SHASTIN, R.N.; KUCHERYAVYY, F.Kh.; KRANTIKOVA, T.V.

Activity of false and true cholinesterase in irradiated animals.

Med.rad. 5 no.7188-89 160. (MIRA 13:12)

(RADIATION SICKNESS) (CHOLINESTERASE)

KUCHERYAVYY, F.Kh.; IL'INA, T.B. (Loningrad)

Nonspecific phagocyte activity in experimental bone tuberculosis following the use of pyrogens and streptomycin. Pat.fiziol. i eksp. terap. 7 no.2163-67 Mr-Ap'63. (MIRA 16:10)

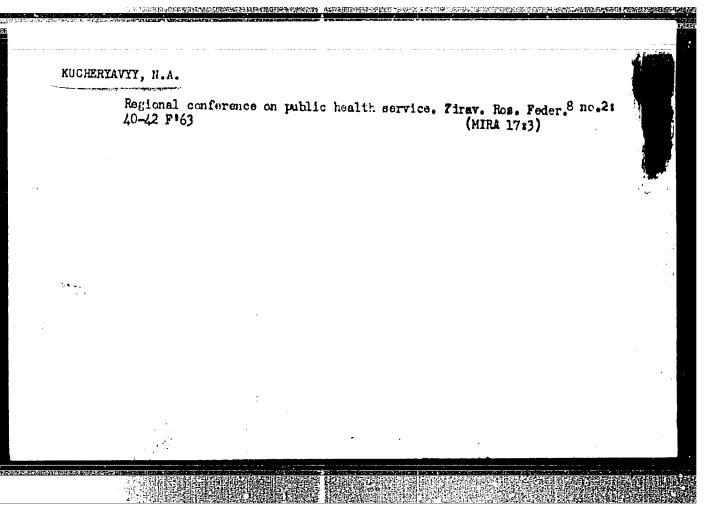
1. Iz laboratorii eksperimental'noy patologii i terapii (rukovoditel' - kand.med.nauk F.Kh.Kucheryavyy) Loningradskogo instituta khirurgicheskogo tuberkuleza.

(BONES-TUHERCULOSIS) (PHACOCYTOSIS)

(PYROGENS) (STREPTOMYCIN)

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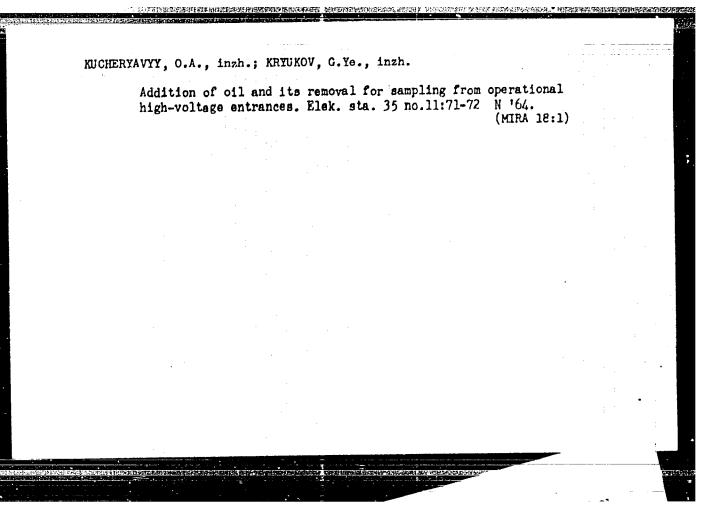
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KUCHERYAVYY, O.A., inzh.

Experience in the operation of TV2-150-2 turbogenerators. Elek. sta.
35 no.8:78-80 Ag '64. (MIRA 17:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110008-4"



"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827110008-4

s/123/62/000/013/014/021 A004/A101 Kostetskiy, B. I., Kucheryavyy, O. I., Kuyun, A. I. Structure and properties of the surface in steel grinding Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 99, abstract
"Kachestvo Doverkhnosti detaley mashin."
13B620 (In collection: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 99, abstr.
"Kachestvo poverkinosti detaley mashin.
"Kachestvo poverkinosti detaley mashin."
"Kachestvo poverkinosti"
"Kachestvo poverk The authors present the results of measuring the temperature de-surface orinding specimens from heat-treated y 8 (U8) grade at a The authors present the results of measuring the temperature described at a surface grinding. Specimens from heat-treated (EPH6SMZK) wheel at a veloping in surface grinding was carried out with a 35 46CM2K (EPH6SMZK) wheel at a were tested. veloping in surface grinding. Specimens from heat-treated (FPH6SMZK) wheel at a specimens from heat-treated (FPH6SMZK) where tested out amounted to 0.1 out amounted to 0.1 out a specimens from heat-treated (FPH6SMZK) where tested out amounted to 0.1 out amounted to 0.1 out amounted to 0.1 out a specimens from heat-treated (FPH6SMZK) where tested out amounted to 0.1 out amounted to 0.1 out a specimens from heat-treated (FPH6SMZK) where tested out a specimens from heat-treated (FPH6SMZK) which is a specimens from heat-treated (FPH6SMZK) which AUTHORS: were tested. Grinding was carried out with a 35 46CM2K (EPH6SMCK) wheel at a o.12 mm per pass and the speed of 23 m/sec; 47 m/min. The temperature was determined with a scopel will speed of 23 m/sec; 47 m/min. The temperature of the test specimen, a combination of the test specimen, a combination of the test specimen. The temperature was determined with a specimen, a combination of the test specimen. TITLE: Workpiece speed was 47 m/min. The temperature was determined with a steel workpiece speed was 47 m/min. The temperature of the test specimen, and a layer of electrically thermocouple, representing a combination of the specimen, and a layer of electrically thermocouple, representing a hole of the specimen, and a layer of electrically the copie thermocouple, representing a hole of the specimen, and a layer of electrically the copie thermocouple, representing a hole of the specimen, and a layer of electrically the copie thermocouple, representing a hole of the specimen, and a layer of electrically the copie thermocouple, representing a hole of the specimen, and a layer of electrically the copie thermocouple, representing a hole of the specimen, and a layer of electrically the copie thermocouple, representing a hole of the specimen, and a layer of electrically the copie thermocouple, representing a hole of the specimen. PERIODICAL: Copel thermocouple, representing a combination of the test specimen, a combination of the test specimen, and a layer of electrically and a layer at a point loos of the specimen, and a layer at a point loos of the specimen, and layer at a point changes a combination of the serinding temperature and the changes of the surface layer showed that a white cated 20 - 30 μ from the surface reaches of the surface layer showed in the structure and microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed in the structure and microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from microhardness of the surface layer showed that a cated 20 - 30 μ from mi cated 20 - 30 μ from the surface reaches of the surface layer showed that a white in the structure and microhardness of the card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R00082/110008-

