"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137

MALAKHOV, G.N., prof., doktor tekhn.nauk; ZHELTETSKIY, A.Ye.; CHERNENKO, A.R.; VASHCHENKO, V.S.; <u>HIKULIN, S.Ye</u>, kand.tekhn.nauk; LINNIK, G.F., kand.tekhn.nauk; LAVRINENKO, V.F., kand.tekhn.nauk; SULINA, G.S., gornyy insh.

> Breaking ore in a "compressed" medium in the Dzershinskiy Mine was not worthwhile. Gor.shur. no.8:21-25 Ag '62. (MIRA 15:8)

Glavnyy insh. rudoupravleniya im. Dzerzbinskogo (for Zheltetskiy).
 Zaveduyushchiy shakhtoy "Gigant" rudoupravleniya im. Dzerzbinskogo (for Ghernenko).
 Glavnyy inzh. shakhty "Gigant" rudoupravleniya im. Dzerzbinskogo (for Vashchenko).
 (Krivoy Rog Basin---Kining engineering)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137"

VASHCHENKO, V.S., insh.; SHMALIY, V.Ya., insh.; MIKULIN, S.Ye., kand. tekhn. nauk; LINNIK, G.F., kand. tekhn. nauk; SULDMA, G.S., insh.

> Improving the operating efficiency at the "Gigant" mine. Net. 1 germorud. prom. no.5:52-56 S-0 '63. (MIRA 16:11)

1. Shakhta "Gigant", rudnik im. Dmershinskogo (for Vashchanko, Shmaliy). 2. Krivoroshskiy gormorudnyy institut (for Nikulin). 3. Institut avtomatiki Gosplana UkrSSR (for Linnik). 4. Krivoroshskiy gornorudnyy tekhnikum (for Sulima).

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CIA-RDP86-00513R0011372

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137

LINNIK, G.F., kand. tekhn. nauk; NIKULIN, S.Ye., kand. tekhn. nauk; SULIMA, G.S., inzh.; SADOVOT, I.P., inzh.

> Certain results of the use of short-delay blasting in the Dzerzhinskii mine. Izv. vys. ucheb. zav.; gor. zhur. 6 no.9: 94 '63. (MIRA 17:1)

 Institut avtomatiki Gosplana UkrSSR (for Linnik).
 Krivorozhskiy gornorudnyy institut (for Nikulin, Sulima, Sadovoy). Rekomendovana kafedroy shakhtostroyeniya i provedeniya gornykh vyrabotok Krivorozhskogo gornorudnogo instituta.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137

HIKULIN, T. G. - Chair of Farasitology, Hoseow Veterinary Institute

## "Therapy of Mulleriesis in Gosts"

The causative agent of mulliariasis in goats (and sheep) in the nematode Mullerius cappillaris, which lives on the bronchi, bronchioles, slveol, and parenchyms of the lungs of the host. Hilleriasis is encountered most frequently in the forest and forest steppe regions.

Of the large number of remadies tested for this disease, the best results were obtained in intravenous, intramuscular, and suboutaneous application of emotione hydrochloride (Veteringrive, Vol 28, No 4, 1951, p28) U-5246, 21 Dec 53

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 and the second USSR/Diseases in Farm Animals. Diseases Caused by Arachno-1. 3 Entons. Abs Jour: Ref Zhur-Biol., No 12, 1958, 54962. Author : Mibulin, T. G., Potenkin, V. I. : Vitebsk.Institute of Veterinary Sciences. Inst : To the Method of Applying Hexachloran Powder for the Title Control of the Chicken Body Louse. Orig Pub: Uch. zap. Vitebskogo vet. in-ta, 1956, 14, No 1, 192-194. Abstract: No abstract.

Card : 1/1

CIA-RDP86-00513R001137



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 : e., 5 1 STANSIE I. NIKULIN, V.B., Insh. Determining the inflow of surface waters into open-pit since. . . . . . . Isv. vys. ucheb. sav.; gor. shur. no. 10:6-11 '59. (HIRA 13:5) 1. Krasnoyarskiy institut tevetnykh metallov. (Strip mining) (Mine water) 



NIKULIN, V. B. Cand Tech Sci - (diss) "Formation of water influx and drainage in opening working of deposits." Moscow, 1961. 25 pp; (Ministry of Higher and Secondary Specialist Education RSESR, Moscow Mining Inst imeni I. V. Stalin); 200 copies; price not given; (KL, 6-61 sup, 222)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000







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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137"

EISHLAV, V.I., prof., doktor tekhn. nauk; NIKULIN, V.E., kand. tekhn. naukg USHAKOV, V.I., insh.
Removal of water in pneumatic mine networks under permafrost conditions. Gor. shur. no.7148-50 Jl '62. (NIRA 1618)
1. Meskovskiy institut stali i splavov.



