



CIA-RDP86-00513R000

L 39731-00 ACC NR: AP6007338

having 5 to 29% porosity are tabulated. The magnetic characteristics of 0.012 with 84% Fe were practically stable after heating to 2000 for 100 mess. Notice of the resistivity of the above alloys is 2-3 times as high restrated to be observed on the metal-ceramic wedges were electrically is blocked from the base structure of the 12% Al-85% Fe 3-min thick wedges (naximum permeability, et b). The 12% Al-85% Fe 3-min thick wedges (naximum permeability, et b). The tested in 3-phase, Al-51-2, squarel-cape, 292 and 0.000 for the tested on table of the second of the introduction of these weapes that not refer principal on table of the introduction of the second of the introduction of the second of the second of the introduction of the second of the seco

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 BR0005 CLADYSHLV, P.L. Some vectorcardiographic and electrocardiographic changes in mitral defects of the heart. Sov.med. 25 no.12:56-61 D '61. (Mirkl 15:2) 1. Iz kafedry fakul'tetskoy terapii (zav. - prof. M.V.Burgsdorf) Chelyabinskogo meditsinskogo instituta (rektor - dotsent P.M.Tarasov). (MITIAL VALVE_DISEASES) (ELECTNOCARDIOGRAFHY) (VECTORCARDIOGRAPHY) "APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

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GLADYSHEV, P.L.

Electrocardiographic equivalents of "systolic" and diastolic" stress on the ventricles in acquired vitia cordis. Kardiologiia 2 no.2: 24-29 Mr-Ap '62. (MI:A 15:4)

1. Iz kafedry fakul'tetskoy terapli (zav. - prof. N.V.Burgsdorf) Chelyabinskogo meditsinskogo instituta (dir. - dotsent P.N.Tarasov). (SLEGTROGANDIOGRAPHY) (HEART--DISEASES)

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GLADYSHEV, P.L.

Topographic value of precardiac leads in rheumatic defects of the heart. Sov. med. 25 no.2:34-37 F '62. (MIRA 15:3)

l. Iz kafedry fakul'tetskoy terapii (zav. - prof. M.V. Burgsdorf)
Chelyabinskogo meditsinskogo instituta (dir. - dotsent P.M.

(RHEUMATIC HEART DISEASE) (ELECTROCARDIOGRAPHY)

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> \sim 5 K (sector), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$), 2 $\sigma_{\rm e}$ ($\sigma_{\rm e}$), 2 $\sigma_{\rm e}$), 3 \,\sigma_{\rm e}), 3 \,\sigma_{\rm e} ($\sigma_{\rm e}$), 3 \,\sigma_{\rm e}), 3 \,\sigma_{\rm e} ($\sigma_{\rm e}$), 3 \,\sigma_{\rm e}), 3 \,\sigma_{\rm e}), 3 \,\sigma_{\rm e} ($\sigma_{\rm e}$), 3 \,\sigma_{\rm e}), 3 \,\sigma_{\rm lan a hEar

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.... 26030-66 BWT(m)/EWA(d)/T/BWP(t)IJP(c) J助/HW ACC NR AP6008863 SOURCE CODE: UR/0128/65/000/011/0003/0005 AUTHOR: Khenkin, M. L. (Candidate of technical sciences); Nikonorova, A. I. (Candidate of technical sciences); Gladyshev, S. A. (Engineer); Bolotova, Ye. P. (Engineer); Soboleva, N. P. (Engineer) ORG: none TITLE: Stainless steel for thin-walled castings ない語語においたの時であれたたいい SOURCE: Liteynoye proizvodstvo, no. 11, 1965, 3-5 TOPIC TAGS: metal casting, martensite steel, copper, corrosion resistance, tempering, austenitic steel, steel, stainless steel/ ØKh15N4D3L stainless steel, 35L steel ABSTRACT: The steel used for thin-walled and intricate castings of parts of precision machinery and devices must display a high resistance to atmospheric corrosion without requiring a protective coating, a satisfactory fluidity, a high dimensional stability, adequate physico-mechanical properties, and a satisfactory machinability. Of the standard stainless steels not one satisfies the entire set of these requirements Cr-Ni austenitic steels have a high corrosion resistance but a low fluidity, while ţ martensitic-class steels have a low corrosion resistance but an insufficient fluidity. Hence it is normally necessary to employ for these purposes 35L steel despite the highly undesirable necessity of coating it electrochemically with zinc. Of the elements \mathbb{Z} Card 1/2 UDC: 621.74.045:669.14.018.8

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enhancing the fluidity of stainless steels, Cu is the most effective. In this connection, six melts of the newly developed ØKhl5N4D3L martensitic stainlass steel (up to 0.08% C, 0.8% Si, 0.7% Mn, 14.5-17% Cr, 3-4% Ni and 3-4% Cu) ware tested for fluidity, as a function of temperature and shape of metal. Tests of various intricate thin-walled (1.5 mm thick) castings confirmed the definitely satisfactory casting properties of this steel -- high fluidity and absence of hot cracking. Since steels used for thin-walled and precision castings also must satisfy high requirements with respect to corrosion resistance in non-coated state, high dimensional stability, and machinability, othese properties were also investigated for ØKh15N4D3L Steel as compared with 351 steel. Findings: the dimensional stability of ØKh15N4D3L steel is such that, after its air quenching from 1020°C, 2-hr treatment with cold at -70°C and 2-hr tempering at 600°C, this steel remains stable in time even in the presence of temperature fluctuations of from +150°C to -40°C. Compared with 35L steel, ØKh15N4D3L steel displays superior strength properties (1.5-2 times higher) as well as superior corrosion resistance and superior machinability (30-40% higher). Thus ØKh15N4D3L steel may be accepted as a replacement for 35L steel which previously had to be used for this purpose. Orig. art. has: 6 figures, 4 tables.