Structure and properties of ...

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streak of 20 - 30 μ thickness is located on the specimen surface whose hardness attains 900 - 950 kg/mm², at a depth of 30 - 450 μ is a zone of tempered metal, while at a distance from the surface of 500 μ and more the initial structure of the hardened steel is to be found. The origination of a high contact temperature causes the formation of tensile stresses in the surface layers of the machined part. If these stresses exceed the strength limit, cracks appear on the ground surface. If the cracks are regularly arranged perpendicular to the direction of motion during grinding, their main cause is a low quality of grinding technology. If the cracks are arranged in the form of a netting, reminding of crystal boundaries, they are caused by deficiencies in the heat and chemicalthermal treatment. There are 7 figures and 20 references.

I. Brozgol'

Abstracter's note: Complete translation

TO PERSONAL PROPERTY OF THE PERSONAL PROPERTY

KUCHERYAVYY, P.P.

Normal annual runoff in rivers of the Northern Caucasus. Sbor. rab. po gidrol. no.2:103-114 '61. (MIRA 15:2)

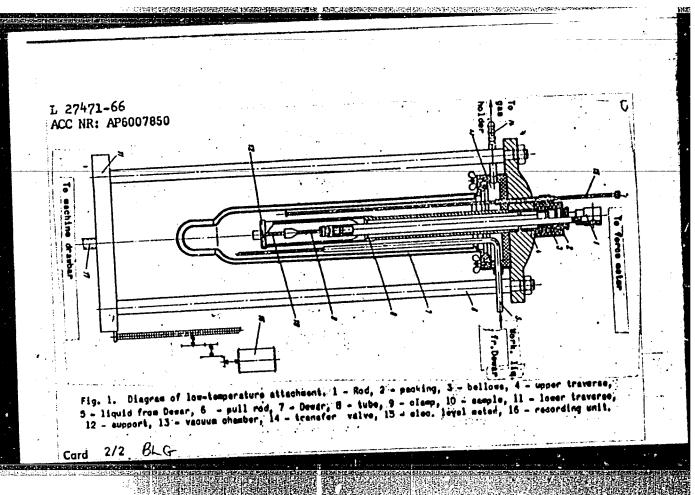
1. Severo-Kavkazskoye upravleniye gidrometeorologicheskoy sluzhby. (Caucasus, Northern—Runoff)

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T 56471-65 ACCESSION ME: APSOUS 802 noticed in a total cross section of neutron interaction calculated for is continue concrete. The results of measuring spectral beuteon dis-The speed to obtain data required for more views of calculan or sparsed distribution of neutrops on the schooling, with eatrass, the shielding fluora turn till and scripentine warfgated are somewhat better than trass is imposite conrespect to gamma-rays, they are the same. Three the chemand the concrete changes only at temperatures over the secremended as biological shielding to be lear tower temperatures up to 450(. Trig. art. has a tables and : A V] ASSOCIATION: none ENCL: 00 SUB CODE: NP AT SUBMITTED: 21Feb.4 ATD PRESS: 3189 OTHER: 001 NO PER SOVE 012 Card 2/2

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L 27471-66 EWT(d)/EWT(1)/EWP(v)/EWP(k)/EWP(h)/EWP(1)/ETC(m)-6ACC NR: AP6007850 SOURCE CODE: UR/0120/66/000/001/0228/0229 AUTHORS: Zinov yev, M. V.; Iliichev, V. Ya.; Kucheryavyy, V. Pustovalov, V. V. Physicotechnical Institute of Low Temperatures AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR) Low temperature attachment for standard testing machines TITLE: SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 228-229 TOPIC TAGS: metallurgic testing machine, low temperature research ABSTRACT: The authors describe the construction of a low temperature attachment for standard materials testing machines, intended for deformation of metals and nonmetals at temperatures down to 4.2K. Special features of the attachment (Fig. 1) are a multi-position clamp to test flat or round metallic and nonmetallic samples, and a cryostat in which the cooling liquid can be stored either in a metallic or a glass Dewar The multi-position clamp makes it possible to automatically insert the next successive sample for testing during the idle stroke of the testing machine. The authors thank V. I. Startsov for interest in the work. Orig. art. has: 2 figures. SUB CODE: 13, 14/ SUBM DATE: 16Dec64/ ORIG REF: 001/ OTH REF: 001 Card UDC: 536.483:620.1.05



so7/76-30-7-9/45

AUTHORS:

Rabinovich, I. B., Kucheryavyy, V. I., Mikolayev, P. M.

