SOV/56-34-5-50/61

On the Problem of the Ambipolar Diffusion in a Magnetic Field

in publications has the advantage that the concentration of the electrons in the plasma need not be measured. Hence, the decrease of D is not accompanied by a just as great decrease of the diffusion current on the wall, when the longitudinal inhomogeneity is disturbed. There are 2 figures and 6 references, 4 of which are Soviet.

SUBMITTED:

February 1, 1958

1. Magnetic fields—Electrical effects 2. Ionic current -- Measurement 3. Mathematics—Applications

Card 3/3

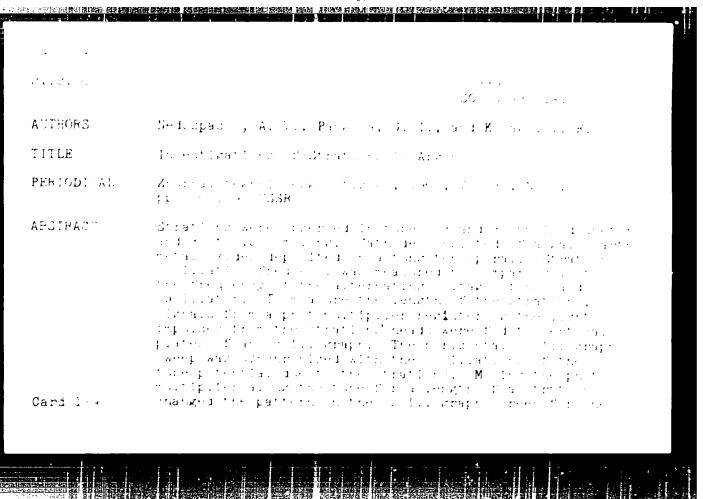
KADOMTSEV, B.B.; NELOSPASOV, A.V.

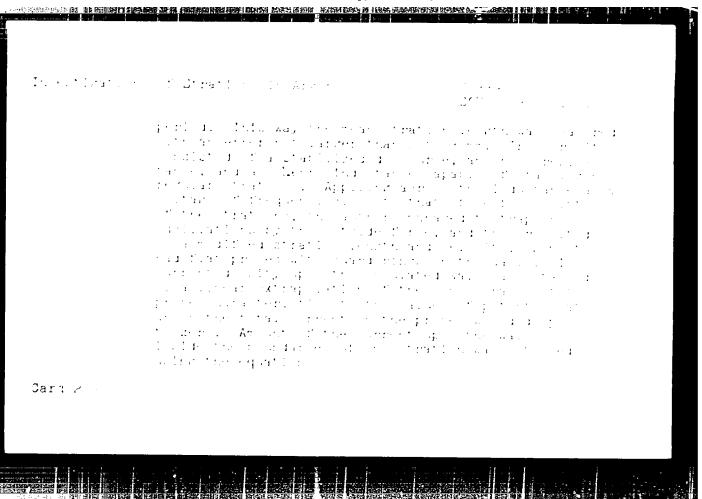
[Instability of a positive column in a magnetic field, and "anomalous" diffusion] Neustrochivost' poloshitel'-nogo stolba v magnitnom pole i "anomal'naia" diffusia. Moskva, In-t atomnoi energii, 1959. LL p. (MIRA 17:2)

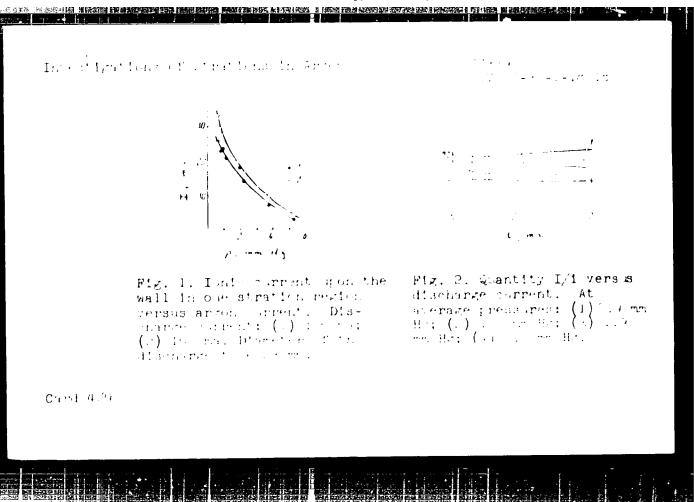
NEDOSPASOV, A.V., kand.fis.-mat.nauk; LOHONOSOVA, L.S., inzh.; MOVIK, A.Ye., inzh.

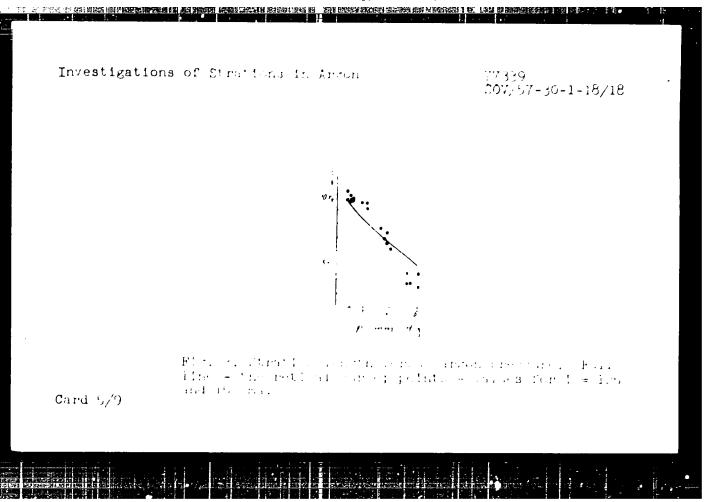
Cathode emission in flourescent lamps. Svetotekhnika 5 no.9:7-9 S '59. (MIHA 13:2)

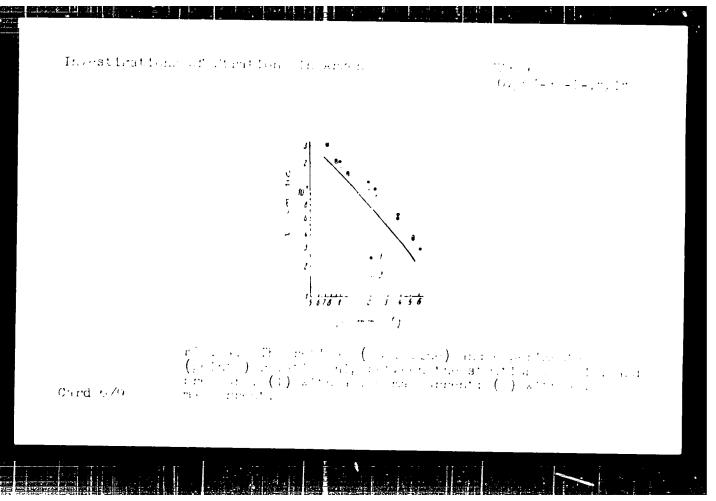
1. Moskovskiy elektrolampovyy zavod. (Flourescent lamps)

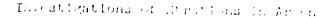












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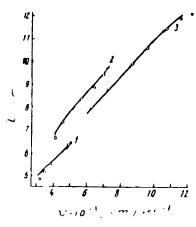


Fig. 3. Leasth of strations versus their velocity. Wountities of thered without out ide influence are denoted by charges. (1) andon pressure tomm Hr. discharge arrest as ma; (2) angon pressure tomm Hr. discharge correct assuma; (2) angon pressure tomm Hr. discharge correct assuma; (2) angon pressure tomm Hr. discharge correct assuma; (3) angon pressure tomm Hr.

Card 7/9

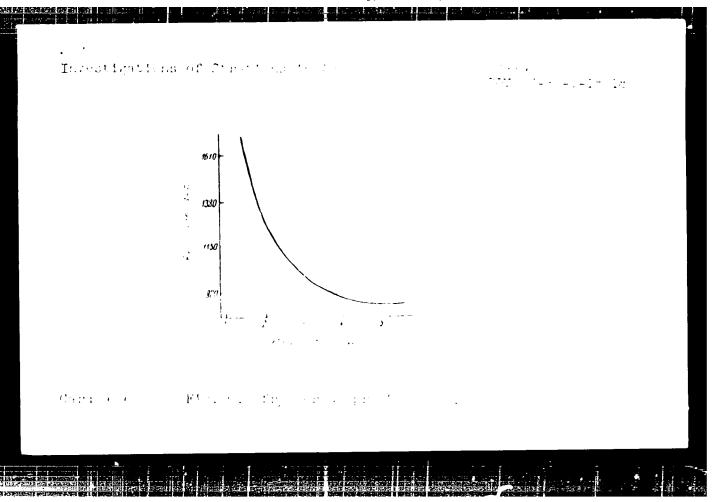
APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

Investigations of Strations in Argent Services and Services well with the theoretical productions. Errors were usually not worse than 5%. A. A. Suytsev gave notice and discussed the paper. There are tiferes; and 3 references, 4 Soviet, 1 German, 1 U.K., 2 U.S. The U.K. and U.S. references are: V. D. Parris, Proc. of Phys. Con., 909, 381, 1005; A. B. Stewart, J. of April Phys., vi., 211, 1056; V. D. Parris, J. of Electronics, 1, Ser. 1, 6, 105.

SUBMITTED: October 2, 1008

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



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

84561

s/057/60/030/011/004/009 B006/B054

9.4120 (1105,1138,1140)

Nedospasov, A. V. and Novik, A. Ye.

AUTHORS:

Propagation Velocity of the Ionization Front ir Spark-over TITLE:

in Long Discharge Tubes

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 11, PERIODICAL:

pp. 1329-1336

TEXT: The authors report on experimental studies of phenomena appearing in spark-over in long $(1\gg r)$ gas discharge tubes with a fast voltage increase $(10^5 - 10^6 \text{ v/sec})$. Above all, the authors studied the ignition processes under conditions similar to those with ignition of luminescence tubes, without a starter, and determined the dependence of the velocity of the ionization front on various conditions. At first, they describe the experimental arrangement (circuit diagram - Fig. 1), and discuss the method of measurement. The tubes had diameters of 15, 25, and 38 mm, and lengths of 47, 88, and 120 cm, respectively, and were filled with chemical. ly pure argon (0.5 - 10 mm Hg). The measurement results are shown in diagrams. Fig. 2 shows current oscillograms obtained from a set of Al foil Card 1/3

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Propagation Velocity of the Ionization Front S/057/60/030/011/004/009 in Spark-over in Long Discharge Tubes

capacitor plates. These plates, being arranged along the discharge tubes at half the tube diameter, had a length equal to the diameter of the tubes. Pig. 3 shows the dependence of the displacement time (in μsec) of the ionization front on the distance (in cm) from the ignition electrode; Fig. 4 shows the dependence of the velocity of the ionization front on the amplitude of the voltage applied (800 - 1400 v); Fig. 5 shows the dependence of the velocity of the ionization float on the frequency of the voltage (50 - 200 cps); Fig. 6 shows the pressure dependence of the velocity of the ionisation front (0.5 - 10 mm Hg); and Fig. 7 shows the pressure dependence of the charge hitting 1 cm of the tube wall. Figs. 3, 4, 5, and 7 (approximately) show ascending straight lines, and Fig. 6 shows a hyper bolic branch. In the last part of the paper the authors first discuss the processes leading to a discharge, after which they give a theoretical interpretation and discussion of the results. The short discharges between the electrode and the walls along the tube are accompanied by ionization and the formation of primary plasma. The rate of this process is determined by the kind and pressure of the gas, the tube diameter, the wall capacity and the rate of variation of the electrode potential. G V Spivak and Ye L. Stolyarova are mentioned. There are 8 figures, 1 table and Card 2/3

Propagation Velocity of the Ionization Front in Spark-over in Long Discharge Tubes B006/B054

15 references: 7 Soviet, 3 German, 4 US, and 1 British.