SUB CODE: 11, 13 2027 / SUBM DATE: none/ ORIG REF: 00 1 () BUB REF: Dilb is

Card 2/2 PP

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

GLADYSHEV, S.G., dessinator Lavian blent finite the chirts. Texst.prom. 23 no.li:34-36 N No. (MIRLITE) 1. Naro-Fominikaya pryaditine-txatakaya fubrika.

DDDG 0051BR0005

LYUBINEKIY, N.I.; SHIRYAYEV, I.N.; KNIZENIKOV, M.G.; GLADYLEEV, S.S.; KIVER, V.F.; SPARIN, V.I., agrenom

Use advanced cultivation practices for sunflowers. Zemledelie 27 no.4:4/7-51 Ap 165. (MIRA 18:4)

 Orenburgskaya oblastovya sel'skokhisyspistenanaka opytaaya stantsiya (for Lubinskiy). 2. Predsecatel' kolkhova imeni Kirova, Oktysbr'skogo rayona, Orenburgskoy oblasti (for Srivyayev).
 Predsedatel' kolkhova "Pumyat' Il'isha" Dinskogo rayona, Krasnodarskogo kraya (for Knichnikov). 4. Glavnyy agronom kolkhoza "Pamyat' Il'isha", Dinskogo rayona, Krasnodarskogo kraya (for Gladyshev).
 Starshiy agronom Pologiskogo prolavodstvennogo upravleniya, Zaporoshskoy oblasti (for Kiver).







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7.6150S/120/60/000/006/029/04521.5300 (1144,1138,1425)E032/E314AUTHORS:Gladyshev V.A. and Katsaurov L.N.TITLEA Vapour Jet Counter of Charged ParticlesPERIODICALPribory i tekhnika eksperimenta, 1960No6pp.113 - 114TEXT.In a number of nuclear studies (for example, in the

case of scattering of protons, Jeutrons, etc. at energies below about 300 keV) it is necessary to record charged particles having low energies. The detection of such particles meets with serious experimental difficulties because it is necessary to use very thin windows separating the counting region from the target chamber in which a very high vacuum must be maintained. These difficulties can be avoided if a jet of vapour is used instead of the usual working gas in the counter Fig. 1 shows a schematic drawing of such a counter The counter is essentially a singlestage oil-diffusion pump. A tungsten wire 0.1 mm in diameter and 1 cm long is introduced into the vapour jet so that the glass sphere at the end of the tungsten wire is in the plane Card 1/4 "APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 - . .

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A Vapour Jet Counter of Charged Particles

of the end of the nozzle. The inner surface of the condenser (25 mm in diameter) in the region of the wire is either silvered or covered with a thin layer of copper This surface serves as the cathode and the wire serves as the anode. The effective window thickness of such a counter is practically determined by the temperature of the walls in the neighbourhood of the entrance part into its working volume. This effective thickness is defined as the thickness of the oil vapour behind the front section of the window When the walls are at 70 $^\circ$ C the effective window thickness

is 10 - 20 μ g/cm². By reducing the temperature it can apparently be reduced to tenths or even hundredths of $\mu g/cm^2$. However, this is associated with ∞ reduction in the working volume of the counter. The operation of this counter in the proportional region was checked using α -particles from a Po source. a-particle pulses had amplitudes of between 0.01 and 0.5 V so that normal amplifying apparatus could be Card 2/4





"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

S/120/62/000/001/002/061 E032/E514

AUTHORS: Gladyshev, V.A., Katsaurov, L.N. and Kuznetsov, A.N. TITLE: On the use of a jet of vapour as a target for producing nuclear reactions

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 20-22

TEXT: In nuclear physics it is frequently necessary to have a thin target capable of withstanding large ion currents. The present authors report an investigation of the possible use of a jet of vapour for this purpose. The principle of the apparatus employed is illustrated in Fig.1. The vapour was introduced into a vacuum chamber through the nozzle 3 and was condensed by the liquid-nitrogen-cooled trap 4,5. Water vapour was employed as the working substance. The density of vapour in the central part of the jet was investigated by placing small rings inside the vapour trap and measuring the amount of water condensed on each of them. The experimental results obtained suggest that the water vapour jet does not follow the laws of gas dynamics. Empiral formulae are reported for the density distribution in the

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On the use of a jet of vapour ...

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jet. With a pumping speed of 1000 litres/sec and a vacuum of 10^{-5} mm Hg it is possible to release 0.1 g/sec through the nozzle. If it is assumed that the velocity of the jet approaches the velocity of sound, then the thickness of the vapour target turns out to be of the order of 2 µg/cm². For 2 MeV protons the corresponding energy loss is of the order of 600 eV. However, in the latter case a considerable amount of vapour still misses the trap and enters the vacuum chamber. In order to obtain thicker targets, it is necessary to use vapours of liquids whose vapour pressure at, say, room temperature is $10^{-5} - 10^{-6}$ mm Hg, or to develop new types of nozzles which would confine the jet to a smaller angular range. It is stated that vapour targets having a thickness of a few keV can be produced for use with a focused beam having a cross section of about 1 cm². There are 5 figures.