TITLE:

The Effect of the Substitution of Hydrogen by Leuterium on the Ultrasonic Velocity, the Refraction and the Viscosity of Benzene (Vliyaniye nameshcheniya vodoroda depteriyem na skorost' ul'trazvuka, refraktsiya i vyazkost' benuola)

FERIODICAL:

Zhurnel fizicheskoy khimii, 1958, Vol. 32, Er 7, pp.1499-1505

(ussa)

ABSTRACT:

The above-mentioned properties were investigated for a deuterium content of 0: 50 and 91 atom % within the temperature interval from 30-60°C. The viscosity of the deuterium benzene had already been investigated by Dixon and Schiessler (Ref 6), however, only at three temperatures. From the experimental part it may be seen that the deuterium products were obtained from benzene and deuterium sulfuric acid, the latter being produced from SO₂ and heavy water. The deuterium content was determined according to the data supplied by Klit and Langseth (Ref 9) from the density, while the sound velocity was determined according to the method of light diffraction.

Card 1/4

007/76-32-7-9/45

The Effect of the Substitution of Hydrogen by Deuterium on the Ultrasonic Yelocity, the Refraction and the Visconity of Benzene

The data obtained differ from these obtained by Colling and Raffel (Ref 1). The visconimeter used is similar to that developed by A. Z. Goli's and S. D. Havikovien (Ref. 11) the flowing-out lasting at least 400 seconds, and the viscosity of the deuterium benzene having been measured relatively to that of benzene. Density was determined in a pycnometer, whereas the index of light refraction run measured by means of a refractometer of the type IRF-27 (rulfrich type). In relation to the equation of Schutters (def 15) for the ultrasonic velocity based on that of van der Faal, it is assumed that ultraspnic velocities in benzene and its deuterium homologs must be inversely proportional to the magnitudes of the square roots of the molecular meights. In the papers written by Kincold and Eyring (Ref 2) it was shown that the sound velocity in liquids is directly related to the "free volumes". From the equation given by those authors the authors of this paper obtained a 5 % enlargement of the free volume in the case of a 50 % substitution of the hydrogen by deuterium in benzene, and one of 9 % with 91 % deuterium; this corresponds to the data obtained in the isotopic effect in compressibility.

Card 2/4

507/76-32-7-9/45

The Effect of the Substitution of Hydrogen by Deuterium on the Ultrasonic Velocity, the Refraction and the Viscosity of Benzene

In connection with this it was found that a substitution in benzene of 91 % hydrogen by deuterium decreases the refraction index to 2.10-3 and the polarizability to 0.52 %. As the zero energy of the C-D bond is smaller than that of the C-II bond a D -> II substitution causes an increase of the energy difference between the respective excited and the basic electron level; this fact is explained by observations made by Burton et al. (Ref 15 and is proved by experimental data obtained by Ingold and Wilson (Ref 20). Proceeding from the equation according to Slater and Kirkwood (Ref 21) it is found that a 91 % hydrogen substitution by deuterium causes a decrease of the dispersion energy to 0,4 %; on the other hand it is found according to the data supplied by Wilkinson (Ref 23) that the equations according to London (Ref 24) as well as those according to Slater and Kirkwood (Ref 21) supply similar values for the isotopic effect in the dispersion energy. The observed effects described were explained by the increase in atomic dimensions and by the de-

Card 3/4

SOV/76-32-7-9/45

The Effect of the Substitution of Hydrogen by Deuterium on the Ultrasonic Velocity, the Refraction and the Viscosity of Benzene

> crease of the zero energy of the abmic bonds dependent on it. Since the dispersion energy becomes smaller in the hydrogendeuterium substitution also a decrease of the heat of vapor formation is expected which seems to be proved according to data supplied by Davis and Schiessler (Ref 14) although those data are doubtful. In the case of a 91 % substitution of benzene by deuterium an increase of the viscosity from 4,8 to 5,5 % rus observed, and correspondingly less in the case of a 50 % substituted one; also an increase of the vapor pressure at CoD by 2,5 - 2 % to that of CoH was found. Finally the authors thank A. I. Brodskiy. There are 1 figure, 2 tables, and 24 references, 5 of which are Soviet.

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet im. N.I.Lobachevskogo (Cor'kiy State University imeni N.I. Lobachevskiy)

> 1. Benzene--Properties 2. Benzene--Analysis: . 3. Deuterium --Determination 4. Deuterium---Properties 5. Sound---Velocity

Card 4/4

S/080/60/033/008/021/022/XX D213/D305

AUTHORS:

Gol'dberg, N.A., Kucheryavyy, V.I.

