. Moskovskoye pravleniye. Vysokoogneupornyye materialy (Highly refractory materials). Moscow, Izd-vo Metallurgiya, 1966, 110-115

TOPIC TAGS: zirconium compound, calcium oxide, high temperature ceramic material, semiconducting ceramic material / RETU 606-59 zirconium dioxide

ABSTRACT: Electroconductivity of domestic 99.6% pure zirconium dioxide (RETU 606-59) stabilized with CaO (8-17.5%) has been investigated at temperatures from 600 to 1000C. The sintering and stabilization processes were combined in one firing. The changes in electroconductivity with temperature and with the content of stabilizer are summarized by Figs. 1 and 2. It was established that the highest specific electroconductivity (2.64-3.03 x 10^{-2} ohm $^{-1}$ cm $^{-1}$) at 1000C was exhibited by materials containing 12.5% of CaO, regardless of the type of compound used to introduce the

Card 1/3



ACC NR: AT6036933

stabilizer (CaCO₃ or CaZrO₃). In spite of the heterogeneous microstructure and the lower degree of saturation of the solid solution with the stabilizing oxide, the product containing 12.5% mole % of CaO (as CaZrO₃) possesses very high electroconductivity. This may be caused by the greater density of the sintered material. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 02Nov65/ ORIG REF: 005/ OTH REF: 006

Card 3/3

KCZLOVA, NL.
BLIOKH. S.S., kandidat meditsinskikh nauk; PERLINA, A.M., kandidat tekhnicheskikh nauk; KOZLOVA, N.L., inzhener

> Effectiveness of the new method of purifying drinking water (contract clarification). Gig. i san. 22 no.1:70-72 Ja 157. (MLRA 10:2)

1. Iz Nauchno-issledovatel'skogo sanitarnogo instituta imeni Erismana, Akademii kommunal'nogo khozyaystva imeni Pamfilova i Laboratorii Rublevskoy vodoprovodnoy stantsii.

(WATER SUPPLY,

purification, contact clearing technic (Rus))

PRUZHININA-GRANOVSKAYA, V.I., kand.fiziko-matematicheskikh nauk;
KOZLOVA, N.M.

Nonlinear resistances for natworks with small circuits. Vest.
elektroprom. 32 no.lli64-66 N '61. (MIRA 14:11)
(Electric resistors) (Electric networks)

AVANESOVA, A.G., dotsent; KULAKOVA, T.V., ordinator; KOZLOVA, N.M., ordinator

Side-effects of antibiotic action during treatment of dysentery in children. Pediatriia no.2:69-73 '62. (MIRA 15:3)

1. Iz kafedry detskikh infektsionnykh zabolevaniy (zav. - prof. D.D. Lebedev) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova (dir. - dotsent M.G. Sirotkina).

(ANTIBIOTICS—TOXICOLOGY) (DYSENTERY)

KOZLOVA, N.M., inzh.; BABICH, V.V., inzh.

Practices in assembling structural elements for the complex of a sintering plant. Prom. stroi. 41 no.5:9-12 My '64.

(MIRA 18:11)

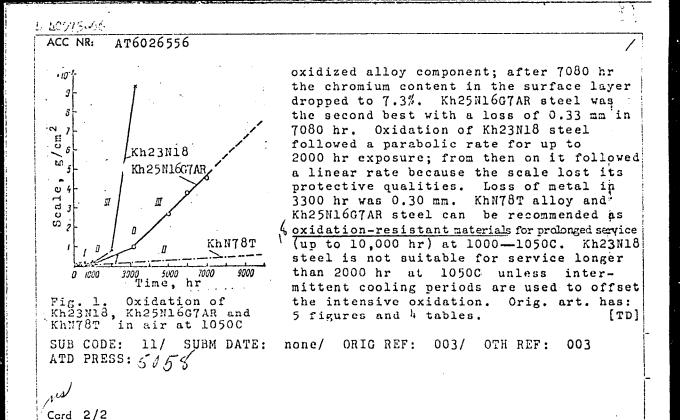
1. Trest Dneprostal'konstruktsiya.

PRUZHINIMA-GRANOVSKAYA, V.I.; KOZLOVA, N.M.; KOCHETKOVA, R.M.