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the complexity of the deflecting system. The present report indicates how it is possible to realize external beam injection in the median plane of the magnet. This can be done especially simply in sector cyclotrons. In a nonhomogeneous magnetic field, charged particles experience a drift across the gradient of the magnetic field. It is expedient to take advantage of this in the sector cyclotron by directing the beam of particles so that they drift up to the central region of the cyclotron along the boundary of one of the sectors. In the central region it is possible with the help of a cylindrical electrostatic field to transfer the particles to the trajectory required later. In the case of a homogeneous magnetic field, which almost always holds true at the central region of sector cyclotrons, the minimum electrical field strength ξ_{min} in the cylindrical condenser that is necessary for the transfer of the particles from one trajectory to another can be represented by the formula

where W is the kinetic energy of the particles in kev; R is the radius of curvature (for a nonrelativistic single-charged ion, $R = 4.57 \cdot 10^3$ /MM);

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M is the mass of the ion in units of the mass of the nucleon; ϕ is the angle between the trajectories at the point of their intersection. As it turns out, it is possible to choose the place for injecting the particle beam such that it will always be focused on its path along the magnet sector. On the path to the central region of the cyclotron it is possible to describe a series of loops, and also the frequency of a particle's revolution (more precisely, the frequency of loop formation). The quality of the magnetic focusing of the particles is characterized by the ratio of the frequencies of the particles' horizontal and vertical oscillations to the mentioned frequency of loop formation. The radial focusing of the ions in the magnetic system considered almost does not differ from focusing in a homogeneous magnetic field. Similar considerations hold for the vertical focusing of the ions. The conditions for the stability of the vertical motion of the ions are characterized by inequalities involving the magnetic field in the gap between the sectors in the region of beam passage. In the case of the authors' cyclotron, there always exists a wide interval of initial distances of the beam from the sector boundary for which the injected ions can reach the central region of the cyclotron magnetic without experiencing defocusing. The experimental verification of the possibility of external injection by the considered method was carried out on a three-sector cyclo-

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•	L 3777-66 Accession Nr: At5007946						•
	tron with straight sector 350 Kev deuterons). The sent report. Orig. art.	experimental has: 4 figu	ires:	resulte are o	escilbad tu d	ia bra-	
	ASSOCIATION: Fizicheskiy AN SSSR)	institut in	meni P. N. Lei	bedeva AN 555	R (<u>Physics in</u>	stitutei	
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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 RDR86-01 APPROVED FOR RELEASE. Tuesday. September 17-2002 BR0005 EWT(=)/EPA(w)-2/EWA(=)-2 LJP(c) DW L 45586-65 Pab-10/Pt-7 8/1089/65/016/0CT/0213/0E1 AP5009109 -103 7 2.19 AUVILLES IN CLEAN A DEV. T. A. S. MALERADY OVER 1. M. MALERADY 1 Martyno Moros, Ye. M. TITLE: Injection of an ion beam in e culture 19

SOURCE: Atomaya energiya, v. 18, no. 3, 1965, 213-218

TOPIC TAGS: cyclotron, accelerated particle injection, polarized ion acceleration, sector cyclotron

ABSTRACT: It is shown that external injection of a been in the mediter plane of a magnet is possible, and is particularly easy to struct in sector symbol read and the particularly easy to struct in sector symbol.





"APPROVED FOR RELEASE: Tuesday, September 17, 202 CIA-RDP86-00513R000 CHADYMEV, V.A.; ENTGREMOV, L.M.; MORNELOV, A.N.; MORNEL, Zeuv, LMORAVINA, L.P. Dealem of a spiral-coll 300 Kev. cyclotron with external Ston. energ. 19 no.5:442 N '65. Magnetic field of a spiral-coll 306 Kev. cyclotron with external injection. Atom. energ. 10 no.5:443 N '65. (Michinettic) "APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RE APPROVED FOR RELEASE: Tuesday, September 17, 2002 SIA-RE

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<u>L 27967-66</u> EWT(m) IJP(c)	······································
ACC NR: AP6017683 SOURCE CODE: UR/0089/65/019/005/04	1,2/01,42
AUTHOR: Gladyshev, V. A.; Katsaurov, L. N.; Kuznetsov, A. N.; Moroz, Ye. M.; Nechayeva, L. P.	3/.
ORG: none	
TITLE: Construction of a 300 kev sector cyclotron with external injection (Entarticle)	ire
SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 442	•
TOPIC TAGS: cyclotron, particle accelerator target, deuteron, diffusion pump, cyclotron magnet, vacuum chamber/N-5T diffusion pump $\sqrt{2}$	
ABSTRACT: With thin targets. "accelerated particles can be used more	1 S.
effectively if additional acceleration is applied to them after they have pased through the target (. L. N. Katsaurov and V. G. Latysh, Trudy FIAN SSSR /Proceedings of the Physics Institute, Academy of Sciences USSR/,	
Vol 33, p 235 (1965)). A small ~300 kev deuteron sector cyclotron was constructed at the Physics Institute to test the feasibility of applying	
additional acceleration. Plans have been made to carry out a number of	
investigations with this cyclotron especially since it is equipped to inject ions into the median plane (V. A. Gladyshev, et al., Trudy	
Mezhdunarodnoy Konferentsii po Uskoritelyam /Proceedings of the Inter-	
national Conference on Accelerators, Dubna, 1963/, Moscow, Atmoizdat, 1964, p. 658. The cyclotron magnet assembly consists of three individual C-shaped	1
Card 1/3 UDC: 621.384.611	z