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137

MIKULIN, V.B., dotsent

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51-10-1

Analysis of water drainage at the Novyi Sibay strip mine. Izv.vys. ucheb.zav.; gor.zhur. 7 no.12:7-11 464. (MIRA 18:2)

1. Moskovskiy institut stali i splavov. Rekomendovana kafedroy mekhanizatsii gornykh rabot.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137



CIA-RDP86-00513R001137

SMOLONOGOV, Ye.P.; NIKULIN, V.I.; KOLESNIKOV, B.P., prof., doktor biol. nauk, otv. red.; KOSYAKOV, P.O., kand. ekon. nauk, otv. red.; PAL'MIN, M.Z., tekhn. red.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

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BORD GLARS

[Natural and economic conditions of the utilization of forests in the southern part of the Ural Area of the Ob' Valley] Prirodnye i ekonomicheskie usloviia ekspluatatsii lesov v iushnoi chasti Ural'skogo Priob'ia. Sverdlovsk, AN SSSR, 1963. 119 p. (MIRA 16:8) (Ob' Valley--Forests and forestry--Economic aspects)

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CIA-RDP86-00513R001137



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137"

S/126/62/013/003/004/023 24,2560 E025/E535 AUTHORS: Kobolev, L.Ya., Nikulin, V.K. and Pomortsev, R.V. TITLEI On the representation of the electrical conductivity tensor by means of line integrals. I PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.3, 1962, 351-358 TEXT: An expression is written down for the electrical current density of a nonrelativistic system of interacting particles in terms of the single particle Green's temperature function and the variation of the electrical current density is expressed as the integral of the product of the electrical conductivity tensor and the electric field. From this an expression is obtained for the electrical conductivity tensor which is simplified by neglecting magnetic fields. The single particle Green's function is then expressed in terms of the twoparticle Green's function and the connection between the density of the electrical conductivity tensor and the collision integral is given. The Green's functions for the one- and two-particle cases are then represented as line integrals in a functional space of vector trajectories for the case when magnetization is Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 也加速和認識的際的問題 df ll ANTINE CONTRACTOR On the representation of the ... \$/126/62/013/003/004/023 E025/E535 absent. The modifications necessary when the particles are magnetized are discussed. These enable the subsequent calculation of the temperature-time correlation in the system from the known distribution function of the particles in a self-consistent field. The variational derivatives of the one- and two-particle Green's functions are then calculated for the case when magnetic fields are absent. A series expression is obtained for the electrical conductivity tensor. In the appendix an approximate expression is obtained for the collision integral taking magnetization into account but the treatment is limited to the consideration of the first term of the compensation theory of the two-particle Green's function. ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni A. M. Gor'kogo (Ural State University imeni A. H. Gor'kiy) SUBHITTED: July 6, 1961 Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

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CIA-RDP86-00513R001137

1.9262-66 E:T(1)/EWT(m)/T/EWP(t)/E#P(b)/E#A(c) JD ACC NR: AP5022708 SOURCE CODE: UR/0181/65/007/009/2701/2737
AUTHOR: Gubanov, A. I.; Nikulin, V. K.
ORG: <u>Physicotechnical Institute im, A. F. Ioffe AN SSSR, Leningrad</u> (Fizikotekhni- cheskiy institut AN SSSR)
TITLE: Calculating the energy for penetration and <u>diffusion</u> of hydrogen in metals
SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2701-2707
TOPIC TAGS: theoretic physics, hydrogen, gas diffusion, metal physics, nonferrous metal
ABSTRACT: Many-body theory is used as a basis for determining the energy shift of the ground state when a point charge is introduced into a crystal lattice. The configu- ration energy is isolated from this shift. This energy is determined by the dielec- tric constant of the electron gas in the lattice and that of the free gas of inter- acting electrons, and also by the pseudopotentials of the ions which make up the lattice. The pseudopotentials, which are determined from spectroscopic terms, are used for explaining anomalous diffusion of protons in noble metals. Orig. art. has: 14 formulas, 1 table.
SUB CODE: 20/ SUBM DATE: 26Mar65/ ORIG REF: 003/ OTH REF: 014
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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011372

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IN STREET		
1	1.926)=66 EWT(1)/EWT(m)/T/EWP(+)/EWP(b)/Elth(c)	
	ACC NR: AP5022709 SOURCE CODE: UR/0181/65/C07/009/2708/2711 AUTHOR: <u>Nikulin, Y. K.</u>	
	ORG: Physicotechnical Institute im. A. F. Ioffe AN SSSR, Leningrad (Fiziko-tekhni-	
	cheskiy institut AN SSSR) 49.55	
	TITLE: The method of pseudopotentials for ion structures in a metal	
	SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2708-2711	
	TOFIC TAGS: theoretic physics, nonferrous metal, metal diffusion, solid state phy- sics	
	ABSTRACT: The parameters for pseudopotentials of free ions of noble metals are de- termined. These pseudopotentials are used for determining the lattice constants of these metals and the difference in bonding energies for Au and Ag. A theory for ano- malous diffusion of protons in noble metals is proposed on the basis of the pseudo- potentials derived in this paper. In conclusion, I thank <u>A. I. Gubanov</u> for consulta- tion, and <u>N. I. Lavnikova</u> for assistance with the calculations. Orig. art. has: 3 formulas, 1 table.	
	SUB CODE: 20/ SUBM DATE: 26Mar65, ORIG REF: 005/ OTH REF: 009	
	$\Theta O$ , the second seco	
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 \*\*\*<u>~</u>\_\_\_\_ 1 HIKULIN. Y.K. Invision of standards on normal refractory materials. Ogneupory 22 (NIBA 10:6) no. 5;228-229 . 57. . . 1. Ural'skoye otdeleniye instituta ogneuporov. (Befractory materiale -- Standards) 