TITLE:

Some physico-chemical properties of hexamethylene

diisocvanate

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 8, 1960,

1912 - 1913

TEXT: The authors determine the density, viscosity, saturated vapor pressure and refractive index of hexamethylene dissocyanate. For experimental purposes, technically pure hexamethylene diisocyanate was fraction-ed under vacuum using a 12 mm diameter column packed with Fenske rings; the total height of packing was 1.2 m, During distillation the fraction b. pt. 130°C at 12 mm Hg was collected. The content of hexamethylene diisocyanate was determined according to the VMU No. 13 - X - 05 - 58 method and was found to be 99.8 % \pm 0.5 % Determinations of density, viscosity and saturable 99.8 % \pm 0.5 % Determinations ted vapor pressure were carried out by earlier used methods. [Ab-

Card 1/3

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stractor's note: Not mentioned) The refracting index dependence on the was determined using an light was determined better the wave-length of the Pulfrich type at represented in tabula refractionster of the and temperature is represented. Some physico-chemical properties ... S/080/60/0 D213/D305 23 refractioneter of the Pulfrich type at 20°C The relation tabula alwaen density and temperature temperature relation of the pulfrich type at is represented in tabula alwaen density and temperature temperature relation of wavelength of viscosity vapor pressure-temperature index wavelength ted form ted form ted form represented together with the refractive index. ted form The Gaturation vapor pressure-temperature wavelength of index wavelengt 130
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so represented together with the refractive index of cal/g mol. and the comparison found to be 13,800 cal/g mol. and the comparison incident light relation, found 13,100 cal/g mol. and the comparison labor was calculated and Evap 2,950 cal/g mol. and the comparison energy of viscous flow Evis energy of viscous flow Evis energy of viscous flow Evis $\frac{E_{\text{Vap}}}{F.}$ = 4.4. On the basis of the theory

of viscosity submitted by Eyring and coworkers, it may be assumed that hexame thylene dissocyanate is an associated 12. of these two values gives Evisc

of refractive indices fall on a straight line on (n)

Card 2/3

RABINCVICH, I.B. (Gor'kyi); Pri uchastii: GOLOV, V.G.; NIKCLAYEV, P.N.; VGLOKHCVA, Z.V.; KUCHERYAVYY, V.I.

Effect of substituting deuterium for hydrogen on the velocity of sound and the compressibility of liquids. Zhur. fiz. khim. 34 no.2:423-431 F '60. (MIRA 14:7)

CIA-RDP86-00513R000827110008-4 "APPROVED FOR RELEASE: 06/19/2000 THE PROPERTY OF THE PROPERTY O

5/076/60/034/010/006/022 B015/B064

Rabinovich, I. B., Lobashov, A. A., and Kucheryavyy, V. AUTHORS:

The Negative Isotopic Effect in the Viscosity of the

Deuterium Compounds TITLE:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 10. PERIODICAL:

pp. 2202-2204

TEXT: An exchange of hydrogen by deuterium leads, in the case of nonassociated liquids, to a change of the molecular weight and the energy of the intermolecular interaction. An increase of the two last-mentioned values leads to an increase of the viscosity of the liquid Rabinovich et al, showed that in the range of medium temperatures. an increase in the molecular weight in the substitution of hydrogen by deuterium is accompanied by a reduction of the intermolecular dispersion energy (Refs 2-4), i.e., that an increase, but also a decrease in viscosity may occur due to the isotopic exchange in dependence on the fact whether the increase in molecular weight, or the change of energy of the inter-

Card 1/2

The Negative Isotopic Effect in the Viscosity of the Deuterium Compounds

5/076/60/034/010/006/022 B015/B064

molecular interaction has a greater effect upon the viscosity. The investigations hitherto conducted (Ref. 5) always led to an increase in viscosity in the isotopic exchange. The present paper shows that isotopic exchange may also bring about a decrease in viscosity. In chloroform and tetrabromo methane the hydrogen was exchanged for deuterium and an increase in viscosity was found, i.e., in contrast to the cases hitherto investigated a negative isotopic effect was observed. The decrease in viscosity amounted to approximately 1% in both substances, which is five times the error of measurement, and may thus be regarded as a reliable result. Thus, it was clearly proven by experiment that an increase in molecular weight due to the exchange of a light isotope for a heavy one may affect an increase, but also a decrease in viscosity. Finally, the author thanks A. I. Brodskiy, Corresponding Member of the AS USSR and Professor A. Z. Golik for discussing the results. There are 2 tables and 8 references: 7 Soviet and 1 US.

ASSOCIATION:

Gor kovskiy gosudarstvennyy universitet im N.I Lobachevskogo

(Gor'kiy State University imeni N. I. Locachevskiy)

SUBMITTED:

December 6, 1958

Card 2/2

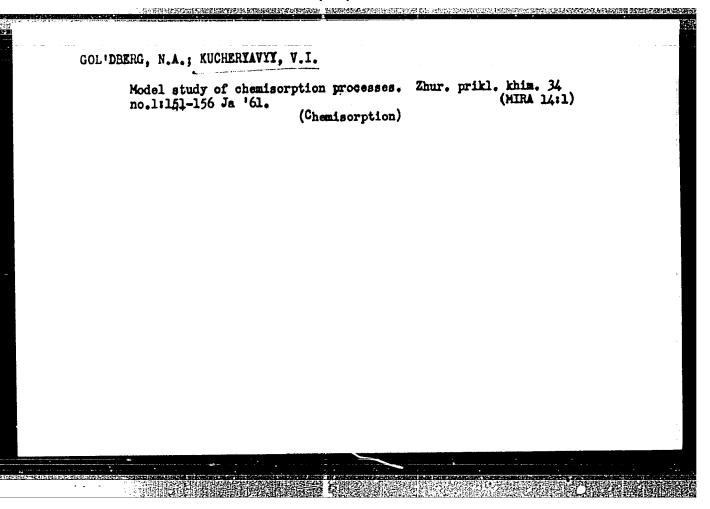
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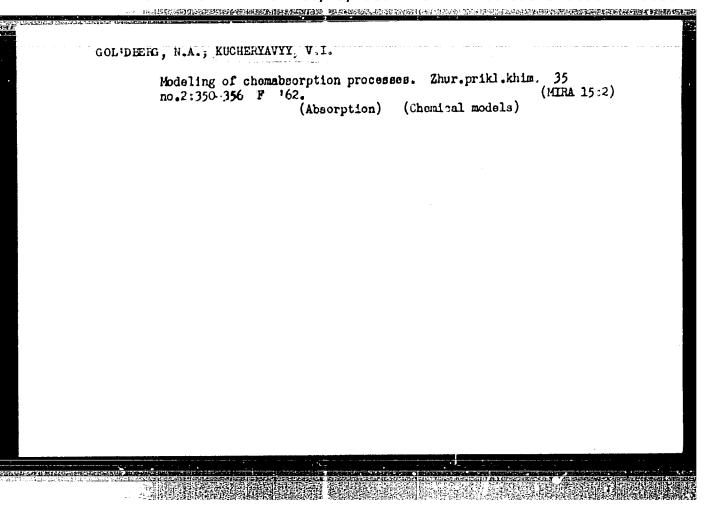
GOL'DBERG, N.A.; KUCHERYAVYY, V.I.

Modeling chemical sorption processes. Khim. prom. no.9:38-44
S'61.

(Sorption)

(MIRA 15:1)





ARTERIORIEN STRAGGESTER GEGESTER GEGESTER LEGGESTER GEGESTER GEG

GOL'DBERG, N.A.; KUCHERYAVYY, V.I.

Modeling of chemisorption processes taking place in countercurrent packed % columns. Dokl. AN SSSR 142 no.5:1134-1136 F 162. (MIRA 15:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

Predstavleno akademikom S.U.Vol'fkovichem.

(Packed towers)

LIVSHITS, B.S., kand. tekhn. nauk; KUCHERYAVYY, Ye.I., kand. tekhn nuak.

Rural block-type relay automatic dial telephone system. Vest. svinsi 17 no.11:3-5 N '57. (MIRA 10:12)

1. Hachal'nik laboratorii Nauchno-issledovatel'skogo instituta tekhnologii svarki (for Livshits). 2. Starshiy nauchnyy sotrudnik Nauchno-issledovatel'skogo instituta tekhnolgii svarki (for Kucheryavyy).

(Telephone, Automatic)

KUCHERYAVYY, Ya.I.; PAVLOVSKIY, I.Ye.; POLYAK, P.Yu.; FARAFOROV, L.S., otv. red.; PETROVA, V.Ye., red.; DIKOV, V.N., tekhn. red.

The same of the second second

[Group connection of telephone lines] Kollektivnoe vkliuchenie telefonnykh linii. Informatsionnyi sbornik. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 135 p. (MIRA 14:9)

l. Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy telefonnoy svyazi Ministerstva svyazi SSSR (for Kucheryavyy, Pavlovskiy, Polyak).

(Telephone lines)

KUCHERYAVYY, Ye.I.

Principles of the organization of rural telephone communication.

Vest. sviazi 24 no.6:14-15 Je 164. (MIRA 17:11)

l. Nachal'nik laboratorii Nauchnovissledovatel'skogo instituta gerodskoy i sel'skoy telefonnoy svyazi.

AUTHORS:

Kucheryayev, A. G., Sahenov, Yu. K., 807/56-34-3-50/55

Gogichayshvili, Sh. M., Leont'yeva, I. N.,

Vasil'yev, L. V.

OF THE PROPERTY OF THE PROPERT

TITLE:

The Magnetic Huclear Moments of Sr⁶⁷ and Mg²⁵ (Yadernyye magnitnyye momenty Sr⁸⁷ i Mg²⁵)

PERIODICAL:

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958,

Vol. 34, Nr 3, pp. 774-775 (USSR)

ABSTRACT:

The authors found the gyromagnetic ratio of the nucleus Sr87 by means of the method of magnetic resonance in molecular beams (ref. 1). This molecular beam consisted of strontium atoms which made possible the elimination of the intermolecular interactions as well as an exact taking into account of diamagnetic correction. The 378 cm long strontiumatom beam was detected by means of the method of surface ionization on a heated tungsten wire circumflowed by an oxygen current. The ions of strontium 87 were separated by a magnetic analyzer and were recorded by an electronic multiplier and a galvanometer. The value of the gyromagnetic ratio g of the nucleus is determined from the equation

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APPROVED FOR RELEASE: 06/19/2000