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magnets. This design provides for a very deep azimuthal variation of the magnetic field without requiring additional windings between the sectors and permits easy access to the chamber. The diameter of the magnet is 70 cm. The pole pieces are sectors with straight edges and 66 deg. angles. The supply current to the magnets is stabilized to 3×10^{-6} . Furthermore, the field of each magnet is stabilized by an independent proton stabilization circuit. The pole pieces of the magnet serve partly as the covering of the vacuum

The pole pieces of the magnet serve partly as the covering of the vacuum chamber, and the chamber itself consists of several parts. Its main part has three triangular chambers made of brass, each bolted to the sides of the secotr pole pieces of two adjacent magnets. Vacuum sealing is provided by lead wire which is laid on the joints between the various parts and is squeezed tight by special fittings. An N-5T type oil diffusion pump provides a vacuum of $\sim 2 \times 10^{-6}$ nm Hg during operation with a beam.

Movable probes are available for observation of the beam. These probes probes the beam by virtue of a teflon sealed ball joint and a movable cross-bar that has Wilson-type teflon seals.

The source, together with the accelerator tube, can be moved in the median plane of the magnet; making it possible to vary the beam injection point within the chamber.

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APPROVED FOR RELEASE: Tuesday, Se	ptember 17, 2002		<u>6-0051</u> 8R0
<u>L 27968-66 EWT(m) IJP(c)</u>		•	
ACC NR: AP6017684 SOURCE	CODE: UR/0089/65/019/	1005/0443/0443	
AUTHOR: Gladyshev. V. A.; Katsaurov, L. N.; Kuznet Nechayeva, L. P.	tsov, A. N.: Moroz. Ya	N	
ORG: none		B'	
TITLE: Magnetic field of a 300 kev sector_cyclotro article)	19		
article)	m with external injec	tion (entire	
SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 443]		
TOPIC TAGS: cyclotron, cyclotron magnet, deuteron, resonance, magnetic field, motion equation, compute	galvanometer, betatro		
cyclotron with a split magnet designed to accelerat	etic field of a sector te deuterons to 300 ke	v.	
field is obtained by empirical selection of magnet	center. The required parameters.		
to a ballistic galvanometer and can be shifted step through the control points in the sectors, was shift cm radially. The field was measured in the contr resonance method.	-Wise. The winding,	passing	
The field focussing properties of an isochroni the depth of azimuthal variation and is determined	—		
ard 1/3	UDC: 621.384.6		2

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L 27968-66 ACC NR: AP6017684 frequencies. The depth of the azimuthal variation is characterized by "flutter", which is defined as $F = (\langle B^2 \rangle - \langle B \rangle^2)/\langle V \rangle^2$. When the radius in the given cyclotron is increased from 10 to 30 cm, flutter increases smoothly from 0.2 to 0.45. The amplitudes of the first and second harmonics of the field, characterizing the asymmetry of the magnetic field, are approximately one order smaller than the amplitudes that cause radial instability. The equations of motion were integrated on a computer, with the measured filed of the cyclotron given in the form of tables. This provided complete data on the behavior of particles and orbital parameters in a real field. During the work, equilibrium orbits were constructed for various energies, and the mean magnetic field along the equilibrium crbits was calculated. There is an insignificant difference between the field obtained and an isochronic field, and the phase shift during acceleration from 40 to 300 key is 6 deg as the energy increases by 10 kev per revolution. The orbital properties. are especially evident on the so-called phase ellipses, which close after N revolutions; N is related to the betatron frequencies Q_r and Q_s by the relations $N_r = (Q_r - 1)^{-1}$ and $N_s = (Q_s - 1)^{-1}$ By constructing ellipses for various energies and for different betatron amplitudes it was possible to establish that the maximum permissible

amplitude of radial oscillations, which is 3 cm for 50 kev, increases with increasing energy to 5-6 cm for energies above 100 kev. The betatron

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LEONT YEVSKIY, Yevgeniy Sergeyevich; REGSKIY, Nikolay Mikhaylovich; KRYLOV, V.I., retsenzent; SHIKKO, K.N., retsenzent; GLADYSEEV, V.F., retsenzent; OSIFOV, L.L., retsenzent; TAREYEV, V.M., prof., doktor tekh.. nauk, red.; VITASHKINA, S.A., red. izd-va; BOD OVA, V.A., tekhn. red.