Volt-empere characteristics and carrying capacity of nonlinear thervite resistors for commutational discharges. Elektrichestvo no.2:74-77 F *62. (MIRA 15:2)

1. Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina.
(Electric lines—Overhead)
(Electric protection)

L 40975-66 - EWT(m)/EWP(t)/ETI IJP(c) JD/JXT(CZ) ACC NR: AT6026556 SOURCE CODE: UR/2776/66/000/046/0140/0150 AUTHOR: Krylova, A. R.; Kozlova, N. N.; Zharkova, D. N. ORG: none 🖟 B+1 Oxidation behavior of oxidation-resistant Kh23N18 and TITLE: Kh25N16G7AR steels and KhN78T alloy at 1050°C SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 46, 1966. Spetsial nyye stali i splavy (Special steels and alloys), 140-150 TOPIC TAGS: alloy steel, nickel alloy, chromium containing steel, nickel containing steel, manganese containing steel, metal corrosion, metal property / Kh23N18 steel, Kh25N16G7AR steel, KhN78T nickel alloy ABSTRACT: The oxidation behavior of oxidation-resistant Kh23N18 (EI417) and Kh25N16G7AR (E1835) steels, and KhN78T (E1435) alloy at 1050C for & 7000-8000 hr has been investigated. Cylindrical specimens were 10 mm in diameter and 20 mm high. It was found that KhN78T alloy had the highest oxidation resistance (see Fig. 1). The spinel-type scale formed on this alloy had the best protective properties. The loss of metal after 8000 hr amounted to 0.07 mm. Chromium was the most Card 1/2



S/028/62/000/002/004/004 D223/D303

AUTHORS:

Kaplan, A.S., Kozlova, N.N. and Krylova, A.P.

TITLE:

New steels and alloys

PERIODICAL:

Standartizatsiya, no. 2, 1962, 50-52

TEXT: The new Standard GOST - 5632 - 61, which replaces the old GOST - 5632 - 51, was introduced in January 1, 1962. It covers 99 types of steels and alloys. These are divided into three groups: Corrosion-resisting, heat-resisting and heat and stress-resisting. Corrosion-resisting steels can withstand electrochemical corrosion (atmospheric, soil alkali, acid, salt, sea etc.); the heat-resisting type, when unloaded or slightly loaded state resists surface deterioration in a gaseous medium at temperatures above 550 C. Heat and stress resisting type operates subject to stresses at high temperatures. Division according to structural characteristics: Martensite, martensite-ferrite, ferrite, austen-ite-martensite, austenite-ferrite and austenite types. The new chemical classification is made on a ferro-nickel and nickel basis. Alloys

Card 1/2

S/028/62/000/002/004/004 D223/D303

New steels and alloys ...

a) have over 65% Fe+Ni and the ratio of Ni to Fe is about 1:1.5; alloys b) have more than 55% of Ni. The comparison of the old and new standards for all three groups is given. For each type its application is indicated according to working temperatures. The maximum amount of S and P is given by groups. The new names and their comparison with old names are given. Names have the form of letters, e.g. nickel (H) and its content in % (say 7%) is given as H7 (N7) etc. Tables giving all possible specific data on application, temperature and duration are addited to the Standard.

Card 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

KOZIOVA. N. F.

USSR/Chemistry

Card 1/1

Authors

Peregub, E. A., and Kozlova, N. P.

Title

Method of determining alkylchlorosilane vapors in the air

Periodical :

Zhur, Anal. Khim, 9, Ed. 1, 47-50, Jan-Febr. 1954

Abstract

The toxicity of vapors of silicon organic compounds (alkylchlorosilanes) brings up the problem of determining their presence in the air of working places. The method of determining small concentrations of alkichlorosilane vapors in the air is described. The three basic steps of the method are: 1) collection of alkylchlorosilane vapors the air; 2) mineralization of the silicon organic substance with consequent melting of the cinders and 3) establishment of optimum conditions for colorimetric determination of silicon according to the most sensitive reaction of formation of silicon-molybdenum blue.

Seven references. Tables, graph.

Institution :

State Scient-Research Institute of Labor Hygiene and Professional

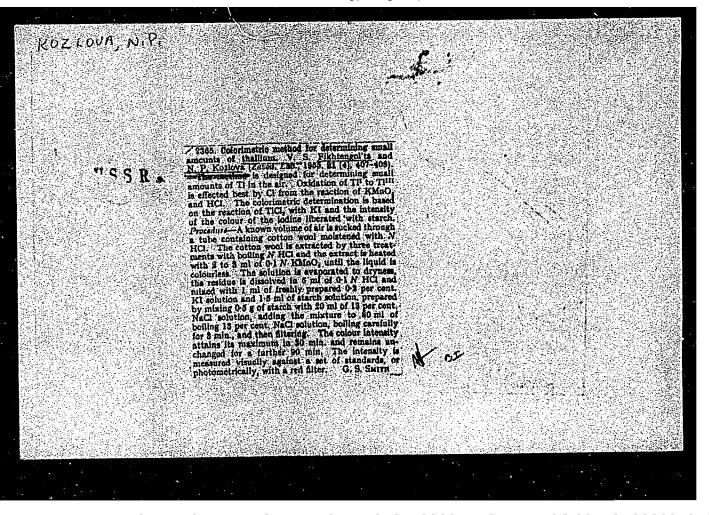
Diseases

Submitted

April 3, 1953

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP8

CIA-RDP86-00513R000825910



KOZLOVA, N.P.