CIA-RDP86-00513R001137

15(0), 15(2) AUTHORS:	Nikulin, V. M., Nefedkina, Ye. B. SOV/131-59-1-2/12
TITLE:	For Further Technical Progress (Za dal'neyshiy tekhnicheskiy progress)
PERIODICAL:	Ogneupory, 1959, Nr 1, pp 11 - 13 (USSR)
ABSTRACT: Card 1/2	The total production of the works for refractory materials of the Mosobleovnarkhoz in 1957 was 1.7 times greater than in 1950. The principal sources of the increase in production were: better utilization of equipment capacities, the elimination of bottlenecks, introduction of up-to-date experience, perfection of manufacturing processes, introduction of new modern refractory types of products. In the coming 7 years, it is intended to mechanize individual working operations and works departments; special attention will be paid to the questions of mechanizing the work of loading and unloading. The works in the Moscow area are getting substantial help from the scientific research institutes and the Khimiko-tekhnologicheskiy institut imeni Kendeleyeva (Chemical-Technological Institute imeni Kendeleyev). The Podol'skiy, Vnukovskiy, Snigirevskiy

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011372 "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137. For Further Technical Progress SOV/131-59-1-2/12 Demodedowskiy works have extended the assortment of their products and - within the 7-year scheme - they will be modernized and will partly be automatically controlled with a view of increasing production figures considerably. Card 2/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 NIKULIN, V.M. Labor productivity at refractories enterprises. Ogneupory 27 nc.11:514-516 '62. (KIFA 15:11) 1. Vostochnyy institut ogneuporov. (Refractories industry-Labor productivity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011372

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NIKULIN, Y.M., kand. ekonom. nauk; KHEZHNYAK, L.T., inzh.; OGANEZOVA, S.Z., inzh.; VINARIK, L.S., inzh.

Optimum layout for glass using the linear programming method. Stek. 1 ker. 22 no.11:11-15 N \*65. (MIRA 18:11)

CIA-RDP86-00513R001137





HIKULIN,	, ¥•X••
	Electrolytic polishing of KhV-5 tool steel. frudy KKHTI no.13:63-65 '48. (KIMA 12:12)
	<pre>1.Easanskiy khimiko-tekhnologicheskiy institut im. S.H. Kirova, kafedra fisicheskoy i kolloidnoy khimii. (Tool steel) (Electrolytic polishing)</pre>

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	likuli <u>n, Y. H.</u>
LUTICA :	the Orlant Ca
FITLE:	tation and Structure of the vavisimosti of origentater i vosstanovleniye kisloroda v mavisimosti of origen struktury kristallitov elektroda) II. The Reduction of Origen on the Different Faces of Tin Monocrystals (II. Vosstanovlenije on the Different Faces of Tin Monocrystals (II. vosstanovlenije biglorods na razlichnych granych monokristalla olova)
	Zhurnal fizichezkoy kuimii, 1950, Vol. 32, Nr 5,
PERIODICAL:	pp. 1035 - 1051 (00000)
ADSTRACT:	pp. 1055 2 1054 (county) In the present paper investigation results of the exygen re- duction on two surfaces (110) and (001) of a tin monocrystal are given. The monocrystals were not produced according to the method by Bridzhmen (Reference 3) but by the modified me- thed by B. N. Bushmanov (Reference 4) with a crystal orienta- thod by B. N. Bushmanov (Reference 4) with a crystal orienta- tion having been obtained by a special working technique. The electrodes were obtained by a cutting out of the oriented cry- electrodes were polished, by which means it was achieved stals and then were polished, by which means it was achieved that the electrode surfaces coincided with the desired sur- faces (110) and (001) to 1-2°. The experiments were carried out
Card 1/2	

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76-32-5-11/47 The Cathodic Reduction of Oxyger Depending Upon the Orientation and Structure of the Electrode Crystallites. II. The Reduction of Oxygen on the Different Faces of Tin Monocrystals with electrodes containing a passivation layer, as well as with electrodes not containing it, the method of investigation being similar to that in the previous work. From the graphically shown results it can be seen that the oxygen reaction on the different organal surfaces takes a different course, namely a stronger one on the surface (001) than on the surface (110); this is proof that in the electrochemi-cal reaction the crystallographical properties exert an essential influence on the reaction velocity. The removal of the passivation film effected an increase of the reaction velocity without changing the character of the dependence of the reaction on the crystal surface. There are 6 figures and 6 references, 6 of which are Soviet. ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan' Chemical Technological Institute iteni 3. M. Kirov) November 21, 1956 SUBMITTED: 2. Single crystals--Growth 3. Tin 1. Oxygen--Reduction 4. Electrodes--Surface properties Card 2/2crystals--Properties

TITLE:	The Cathodic Reduction of Oxyge tion and the Structure of Direct vosstanovleniye kisloroda v zav	troje Crystillites (Pathdmoye -
	the Electrode Processes on Tin nykh protessov na olo:	in) its The Constinuion of
PERIODICAL:	Zhurnal fizicheskoy khimii, 199 (USSR)	58, 703, 27, MH 7, 71,1451-1456
ABSTRACT : Card 1/4	Wagner and Traud (Ref 1) wegges of polarization curves for the reduction of oxygen, which Dela the present paper the investign were carried out according to mental part may be seen that an described mono- and polycrysta The electrolyte cell consist: the intermediate- and the apon being immergid into the cathod electrode served as control el	investigation of the catabalic shar (Refr 2, 3) then used. In ations mentioned in the title this method. From the experi- coording to a method earlier lline electrodes were produced. of 5 gloss vescels, the cathode- e vescel, the test electrode a vescel. A gilver chloride