> [Marine engineering handbook for the operation of motorships] Spravochnik dlia mekhanika i motorista toplokhoda, Sost. E.S. Leont'evskii i N.M. Renskii. Moskva, Izd-vo "Rechnoi transport," 1961. 558 p. (Marine engineering) (Motorships) (MIRA 15:2)











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AUTHOR	Gladyshev, V.F.	32-	-3-8/52	
FITLE:	The Colorimetric Determination Dust of the Lead Industry (Kol selena i tellura v pylyakh sv:	orimetricheskoye opredele		
PERIODICAL:	Zavodskaya Laboratoriva, 1958	Vol. 24, Nr 3, pp. 275-2	278 (USSR)	
ABSTRACT: Card 1/2	At present selenium and tellu: developed by S.T. Volkov (Ref. a method was described by F.V. is used. In the industrial dus termined according to S.fu.Fay determination takes three days a suggestion made by filek et rium are decomposed in concer- of nitric acid. For the separe solution of thiourea in 2n hy- other elements are removed by are shown by tables. Final de- metrically, visually, or on a	2) or V.K.Zemel' Ref. 3 Zaykovskiy in which as of t selenium and tellurium mberg [Ref.1], but this m a. The present method is h al. [Ref.5], but selenium arated hydrochloric acid tion of the two elements rochloric acid was used, lead chloride. Results of armination was carried of	. Recently orbic acid are de- method of based upon m and tellu- + some drops a 10% whereas the f separation at colori-	

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CIA-RDP86-00513R000 GLADYSHEV, V.P.; SCHGINA, O.A. Determination of selenium and tellurium in products of the lead industry. Izv.AN Katakh.SSR.Ser.khim. no.1:11-21 '59. (MIRA 13:6) 1. Kazakhskiy gosudarstvennyy universitet. (Selenium-Analysis) (Tellurium-Analysis) "APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

GLADYSHEV, V.P.; TOLSTIKOV, G.A.

Polarographic reduction of meconic acid on a mercury electrode. Izv.AN Kazakh.SSR.Ser.khim. no.1:47-54 '59. (MIRA 13:6)

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5(2) AUTHOR:	Gladyshev, V. P.	SOV/75-14-1-16/32	
TITLE:		ry Sulfur by Extraction With Carbon ve elementarnoy sery ekstragirovani- glerodom)	
PERIODICAL:	Zhurnal analiticheskoy khi (USSR)	lmii, 1959, Vol 14, Nr 1, pr 31-93	
ABSTRACT: Card 1/3	time and are difficult, ar cases cause a considerable developed a method of dete- containing large quantitie metals, and further also of various other sulfurous co- fites, polythionates). The these objects amounted to to offer several advantage traction of elementary sul- sulfur in carbon tetrachico (Ref 5). The higher boili	emining elementary culfur take a long ad besides, various cations in most a disturbance (Refs 1-3). The author emining elementary sulfur in materials es of sulfides of mercury and other oxides of arsenic and autimony, and impounds (thiosulfates, sulfates, sul- he content of elementary sulfur in 2-10%. Carbon tetrachloride was found as over carbon distifue for the ex- fur. The solubility of elementary oride amounts to about 2% at 50° and point of carbon tetrachloride per- ton, and besides carbon tetraculorize,	

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 Determination of Elementary Sulfur by Extraction With Carbon Tetrachloride

SCV/75-14-1-18/32

unlike carbon disulfide, is not combustible. The results obtained by determining elementary sulfur in artificial mixtures and in rock by extraction with carbon tetrachloride agree well with the results obtained by determination according to the sulfite method (extraction with sodium sulfite sclution and jodometric determination of the thiosulfate formed). On the basis of these results this new method was used for the analysis of complex mixtures. Results were controlled by determinations from various large weighed portions. It was found that small quantities of elementary selenium ind tellurium (up to 0.5%) do not influence this sulfur determination. The simple method elaborated is suited for the analysis of materials, the analysis of which by the methods hitherto known is very difficult. Carrying out of these determinations is very accurately described in this paper. Preparation of samples for analysis is the same as in the extraction of carbon disulfide (Ref 1). If bitumen or other organic substances are present in the material under investigation, elementary sulfur is not gravimetrically determined after distilling off but by the sulfite method. There are 3 tables and 5 references, 4 of

Card 2/3







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AUTHORS Gladyshev, V.P., Kiseleva, T.G.

TITLE On the polarography of germanium

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 9, abstract 11K54. ("Tr. In-ta khim. nauk. AN KazSSR", 1960, δ , 184 - 195)

TEXT. An investigation was carried out by the method of differential oscillographic polarography on the restoring of ions of Ge^{++++} and Ge^{++} in non-buffer solutions (for example, solutions of $(NH_4)_2SO_4$, NH_4Cl , $(NH_4)_2PO_4$, NH_4CNS , Na_2CO_3 , LiCl, KBr, KI, and others with additions of KCN and complexon III). Mercury-drop and jet electrodes were utilized. It was established that in non-buffer, neutral and weakly alkaline solutions, there occurs the restoration of Ge^{++++} , as indicated by the presence of a notch in the neighborhood of -1.5 v in the upper part of the curves dE/dt vs E, corresponding to the cathode process. The process of restoring is irreversible and is of a kinetic nature. In the presence of the NHL ion in the solution one observes a second wave in the

Card 1/2



CIA-RDP86-00513R000

S/126/60/009/06/008/025 E111/E352 AUTHOR: Gladyshev, V.P. Solubility of Metals in Mercury TITLE: PERIODICAL : Fizika metallov i metallovedeniye 1960. Vol 9. Nr 6. pp 852 - 860 (USSR) ABSTRACT: Some technical uses of mercury (Refs 1-5) require a detailed study of metal solubility in it. The author tabulates published (Refs 4-6) solubility data for 15 °C and discusses proposed explanations for observed values (Refs 4. 9-11). These explanations he describes as qualitative and not applicable to all metals. He maintains that the main factor determining whether a given metal is soluble is the structure of its outer electron shell; the extent of solubility depends on various factors. The influence of the bonding energy of the crystal lattice he represents (because of absence of direct data) by a plot (Figure 1) of solubility (atomic %) against the heat of sublimation (from Refs 17, 18, 21): metals with lowest heats of sublimation have the highest solubility and conversely; those with intermediate heats have medium Card1/3 solubility. A similar relation (Figure 2) is obtained