SUBNITTED: April 20, 1960

1. 5/089/62/013/005/005/012 24 6 60 B102/B104 AUTHOR: Nedospasov, A. V. Local field inhomogeneities in magnetic mirror traps TITLE: PEHIODICAL: Atomnaya energiya, v. 15, no. 5, 1962, 472-473 TEXT: Magnetic field innomogeneities reading to changes of the adiabatic invariant I= v_i^2/H and caused e. g. by the ion injector in "Ogra" or "Ogrenok" devices are considered. These changes are now estimated on the assumption that the ions are scattered from small dipole perturbations whose moments are parallel to the fundamental field. For $\vec{V} = \frac{r}{mc} (VH_{1c})$ (1) $H \approx e_I H_0 + h$ $h = \frac{3(Mr)r}{r!} - \frac{M}{r!}$ (2). Card 1/4

Local field inhomogeneities in ... S/089/62/013/005/012

V giving the change in the longitudinal velocity component of the charged particles, a solution of the kind $V = V_0 + V$ is sought. V_0 is the velocity

of the unperturbed motion, $|v| \ll |v_0|$. If also $|h| \approx H_0$, $|v| = \frac{e}{mc} |v| + \frac{e}{mc} |$

$$v_{i} = 3M\omega_{H}^{2}\varrho_{A}v_{0}, \qquad \frac{\varrho_{A} + R(s_{H})(\omega_{A}t + \alpha)}{\epsilon^{4}}.$$

$$r^{2} = t^{2} + R^{2} + \varrho_{A}^{2} + 2R_{\psi_{A}} \sin(\omega_{H}t + \alpha)$$
(4)

$$\frac{Q_n}{R} = y$$
, $w_H t = x - \frac{v_n}{v_n}$. Let $t = b$

$$\frac{\delta e}{e} = \frac{h(R)}{H_0} \frac{h(R)}{H_0(R)} \frac{\pi}{2} (5)$$

$$f(y, \alpha, b) = \int_{-\infty}^{\infty} \frac{x\{y + \sin(x + \alpha)\} dx}{\{1 + y^2(1 + b^2x^2) + 2y\sin(x + \alpha)\}^{b-1}}$$
 (6)

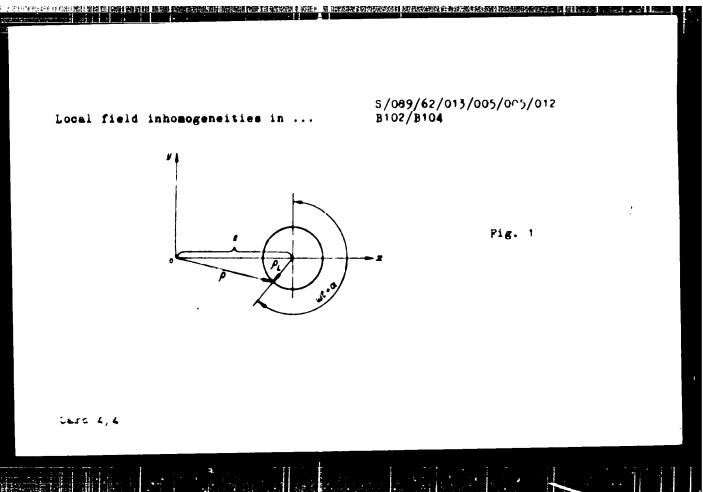
Card 2/4

S/089/62/013/005/005/012
Local field inhomogeneities in ... B102/B104

where α is the phase angle at which the particle passes through the plane z=0 and i is the angle of inclination of the velocity vector to a plane which is perpendicular to the magnetic field. $f(\alpha)$ was computed for $b^2=0.18,\ 0.55$ and 0.5. The first value corresponds approximately with the injection angle of "Ogra" and "Ogrenok". If multiple scattering is taken into account, one obtains for the "stochasticity condition" (cf. Atomnaya energiya, v. 6, no. 6, 650, 1959) the hypothetical inequality $(7): \frac{dv_{\parallel}}{v_{\parallel}}/2\pi v_{t}/L$. L is the path between two scattering events. For "Ogra" v_{t}/L ...1:10⁻⁴ and for "Ogrenok"

 $\ell_{\rm t}/{\rm L}=5\cdot 10^{-4}$, so that $dv_{\rm H}/v_{\rm H} \gtrsim 2\cdot 10^{-5}$. If $\Delta {\rm I}^2/{\rm I}^2\simeq 10^{-1}$ particles will escape through the mirror. If the field perturbation is characterized by $\beta={\rm H_{dipole}}/{\rm H_{fund}}$, the approximate snape of the $\beta(y)$ -curve may be found. It has a minimum somewhere between y=0.5 and 0.5. The condition (7) is satisfied in "Ogra" for $\beta \lesssim 1\%$, in an axisymmetric field it is violated. There are 3 figures.

SUBMITTED: July 9, 1962 Card 3/4



S/057/62/032/007/004/013 B104/B102

ATTIONS:

Vdovin, V. L., and Nedospasov, A. V.

TITLE:

Current instability of a positive column in a magnetic field

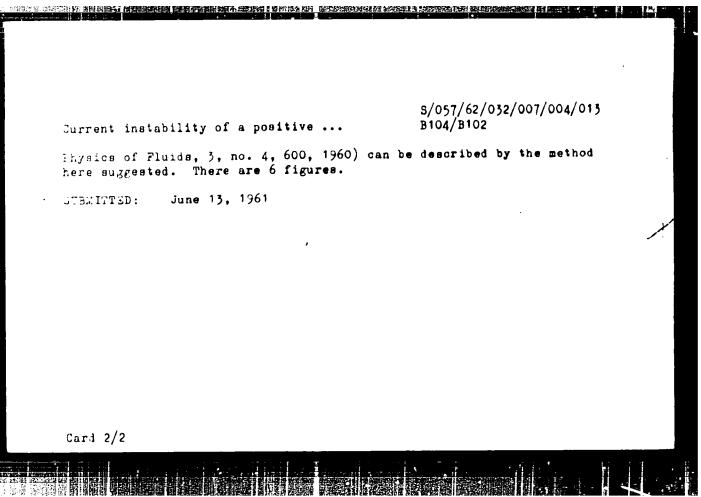
PERIODICAL:

Zhurnal tekhnicheskoy fiziki, v. 32, no. 7, 1362, 817-822

TEAL: B. B. Kadomtsev and A. V. Nedospasov (J. Nucl. Energy, part C, Plasma Physica, 1, 230, 1960) showed that an instability of the form $f(r)\exp(i(m\psi+kz-\omega t))$ was established in the positive column of a gas discharge subjected to a sufficiently strong, longitudinal magnetic field, and that an azimuthal electric field was generated. A particle drift toward the wall is observed. The critical pressures for the appearance of these instabilities when discharges occur in He, H₂, Ne, Ar,

Hg are calculated in the present paper on the basis of Nedospasov's theory and are compared with experimental data. It is shown that the instabilities discovered by F. C. Hoh and B. Lehnert (Report IIIb, 25, on the Fourth Intern. Conf. on Ionisation Phenomena in Gases. Uppsala, 1959;

Card 1/2



ARTSIMOVICH, L.L.; MEDOSPASOV, A.V.

Radial distribution of a positive column of plasma in a magnetic field, Dokl.AN SSSR 145 no.5:1022-1024 '62. (MIRA 15:6)

1. Predstavleno akademikom M.A.Leontovichem. (Plasma (Ionised gases)) (Magnetic fields)

s/0056/64/046/003/0926/0928

ACCESSION NR: AP4025926

AUTHORS: Nedospasov, A. V.; Ponomarenko, Yu. B.

TITLE: Concerning the amplitude and form of strata

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. v. 46, no. 3, 1964, 926-928

TOPIC TAGS: plasma, positive column, plasma strata, positive column strata, confined plasma, plasma equilibrium, growing plasma waves, stationary plasma waves, sinusoidal strata, relaxation strata, negative strata, critical point, critical surface

ABSTRACT: The range of plasma parameters in which strata of a positive column can exist is considered qualitatively and is represented by a closed surface in the space of 'he parameters R, I, and p (R -- tube radius, I -- discharge current, p -- pressure). When any of the parameters passes through this boundary the plasma equilibrium

Cord 1/2

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ACCESSION NR: AP4025926

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is disturbed and the interaction between the growing waves with different wave numbers results in stationary waves which constitute the strata. Conditions under which sinusoidal, relaxation, and negative strata are produced are analyzed from the point of view of the variations of the parameters on going through the critical points in various regions of the critical surface. The need for further experimental research is pointed out. "The authors are grateful to A. A. Vedenov and M. A. Leontovich for discussions." Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physicotechnical Institute)

SUBMITTED: 01Aug63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: PH

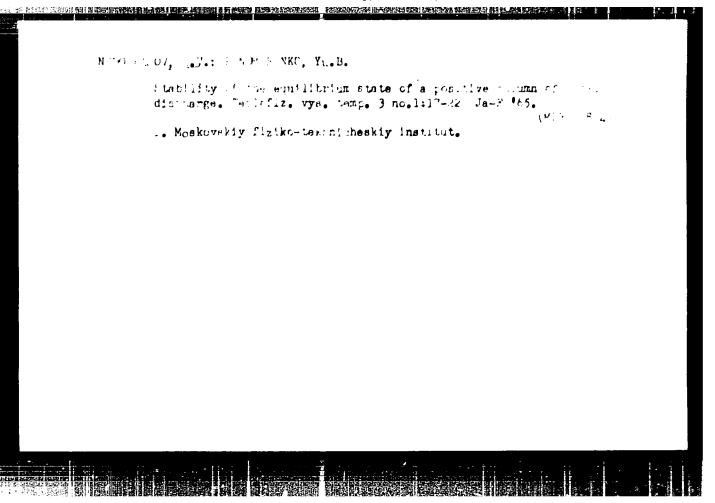
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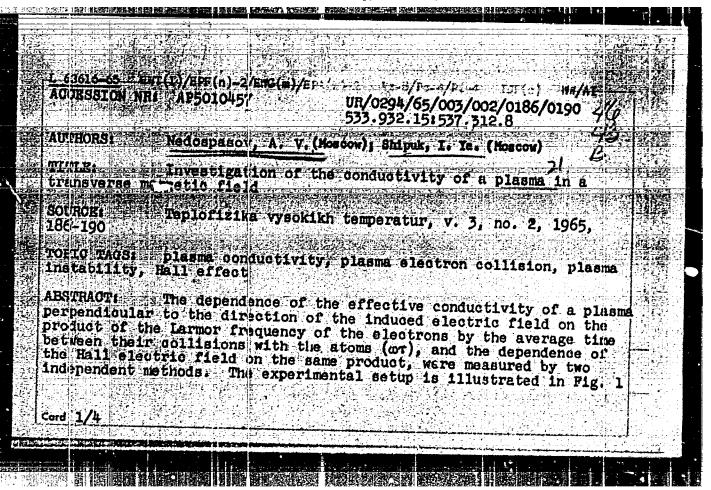
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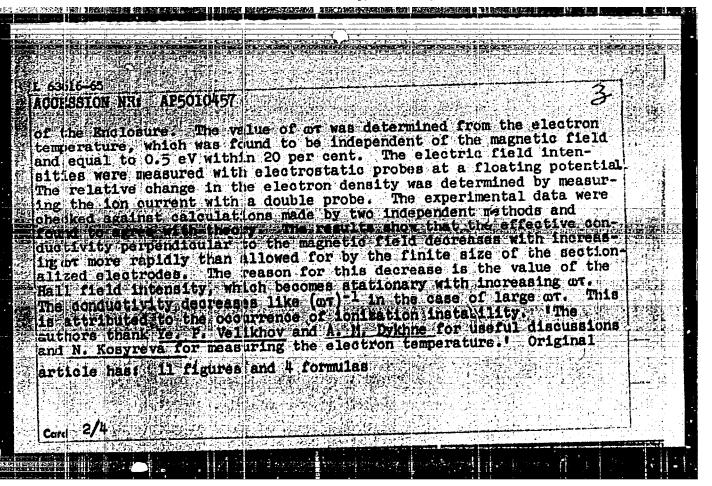
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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-

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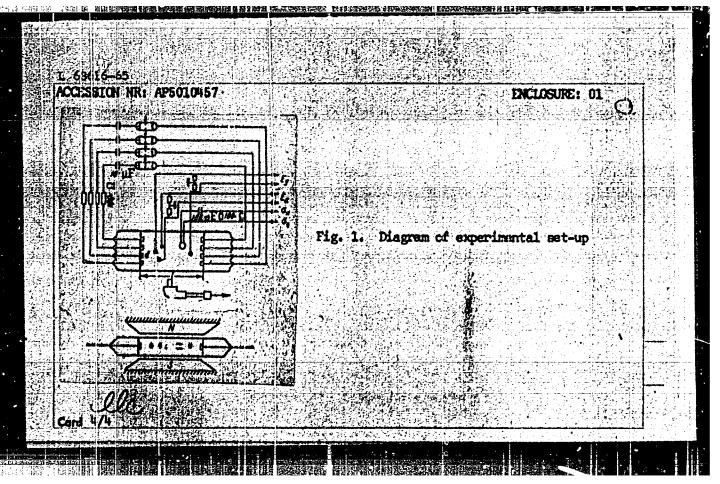






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ACCESSION NA								0	
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CIA-RDP86-00513R001136 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

ACC NRI APG033409 SOURCE CODE: UR/0057/66/036/010/1758/1767

AUTHOR: Nedospasov, A.V.