AUTHORS:

Fikhtengolits, V.3., Kozlova, N.P.

32-8-12/61

TITLE:

A Rapid Method for Determining Nickel Carbonyl in the Air (Bystryy metod opredeleniya karbonila nikelya v vozdukhe)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 8, pp. 917-917 (USSR)

ABSTRACT:

In the production process as well as during the application of nickel carbonyl, which is a strong poison, the possibility has to exist always to control the air for its content. The paper recommends a method which is based on the reactivity of nickel carbonyl to haloids. Special absorbers are used for a continuous removal of nickel carbonyl from the air. In this connection it is recommended here to use a 1,5 % solution of iodine in carbon tetrachloride. For a rapid control of nickel carbonyl in the air of laboratories it is recommended to make a scale of test tubes with sample reactives in which the reactive elements, after an exposure of 3 - 5 minutes, are well shut and sealed with paraffin wax and thus stored in the dark. If necessary, they are used for comparison (according to their color nuance). This scale must, however, be controlled from time to time. The paper also describes an absorber constructed by Polezhayev. There are 2 tables.

Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

A Rapid Method for Determining Nickel Carbonyl in the Air.

32-8-12/61

ASSOCIATION:

Leningrad Institute for Labor Hygiene and Occupational Diseases

(Leningradskiy institut gigiyeny truda i profzabolevaniy)

AVAILABLE:

Library of Congress

Card 2/2

KCZLOVA, N.P., inzh.; KCRNEYEVA, N.A., inzh.

Sheet copper with improved technological properties. Khim.mash.
no.4:25-28 Jl-Ag '62. (MIRA 15:7)

(Copper—Testing)

STOROZHENKO, Aleksandr Panteleyevich; KOZLOVA, Neonila Petrovna; GARBER, T.I., red.izd-va; LOMILINA, L.E., teknn.red.

[Practices in coal preparation for coking] Opyt obogashcheniia uglei dlia koksovaniia. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1959. 109 p. (MIRA 13:2)

(Donets Basin--Coal preparation) (Coke)

STOROZHENKO, Aleksandr Panteleyevich; SOKOLOV, Vladimir Gennadiyevich; KOZLOVA, Neonila Patroyna; GUSAROVA, Mariya Afrikanovna; VORONOV, Kuz'ma Denisovich; KARPOVA, N.N., otv. red.; TURCHENKO, V.K., otv. red.; GARBER, T.N., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Maintenance of machines in coal-preparation plants] Ukhod za mashinami na ugleobogatitel nykh fabrikakh. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 258 p. (MIRA 15:1)

(Coal preparation-Equipment and supplies)

KOZLOVA, N. S., Cand Med Sci (diss) -- "Vitamin A and carotene in the blood serum of whooping-cough patients". Leningrad, 1959. 11 pp (Leningrad Pediatric Med Inst), 350 copies (KL, No 9, 1960, 128)

KOZLOVA, N.S.

Vitamin A and carotene in whooping cough in children treated with vitamin preparations. Pediatrila 37 no.6:54-60 Je 159. (MIRA 12:9)

1. Iz kafedry infektsionnykh bolezney u detey Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - prof.N.T. Shutova) i Detskoy infektsionnoy bol'nitsy imeni K.Libknekhta (glavnyy wrach S.P.Novikova).

(FISH LIVER OIL, ther.

whooping caugh, vitamin A & carotene in blood in treated child. (Rus))

(WHOOPING COUGH, ther.

cod liver oil & vitamin A, blood carotene & vitamin A in treated child. (Rus))

(VITAMIN A. ther. use, whooping cough, blood carotene & vitamin A in treated child. (Rus))

(CAROTENE, in blobd,

in whooping cough after cold liver oil & vitamin A ther. (Rus))

N.S.	
	N.S.