CIA-RDP86-00513R001137

30V, 76-32-7-2,45 The Cathodic Heduction of Oxygen Depending on the Orientation and the Structure of Electrode Crystallites. III. The Inventigation of the Electrode Frocesses Ch. Tin

as prode in the polarographic determinations. The electrolyte was put into a thermostut (75 ± 0,2 = 0,5), shile the solution was mixed by means of a magnetic miner with a speed of 100 novagmin. The mesoneous of there charted out with a totentiometer with a mirror galvanometer of the type (1974, a polurograph of the system according to Geyrovskiy and a timetion microculonometer according to Kistyskovskiy, shereas th oxygen was determined according to the method by Winkler. From the experimental data obtained the angerage of the roaction of the cathodic oxygen reaction run calculated according to an equation, the results being represented graphically, the number of electrons a taking part compltaneously in the reaction were also colculated according to an equation by Delahay and are represented graphically as a function of the rotential. From it may be seen that the electrode processes taking part on tin depend on the structural properties of the electrode. At the surface of polycrystalline electrodes with a texture (101) a simultaneous formation of water and

Card 2/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 才空计学。1987年1月1日第二 finar and the second 117,71-51-7-8,75 The Cathodic Seduction of Section - Seconding on the Frientation and the Structure of Electrode Systellites, III. the Investigation of the flectrode rrocesses 🛲 Tin partly of hydrogen peroxide to the molential - 0.7 Wolt was found, above that only of hydrogen peroxide, whereas in the case of tin surfaces with a texture (211) as sell as mithout texture mater alone is only formed at low or higher potentials; in the intermediate range a simultaneous formation of water and hydrogen peroxide is found. The overvaliage of the oxygen reduction is in the case of (101) textures a little higher than in the case of electrodes with a (211) structure, or without a structure. .ith monocrystalline electrodes it was found that at the (110) section the water formation takes place at medium potential values, and that otherwise water and hydrogen peroxide are formed simultan scuely; at (001) sections, however, the formation of water and hydrogen peroxide take place within the whole potential range investigated. There are 13 figures and 7 references, 4 of which are Soviet. Coxel 3 4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA



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.5 (4) AUTHOR:	Nikulin, V. N.	SOV/76-33-6-29/44
TITLE:	and Structure of the Electr	zavisimosti ot oriyentatsii 1 troda). IV. Reduction of Oxygen
PERIODICAL	Zhurnal fizicheskoy khimii, pp 1360-1364 (USSR)	1959, Vol 33, Nr 6,
ABSTRACT:	and (110) of the lead single orientation of the single i orystallographic main direc the electrodes were made by fine structure (Figs 4-6), the above-mentioned crystal oxygen precipitation on the first examined, and it was current the most intense on (100) The investigation of	rygen on the faces (111), (100) crystal was investighted. The ead crystal and the Asternization of the stion was made by X-rays, whereupon suitable polishing. Figures of the as well as the X-ray pictures of faces (Figs 1-5), are given. The individual crystal faces was ascertained that with no external rygen precipitation occurs on face the electrode processes was made
Card 1/3	by polarization curves (PC	which were drawn in the common

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1 1 1 1 2 2 2 2 2 2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 SOV/76-35-6-29/44 Cathodic Reduction of Oxygen Depending on the Orientation and Structure of the Electrode Crystallites. IV. Reduction of Oxygen on Lead way and by the indirect method (Ref 8). It was observed that the (PC) obtained by the one and the other method (Figs 9, 10) are different. The difference of the (PC) for face (111) is due to the formation of hydrogen peroxide which is especially high on the face. The computation of the apparent number of electrons participating in the reaction shows (Figs 11-13) that on faces (110) and (100) a four-electron process is going on which leads to the formation of water, whereas on face (111) a strong two-electron process takes place, by which hydrogen peroxide is generated. This difference is explained by the dissimilarity of the atom packing on the various crystal faces. The most efficient packing of oxygen molecules can take place on face (110), and the least efficient on face (111) (Fig 14). The oxygen more intensely adsorbed on faces (110) and (100) will to a higher extent be reduced to water than that on face (111). There are 14 figures and 22 references, 15 of which are Soviet. Card 2/3

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CIA-RDP86-00513R001137

·	77662
18.7300	507/80-33-2-37/32
AUTHORS:	Nikulin, V. N., Tsypin, M. 2.
TITLE:	Brief Communications. Electrolytic Polishing of Silver in Sodium Thiosulfate Solutions
PERIODICAL:	Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, pp 469- 471 (USSR)
ABSTRACT:	Electrolytic polishing of silver in a sodium thiosulfate solution gave very good results, comparable to those obtained in cyanate or thiocyanate baths. Stainless steel cathodes were used; their sizes were 4 to 5 times as large as the size of the treated objects. Optimal condi- tions were as follows: concentration of the electrolyte, 600 to 1300 g $Na_2S_2O_3$ ·10H <sub>2</sub> O per liter; current density, 4 to 5 amp/dm <sup>2</sup> ; temperature, 20 to 25° C. Intermittent current was used with working periods of 5-4 seconds. To prevent the darkening of the solution by insoluble silver sulfides which make direct observation of the treated objects impossible, a separating diaphragm was
Card 1/2	used; NaNO <sub>3</sub> solution (200 g/liter) was the catholyte

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Brief Communications. Electrolytic Polishing of Silver in Sodium Thiosulfate Solutions 77662 50**V/80-33-**2-37/52

used here. Raising the current density above the optimum value causes the covering of the entire surface with a film and the cessation of the polishing; lowering the current density below the optimum value causes the dissolving of the treated surface. The process is accompanied by a periodic formation and dissolution of a film on the silver surface, similarly to electrolytic polishing using cyanate solutions. It can be assumed, therefore, that the mechanism of the smoothing of the surface is identical in both instances. There are 7 Soviet references.