The Magnetic Nuclear Moments of Sr⁸⁷ and Mg²⁵

80Y/56-34 -3-50/55

 $\varepsilon = 1.3122.10^{-3} f_p/H_p$

where f denotes the resonance frequency of the oscillating field, and H denotes the corresponding resonance value of the constant magnetic field (in which the transitions take place). The resonance values f and H correspond to the minimum intensity of the refocused beam. The measurements were carried out according to the method of the invariable field as well as the method of invariable frequency. Also the fluctuations of the intensity of the atom beam were taken into account by means of two different methods shortly discussed. The maximum error of these measurements is estimated to amount to 0.12 %. From 26 measurement series the following mean value for the gyromagnetic ratio is obtained:

 $g(Sr^{67}) = 0.2423 \pm 0.0003$

Card 2/3

this coincides within the error limits with the value

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The Magnetic Nuclear Moments of Sr⁸⁷ and Mg²⁵

80V/56-34 -3-50/55

determined by C. D. Jeffries (Dzhefris) and P. B. Sogo (Ref 4) according to the method of "nuclear induction". The diamagnetism, of the atom demands the following correction:

 $H_{\text{true}} = (1 - \sigma)H_{\text{measured}}$

Here $H_{\rm true}$ denotes the true value of the magnetic field strength at the place of the nucleus. According to W. C. Dickinson (Dikinson) (Ref 5) here holds $\sigma = 0.00345$. Taking into account this correction as well as the unknown value of the spin of Sr^{87} (I = 9/2) the value of μ (Sr^{87}) = 1.0939 \pm 0.0014 nuclear magnetons is obtained for the magnetic moment of the nucleus of Sr^{87} . There are 6 references, 0 of which are Soviet.

SUDMITTED:

December 25, 1957

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并可能的一种分别,我的时候我们的时候,我们就是我们就是我的人。 第一个人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就

21(1), 24(3)
AUTHORS: Sov/56-37-2-51/56
Kucheryayev, A. G., Szhenov, Yu. K., Gogichayshvili, Sh. M.

TITLE: Measurement of the Marmetic Moments of the Atomic Nuclei of

Alkaline Earth Metals by the Method of Magnetic Resonance in

Molecular Beams

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 2(8), pp 582-583 (USSR)

ABSTRACT: This method offers certain advantages if compared to other methods, if the molecular beam consists of atoms in the So-state.

It has already been used for the purpose of measuring the magnetic moments of Ba 135, Ba 137, Ne 21, and Sr 87 (Refs 1-4). As already shown by the authors (Refs 4,5), this method may also serve the purpose of determining the magnetic moments of all alkaline earth metals. The description of the experimental arrangement

and of the method may be found in reference 5.

Results:

Card 1/3

Measurement of the Magnetic Moments of the Atomic Nuclei of Alkaline Earth Metals by the Method of Magnetic Resonance in Molecular Beams

	t, °c	I, imp/sec	β	μ
Mg^{25}	600	200	2.10-4	-0.855 ± 0.002
Ca43	1070	300	0.02	1.317 ± 0.003
Sr ⁸⁷	750	104	0.2	-0.0924 ± 0.0009
Ba ¹³⁵ Ba ¹³⁷	800	500	0.6	1.8370 ± 0.0008
Ba	800	850	0.6	0.9364 ± 0.0009

t denotes the temperature of the source, I - the recorded intensity of a narrow bundle, β - the surface ionization coefficient at optimum detection conditions, μ - the magnetic moment (with diamagnetic correction) given in nuclear magnetons. Systematical errors were excluded. The authors finally thank T. S. Bokuchav, K. G. Mirzoyev, and I. N. Leont'yeva for their help in carrying out measurements, M. I. Guseva, V. M. Gusev, and D. V. Chkuaseli for the enriched Ca⁴⁵-preparation. There are 2 tables and 12 references, 3 of which are Soviet.

Card 2/3

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SOV/56-37-2-51/56 Measurement of the Magnetic Moments of the Atomic Nuclei of Alkaline Earth Mctals by the Method of Magnetic Resonance in Molecular Beams

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk GruzSSR (Physico-

technical Institute of the Academy of Sciences, Gruzinskaya SSR)

SUBMITTED: May 19, 1959

Card 3/3

EWP(j)/EWT(1)/EWT(m)/BDS--AFFTC/ASD--Pc-4--BM

64

<u>L 11218-63</u> ACCESSION NR: AP3001632

S/0192/63/004/003/0459/0460

63

AUTHOR: Baroni, Ye. Ye.; Ksenofontov, V. A.; Kucheryayev, A. G.; Oliferchuk, N. L.; Shuander, Yu. A.