Vitamin A and carotene metabolism in healthy children. Vop. okh. (MIRA 13:10) mat. i det. 5:22-26 S-0 '60.

l. Iz kafedry infektsionnykh bolezney u detey Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - prof. N.T. Shutova).
(VITAMINS--A) (CAROTENE)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

- 1. KOZLOVA, N. S.
- 2. USSR (600)
- 4. Soil Moisture Chu Valley
- 7. Influence of water film in the aggregation of certain soils of the Chu Valley. Trudy Sek. pochv. kirFan SSSR no.2, 1949.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

- 1. KOZLOVA, N.S.: KURBATOV, M.S.
- 2. USSR (600)
- 4. Chu Valley Soils
- 7. Structure formation in soils of the Chu Valley. Trudy Sek, pochw. KirFAN SSSR no. 2. 1949

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

Country : Soil Science. Physical and Chemical Properties Category of Soil. 53370 Abs. Jour. : : Kozlova, N.S. Author : Kirghiz Agricultural Institute Institut. : The Role of Humates in Structure Formation Jitle Orig. Tim.: Tr. Kirg. s.-kh. in-ta, 1956, vyp. 9, 17-19 : The experiments were made on mountainous dark Abstract chestnut soil, foothill sierozem and garden soil. The largest amounts of humates were observed in the garden and mountain dark chestnut soils This explains the increased stability of the structural constituents in these soils. methods are recommended to increase the humate part of the soils for structural formation and augmented crop yields on sicrozens. -- V.A. Molodtsov 1/1 Card: J-19

KOZLOVA, N.V.

Effect of Co⁶⁰ irradiation of various intensities on the regenerative capacity of the skeletal muscle tissue. Biul.eksp.biol.i med. 47 no.8:94-99 Ag 159. (MIRA 12:11)

1. Iz otdela eksperimental'noy morfologii (zav. - prof. G.S. Strelin) TSentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radio-logii (dir. - prof. M.N. Pobedinskiy) Ministerstva zdravookhraneniya SSSR, Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(COBALT radioactive)
(MUSCLES radiation eff.)
(REGENERATION radiation eff.)

, 17(10) AUTHOR:

Kozlova, N. V.

SOV/20-127-5-52/58

TITLE:

The Effect of Local Fractioned Exposure to X-rays on the Course of Regeneration Process in Cross-striated Muscular Tissue

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 1121-1124 (USSR)

ABSTRACT:

A long-drawn effect of small doses of ionizing radiations on the organism does not cause distinctly marked morphological changes in the intact muscle, but inhibits the regeneration of mechanically injured muscles. In trying to explain this phenomenon the author drew the conclusion that the cross-striated muscles are sensitive to a chronic effect of ionizing radiations. It was assumed that the damage caused by rays is, so to say, accumulated (they sum up) if the irradiation is long and continuous. The lacking or slow regeneration is assumed to be the reason of this phenomenon. In order to clarify whether all that is only a consequence of the radiation disease the author investigated the effect mentioned in the title under conditions excluding a chronic radiation disease. Male white mice the whole body of which was screened by a lead plate (4 mm thick), except

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SOV/20-127-5-52/58

The Effect of Local Fractioned Exposure to X-rays on the Course of Regeneration Process in Cross-striated Muscular Tissue

the left tibia served as experimental animals. The quantity of the individual doses and the intervals between the exposures were varied, the total dose amounted, however, in either variant to 3000 r. The variants were the following ones: Ist series: irradiation every third day during 1 month with 300 r per exposure. IInd series: 100 r during 1 month. IIIrd series - control, no irradiation. The right not irradiated extremity served in the series (I) and (II) as an additional control. The animals did not show symptoms of a radiation disease and none of them died. After a dose of 3000 r has accumulated the m. tibialis anterior of both hind legs was mechanically injured through the skin up to a depth of its thickness. Figure 1 shows microscopic pictures of the regenerating muscles in the mentioned experimental series. It is concluded from the results that the posttraumatic regeneration capacity of the striated muscles seems to be considerably inhibited after a local fractioned irradiation. This agrees with the results of Ye. V. Dmitriyeva (Ref 1). Unique doses of 100 and 300 r which do not disturb the regeneration (Refs 2,6) inhibit the latter considerably if the exposure

Card 2/3

SOV/20-127-5-52/58

The Effect of Local Fractioned Exposure to X-rays on the Course of Regeneration Process in Cross-striated Muscular Tissue

> is repeated. The inflammation reaction differed under the given experimental conditions scarcely from the control. The growth of the granulation tissue was also not considerably suppressed. This growth acts upon the regeneration process as it was detected in previous papers by the author and T. N. Tuzhilkova (Ref 6), V. P. Mikhaylov (Ref 4), and Ye. V. Dmitriyeva (Ref 1). This speaks in favor of the fact that the inhibition observed is the consequence of the damage of the muscular tissue itself. All that confirms the initially mentioned assumption of G. S. Strelin (Ref 7) concerning the "summing up" of the radiation damage. There are 1 figure and 7 Soviet references.