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Solubility of Metals in Mercury

. between solubility and the bonding energy of diatomic molecules. Figure 3 shows the solubility (circles) and primary ionisation potentials plotted against atomic number this shows that as ionization potential decreases solubility increases. Table 2 presents published (Refs 3, 24, 25, 29, 31) data for solubility and the closest order structure (coordination number determined by neutron diffraction methods) of solid and liquidib(at temperatures C above the melting points) metals; metals not over 40 with closest-order structure most similar to that of mercury are the most soluble, and conversely. A further relation discussed is that between solubility and the ratio of (electron charge valency of ion) - (effective radius of ion) (Refs 19, 32). The relations (Figure 4) depend on the positions of the metals in the periodic table. The aluminium sub-group shows an anomalously high solubility. Sodium deviates from all the relations (Figures 1-4), which the author attirbutes to the high ionization of its atoms relative to those of other first group alkali metals. From the anomalous position of barium in the

Card2/3



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OLADYSHEV, V.P.

"Oszillopolarographische bestimming con anionen."

Report submitted to the Oscillopolarography Course and Polarography Symp. Jena, GDR 10-15 Sep 1962

CIA-RDP86-00513R000

GLADYSEV, V. P.

KALVON, R.

no acada ic dogree indicated

Polarographic Institute, Czechoslovak Academy of Sciences (Splarographischus Institut, Szchechoslovakische Akademie der Wistenschaften), Fragme

Prague, Collection of Czechoslovak Checkeral Gommunications, vol 27, do 10, Oct 62, pp 2365-2371.

"Application of Oscillo/raphical Polarography in untitative Analysis (IX" "Chavior of Chlorides, Bromides and Lodinos"

Co-author:

CHADYSEV, V.P., Folarographic Institute, Csechoolovak Academy of Sciences (Polarographisches Institut, Fschochoslowakische Akademie der Uis enschnitten), Prasme.





CIA-RDP86-00513R000

"APPROVED FOR RELEASE: Tuesday, September 17, 2002

GLADYSHEV, V.P.

Reduction potentials of metals on a morcury electrode. Part 1: Structure of metal atoms and the electrochemical behavior of amalgams. Izv. vys. ucheb. zav.; khim. i khim. tekh. 6 no.3: 390-396 '63. (MIRA 16:8)

(Reduction, Electrolytic)

GLADYSHEV, V.F.; KOZLOVSKIY, M.T.

Reduction of selenite ion and tellurite ion by zinc amalgam. Izv. vys.ucheb.zav.;khim.i khim.tekh. 6 no.5:724-728 '63. (MIRA 16:12)

1. Kazakhskiy gosudarstvennyy universitet, kajedra analiticheskoy khimii.

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE. Tuesday, September 17, 2003 GLADYSHEV, V.P. Reduction of oxygen on a mercury electrode in acid solutions. Izv.vys.ucheb.zav.; khim. i khim. tekh. 6 ro.6:938-944 '63. (MIRA 17:2.) 1. Kazakhskiy gosudarstvennyy universitet imeni S.M.Kirova, kafedra analiticheskoy khimii.

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, Surjung 12, 2002 CIA-RDP86-00513R0005

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Reduction potentials of metals on a mercury electrode. Part 2: Nature of overvoltage in the reduction of metals on a mercury electrode. Izv.vys.ucheb.zav.;khim.t khim.tekh. 6 no.5:762-767 '63. (MIRA 16:12)

1. Kazakhskiy gosudarstvennyy universitet, kafedra analiticheskoy khimii.

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17

TEXT:

CIA-RDP86-00513R000 BR0005

S/126/63/015/002/007/033 B195/E583 AUTHOR: Gladyshev, V.P. TITLE: Some laws governing the physicochemical properties. of binary metal-mercury systems PERICDICAL: Fizika metallov i metallovedeniye, v. 15, no. 2, 1963, 203 - 209Basing his conclusions on the analysis of published experimental data, correlated with theoretical considerations, the present author shows that the shape of the constitution diagrams of Hg-Me systems (where Me denotes a metal) is determined by the structure of the d-electron shell of the metal atom. When the outer d-shell of a metal is empty the liquidus of the constitution diagram of the system formed by Hg in this metal is typical of systems in which the two constituents readily interact to form intermetallic compounds. In contrast, the liquidus of systems formed by mercury and metals with completely filled d-shells changes gradually from the molting point of one component to that of the other. The transition metals, i.e. with incompletely filled outer d-shells, form with Hg systems that are characterized by Card 1/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE. Tuesday, Septer BR0005 •_ S/126/63/015/002/007/033 E193/E383 . Some laws governing practically complete immiscibility in both solid and liquid states. There are 2 figures. ASSOCIATION: Kazakhskiy gosudarstvennyy universitet im. S.M. Kirova (Kazakh State University im. S.M. Kirov) SUBMITTED: June 8, 1962 Card 2/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

GLADYNEV, V.F. [Gladyshev, V.P.]; SEDLAR, A. [translator]

Polarization of an electrode to extreme positive potential in alternating current oscillographic polarography. Chem zvesti 17 no.8:575-580 - '63.