ORG: none

TITLE: Helium discharge positive column in a strong magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 10, 1966, 1758-1737

TOPIC TAGS: gas discharge plasma, helium plasma, plasma magnetic field, plasma instability, plasma oscillation, positive column, spectrum, correlation function

ABSTRACT: In order to investigate the transition of the positive column of a gas discharge in a magnetic field from the condition of current-convective instability that obtains at magnetic field strengths close to a critical value to the turbulent condition that prevails at much higher magnetic field strengths, the authors have recorded with probes the oscillations in the positive column of a hot cathode helium discharge in a 3.1 cm diameter 180 cm long tube in magnetic fields up to 6 kOe extending over 120 cm of the length of the discharge tube. Three 12 mm long 0.3 mm diameter molybdenum probes were mounted at different points on the axis of the discharge tube, and two similar probes were mounted at different distances from the axis opposite two of the axial probes. The spectra of the signals from the probes and the correlation functions of the signals from different pairs of probes were recorded. Twenty-six of the recorded spectra and correlation functions are presented graphically

Card 1/2

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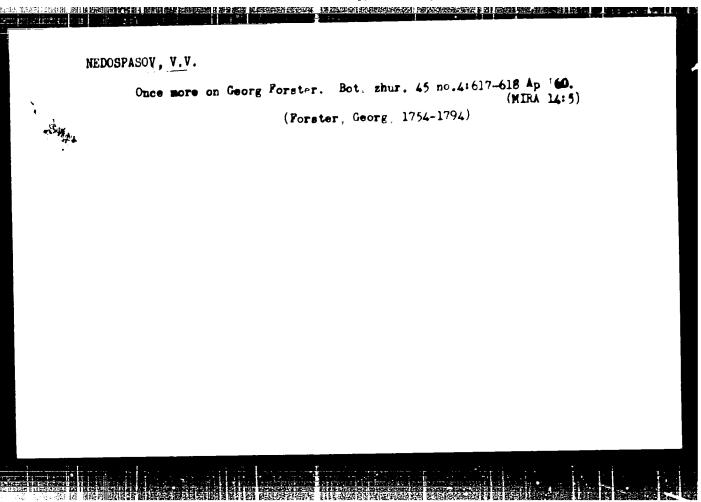
APPROVED FOR RELEASE: Wednesday, June 21, 2000

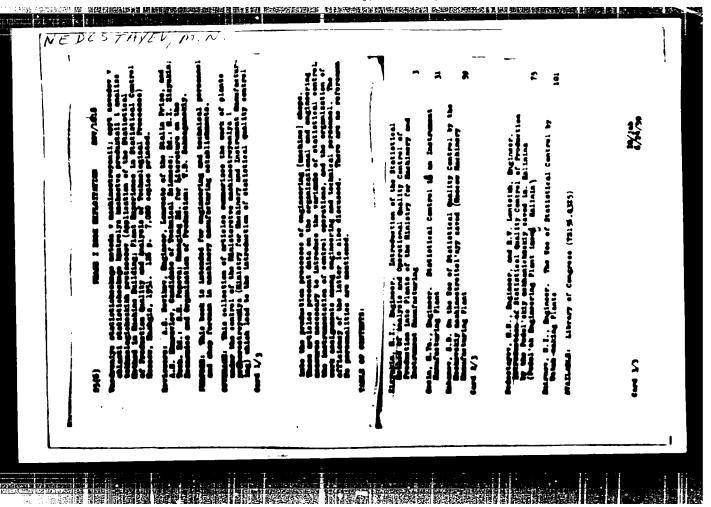
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and are discussed at some length. Three types of oscillations were distinguished: current-convective oscillations with a discrete spectrum, which appeared as expected at the critical magnetic field strength and behaved in accordance with the theory; low frequency oscillations with frequencies of a few kilohertz associated with propagation of waves from the axis to the wall of the discharge tube, the propagation velocity being 3 x 10⁵ cm/sec at a magnetic field strength of 5.6 kOe; and oscillations with frequencies of several tens of kilohertz, which first appeared when the magnetic field was slightly inclined to the axis of the discharge tube and was of such a strength that the ion Larmor frequency was approximately equal to the ion collision frequency. Possible causes of the different oscillations are discussed. Orig. art. has: 2 formulas and 12 figures.

SUB CODE: 20 SUBM DATE: 17Sep65 ORIG. REF: 007 OTH REF: 005

Card 2/2





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

- 1. MEDOSTUP, F. I.; ZEYGERMAKHER, G. A.
- 2. USSR 600
- 4. Mumps
- 7. Numps, Pediatriia, No. 6, 1952. pp. 53-55 "Concerning Epidemic Parotitis,"

The authors describe their observations on a group of patients with epidemic parotitis in an Odessa hospital. They state that, as a rule, this disease is more common among children of school age. In this instance, adults comprised 38.3% of all cases. The epidemic usually assumes max. proportions in March-May. Standard complications encountered have been meningitis in children and orchitis in male patients. The prognosis has been good in the majority of cases.

Chair of Infectious Diseases, Cdessa Med. Inst.

"STEPINA, N.G. [Stepina, N.H.]; NEDOSTUP, F.I.

Method for early mud treatment in pontine forms of policmyelitis.

Ped., akush. i gin. 22 no.3:13-15 160. (MIRA 14:4)

1. Kafedra infektsionnykh detskikh bolesney (sav. - dotsent N.G. Stepina [N.H.Stepina]) Odesskogo meditsinskogo instituta im. M.I. Pirogova (direktor - saslushennyy deyatel' nauki prof. I.Ya.Deyneka) i klinicheskoy infektsionnoy bol'nitsy (glavnyy vrach - L.T. Zhidovlenko).

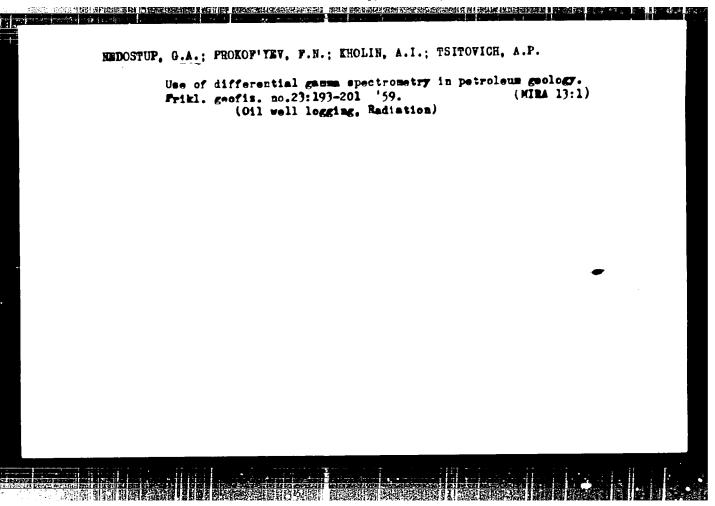
(BATHS, MOOR AND MUD) (POLIOMYELITIS)

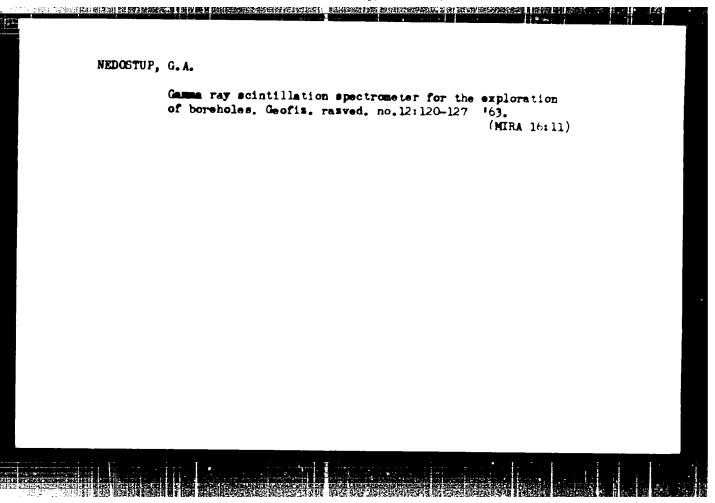
STPPIMA, M.G.; GONCHARUK, A.N.; NEDOSTUP, F.I.

Fangotherapy in policyalitis in children. Vop. kur., fisioter.
i lesh. fis. kult', 30 no.3:268-269 Ny-Je '65.

(MIRA 18:12)

l. Kafedra infektsionnykh bolsansy datakogo vosrasta (zav.dotsant M.G. Stapina) Odesskogo meditsinskogo instituta i
Odesskaya klinicheskaya infektsionnaya bol'nitsa (glavnyy
vrach L.T. Zhidovlenko). Submitted June 20, 1963.