ASSOCIATION:

Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii (Central Scientific Research Institute of Medical

Radiology)

PRESENTED:

April 27, 1959, by N. N. Anichkov, Academician

SUBMITTED:

April 18, 1959

Card 3/3

KOZLOVA, N.V.

Lessening antineoplastic resistance in an irradiated organism long after the exposure. Dokl. AN SSSR 150 no.4:916-919 Je '63. (MIRA 16:6)

1. TSentral nyy nauchno-issledovatel skiy institut meditsinskoy radiologii. Predstavleno akademikom N.N. Anichkovym.

(RADIATION--PHYSIOLOGICAL EFFECT)

(ONCOLOGY)

KOZLOVA, N.V.; SUKHOV, F.F.; BAZOV, V.P.

Spectral determination of a relative content of 1,4-cis, 1,4-trans, and 1,2-configurations in polybutadiene samples. Zav. lab. 31 no.8:968-970 '65. (MIRA 18:9)

1. Nauchno-issledovatel'skiy fiziko-khimicheckiy institut imeni Karpova, Moskva.

KOZLOTA, H. V.

KOZLOMA, N. V.: "Progressive procedures for using fertilizers on potatoes on sod-podzolic soils in connection with the properties of the particular variety." Min Higher Education USSR.

Leningrad Agricultural Inst. Leningrad, 1986. (MISS-ENTATION FOR THE DECRES OF CALMIDATE IN AGRICULTURAL SOLENCE).

Knizhnaya Letopis', No. 25, 1956. Mosmow.

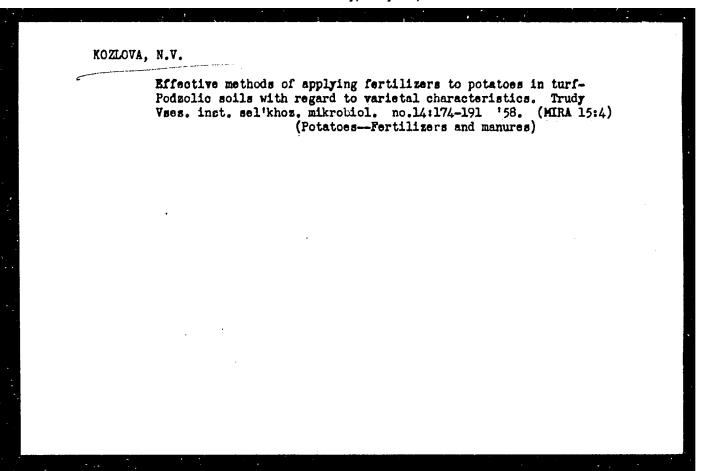
SAMOYLOV, I.I., akademik; BUSHUYEVA, T.M., kandidat biologicheskikh nauk; KOLLOVA, N.V., kandidat sel'skokhozyaystvennykh nauk.

Ziffectiveness of organomineral mixtures of various peats with around hyposphorite. Dokl. Akad. sel'khoz. 22 no.3:20-24 '97.

(MIRA 10:6)

! Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennoy mikrobiologii.

(Pertilizers and manures) (Phosphorites) (Peat)



SAMOYLOV, I.I. [deceased]; KOZLOVA, N.V.; RUSINOVA, I.P.

Catalase activity in different peat types. Trudy Vses. inst. sel'khoz. mikrobiol. 16:109-115 '60. (MIRA 13:9)

(Catalase) (Peat)

SAMOYLOV, I.I.; KOZLOVA, N.V.; RUSINOVA, I.P.; KRUGLOV, Yu.V.

Effect of bacterization on the activity of organomineral mixtures.

Trudy Vses. inst. sel'khoz. mikrobiol. 16:116-122 '60. (MIRA 13:9)

(Fertilizers and manures) (Soil inoculation)

L 47010-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6027285 () SOURCE CODE: UR/0191/66/000/008/0060/0062

AUTHOR: Apukhtina, N. P.; Zaytsev, N. B.; Rappoport, L. Ya; Kozlova, N. V.