1. Kazakhskiy gosudarstvennyy universitet, Alma-Ata (for Gladysev).



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GLADYSEV, V.P. [Gladyshev, V.P.]; SEDLAK, A. [translator]

Oscillopolarographic examination of 3-hydroxy-4-pyrone derivatives. Chem zvesti 17 no.8:581-585 '63.

1. Kazakhskiy gosudarstvennyy universitet, Alma-Ata (for Gladysev).

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APPROVED FOR RELEASE. Fueld, Content of the reduction of the reduction of selenite
and tellurite anions. Chem zvesti 17 no.8:586-591 '63.
1. Kazakhskiy gosudarstvennyy universitet, Alma-Ata (for
Gladysev and Rozdestvenskaja).


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GLADYSHEV, V.P.

Oscillopolarographic examination of the persulfate anion behavior on mercury electrodes. Coll Cz Chem 28 no.4: 997-1006 Ap *63.

l. Polyarograficheskiy institut, Chekhoslovatskaya akademiya nauk, Fraga; nastoyashchiy adres: Kazakhskiy universitet im. S.M. Kirova, Alma-Ata, SSSR.



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	Schematic dia	gram of the electro	alyzer: 1 -	mizer, 2 – gran	bite lead rod.		
	3 – amalgam,	4 - electrolyte, 5	– additonal eposition	cathode, 6 – cat	hode for puré		
Card 3/3							



TANEYEVA, G.V.; GLADYSHLV, V.P.

Oscillographic determination of acetaldehydes and crotonaldehydes present together. Zhur. anal. khim. 19 no. 1:138+139 *64. (MIRA 17:5)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, Alma-Ata.

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17, 2002

OLADYSHEV, V. P. The Second All-Union Conference on the Preparation and Analysis of High-Purity Elements, held on 24-28 December 1963 at Gorky State University im. N. I. Lobachevskiy, was sponsored by the Institute of Chemistry of the Gorky State University, the Physicochemical and Technological Department for Inorganic Materials of the Academy of Sciences USSR, and the Gorky Section of the All-Union Chemical Society im. D. I. Mendeleyev. The opening address was made by Academician N. M. Zhavoronkov. Some 90 papers were presented, among them the following: **~** . .

V. P. Gladyshev, L. A. Gudovskaya, A. I. Ivankova, and D. P. Synkova. Fluorimetric and oscillographic polarography methods for determining Te and Se, respectively, in high-purity bismuth, with sensitivity of 10⁻⁵ to 10⁻⁶ %.

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 AUTHOR: Gladyshev, V. P. ; Tember, G. A.; Geynrikhs, K. Ya.;
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 TITLE: Electrolysis in tertrate-alkali electrolytes Communication II in a series
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effects of compositions and electrolyte component concentratic a showed that the

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ACCESSION NT: AT5012682 and Ba. Elements which codeposit with biamuth (Ag. Hg, Cu., Se, Te) are determined by direct spectrographic analysis or by means of organic reagents. In the amalgam method, the authors utilized comentation to separate bismuth from electron galive metals. This method of concentration was used in an oscillopolar graphic determination of lead to bismuth. In addition to lead, thalling, indium, cadmium, zino, th, and marganese present in bismuth in amounts of up to 10 ⁻¹⁶ can be similarly determined. The senal-	
tivity of the method is limited by the limits of sphicability of the Nemst equation for amalgam electrodes to very dilute amalgams and by the formation of sperringly soluble intermetallic compounds between the metals and mercury? "N.F. Zakiarchuis, A.L.	







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GLADYCHEV, V.P., kand.khim.nauk

Use of codium analgam in clockrochemical tech olary. West. AN Kawakh. SER 21 no.10:31-41 0 195. (MIRA 18:12)



"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

AUTHOR:Gladyshev, Ye.G. (Moscow)SCV/52-3-4-7/11TITLE:On Multi-dimensional Stationary Random Processes
(O mnogomernykh statsionarnykh sluchaynykh protsessakh)

PERIODICAL: Teoriya Veroyatnostey i Yeye Primeneniya, 1958, Vol 3, Nr 4, pp 458 - 462 (USSR)

ABSTRACT: Wald's expansion and the necessary and sufficient conditions for the regularity and the maximum regularity of n-dimensional stationary random processes with continuous time are obtained. The results are summarised in four theorems, the first of which is concerned with the expansion properties, the second and third with the regularity and the last with the maximum regularity. There are 6 references, 4 of which are Soviet, 1 English and 1 Scandinavian.