L 40160-06 (T(L)/ (m) W TANKE CODE: UR/0170/66/010/006/0783/0788
AUTHOR: Medostup, V. I.
ORG: Institute of Maval Engineers, Odessa (Institut inshenerov morskogo flota)
TITLE: Method of correlation of the law of corresponding states for calculation of the thermodynamic properties of real gases and their mixtures
SOURCE: Inshenerno-fizicheskiy zhurnal, v. 10, no. 6, 1966, 783-788
TOPIC TAGS: real gas, thermodynamic property, correlation function
ABSTRACT: A method of correlation of the law of corresponding states has been described. The method permits one to use the similarity point and data on Boyle's curve to calculate the thermodynamic properties of gases and their mixtures with acceptable accuracy. The quantity λ is used as the parameter depending on the properties of the materials. The quantity λ is found from equation $\lambda = b'(\tau_g^2 - \tau_g)$. Orig. art. has: 5 formulas and 3 tables. [Based on author's abstract]
SUB CODE: 20/ SUBM DATE: Oljun65/ ORIG REF: 003/ OTH REF: 008
Cord 1/1" UDC: 536.7

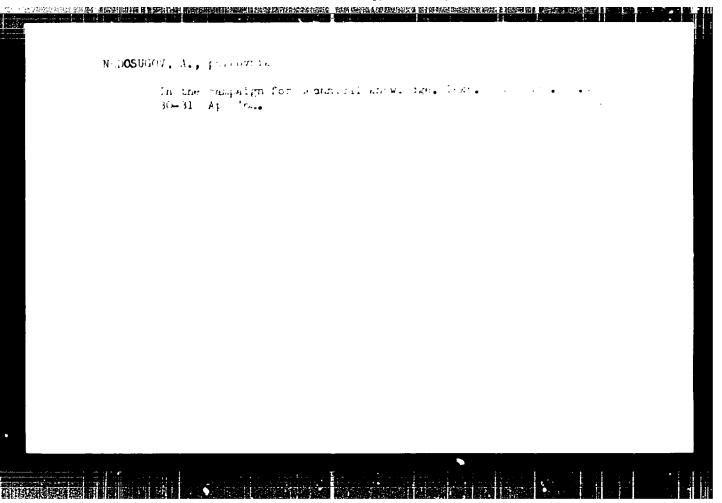
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A	hemaik, A.G.; Nodostup, V.M.; Lovin, G.I.
Ú: noi	
	On the role played by vacancies and dislocated atoms in induced anisotropy All-Union Conference on the Physics of Ferro- and Antiferromagnetism hold 1965 in Sverslovsky
ತರರಗಿರ∑:	ANSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 1050-1054
TOPIO TA	GS: Terromagnetic film, permalloy, magnetic anisotropy, annealing, lattice kinetic theory
ABSTRICT 1000 A t molt at differen were plo fills th sition a curves a	The authors have investigated the magnetic anisotropy of approximately lick permalloy films vacuum deposited at 3 x 10 ⁻⁵ mm Hg from a 17.57e-82.5Ni about 40 M/sec onto heated (20 to 200°) glass substrates and annoaled at temperatures and for different lengths of time in a 100 Oc field. Curves to the grain time magnetic anisotropy as a function of duration of annoal for at were deposited on substrates maintained at a given temperature during deposite were annealed at a (generally different) given, temperature. Two of the secret presented. The curves had different shapes, depending on the parameters to and annealing temperatures): some rose motonically with increasing annealing and a limiting value of the magnetic anisotropy, some fell monotonically, and
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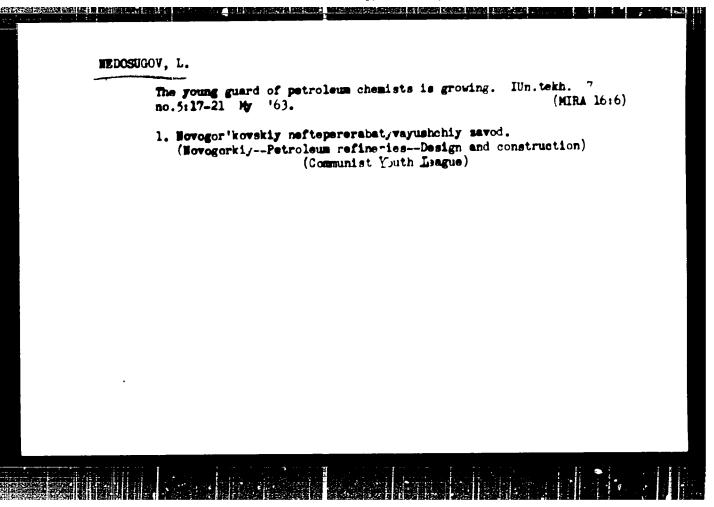
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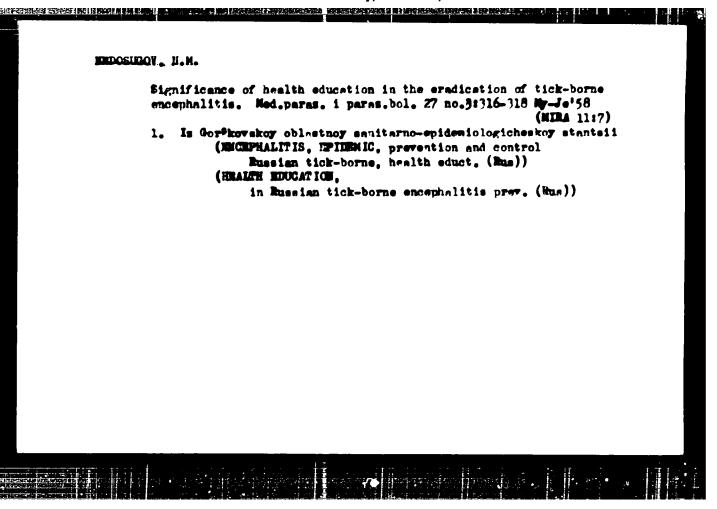
L 08764-67 ACC NR: APG029131

others (including the two presented in the paper) decreased to a minimum and then rose toward the initial value of the anisotropy. It is hypothesized that induced magnetic unisotropy is due mainly to the influence of lattice defects, and data in the literature are adduced in support of this hypothesis. A simple kinetic theory of the magnetic annual of the films is developed on the assumption that the anisotropy is due to ordered chains of vacancies and that during the anneal the number of ordered vacancies can increase as a result of ordering of initially disordered vacancies and can Gorroaso as a result of annihilation of vacancies with dislocated atoms. The results of this theory were compared with the experimental curves and good agreement was found; it is concluded that ordered vacancies are mainly responsible for the induced magnetic anisotropy in the investigated films. The activation energies for the ordering and annihilation processes were found to be 27 and 18.7 kilocal/gram-atom, respectively. The processes taking place during the anneal were found to take place least rapidly in the films that were deposited on 100° C substrates. The greater rapidity of the annual processes in films deposited on colder substrates is ascribed to the effect of greater mechanical stresses in those films; the reason for the greater rapidity of the anneal processes in the films deposited on hotter substrates is not understood. The authors expect to investigate in the future the effects of impurities and film deposition rate on the kinetics of magnetic anisotropy induction. Orig. art. has: 9 formulas and l figure.

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17(2,6) 36 Vy 16 - 69 - 4- 65/47

AUTHOR: Nedosugov, N M.

TITLE: A Case of Tularemia Relapse Author's Summary

PERIODICAL: Zhurnal mikrobio.ogii, epidemiologii i immunobiologii, 1454,

Nr 9, pp 129 (USSR)

ABSTRACT: This is the case tistory of a relapse into tularemia occurring

2 years and 10 months after the initial attack.

ASSOCIATION: Gor'kovskaya oblastnaya sanıtarno-epidemiologicheskaya stantsiya

(Gor'kiy Oblast' Samitary-Epidemiological Station'

SUBMITTED: May 4, 1958

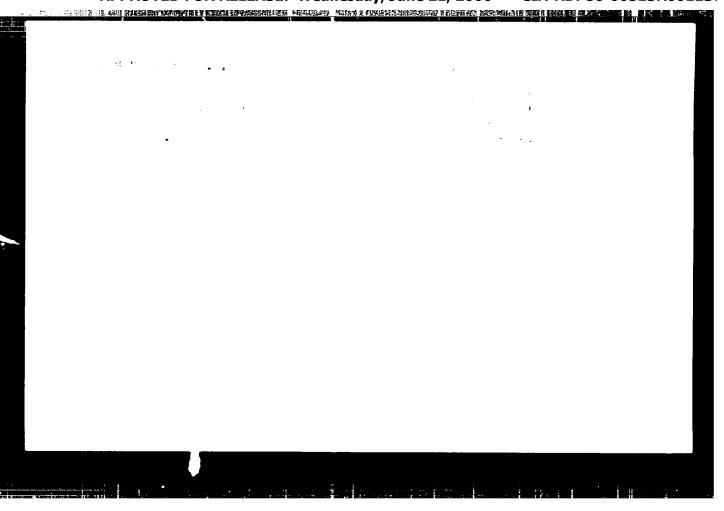
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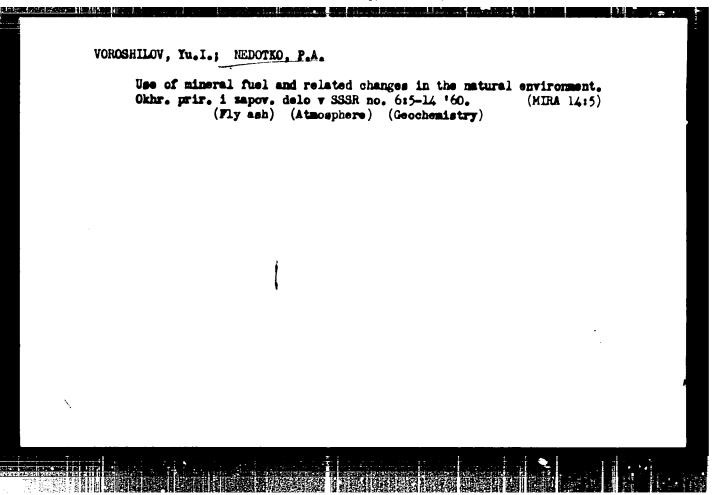
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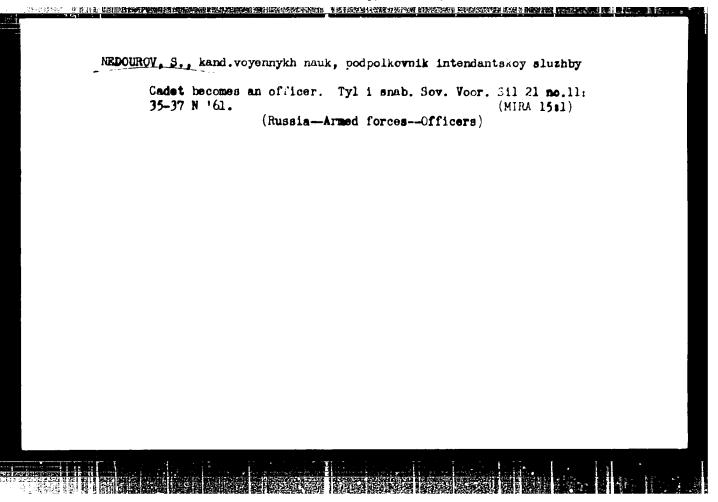
ANTONOV, G.I.; KOSOGOLOV, V.V.; NEDOSVITIY, V.P.; VINOGRADOV, N.I.; KHIL'KO, M.M.; MOLCHANOVA, M.I.

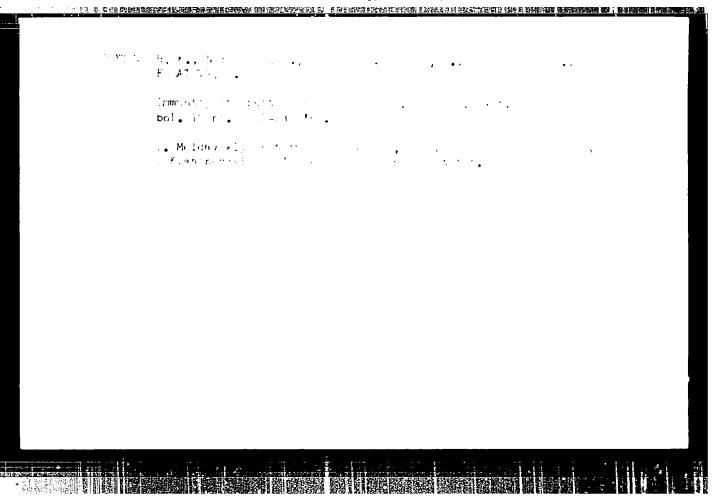
New design of ribbed arches with reinforced supports. Metallurg 9 no.2:18-21 F '64. (MIRA 17:3)

1. Ukrainskiy institut ogneuporov i Makeyevskiy metallurgicneskiy savod.









NEDOVES, P. F.

Nedoves, P. P. -- "Automatic Regulation of Cutting Processes." Min Higher Education USSR, L'vov Polytechnic Inst, L'vov, 1955(Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

S/112/59/000/01/7039/174 A052/A002

Iranslation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 14 p. 173 # 34732

AUTHORS. Rabinovich, A. N., Nedoves, F. P.