净

ORG: none

TITLE: Effect of y radiation on polyesters of adipic acid and diethylene glycol

SOURCE: Plasticheskiye massy, no. 8, 1966, 60-62

TOPIC TAGS: gamma radiation, irradiation effect, polyester plastic, adipte acid, diethylene glycol indication Chemisity

ABSTRACT: In a study of the effect of γ radiation on saturated aliphatic polyesters (which are used as the main component in urethane/polymors), polydiethylene adipates (PDEA) of molecular weight (MM) ~ 2000 and 4000 of the structure

were irradiated with radiation from Co⁶⁰. The amount of absorbed energy was determined by ferrous sulfate desimetry. A study of the decendence of the relative viscosity of benzene solutions of the polyesters on the dose absorbed showed a predominant role of cross-linking of PDEA during the irradiation, this effect being more pronounced as MV increases. In spectroscopic data indicate that the polyester chains

Card 1/2

UDC: 678.674'460'42.01 : 539.122

L 47010566

ACC NR: AP6027285

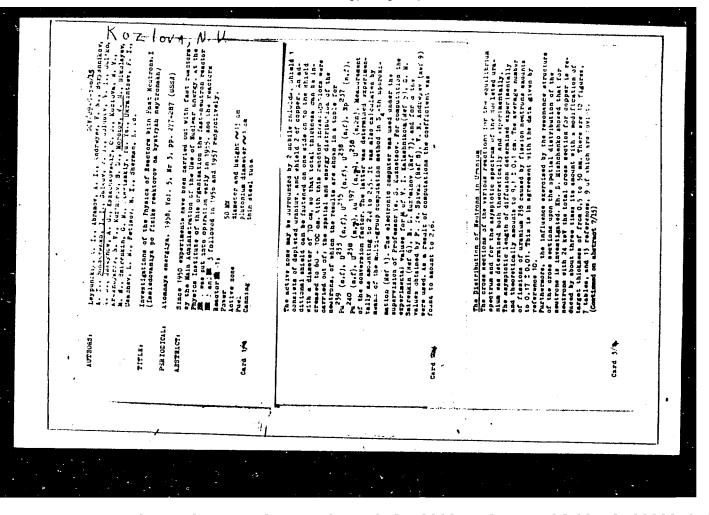
broak down at the ester group, forming CO and CO₂; this is associated with a decrease in the quantity of C=0 bonds and the appearance of unsaturation in the chain as the dose increases. The cross-linking occurs at the methylene groups. The different positions of the IR bands of α and β methylene groups made it possible to evaluate the relative rates of disappearance of these two types of groups under the influence of γ radiation. The polyester with NW ~4000 irradiated with 200 Mrad converts into a rubborlike elastomer consisting of a mixture of cross-linking and degradation products. Hard, cross-linked polyurethanes were successfully obtained from the irradiated polyesters at equimolar ratios of polyester to 2,4-toluylene diisocyanate at moderate temperatures (60-70°C). The degree of cross-linking of polyurethanes as a function of the dose was determined from the glass transition temperature of the polymers. Orig. art. has: 3 figures and 3 tables.

SUB CODE: 07,12/SUEM DATE: none/ ORIG REF: 002

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-F

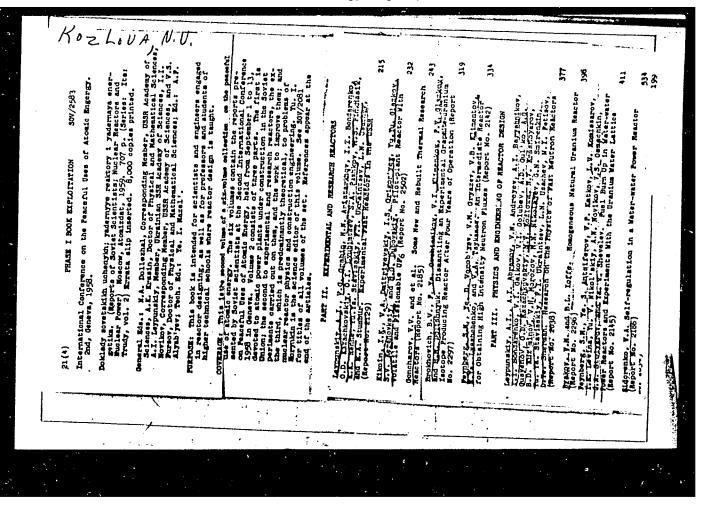
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i. I., Andrej kov. W. I., cakovskiy. O.	I Sherman. B of Reactors ktorov ma by:	ics of the F s center of is higher by ive yield of m shield exi	the same as mater-uraniza	ration latt. saluminum. slattice spelatitice spelatice spelatitice	er output of quantity of remand by 35 storium is pi nr output of cier is isorr	re in defail is 120 ML, ti The Peactor good as a co	active son are from a ci arranian alu- ca. The ura- merive sone is the appeal	ion for this saf to the safethilos of far, and the far and the far	
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AUTHORS:

Kozlova, N. V., Yurova, L. N.