SUBMITTED: April 9, 1959

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001137



APPROVED FOR RELEASE: Tuesday, August 01, 2000

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 42.11至35年18月 Electrode Potentials of the Silver Monocrystal s/076/60/054/012/019/027 B020/B067 potentials given in the Tables prove that the potential depends on the crystallographic orientation and the surface structure of the electrode with the surface difference during polarization and in nonequilibrium state being more pronounced. The results obtained indicate that the electrode potentials of silver are determined not only by the interaction forces in the crystal lattice but also by the interaction forces of the ion atoms with the molecules or ions of the electrolyte. There are 3 tables and 8 references: 6 Soviet, 1 US, and 1 British. Kasanskiy khimiko-tekhnologicheskiy institut in. S.M.Eirova ASSOCIATION: (Kasan' Institute of Chemical Technology imeni S. M. Kirov) SUBMITTED: April 8, 1959 Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011372



NIKULIN, V.H.

NA AL

Cathodic reduction of oxygen in relation to the orientation and structure of the electrode crystallites. Fart 5: Reduction of oxygen at different faces of a single crystal of silver. Shur. fis. khim. 35 no.1:86-89 Ja '61. (MIRA 14:2)

1. Kasanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova. (Silver crystals) (Reduction, Electrolytic)



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1月21日的1月2日的1月2日日

CIA-RDP86-00513R001137

BESPAL'KO, I.G., red.; GUSEV, V.F.; YEVDOKIMOV, T.D. prof., red.; IVANOV, S.M., red.; NIKULIN, V.N., red.; SICHIOKNO, G.A., red.; SIPTSOV, A.S., red.

[Transactions of the scientific conference on production] Trudy nauchno-proizvodstvernoi konferentsii. Pskov, 1962. 341 p. (MIPA 18:2)

1. Leningrad. Nauchno-issledovatel'skiy veterinarnyy institut. 2. Nachal'nik veterinarnogo otdela Pskovskogo oblastnogo upravleniya proizvodstva i zarotovok sel'skokhozyayatvennykh produkt: v i Leningradskiy Mauchnoisaledovatel'skiy veterinarnyy institut (for Nikulin). 3. Leningradskiy veterinarnyy institut (for Yevdokimov).

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	Sturkhin, V. I. (Klev) TITLE. The RTsU-MI-1				
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	Novceillirsk, Redizdat Si	b. old. AN SSSR, 1904	4, 56-59		
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	TOPIC TAGS: magnetic	tape recorder, binary	tape recorder, digit	al parameter re	COI UB1 :
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	ABRITRACT: After listin	ig 1) existing Soviet ar	M WARDON SYFLETOR	P J Weboer	
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ACCESSION NR: AT5017384

the authors briefly describe the design and technical characteristics of the RTsU-ML-1 and RTsU-ML-2 recorders developed at the Verbishtel ave u-entr AN "Ne SSR (Computer Center, AN Ukr SSR) and intended for the direct input of fig ta, material into the "Ural-1" Center, AN Ukr SSR) and intended for the direct input of fig ta, material into the "Ural-1" computer. The RTsU-ML-1 works with a binary code can restore up to 16 sensing the decides, the output sensor voltages are within a 2% of the sampling frequency reduced to decides, the output sensor voltages are within a 2% of the sampling frequency reduced to a single sensor is 320 c/sec, the sampling frequency from each sensor during a complete by de and the maximum displacement rate of the tage is 20 c a the error of the device is approximately ±0.5%, the maximum length of the tage is 20 c a the error of the device truns istors, 450 D9D diodes, and 20 vacuum tabes. The analogous RTsU-ML-2 device can use the magnetic tape computer accumulator permitting a high tensity (10 binary signs per millingeter of tape) and a high rate of registration (about 20 thousand 8-digit binary in inb&rs per second). Its accuracy will be on the order of (0.5+1.0%. Orig. art. has. 1 figure and 1 table.

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ARKHANGEL'SKIY, I.I., prof.; DARDA, P.N.; CHISTOV, N.P., kand. veter. nauk; NINULIN, V.N.; VOROB'IEV, M.M., kand. veter. nauk (Vitebek, BSSH); ARKHIPOV, V.V., kand. veter. nauk

同時間

創始語語

Infection focuses. Veterinariia 41 no.1:29-33 Ja '64. (HIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii (for Arkhangel'skiy). 2. Nachal'nik veterinarnogo otryada postoyanno-deystvuyushchey protivoyashchurnoy ekspeditsii Gosudarstvennogo nauchno-kontrol'nogo instituta veterinarnykh preparatov (for Darda). 3. Leningradskiy nauchmo-issledovatel'skiy veterinarnyy institut (for Chistov). 3. Pskovskoye oblastnoye upravleniye proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Nikulin).