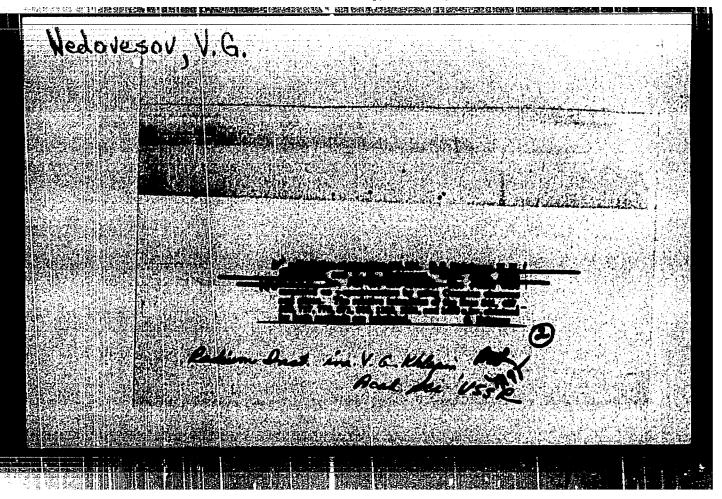
TIPLE Automatic Control of the Cutting Process

PEFIODICAL: Nauchn, zap. L'vovsk, politekhn, in-t, 1958, No. 45, pp. 205-21

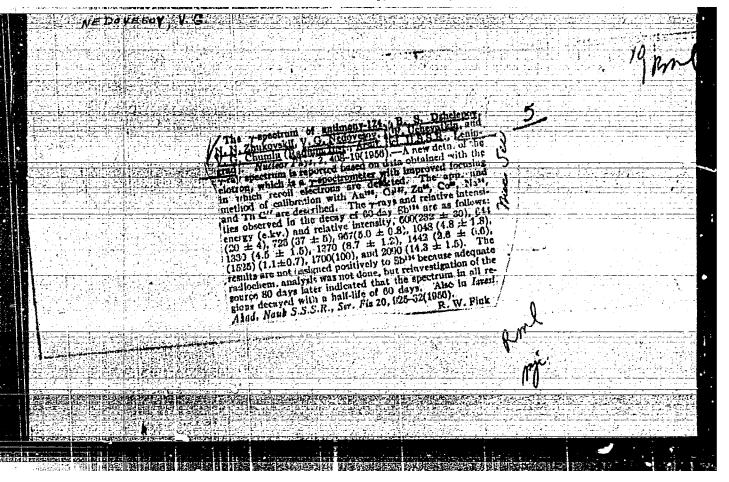
TEXT. Some automatic cutting speed control circuits for lathes are considered. An installation with an electric pickup which provides an automatic cutting speed control at a constant or slightly changing power consumption of the main motor at a given feed rate is investigated in detail. The power pickup consists of a 0.5-class astatic wattmeter with a paddle fixed on it; have in paddle changes the network circuit inductance which determines the present of absence of generation of the double driving oscillator on 16-20 Mc frequency and relays open or close contactors which control the reversible account number electric motor of the servementar. The cutting process under automatic contributions is considered. There are 4 illustrations

Franslator's note. This is the full translation of the original Final Western Card 1/1

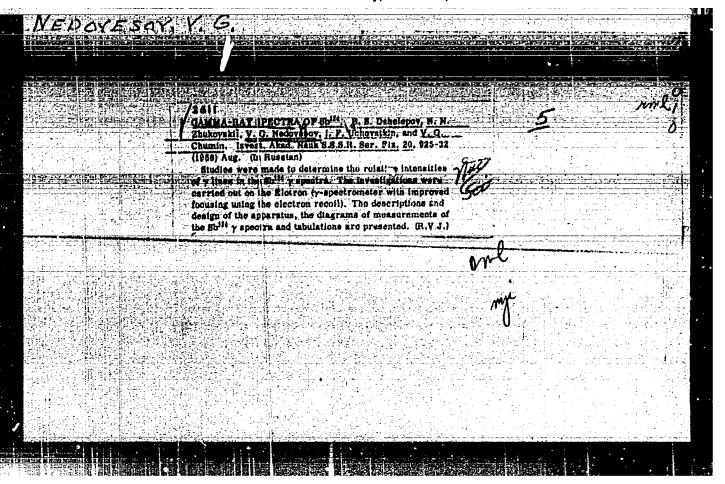
GAL'BINSHTEYN, Z.N., insh.; IL'INA, N.F., insh.; NAUMOVA, M.V., inzh.; FILINA, T.A., insh.; KHODOS, M.M., insh.; GOL'DMAN, Zh.I.; PATALAKH, V.G.; SNESAREV, M.M.; VUL'FSCH, Yo.S., inzh.; KONSTANTÍNOVA, L.A., insh.; SKOBELEVA, A.M., insh.; TEL'NOVA, Ye.V., insh., KHEYFETS, L.S., insh.; SELENEVICH, A.S.; NEDGVESENKO, M.V.; VOLKOVA, A.Ye.; NOVITSKIY, L.M., nauchn.red.; REFEDOV, S.F., red.; HOSTOTSKIY, V.K., red.; GCRDEYEV, P.A., red. izd-va; YUDINA, L.A., red.izd-va; VDUVENKO, L.I., red.izd-va; GOL' HERG, T.M., tekhn.red.; KOROBKOVA, N.I., tekhn. red. [Album of new construction equipment recommended for adoption] Al'bom novoi stroitel'noi tekhniki, rekomenduemoi k vnedreniiu. Moskva, Gosstroiisdat, 1963. No.1.[Industrial construction] Promyshlennoe stroitel'stv. 116 p. No.3. [Construction for tramportation purposes | Transportnoe stroitel'stwo. 91 p. No.4. [Rural construction] Sel'skoe stroitel'stwo. 71 p. No.5. [Building materials, products, and elements | Stroitel'nye materialy, izdeliia i konstruktsii. 41 p. No.8. [Construction and road machinery and equipment] Stroitel'nye i doroshnye mashiny i oborudovanie. (MIRA 16:8) 104 p. (Building materials) (Road machinery) (Construction equipment)



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



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



Neverce, L. C 46-7-8,21 Dzhelepov, B.S., Zhukovskiy, N.N., Nedovesov, V.S., Chorakin, AUTHORS: G.Ye. Y-Radiation of Eu 152,154 (Y-izluchenize Eu 152,154) PIPLE: Izvestige Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7, PERIODICAL: pp. 966 - 972 (USSR) The y-radiation of Eu 152, 154 was investigated by many scient-ABSTRACT: ists, but the complexity of the $\frac{1}{152}$ -spectrum and the great interest shown to the nucleus of Eu $\frac{1}{63}$ induced the authors to repeat the investigation of the y-spectrum of the isotope mix-ture of Eu 2, 24 by means of an improved "electron". The conditions of this work are described. The form of lines and the graduation according to energies are shown on figure 1 and the experimental curve of the spectral sensitivity of the "electron" is shown on figure 2. The experimental curve of the y-spectrum of Eu 122.154 is represented on figure 3. According to the taking into account of the dependence of the form of lines on the energy (figure 1) the y-spectrum, after drawing off the basis, is decomposed into individual components. Figures 4 to 7 record such a decomposition for the sections H. - 1400 to 2250, 2800 to 4000, 1000 to 5000 and 5000 to 6300 Gs. cm. The summary curve Card 1/2

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The Y-Radiation of Eu 152, 154

48-7-8/21

(the sum of the individual components represented by thin lines) on the whole agrees within the statistic limits with the experimental points. The obtained energy—y—lines and their relative intensities are given in table 1 together with the data of other authors. The difference in the intensities in certain domains is to be explained by inexact work of the "electron" under its old working conditions. The last works performed with the source of Eulot brought about a considerable clearing up of the isotope decay of Eulot and Eulot, but it was not yet possible to construct a final scheme of the decay of these isotopes. The values on the relative intensities of the y—lines, which were obtained by the authors, together with the values obtained by other author make it possible to determine the multifields of the y—transitions (table 2). There are 2 tables, 7 figures and 48 references, 6 of which are Slavic.

ASSOCIATION:

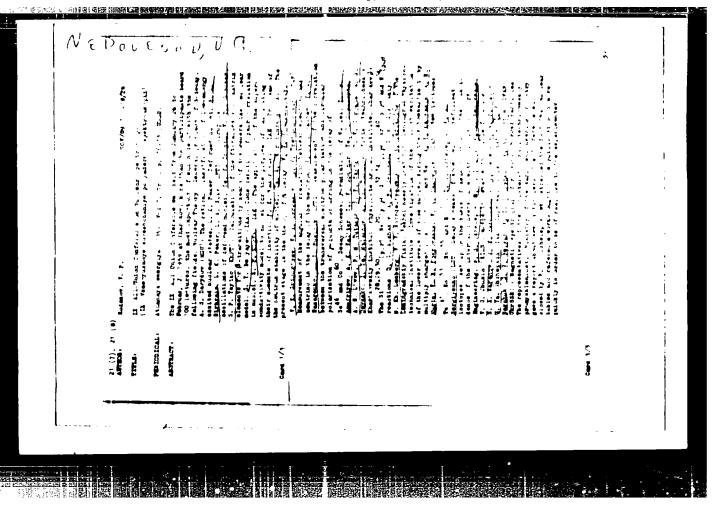
Radium Institute im. V.G. Khlopin, AN USSR (Radiyevyy institut imeni V.G.Khlopina Akademii nauk SSSR)

AVAILABLE:

Library of Congress

Card 2/2

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



7 (4), 7 (5), 21 (9) SOV/48-23-7-1/31 AUTHORS: Dahelepov, B. S., Ivanov, P. B., Nedovesov, V. G., Chumin, V. G. Magnetic & Spectrometer (Magnitnyy & spektrometr) TITLE: Isvestiya Akademii namk SSSR. Seriya fizicheskaya, 1959, PERIODICAL: Vol 25, Nr 7, pp 782-787 (USSR) In the introduction of this paper, it is pointed out that most ABSTRACT: #spectrometers work with inhomogeneous magnetic fields, and that their resolving power is different (half-width of the lines 0.05 to 0.08 %) and their light intensity is low (aperture ratio 0.01 to 0.08 % of 4 %). The purpose of the present paper is to develop an «spectrometer with a randving power of 0.10 % at an aperture ratio of 0.3 % of 4 %. In the first part of the paper, the experimental arrangement (electromagnet with its screening and current supply, evacuation plant, accommodation of the radioactive sources, as well as the geometrical control of the d-ray) is described in detail, and supplemented by figure 1 (pole shoes) and figure 2 (chamber). The second part deals with the measurement of the axial-symmetric magnetic field. The focusing angle is indicated

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with $\pi \sqrt{2}$, and three papers are mentioned showing that

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Magnetic &-Spectrometer

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spectrometers of this type have the most favorable relation between resolution and light intensity. For the axial component, an equation is given in which the coefficient / determines the focusing properties of the field. The influence of the magnitude of \$6 on the width is discussed, and the measurement of the topography of the magnetic field by means of a rotatable coil is dealt with. These measurement results are shown in a diagram (Fig 3). Another diagram shows the topography of the magnetic field in dependence on the position of the screening rings on the pole shees (Fig 4). The «-particles are recorded by thick nuclear photoemulsions. The last part deals with the determination of the characteristic of the spectrometer. It was carried out with a Po 210 -source, and the half-width of the lines amounted to 0.1 %. A variation of the solid angle did not show any influence, and the variation of the half-width of the line caused by a change in width and height of the seurce followed theoretical formulas of a previous paper (Ref 10). A diagram shows the dependence of the resolving power on the aperture ratio of the spectrograph (Fig 5). B. P. Shishin took part in the adjustment and calibration of the instrument. The

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Magnetic &-Spectrometer

SOV/48-23-7-1/31

authors thank the collaborator K. I. Yakovlev for the balling of instrument for the measurement of the magnetic field by the method of proton resonance, D. M. Ziv and V. V. Fedorov for the preparation of the polonium sources, and also A. P. Zhdanov for his help in the preparation of the photoemulsions. There are 5 figures and 10 references, 2 of which are Soviet.