TITLE:

Interaction of fast neutrons with uranium and thorium nuclei

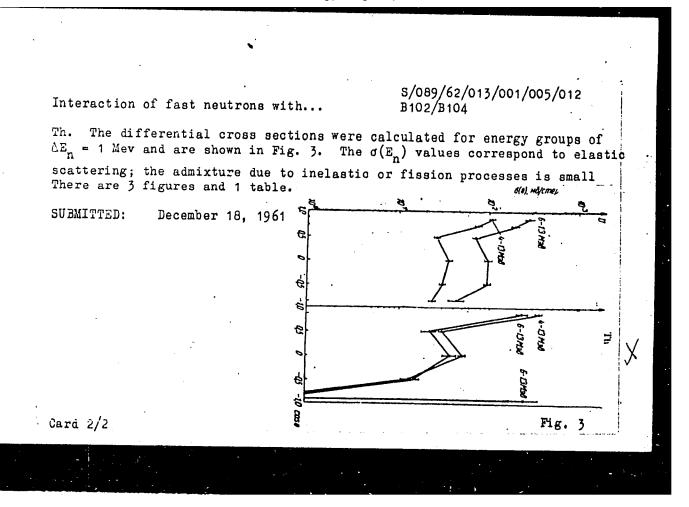
PERIODICAL:

Atomnaya energiya, v. 13, no. 1, 1962, 62-63

TEXT: A beam of reactor neutrons with energies between 3.5 and 13.5 MeV (in which the number of neutrons decreases linearly with increasing E_n) was

used to study the interaction of neutrons with U and Th nuclei. The beam passed along a steel-lined channel (25 mm wide) and through a paraffin shield to strike the U or Th target, a ball of 23 mm diameter. The scattered neutrons were recorded by HMK¢N-K (NIKFI-K) nuclear emulsion plates of 100 μ thickness. The experiment was carried out in three stages: first the scattered neutrons were recorded, then the target was removed and the background measured, finally the target was replaced by an emulsion plate and the spectrum of the reactor neutrons was measured. The resulting spectra $\sigma(E_n)$ are stated numerically for the scattering angles 30, 45, 60, 90, 120, and 150° in the case of U and 30, 60, 90, 120 and 165° in that of

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8/3064/63/000/004/0059/0090

AUTHOR: Yurova, L. N.; Kozlova, N. V.

TITLE: Non-elastic scattering of fast neutrons

SOURCE: Moscow. Inzh.-fiz. institut. Nekotory*ye voprosy* inzhenernoy fiziki (Some problems in engineering physics), no. 4, 1963, 59-90

TOPIC TAGS: neutron, neutron scattering, fast neutron, non-elastic scattering, magnesium target, nickel target, copper target, zirconium target, lead target, bismuth target

ABSTRACT: In the basic experiment, the results of which are described in this article, neutrons with an energy $E_{\rm O}=2.5$ Mev were obtained as the result of the reaction D(d, n) He³ with a mean energy of incident deuterons of approximately 170 kev. The tests were conducted on a plane almost perpendicular to the direction of the incident deuterons. The source spectrum consisted of the basic group of neutrons with energy of 2.5 ± 0.120 Mev and neutrons with energy less than 2.0 Mev, caused by the background. To record the neutrons, nuclear photoplates type 4 and Ya-1-2105 obtained from the N.-i. kinofotoinstitut (Scientific Research Institute for Motion Picture Photography) were used with an emulsion layer 200 and 103 microns thick, respectively. In terms of their chemical composition,

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these emulsions resemble the Ilford C-2 emulsion and in the 0.5 - 2.5 Mev energy region have the same decelerating ability. The geometry of the experiment is illustrated. Targets of the test materials were made in the form of truncated cones. The dimensions of these cones and other experimental data are tabulated. The neutron source, the target and the detector are so positioned as to record neutrons scattered at an angle of 100 - 150° (calculated mean scattering angle = 100°). In order to increase the scattering, two targets were used and a photo-plate dector was placed between them, with the emulsion-covered side of the plate coinciding with the direction of propagation of the neutrons. With this type of arrangement, the detector simultaneously records the scattered and the source neutrons. In order to record the background neutrons and the source neutrons, a second detector was positioned symmetrically with respect to the first. Thus, this geometrical arrangement made it possible, in a single experiment, to obtain the spectra and intensity of three different neutron streams (source neutrons, background neutrons and scattered neutrons) at the same time. The yield proton traces were measured on the plates in two directions: in the direction of the source neutron streams and in the direction of the background and scattered neutron streams. Measurements were made of the traces of all yield protons