TITLE: Nuclear magnetic resonance of scintillators based on polystyroles

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SOURCE: Zhurnal strukturnoy khimii, v. 4, no. 3, 1963, 459-460

TOPIC TAGS: NMR of protons, polystyrole and plastic scintillators

ABSTRACT: This study shows an experimental determination of some features of NMR in the polystyrole and plastic scintillators based on polystyrole which could be utilized for the stydy of structural properties. It was established that the NMR proton spectrum in the polystyrole and polystyrole with added scintillating substances at temperatures higher than 20-30C consist of two components: wide with DELTA H approximately equals 6.7 gauss and the narrow with DELTA H approximately equals 0.35 gauss. The amplitude of the narrow polystyrole component shows a temperature dependence at about 120C. With the introduction of luminescent materials the transition point is shifted into the region of lower temperatures. The wide component shows a transition of polystyrole at a temperature of approximately 75 Cord 1/2

L 11218-63

ACCESSION NR: AP3001632

and 1200. The introduction of scintillating materials shifts the point of transition to lower temperatures. Small additions up to 3% do not affect the transition at 75C. The NMR method may find its usefulness in the determination of a known concentration added to the polystyrole by means of shifting the transition points determined from the temperature dependence of the amplitude of the narrow component at the appropriate temperature. "The authors express their gratitude to V. M. Shoniya for the preparation of polystyrole and the scintillators in its base for these investigations." Orig. art. has: 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Gruz SSR (Physico-Technical Institute,

SUBMITTED: 29Jan62

DATE ACQ: 01Jul63 ENCL: 00

SUB CODE: 00

NC REF SOV: 001

OTHER: 001

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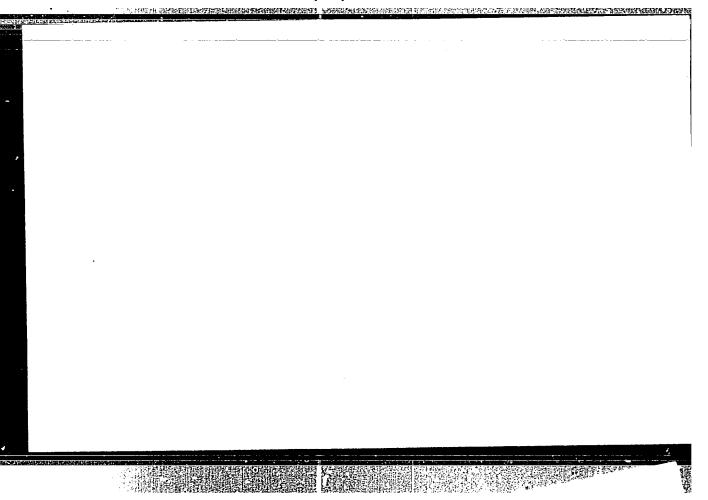
APPROVED FOR RELEASE: 06/19/2000

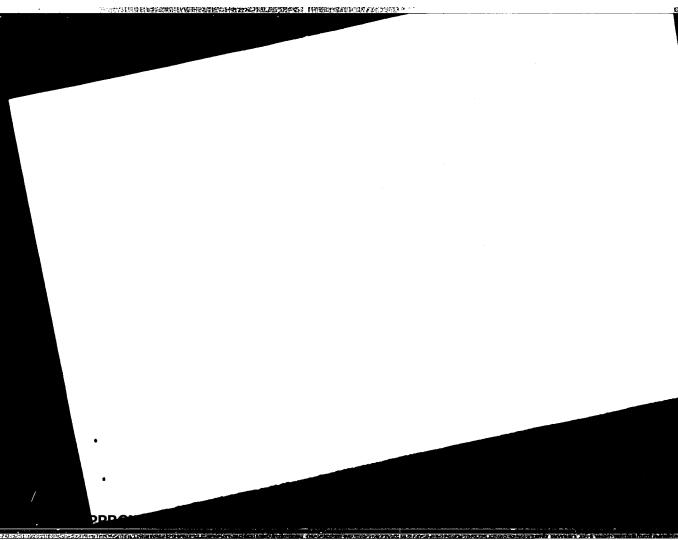
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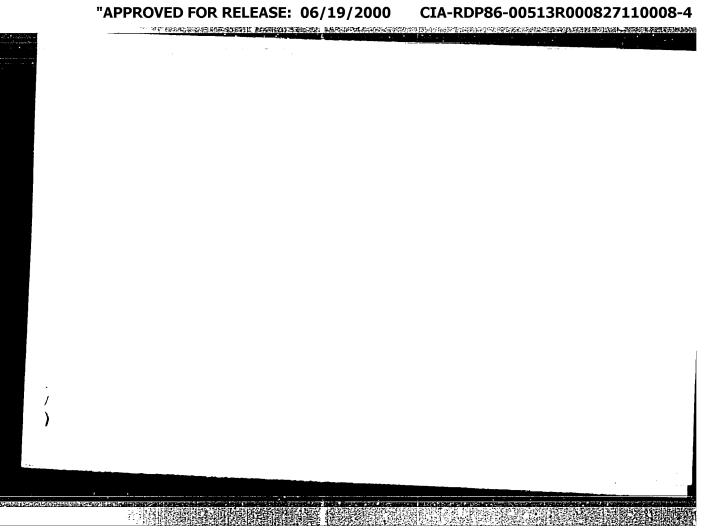
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VESTILIYAY, G.A.; VESTILIAN, A.F.: Y COLON, YM.A.; REHERYVE T. J. ..; PANKESTIYEY, YM.V.

Attenuation of remeter radiations by semientine concrete. Aton. energ. 18 no.2:121-427 F 465. (Mich 18:3)







APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110008-4"

KUCHERYAYEV, A.; PANOV, D. A.

"On the Question of the Cause of the Anomalously Fast Losses of Electrons from Plasmas in Ogra."

Report presented at the Conference on Plasma Stability, Culham UK, 17-22 Sep '62

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ACCESSION NR: AT4025312

8/0000/63/000/000/0223/0232

AUTHORS: Kucheryayev, Yu. A., Panov, D. A.