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Card 3/3

注: 1965年 | 1966年 | 19 7(4),7(5),24(7) SOV/48-23-7-2/31 Dshelepov, B. S., Ivanov, R. B., AUTHORS: Medovesov. V. G., Shishin, B. P. The a-Spectrum of U^{233} (a-spektr U^{233}) TITLE: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, PERIODICAL: Vol 23, Hr 7, pp 788-791 (USSR) The introduction mentions a paper by F. Asaro who detected ABSTRACT: three α -groups of π^{233} by means of a magnetic α -spectrometer of the sector type. In the following L. L. Gol'din et al. showed in an exact investigation of the g-spectrum of cated, and it is ascertained that the last three of these lines cannot be calculated by the known formulas for the intensity of the a-transitions. In 1958, the authors carried out investigations of the α -spectrum of \overline{u}^{233} by means of the a-spectrometer described in the first paper of this issue; these investigations permitted a more accurate determination of the intensity of these three weak lines. Electrochemically plated U233 on platinum was used as a source. The measured Card 1/2

The a-Spectrum of \overline{u}^{233}

SOV/48-23-7-2/31

values are compiled in two diagrams (Pigs 1 and 2); tables 1 and 2 compare the values with those obtained by other authors. The results show that if there is an a_4 -line this is very weak. The a_5 -line is formed by a transition to the 316 kev level, and its intensity shows that this is a transition of a single-particle exsited level. The quantum numbers of these transitions are dealt with in detail, and finally a scheme of the decay of \mathbb{U}^{233} and of the levels \mathbb{T}^{229} is given (Pig 3). The authors thank Yu. T. Pusynovich and V. N. Delayev for their help in the measurements, and L. K. Peker for the discussion of the results of their work. There are 3 figures, 2 tables, and 9 references, 6 of which are Soviet.

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Card 2/2

24.6520

S/048/60/024/03/01/019 B006/B014

AUTHORS:

Dahelepov, B. S., Ivanov, R. B., Nedovesov, Y. G., Puzynovich, Yu. T

TITLE:

Alpha Emission of U²³³

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 3, pp. 258-260

TEXT: The article under review was read at the Tenth All-Union Conference on Nuclear Spectroscopy (Moscow, January 19 - 27, 1960). The alpha emission of U²⁷³ was measured in 6 series by means of an α-spectrometer (two different U²³³ sources). A brief description of results is given. The spectral region between 4.7 and 4.8 Mev (first series) is illustrated in Fig. 1, the region between 4.6 and 4.75 Mev (fifth series) in Fig. 2, and that between 4.4 and 4.7 Mev (sixth series) in Fig. 3. In addition to the known lines, transitions at 29, 72, 126, and 195 kev were detected. Besides, a particularly indistinct peak was found at 145 kev intensity ≤ 0.01 per cent). All results are summarized in a table.

Card 1/3

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CIA-RDP86-00513R001136

Alpha Emission of U ²³³			5/048/60/024/04/01/613 BOU6/BO14			
energy of the Th ²²⁹ level	intensity of a-transitions	char the	acteristi Th ²²⁹ leve	cs of	probinition F	
	[*]	K	I	π		
0	83	5/2	5/2	•	1,9	
29*2	0.48±0.08	5/2	5/2	-	200	
	14.6	5/2	7/2	•	5 8	
42.3 72 [*] 2	0.2820.06	5/2	7/2	-	190	
97	1.5	5/2	9/2 9/2	+	24	
126±2	0.08±0.02	5/2	9/2	•	280	
(145±5)	≤ 0.01		7/2	(-)	~. 1700	
163+2	0.06*0.02	5/2	7/2 11/2	•	200	
195±3	0.015±0.05 ≤ 0.004 0.033±0.006 ≤ 0.004	5/2	11/2		500	
(240+5)	€ 0.004	(5/2)	(13/2)	(+) (+) (+)	~1200	
316±2	0.033±0 006	•	(3/2)	(+)	30	
$(364^{\pm}5)$	€ 0.004	-	(5/2)	(+)	130	
The level scheme of the dauthors thank L. L. Gol'd	lecay U ²³³ -Th ²³	29 ₁₈ ovikov	shown in a for sup	Fig. 4	the Util	
					1	Y'
ard 2/3						

Alpha Emission of U²⁵⁵

S/048/60/024/¹²¹

source, L. K. Peker for his discussions, Y. A. Belyakov and V. M. Delayev for their assistance There are 4 figures, 1 table, and 3 references, 2 of which are Soviet

ASSOCIATION: Radiyevyy institut im V G Khlopina Akademii nauk SSSR (Radium Institute imeni V G Khlopina of the Academy of Sciences, USSR)

31767 \$/056/61/041/006/006/054 B108/B138

24.6210

AUTHORS: Dzhelepov, B. S., Ivanov, P. B., Nedovesov, V. G.

TITLE: Alpha-decay of Pu²⁵⁹

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41, no. 6(12), 1961, 1725-1728

TEXT: The authors studied the α-spectrum of Pu²⁵⁹ by means of a double-focusing magnetic α-spectrometer. Besides the wellknown α-lines, lines corresponding to transitions to the levels 104, 198, 224, 299, and possibly 243 kev have been detected. The measurements are given in Table 2. A decay scheme is suggested for Pu²⁵⁹ (Fig. 2). The authors thank L. L. Gol'din, G. I. Novikova, V. A. Belyakov, and V. N. Delayev for their help. There are 2 figures, 2 tables, and 9 references: 5 Soviet and 4 non-Soviet. The three references to English-language publications read as follows: D. Strominger et al. Table of Isotopes, UCRL, 1928, 1958; F. Asaro, I. Perlman. Phys. Rev., 68, 828, 1952; J. O. Newton. Nucl. Phys., 2, 345, 1957; 5, 218, 1958.

Card 1/3

Alpha-decay of Pu²³⁹

3/056/61/041/006/006/054 B108/B138

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of

the Academy of Sciences USSR)

SUBMITTED: June 12, 1961

Legend to Table 2: (1) number of the line, (2) level energy, kev, (3) transition intensity, per cent, (4) forbiddenness factor, (5) transition from Pu²⁴⁰ impurities to the 4⁺ level of U²³⁶, (6) impurity U²³³

»··	Sweprus & yposus, keV	Интенсив- В инсть перехода, %	Козффи циент зипрета	
۹.	1	72	1,7	
e,	13	17	8,1	
3.	51	11	5.7	
3,	84	0,038	950	
2,	104	0,030	1030	
a, 5	переход Ри	на уровень 4*	идра (!sa	
20	150	(0,018	800	
2,	170	0,008	1290	
20	196	0,006	860	
Z.	224	0.008	580	
210	243?	~0.003	~1200	
783	299	0.004	360	
2 _D 6	примесь U		тереход)	
3 ₁₂	424	0.007	30	

Card 2/1

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CIA-RDP86-00513R001136

L0093 5/048/62/026/008/002/028 B102/B108

26 2541

Ivanov, R. B., Krivokhatskiy, A. S., and Nedovesov, V. G. AUTHORS:

TITL:

Measurement of the alpha particle energies of some curium

HER CONTROL OF THE CONTROL OF THE PROPERTY OF THE CONTROL OF THE C

isotopes

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 8, 1962, 976-978

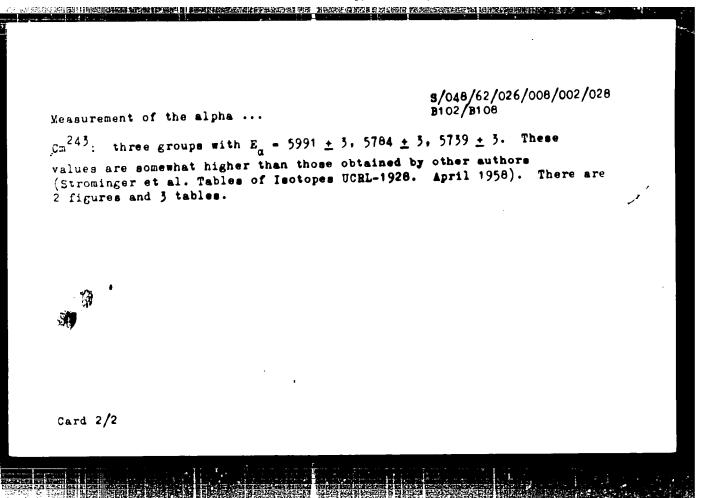
TEXT: The alpha transition energies of Cm 242,245,244 were determined by means of photographic emulsion plates. In four series of measurements the plates were exposed to the Cm alpha particles as well as to a Bi212 source, whose alpha decay energies are known exactly. The magnetic field strength was kept constant with an accuracy of 0.01%. The following mean alphatransition energies (kev) were obtained:

 $E_{\alpha_0} = 6115 \pm 1$

 cm^{244} : $E_{\alpha_0} = 5806 \pm 2$ $E_{\alpha_1} = 5763 \pm 2$

Card 1/2

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



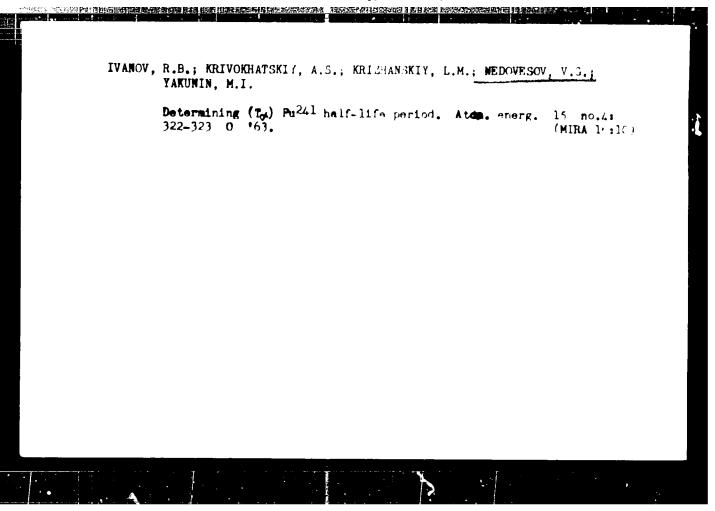
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BELOV, L.M.; DZHELEPOV, B.S.; IVANOV, R.B.; KRIVOKHATSKIY, A.S.;

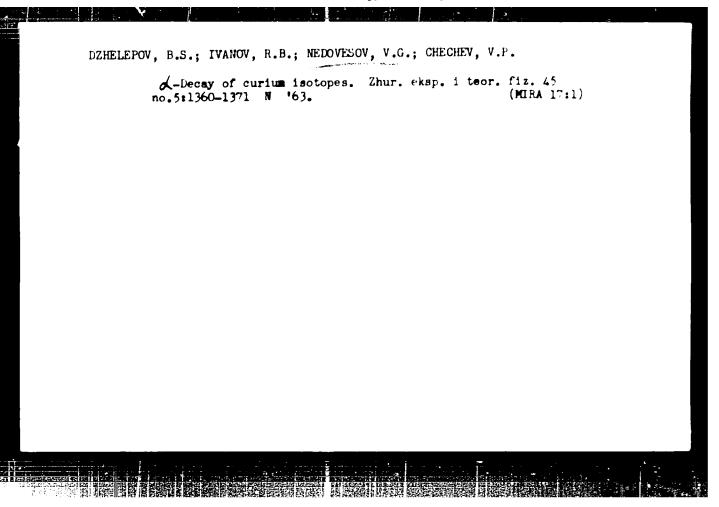
**REDOVESOV, V.C.; CHECHEV, V.P.*

**Decay of Cm<sup>245</sup> and Cm<sup>246</sup>. Radiokhimiia 5 no.3:394-
395 '63.

(Gurium isotopes—Decay)
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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136





BARANOV, f. A.; IVANOV, R. B.; KRIVOKHATSKIY, A. S.; NEDOVESOV, V. G.; SILANT'YEV, A. N.

"Gamma Radiations of Cm²⁴² and Cm²⁴³."

report submitted for All-Union Conf on Nuclear Spectroscopy, Toilisi, 14-22
Feb 64.