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located in the emulsion at an angle of not more than 13° to the stream of incident neutrons. In this experiment, the plates measuring the source neutron spectrum also served as monitors. The different measurements were compared on the basis of the intensity of the neutrons of the basic group of the source neutron spectrum (energy region 2.0 - 2.6 Mev), with the same intensity taken in the calculation of the scatter sections. The spectra of neutrons with a minimum energy of 0.8 Mev were considered. In the spectrum of the scattered neutrons, a number of maxima can be discerned, the position of which was determined with an accuracy of ± 50 kev. To each maximum seen in the spectrum of the unelastically scattered neutrons there corresponds a definite excitation energy of the forming nucleus. The derived values for these energies are given in a long table, which incorporates the results of previous studies as well. The various excitation levels and energy values are discussed in detail for each of the test materials (magnesium, nickel, copper, zirconium, lead and bismuth). In a further section of the article, a formula is given for calculating the cross section of elastic and non-elastic scattering of neutrons with an energy of 2.5 Mev and the results of such computations are given in a table. Two control experiments to check the results of the basic experiment are described, and the measurement of the spectra and section of neutrons with an energy of 2.5 Mey non-elastically scattered by lead nuclei at angles of 0 - 40° and 100° is considered. The values

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derived in this work for the elastic scattering section are in good agreement with the results of other previously published work. This is also true of the energy values of the nuclear excitation levels. The cross section values for non-elastic neutron scattering with excitation of individual nuclear levels are, by and large, in satisfactory agreement with previous findings. All results confirm the presence of anisotropy in the angular distribution of non-elastically scattered neutrons with incident neutron energy on the order of 2.5 Mev. "The measurements of Ni were carried out by T.Ye. Petrova in 1954, those on Zr by G.V. Kotel'nikova in 1955." Orig. art. has: 5 tables and 11 figures.

ASSOCIATION: Inzh.-fiz. institut, Moscow (Engineering Physics Institute)

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DATE ACQ: 05Mar64

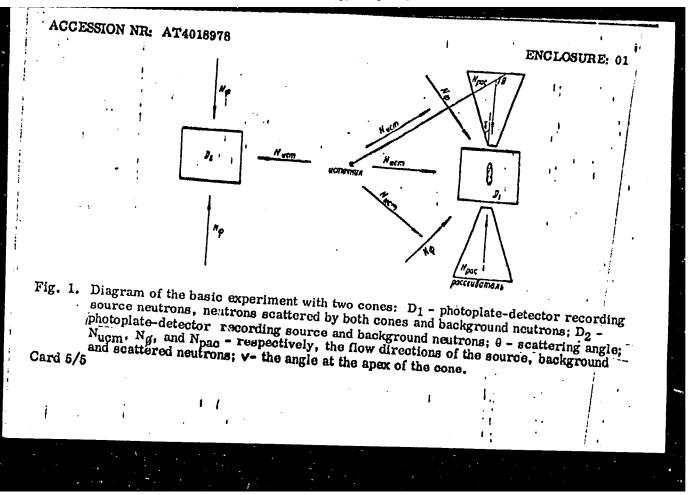
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OTHER: 024

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SOV/137-58-5-11661

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, pp 311-312 (USSR)

AUTHORS:

Rudnevskiy, N.K., Kozlova, N.V., Kazarina, T.P.

TITLE:

Using a Spark and an Arc for Investigations Into the Dependence of the Intensity of Magnesium and Aluminum Lines on Their Concentration in a Binary Magnesium - Aluminum Alloy

PERIODICAL:

Uch. zap. Gor'kovsk. un-ta, 1958, Nr 32, pp 161 - 167

ABSTRACT:

The authors investigated the dependence of the absolute and the relative intensity of Mg and Al lines on their concentration in an Mg-Al alloy. A spark collected by the Rayskiy circuit and an a-c arc of the Sventitskiy circuit were used as sources for the spectrum excitation. Mg-Al alloys contained 2.3 - 9.8% Al. The specimens were bar-shaped having 1.5 x 4.5 x x 3 cm dimension. The photographic records of the spectrum were made with an ISP-22 spectrograph. When analyzing Mg-Al alloys in the a-c arc, compared to the spark, changes in the current of

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its composition cause greater changes in the absolute intensity

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Using a Spark and an Arc for Investigations Into the Dependence of the Intensity of Magnesium and Aluminum Lines on Their Concentration in a Binary Magnesium - Aluminum Alloy

of the alloy base lines, while the absolute intensity of Mg are and spark lines remains practically unchanged in the spark of the investigated Mg concentration range, the changes in the arc are substantial. The character of changes in the intensity of Mg are and spark lines is different. This may be explained by changes in the arc discharge temperature. It is shown that in the a-c arc the dependence of absolute and relative intensity of the Al I 3082.16 Å arc line on the Al concentration in the alloy (2-10%) is not described by Lomakin's formula, but by the exponential formula $J = Ae^{kC}$, where A and k are constant values, and c is the Al concentration in the alloy.

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