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<u>oortiite</u> i

AUTHOR: Nikulin, V.N.; Kvachev, V.G. <sup>41</sup> THTLE: Digital recorder with punchcard output SOURCE: Avtomatika i priborostroyeniye, ao. 3, 1965, 27-29 TOPIC TAGS: digital computer, punched card, digital device, binary logic, data recording, decimal base 41 ABSTRACT: Digital recording devices cannot feed the accumulated data to electronic computers without their preliminary conversion into the machine code. In an earlier attempt to utilize computers for direct processing of data, Ya. P. Drymalyk et al. at the Institut kibernetiki AN Ukr SSR (Institute of Cybernetics AN Ukr SSR) Mitilized magnetic tape recordings (Avtomatika i priborostroyeniye, priborostroyeniye, no. 4, 1961; Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy, t. 2, Sibirskoye otdeleniye AN SSSR, Novosibirsk, 1964) in conjunction with the "Ural" computer. However, this approach de- manded that the magnetic recording heads and the form of the recordings of the registering device and the computer be strictly identical. Consequently, the personnel of the Institute of Cybernetics designed and constructed a digital recorder which collects data on standard puncheards which can subsequently be used in any computer with a puncheard input. The present article presents the block diagram of the device and describes its operation. It uses a mixed binary-decimal base system, works with up to 8 sensors which it scans Card	<u>2 450C-66</u> EWT(d)/EMP(1) IJP(c) ACC NRI AP5023270	BB/GG UR/0302/65/000/003/002 681,142,35:691,142,177.6	//0029
SOURCE: Avtomatika i priborostroyeniye, ao. 3, 1965, 27-29 TOPIC TAGS: digital computer, punched card, digital device, binary logic, data recording, decimal base ABSTRACT: Digital recording devices cannot feed the accumulated data to electronic computers without their preliminary conversion into the machine code. In an earlier attempt to utilize computers for direct processing of data, Ya. P. Drymalyk et al. at the Institut kibernetiki AN Ukr SSR (Institute of Cybernetics AN Ukr SSR) itilized magnetic tape recordings (Avtomatika i priborostroyeniye, priborostroyeniye, no. 4, 1961; Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy, t. 2, Sibirskoye otdeleniye AN SSSR, Novosibirsk, 1964) in conjunction with the "Ural" computer. However, this approach de- manded that the magnetic recording heads and the form of the recordings of the registering device and the computer be strictly identical. Consequently, the personnel of the Institute of Cybernetics designed and constructed a digital recorder which collects data on standard puncheards which can subsequently be used in any computer with a puncheard input. The purcheards which can subsequently be used in any computer with a puncheard input. The uses a mixed binary-decimal base system, works with up to 8 sensors which it scans	AUTHOR: Nikulin, V.N.; Kvachev, V.	. <b></b>	40
TOPIC TAGS: digital computer, punched card, digital device. binary logic, data recording, decimal base ABSTRACT: Digital recording devices cannot feed the accumulated data to electronic computers without their preliminary conversion into the machine code. In an earlier attempt to utilize computers for direct processing of data, Ya. P. Drymalyk et al. at the Institut kibernetiki AN Ukr SSR (Institute of Cybernetics AN Ukr SSR) Mitilized magnetic tape recordings (Avtomatika i priborostroyeniye, priborostroyeniye, no. 4, 1961; Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy, t. 2, Sibirskoye otdelcniye AN SSSR, Novosibirsk, 1964) in conjunction with the "Ural" computer. However, this approach demanded that the magnetic recording heads and the form of the recordings of the registering device and the computer be strictly identical. Consequently, the personnel of the Institute of Cybernetics designed and constructed a digital recorder which collects data on standard punchcards which can subsequently be used in any computer with a punchcard input. The present article presents the block diagram of the device and describes its operation. It uses a mixed binary-decimal base system, works with up to 8 sensors which it scans	TITLE: Digital recorder with punchea	rd output	E.
decimal base ABSTRACT: Digital recording devices cannot feed the accumulated data to electronic computers without their preliminary conversion into the machine code. In an earlier attempt to utilize computers for direct processing of data, Ya. P. Drymalyk et al. at the Institut kibernetiki AN Ukr SSR (Institute of Cybernetics AN Ukr SSR) Mitilized magnetic tape recordings (Avtomatika i priborostroyeniye, priborostroyeniye, no. 4, 1961; Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy, t. 2, Sibirskoye otdeleniye AN SSSR, Novosibirsk, 1964) in conjunction with the "Ural" computer. However, this approach de- manded that the magnetic recording heads and the form of the recordings of the registering device and the computer be strictly identical. Consequently, the personnel of the Institute of Cybernetics designed and constructed a digital recorder which collects data on standard puncheards which can subsequently be used in any computer with a puncheard input. The present article presents the block diagram of the device and describes its operation. It uses a mixed binary-decimal base system, works with up to 8 sensors which it scans	SOURCE: Aviomatika i priborostroyen	uye, ao. 3, 1965, 27-29	
	decimal base ABSTRACT: Digital recording devices computers without their preliminary co to utilize computers for direct process kibernetiki AN Ukr SSR (Institute of Cy recordings (Avtomatika i priborostroye kontrol' i metody elektricheskikh izme Novosibirsk, 1964) in conjunction with manded that the magnetic recording he device and the computer be strictly ide of Cybernetics designed and constructed puncheards which can subsequently be present article presents the block diag uses a mixed binary-decimal base sys	a cannot feed the accumulated data to onversion into the machine code. In sing of data, Ya. P. Drymalyk et al. observetics AN Ukr SSR) Mitilized mag enfye, priborostroyeniye, no. 4, 196 ereniy, t. 2, Sibirskoye otdeleniye A the "Ural" computer. However, this eads and the form of the recordings of entical. Consequently, the personnel ed a digital recorder which collects of used in any computer with a punchers fram of the device and describes its	o electronic an earlier attempt at the Institut netic tape 61; Avtomaticheskiy N SSSR, is approach de- of the registering el of the Institute data on standard ard input. The operation. It

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	ACC N <sup>3</sup> , AP5023270 cyclically every 0.13, store 1024 bits. The s 0.5%, the amplitude of programmed measurin maximum number of m synchronization accurs 1 formula and 2 figured	accuracy of the system the analog-digital g ranges is 3, the casurements per s acy is $10^{-6}$ sec, an	tem (dete converte minimum scnsor is	rmined by r input volt number of 1022, outp	the DC am age is 0 - 1 cycles pe ut rate is 1	plifier accu 20 v, the num r range is 1 10 cards/mi	racy) is ober of , the n.
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12300 also 1573 28 1000 1013/1068/1921 AUTHORS: Nikulin, V.N., and Skurikhin, V.I.