Radiyevyy Institut (Radium Inst)

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ACCESSION NR: AP4037560

5/0056/64/046/005/1517/1524

AUTHORS: Dzhelepov, B. S.; Ivanov, R. B.; Nedovesov, V. G.

TITLE: Alpha decay of Pu-241

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1517-1524

TOPIC TAGS: plutonium, Alpha decay, Alpha particle spectroscopy, level transition, decay scheme,

ABSTRACT: The α spectrum of Pu was investigated with a magnetic α spectrometer with beam focusing at an angle $\pi/2$. The measurement procedure was similar to that used for curium earlier (ZhETF v. 45, 1360, 1963). The data obtained on the relative intensities of the α transitions in each plutonium isotope (table 1), together with resolution of some of the lines, yield 3 level schemes for the α decay of Pu and Cm 243 . Several arguments are advanced against one of the

Cord 1/4

ACCESSION NR: AP4037560

levels (level a) and in favor of the other (level b). Orig. art.

has: 3 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 22Jun63

DATE ACQ: 09Jun64

ENCL: 02

SUB CODE: NP

NR REF SOV: 003

OTHER: 010

Card 2/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CI

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ACCESSION NR: AP4037560

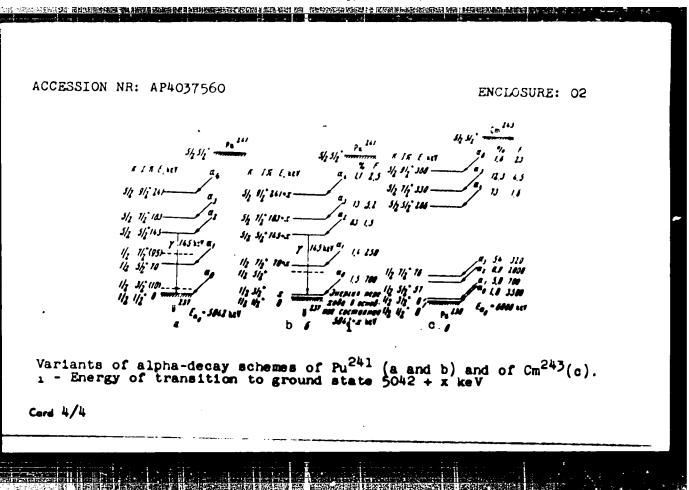
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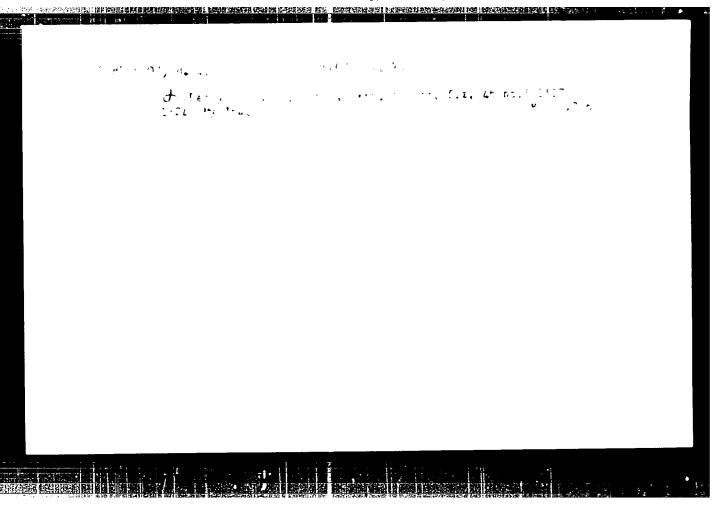
Tabulated experimental results

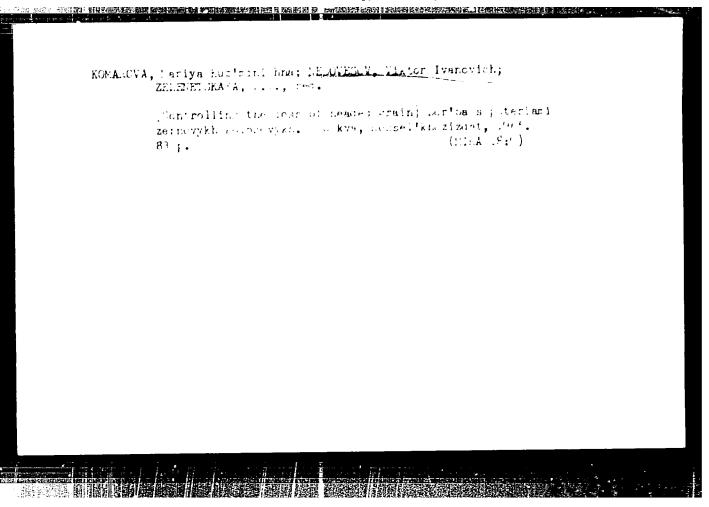
1 мания ж	2 Изотоп плутения могорому привы- сам и пережем	Tabaneme surremen (*.*) 3		с Плин длиные	
		B _q , ke¥	ф относительная оптопси внесть в данном месть яс. %	Sa. teV	ЭТНОСИТЕЛЬНАЯ ВИТЕНСІВНОСТЬ В ДВИНОМ НАОТО ПЕ. "»
	<u> </u>	•			
1	Pumi		1	5012	1
2	L, fig. 16	5020	0,1	5042 ± 4 5020	1.5 ± 0.5
3	Pu≋ı]	4973 + 4	0.1
4	Pulsas	4898	76	4904 + 3	1.4±0.3
5	թուս	4893	75	4800 ± 4	75 ± 2
6 (huser	4848	25		83±8
7	I.nasa	4853	24	4862 ± 4	13±3
8 ;	Pusei		l ••• .	4859 ± 3	25 ± 2
[1	4805 ± 4	1.1±0,3

1 - line number, 2 - isotope to which the alpha transition is assigned, 3 - tabulated values, 4 - relative intensity in the given isotope, per cent, 5 - our data

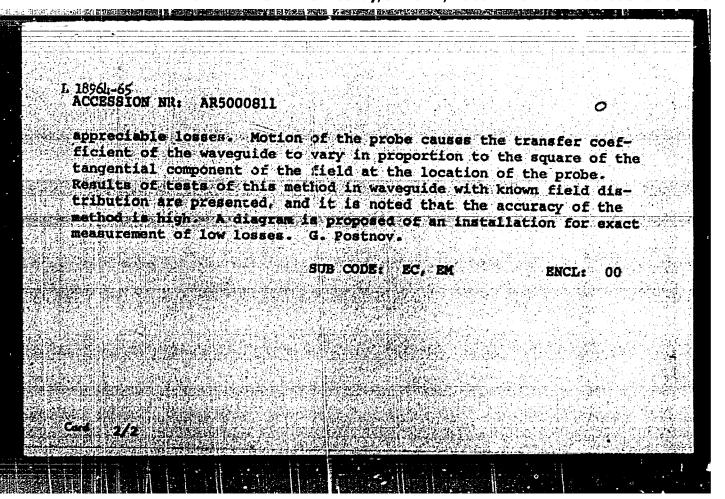
Card 3/4

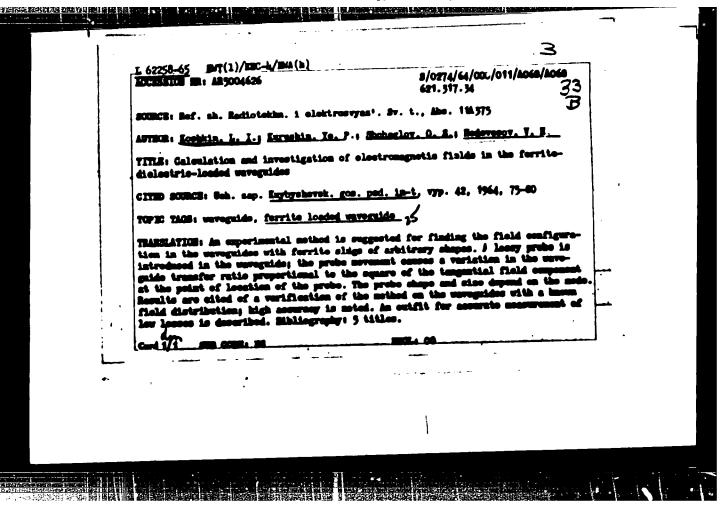






EWT(d)/EWT(1)/EPA(s)-2/EEC(k)-2/EEC-L/EEC(t)/EEC(b)-2/EWA(h) Pq-li/Pg-li/Pt-10/Fk-li/Pt-li/Peb IJP(c)/SSD/RFETR/HAEM(a)/AS(mp)-2/AFWL/ASD(a)-5/ AEDC(b)/RAEM(c)/ESD(gs)/ESD(t) ACCESSION NR: ARSO00811 8/0058/64/000/010/H033/H033 SOURCE: Ref. zh. Fizika. Abs. 10zh229 AUTHORS: Koshkin, L. I., Kurushin, Ye. P., Shcheglov, O. S., Nedovesov, V. N. TITLE: Contribution to the calculation and investigation of electromagnetic fields in waveguides with ferrodielectric inserts CITED SOURCE: Uch. zap. Kuybyshevsk. gos. ped. in-t., vyp. 42, 1964, 75-80 TOPIC TACS: ferrodielectric, ferrite insert, waveguide measurement, electromagnetic field, electric loss M TRANSLATION: An experimental method is proposed for finding the field configuration in waveguides with ferrite inserts of arbitrary form. It consists of introducing into the waveguide a probe with Card 1/2





30V/ 49-58-12-6/17

AUTHORS: Kondrat'yev, K. Ya. and Nedovesova L. I.

TITLE: Of the Thermal Radiation of Carbon Dioxide in the Atmosphere (O teplovom izluchenii uglekislogo gaza v atmosfere)

PERIODICAL: Izvestiya akademii nauk SSSR, Seriya geofizicheskaya 1958, Nr 12, pp 1470-1476 (USSR)

ABSTRACT: It was noticed that the carbon dioxide gas shows the intensive absorption band in the infra red end of the spectrum and therefore the thermal radiation of this gas represents a significant factor in the general radiation of the atmosphere. The purpose of this work is to determine the transmission function of the atmosphere at the 15 μ band of the spectrum and to apply this function for the determination of the relationship of the thermal radiation of the carbon dioxide and its concentration. The band 15 μ is the only one which takes a part in transfer of thermal radiation. The determination methods of the absorption in this band were investigated by various authors; some of the results are given in Fig.1, where the relation of the absorption to the quantity of CO₂ is shown. A function (1) can be derived for

Card 1/3

30**V**/ 49-58-17-6/17

On the Thermal Radiation of Carbon Dioxide in the Atmosphere these results. However, the formula (2) could be applied in the general case, where (P_J) and (P_F) are the transmission functions for the direct and diffuse radiation respectively (6 - angle of zenith). It is possible to determine the value P_{μ} for every u but the author considers that a better method could be applied based on Eq.(3) where the diffusion coefficient β could be considered as equal to 1.80 for the large values of u. For the small u (ranging from 10^{-2} to 10^{-3} cm), the value of β becomes variable. Therefore the calculations could be based on Eq.(2) for the exact value of $P_{\mathbf{F}}$. and on Eq.(3) for its intermediate values. The result of the calculation is shown in Table 1 Eq.(4) can be applied for the calculation of the coefficient of absorption of water vapour in the band of the spectrum 12 + 18 μ (Ref 7). In order to deduce the coefficient for the CO₂, the relationship (5) can be applied. Thus the transmission function for the mixture of ${\rm CO}_2$ and ${\rm h}_2{\rm C}$ in the band 15 µ can be found (an example is shown in Table 1) values of u . related to both gases can be determined Card 2/3 from the formulas (6) and (7). It can be estimated that the