SUBMITTED: May 25 1958

Card 1/1

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 BR0005 3/020/43/14/7/000/005/026 C111/0022 16.6100 AUTHOR: Gladysnev, Ya.G. TITLE: Periodically correlated random asqueater PERIODICAL: Akademiya nauk SSSR. Dowlany, woilts?, rolp thet, toucotory **TEXT:** Definition: The random sequence x_{μ} , $\mu = 0$, ± 1 , $\mu = 0$ and dperiodically correlated if $\mathbf{W} \left(\mathbf{x}_{\mu} \right)^{2} < \infty$ for all μ -calture exacts an integral T so that for all n and $\mathbf{M}\mathbf{x}_{n} = \mathbf{M}\mathbf{x}_{n+T}, \quad \mathbf{M}\mathbf{x}_{n+T} \mathbf{x}_{n} = \mathbf{M}\mathbf{x}_{n+T+T} \mathbf{x}_{n+T}$ (1)T is called a period of the sequence $\mathbf{x}_{\mathbf{h}}$. Below let $M_{x_n} = 0$. The correlation function of x_n , eds. $B(n, \mathbb{C}) = M_{X_{i}} = \overline{X}_{i}$ it has the representation $B(n,\tau) = \sum_{k=0}^{T-1} B_k(\tau) \exp\left(\frac{2\pi i k r}{T}\right).$ (\cdot) For an arbitrary integral k Let $b_{k}(\mathbf{T}) = B_{k+T}(\mathbf{T})$. Card 1/5

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Periodically correlated random sequences
$$C111/C112$$

Theorem 1: The function (3) is the correlation function of a periodically correlated random sequence then and only then it to entrie $B(\tau) = \|B_{jk}(\tau)\|_{j,k=0,\dots,T-1}$ (4)
where $B_{jk}(\tau) = B_{k-j}(\tau)\exp(2\pi i j \tau/T)$ (5)
is the correlation matrix of a certain T-dimensional stationary random sequence.
Another formulation. In order that (1) is the correlation function of a periodically correlated sequence it is necessary and with the statiant $B_k(\tau)$, $k=0,\dots,T-1$ are representated by Fourier-differentiated and all $B_k(\tau)$, $k=0,\dots,T-1$ are complex functions of a periodically correlated sequence it is necessary and with the statiant $B_k(\tau) = \int_0^{2\pi} e^{i\tau \lambda} a T_k(\lambda)$, (3)
where $F_k(\lambda)$, $k=0,\dots,T-1$ are complex functions of a second variation which are continuous from the loft-hand, where for artitric, λ_1 and $\lambda_2 \ge \lambda_1$ the increase $T(\lambda_2) - T(\lambda_1)$ of the entric

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(10)

Periodically correlated random sequences

$$\mathcal{F}(\lambda) = \|\mathbf{F}_{k-j}((\lambda-2\pi_j)/T)\|_{j,k=0,\ldots,T-1}$$

is a Hermitean non-negative definite matrix (for k<0 and for $\lambda < 0$ or $\lambda > 2\pi$ the $F_k(\lambda)$ are defined by $F_k(\lambda) = F_{k+T}(\lambda)$, $F_k(\lambda+2\pi) = F_k(\lambda) + F_k(2\pi)$, $F_k(0) = 0$ for all k).

From (3) and (9) there follows the representation

$$\mathbf{x}_{n} = \int_{0}^{2\pi} e^{in\lambda} z(d\lambda), \qquad (11)$$

where $z(\Lambda)$ is a random set function with the mathematical expectation 0 which satisfies

$$M_{z}(\Lambda)\overline{z(M)} = \sum_{k=T+1}^{T-1} \int_{\Delta \prod(M-\frac{2Wk}{T})} dF_{k}(\lambda)$$
(12)

(M-a is the set of the points $p - a, p \in M$). The case of multi-dimensional periodically correlated random sequences $x_n = (x_n^1, \dots, x_n^s)$ for which Card 3/5 "APPROVED FOR RELEASE: Tuesday, September 17, 2002

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 BR0005 21962 s/020/61/137/005/005/026 Periodically correlated random sequences C111/C222 elements of $\mathcal{F}(\lambda)$, and $\mathbb{U}(\lambda) = \|\mathbb{U}_{jk}(\lambda)\|_{j,k=0,\ldots,T-1}$ is a unitary matrix depending on with the elements $U_{jk}(\lambda) = T^{-1/2} \exp\left(\frac{2\pi i j k - i k \lambda}{T}\right).$ Theorem 3: A periodically correlated random sequence x is completely regular then and only then if 1) all $F_1(\lambda)$ are absolutely continuous; 2) det $df(\lambda)/d\lambda > 0$ almost everywhere; 3) $\int_{\lambda}^{2\pi} \ln \det \frac{df(\lambda)}{d\lambda} d\lambda > -\infty$. Theorem 4: A periodically correlated random sequence x_n is minimal then and only then if 1) det $d\mathbf{F}(\lambda)/d\lambda > 0$ almost everywhere; 2) $\int \mathbf{Sp}(d\mathbf{F}(\lambda)/d\lambda)^{-1}d\lambda < \infty$. The^oauthor thanks A.M.Yaglom for advices. There are 3 Soviet-bloc and 2 non-Soviet-bloc references. ASSOCIATION:Institut fiziki atmosfery Akademii nauk SSSR (Institute of Atmospherical Physics of the Academy of Sciences USSR) **PRESENTED:** October 22, 1960, by A.N.Kolmogorov, Academician SUBMITTED: October 10, 1960 Card 5/5

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37.	Volkonskiy, V. A. Applications of the Theory of Random Processes to Estimating the Accuracy of Measuring Devices	201
38,	Gladyshev, Ye. G. An Interpolation Problem for Multi- dimensional Stationary Sequences	203
39	On the Reliability of Discrete Automata	
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. 01	nsactions of the 6th Conf. on Probability Theory and Mathematical Statis the Symposium on Distributions in Infinite-Dimensional Spaces held in Vi O Sep '60. Vil'nyus Gospolitizdat Lit SSR, 1962. 493 p. 2500 copies	1 Luna - China

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