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S/125/60/000/010/006/015 A161/A133

TITLE: Program Voltage Transmitter for Automatic Welding Process Regulators

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 10, pp. 42-45

TEXT: The described transmitter has been developed at the Computing Center of the Academy of Sciences of the UkrSSR on a suggestion of Academician B.Ye.Paton. It produces stepped voltage with variable amplitude and a duration that is the multiple of an a-c cycle. Stepped voltage can be used for the work organs of various machines, and also for the control of resistance welding machine regulators. A detailed description of the transmitter is given. Its four units are shown in a block diagram (Fig.1) - pulse synchronizing, time programming, level programming, and forming the output signal. Step amplitude within a cycle is programmed by a binary code. When the code changes one bit, the step amplitude on the output changes by 5 v. The number of possible steps is 15, i.e., the voltage is varied from 0 to 45 volt. The programm duration is 62 cycles. The level program unit (Fig.2)

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Program Voltage Transmitter for Automatic Welding Process Regulators

is the main unit; programming is effected with the aid of switches. If at a t moment the switches are in the positions 1, 0, 1, 0, the pulse to the bar ot moves triggers I, II, III, IV into same position. The next pulse at the  $t_{n+1}$  moment sets the triggers corresponding to the position of the tumblers on the bar ( ). The output signal forming unit (Fig.3) produces different voltage and transforms codes into voltage by adding voltage. The cutput voltage of the summing circuit (resistors  $R_1-R_4$ ) varies in a range of 0.5-4.5 volt according to codes on the triggers, and a Y (UPT) d-c amplifier with an amplifying coefficient of K-10 amplifies it. The output voltage magnitude can be controlled by changing resistance magnitude R2. The time programming unit sends pulses into the code bars synchronized with the network frequency. This is achieved by a 62-digit ferrite-diode shift register with a key tricde. Compensation rings suppress interferences. To move a pulse one digit in the register (Fig.4) the ring in the preceding cell must be remagnetized; pulses are recorded in the first digit by discharge the capacitor C3 through the primary winding of the first ring. When the push button K is pressed, the capacitor C<sub>3</sub> discharges through diode ,  $\mathcal{U}_A$ , the winding of the first ring  $W_1$ Card 2/8

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於日本語情的的原則的 s/125/60/000/010/006/015 A:61/A:53 Frogram Voltage Transmitter for Automatic Welding Process Regulators and the open by-pass collector-emitter in key triode K. The ferrite ring magnetizes, and the arriving cycle pulse remagnetizes it and charges capacitor C2. The recorded pulse has to circulate in the register to repeat the program automatically, i.e., the register must have a feedback. A fit4 (P14) triode fitted amplifier Y( is provided to make the pulse from the last digit sufficiently strong to remagnetize the ring of the first digit. The program duration is selected by connecting the register digit cutputs to six switches having 11 operation positions and one idle position each. The sliders of the switches are connected by one bar. If the program is to be set with a certain number of cycles, one of the switches is to be set into the position corresponding to the digit on which the program ends. The pulse synchronising unit produces pulses synchronizing the blocking generator with a-c network frequency and includes a cathode follower. The shift winding of the ferrite register is connected to the load circuit of the cathode follower. A positive pulse controlling the key triode forms also in the load circuit of the cathode follower. The transmitter proved dependable in tests. Oscillograms (Fig.5) of its output voltage illustrate its capacities. Out-Card 3/8



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HIKULIN, V.N. Programmed control systems with self-correction, built on the basis of numerical techniques. Avtom.svar. 16 no.5:28-33 My '63. (MIRA 16:11) 1. Institut kibernetiki AN UkrSSR.

MARKOV, G.S.; IVANOV, V.P.; NIKULIN, V.P.; CHERNOBAT, V.F.

Helminths of reptiles of the Volga Delta and the Caspian steppes. Trudy Astr. sap. no.6:145-172 <sup>16</sup>2. (KIRA 16:7)

(Caspian Sea region-Horms, Intestinal and parasitic) (Caspian Sea region-Parasites-Reptiles)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011372

1(0) 8(2) AUTHOR:	Mikulin, V.P., Engineer	501/119-59-12-6/13
TITLE:	Electromagnetic Oscillographs Used in Aviation Engineering (Kagnitoelektric menyayemiyye pri issledovaniyakh i is	cheskiye ostsillografy, pri-
PERIODICAL:	Priborostroyeniye, 1958, Nr 12, pp 10	618 (USSR)
ABSTRACT:	The oscillographs listed in the follo features in common: They are supplied measured must be recorded with an acc 1.5 %, their current sensitivity must 10,000 mm/mA, and the eigenfrequency 15,000 cy. The instruments listed in and built in various scientific inst	d with 27 V d.c., the quantities curacy varying between ± 0.3 to t cover a range of 5,000 to must be between 10,000 and the table have been developed
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NIKULIN, V. V., Candidate Tech Sci (dise) -- "Investigation of the process of breaking up brittle bodies with a cutting tool". Tula, 1959. 25 pp (Min Higher Educ USSR, Tula Mech Inst), 150 copies (KL, No 25, 1959, 135)