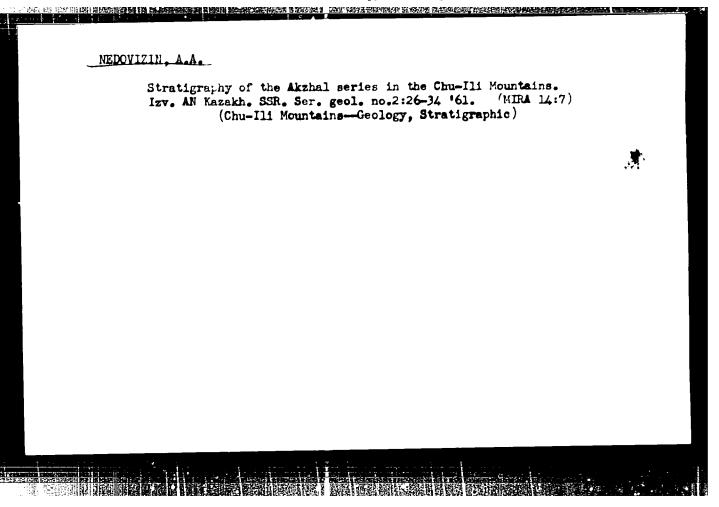
307/ 49 - 58 - 12 - 6/10

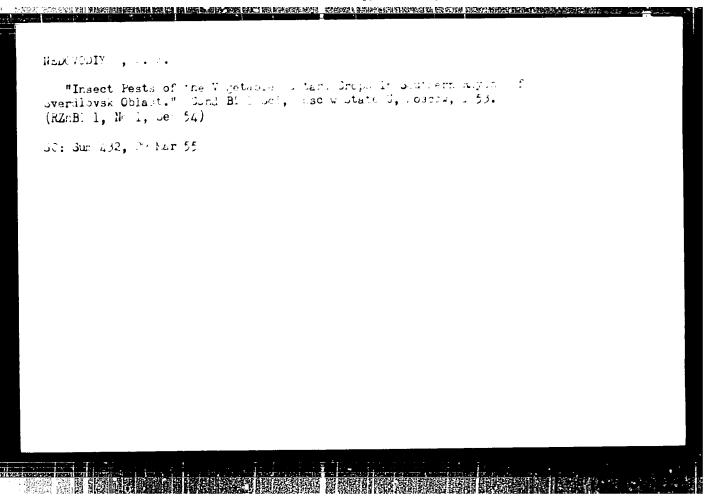
On the Thermal Radiation of Caroon Dioxide in the Atmosphere coefficient defining the percentage of the thermal radiation of for the 15 μ band of the spectrum is equal to F_{j} =0.264. Therefore the total thermal radiation of the atmosphere for this band can be calculated. The results of this calculation are shown in Table 2 for 2 stratifications. I - near the earth surface and, II - free atmosphere. There are h^{*} tables 1 figure and 7 references; 3 of the references are doviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A A Zhdanova (Leningrad State University. im. A. A. Zhdanov)

SUBMITTED: October 18, 1957.

Card 3/3





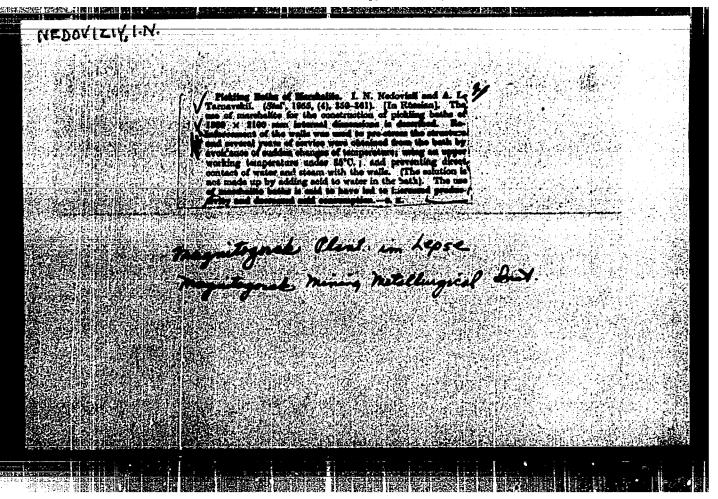
UEDOVIZIY, I.N.; BASS, A.I., redaktor; STAROMURTSEVA, S.E., redaktor;

WILHITOVA, V.V., teknnicheekiy redaktor

[Rapid drawing of low-carbon steel wire] Skorostnoe volochenie niskouglerodistoi stal'noi provoloki, Noskva, Gos. nauchno-teknn. isd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954, 198 p.

(Wire)

(Wire)



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

16 6 12 12 1 1 1 A

AUTHOR: Nedoviziy, I.N., Engineer.

134-4-20/23

TITIE: Slott & Screens for Ore Beneficiation (Shonelevi inyye sita

dlya Logashcheniya rud)

PERIODICAL: Stal', 1957, No.9, pp. 850 - 854 (USSR)

ABSTRACT:. The design of slotted sieves and the choice of dimensions of working rods are discussed and the technology of their production is described. It is concluded that due to a large sieving area and high strength, as well as lack of tendency to blocking and a large wear tolerance, slotted sieves possess many operational advantages: large throughput, long service life and minimum losses of beneficiation products into slurries. The existing design and materials of construction of the sieves are not considered to be rational; stamped rods should be replaced by rolled ones and brass by carbon steel with increased anticorrosive properties or stainless steel. There are 2 tables and 5 figures.

ASSOCIATION: Scientific Research Institute of the Wire Industry.

(N.-I Institut Metiznoy Promyshlennosti)

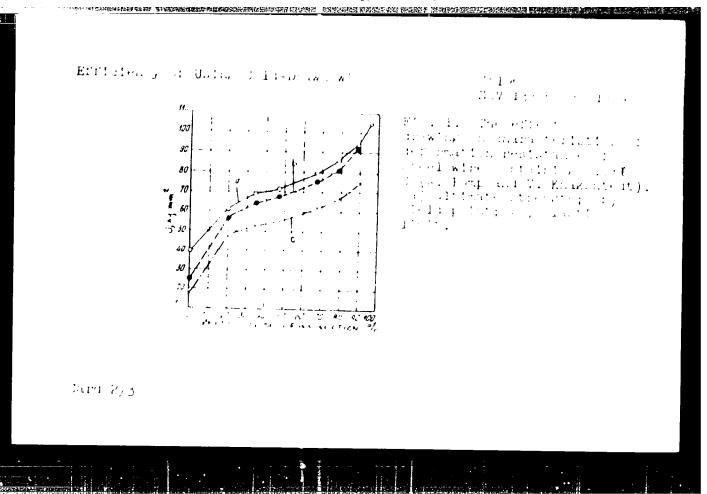
AVAILABLE: Library of Congress.

Card 1/1

PERIODICAL:

ARSTRACT:

The constitution of th



Efficiency of Using Suli-Snow: Wise

drawing, and results in 55-50% economy of metal.

(4) The cost of one linear meter of 4-mm diameter finished wire is 50% lower than 1 meter of 6.5-mm diameter rolled rod. There are 4 figures.

ASSOCIATION: Scientific Research Institute of Hardware Industry (Nauchno-isaledovateliskiy institut metiznoy promyshieunosti)

Card 3/3

11350

162/000/106/083/163

AUTHOR:

Nedoviziy, I. N.

TITLE:

Experiments on dign-speed (really of Steel View

PERIODICAL: Referativnyy zmarnal, Metal anglys, nonon the contract of the ("Tr. Konfedentsii po metizm. , miz v. , . Telyablinsk, lel.

28 - 36)

TEXT: The drawing of thin , we aroon wire at special for, is not only possible but also lemirable, in order to in rease the offillies of f rawing mills and to cut the power consumption. The measurement is the imaplate temperature by the electric inalogy methor is more reliable and a curito than the methods applied previously. The application of Hamond traw plates when brawing 0.2 - 1.5 mm wire at high speeds (ser , pro world) is effit tent an. can be recommended for industrial ase.

B. Yaiina

[Abstracter's note: Complete translation]

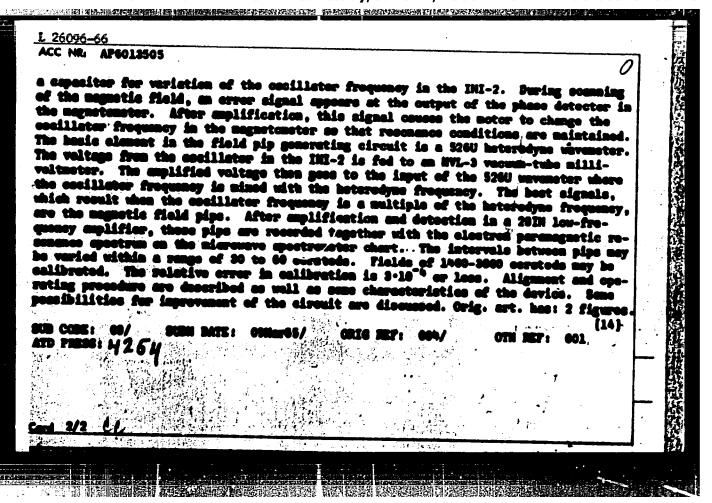
Taru 1/.

NEDOVIZIY, I.M., inzh.; GEL'FAND, I.M., inzh.; Al'TER, V.F., inzh.

Using an electric model for temperature determination in the center of defermation during drawing. Stal' 21 no.6:567-570
Je '61. (MIRA 14:5)

1. Mauchno-issledovatel'skiy institut metiznoy promyshlennosti. (Drawing (Metalwork)—Electromechanical analogies)

1-26096-66 EEC(k)-2/EWA(h		
AUTHOR: Bukin, T. T., Year	SOURCE COSE: UR/0120/00/000/002/0093/009	
Colored Colored	they, V. J.; Habainey, V. Le; Bademaliney, S. V.	6
	al Institute (Loningrodekly politekimishookly institut)	3
on e _{th} contains the entire term of the entire t	ie field calibrator for electron paramagnetic resonance	
SOURCE: Pribery i takhaika	eksperimenta, no. 2, 1986, 93-95	
TOPIC TASS: EPR spectremete	er, microneve spectroscopy, magnetemeter, phase distoctor	
ventages of the circuit is to are evaluable in charistry a recemence received. The devolutional interesting 2. a circuit for a cotion is a standard INI-2 detector of the aspectmenter values from the smalldies of	on for an <u>instrument</u> which extenstically calibrates the paramagnetic reseases spectrometers. One of the main that it may be assembled from standard components which and physics laboratories engaged in electron paramagnetic ice is conditionally divided into two functional units: y tracking the change in the magnetic field of the spectomerating the field pips. The basic element in the first magnetometer. The nuclear resonance signal from the pix is fed to the input of a UE-119 amplifier. The output is the supply for a reversible RB-09 motor with a 1/15.65 and is connected through a clutch to the versior shift is	*
S-4 Vi	USC: \$29.20.078	



2000年12月1日以後出版的**建設的 新古江南西的**西部市的海岸的沿岸等等的市场区域。初度以及近岸的 化多次流流电影的 1910年的经济的 的复数加速的 1910年的

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SOURCE CODE: UR/3175/65/000/026/0026/0028

AUTHOR: Medovodivey, G. P.; Prablov, V. M.

ORG: none

TITLE: Conditions for maximum sensitivity of a magnetometer based on optical orien-

SOURCE: UESR. Granderstvenny medicalcheskiy komitet. Osoboye konstruktorskoye byuro. Geofisicheskaya apparatura, no. 26, 1965, 26-28

TOPIC TAGS: magnetometer, optic property, Zeeman effect, magnetic field measurement,

ABSTRACT: Magnetometers are presently being developed which are based on optical orientation of stone. Magnetic resonance in the instruments, which takes place with coincidence between the frequency of the rf field and that of Zeeman transitions in the atoms, is detected from the variation in the intensity of light passing from the spectral tube through an absorption cell filled with alkali metal vapor. Formulas are given for the time characteristics of the signal at the photodetector in this type of an instrument. A formule is derived for the first harmonic

Card 1/2