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CENCIC

A UTHOR :	Nikulin, V.Ye.	307/132-58-11-13/7
TITLE	GGOA by the Chernogorsk Geolo	p Bore-Holes With the Eig ZIF- rical Prospecting Team (Opyt tankow ZIF-650A v Chernogorskoy
TERIODICAL:	Razvedka i okhrana nedr, 1958	, Nr 11, pp 52 - 53 (USOR)
AFSTRACT:	The drilling rig SIF-650A was 835.1 m deep. The author des ment made by the Chernogorsk The average speed of drilling 3 tables.	cribes in detail this experi- Geological Prospecting Team.
KOLAVIOU:	The Chernogorskaya geologorsz nogorsk Heological Prospectir	wedochnaya partiya (The Cher- ig Team)
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	L 15717-16 EAT(1)/FAT(m) JD	
	ACC NR: A16003097 SOURCE CODE: UR/3181/63/000/015/0275/0282	
•	AUTHOR: Teererin, V. A.; Horgunov, V. K : Windin Vo. 7	•
	ORG: Nong	
	<u>A.</u>	
	TITLE: Taking into account nonuniformity of the gas supply in the hydraulic design of a gas main	
	SOURCE: <u>Kuybyshev</u> . Aviatsionnyy institut. Trudy, no. 15, pt. 2, 1963. Doklady kustovoy nauchno-tekhnicheskov konforenteit.	1
	makhaniki zhidkosti i goza (Reports of Konferentsii po voprosam	
	conference on problems of the mechanics of liquid and gas), 275-282	
	TOPIC TAGS: gas engineering, hydraulic resistance, pipeline	
	ABSTRACT: The article stants with a set	
	field done in the Soviet Union and abroad. The experimental inves-	
	main, used to supply musified betuit gas main in Kuybyshev; the gas	
	Were made every 15 minutes for appling plants at which observations	
1	the pressure at the beginning and end of the gas main as a function of time. As a result of the experiments it was found to function of	•
	flow has a considerable effect on the resistance of the and mate	
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on the out on of the used; 1	short se gas main this can	into accoun amic theory actions of a, the aver be obtain	t in design and of modelling ) gas main. In ( age integral v) d from a typic st be made on has: 3 formula	design, to d alue of the al daily cha the basis of	etermine th flow should rt. Cheice existing e	e diameter be of the xperi-	
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8/0057/64/054/007/1338/1340 ACCESSION NE: AP4049014 AUTHOR: Mikelin, Ye.I.; Kir'yenin, I.A. TITLE: Monewroment of the resistance of iluminum in a segnetic field at low ten peratures SCURCE: Murnel tethnicheshey fisiki, v.84, no.7, 1964, 1998-(340 TOPIC THE: electric resistivity, aluminum, segneterosistence ADDINGT: The resistance of 90.00005 pure aluminum was possized in ungestic fields up to 17 how at liquid belium and liquid hydrogen temperatures. The ratio  $\rho(300)/$ /p(4.2) of the resistivity at 300% to that at 4,2% for this material was \$300 bbfore annealing and 11 500 after a 2 hour anneal at 400°C. It was necessary to renew the anneal after each measurement in order to maintain the large value of p(300)//p(4.2). The samples were helical, the magnetic field was parallel to the axis of the helix, and currents up to 10 A were employed. The results of the measurements are presented graphically. In a 20 kos field, dp/p was 1.85 at 4.2°K and 4.30 at 20.40K. These results are compared with those obtained by T.R. Purcell and R.B. Jacobs (Cryogenics 3, 109,1965) with material for which p(300)/p(4.2) was \$600. The 1/2 11.

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ACC NRI A	R6029503	SOURCE COE	DE: UP/0137/66/6	00/006/1035/1035
UTHOR: B	urminskaya, L. M	.; Nikulin, Yu. H.; Pashkov	P. O.; Zaboley	ev-Zotov, V. V.
ITLE: Ef	fect of interpha	se interaction on the stren	igth of certain a	luminum alloy- 27
OURCE: R	ef. zh. Hetallur	giya, Abs. 61237		
EF SOURCE olgograds	: Sb. Haterialy k. politekhn. in	Nauchn, konferentsii, Sovr -t. T. I. Volgograd, 1965,	arkhoz Nizhn <del>o</del> -Vo 364-368	lzhsk. ekon. r-na.
OPIC TAGS	: phase composi	tion, corundum, boron compo	ound, phase react	ion
hard phase carbide ranged fro /mm <sup>2</sup> for A istics of ture (700-	composition ran were used as har a 70 kg/mm <sup>2</sup> for 1. No correlation the hard particon 1000°C) was line the hardness was the ad <u>A carbides</u> the	and dispersion resistance ging from 20 to 60% was det d phases. The base hardnes corundum to 180 kg/mm <sup>2</sup> for on was found between the a es. The dependence of hard ar for alloys with hard par independent of the superhea line had a different slop. UD	termined. Corum ss in alloys with boron carbide re lloy properties a dness on the sup rticles. For all t temperature who	hard particles elative to 25 kg/ and the character- erheating tempera- loys of Al with ereas in the alloys
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