TITLE: Use of electron and ion beams for the measurement of the electric field of the space charge of the 'Ogra' plasma

SOURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 223-232

TOPIC TAGS: plasma research, plasma confinement, plasma sheath, particle collision, field intensity, magnetic mirror, space charge

ABSTRACT: Two methods are described for measuring the field of plasma space charge. In one method the deflection of the electron beam due to drift in crossed electric and magnetic fields is measured, while in the other method the electric-field pickup is a beam of cesium ions moving in the boundary region between the plasma and the chamber wall. The measurements were aimed at determining the

Card 1/42

ACCESSION NR: AT4019060

\$/0000/63/000/000/0260/0270

AUTIOR: Avayev, V. N.; Vasil'yev, G. A.; Yegorov, Yu. A.; Kucheryayev, V. A.; Orlov, Yu. V.; Pankrat'yev, Yu. V.; Panov, Ye. A

TITLE: Counters and desimeters for the study of shielding and shielding properties of materials

SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of reactor shielding, collection of articles). Moscow, Gosatomizdat, 1963, 260-270

TOPIC TAGS: counter, scintillation counter, dosimeter, shielding, reactor shielding, nuclear reactor, gamma ray, neutron

ABSTRACT: In the study of the shielding properties of different materials and their combinations, it is important to know the following parameters: coefficients of attenuation of Y-ray and neutron streams of different energies; coefficients of attenuation of the power level of Y-radiation and fast neutrons; yield and spectrum of captured Y-radiation; activation of materials in a neutrons flux; and deformation of the Y-ray and neutron spectra in their passage through the material. Since existing equipment is insufficient for shielding studies, the authors built and tested a number of scintillation counters and dosimeters.

Card 1/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110008

ACCESSION NR: AT4019060

Among those described are a scintillation counter and spectrometer for the study of the attenuation of d-ray flux, consisting of a FEU-11B photomultiplier with an NaI(T1) crystal (diameter and height 40 mm) mounted in a housing lined with aluminum foil, and a scintillation neutron counter consisting of a FEU-11B photomultiplier with plastic scintillator of ZnS(Ag) + lucite (diameter 30, height 10 mm). For neutron energies > 2 MeV, the V-ray background is calibrated with a Co60 source and eliminated by the proper bias in the analyzer. A similar neutron counter can be used as a monitor. A light guide in conjunction with a smaller counter is used when the opening in the shielding is too small. This light guide is made of organic glass (length 60, diameter 10 mm) and is equipped with a light collector (Tove, P. A. Rev. of Sci. Inst. 27, 143 (1956)). For neutron energies between 1 and 10 Mev, a stilbene crystal is used (diameter 30, height 20 mm) equipped with the &-discrimination arrangement described by H. W. Broch (Rev. Sci Instr. 31, 1063 (1960)). The detection efficiency for neutrons between 1 and 10 MeV is 10 - 2%. For thermal neutron detection, a FEU-29 or FEU-31 photomultiplier with an Li₂O- 3SiO₂ glass scintillator is used. Detection is based on the reaction Li6 + $n \rightarrow \alpha$ + H3. The sensitivity of these counters to δ rays is calibrated by Zn65 to Co60 sources. All-wave-length neutron counters are constructed as gas counters (type SNM-5) filled with BF3 and enclosed in paraffin, which is lined on the outside with cadmium. Dosimeters for fast neutrons are

Card 2/3

YEGOROV, Yu.A.; KUCHERYAYEV, V.A.

Possibility of using certain organic scintillators for dosimetry.
Inzh.fiz.zhur. 4 no.7:117-119 Jl '61. (MIRA 14:8)
(Scintillation counters) (Radiation—Dosage)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827110008-4

KUCHERYAYEY, A.; PANOV, D. A.

"On the Question of the Cause of the Anomalously Fast
Lesses of Electrons from Plasmas in Ogra."

Report presented at the Conference on Plasma Stability, Culham UK, 17-22 Sep 162

ACCESSION NR: AT4025312

8/0000/63/000/000/0223/0232

AUTHORS: Kucheryayev, Yu. A.; Panov, D. A.

TITLE: Use of electron and ion beams for the measurement of the electric field of the space charge of the 'Ogra' plasma

SOURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 223-232

TOPIC TAGS: plasma research, plasma confinement, plasma sheath, particle collision, field intensity, magnetic mirror, space charge

ABSTRACT: Two methods are described for measuring the field of plasma space charge. In one method the deflection of the electron beam due to drift in crossed electric and magnetic fields is measured, while in the other method the electric-field pickup is a beam of cesium ions moving in the boundary region between the plasma and the chamber wall. The measurements were aimed at determining the

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ACCESSION NR: AT4025312

field distributions and the collective processes occurring in an "Ogra" device. The electron source used was a three-electrode gun placed in one of the magnetic mirrors of the "Ogra," and the electron beam receiver was a television-tube screen with low persistence. The construction and operation of the apparatus are briefly described. The quantities measured were the radial distribution of the radial component of the electric field of the plasma space charge, the electric field near the walls of the chamber, and the correlation of the electric field near the cesium probe with the signal from the fast-ion detector. It is concluded that the use of interaction between the probe charges and electromagnetic fields of the plasma, and also of atomic and nuclear collisions with the plasma components, yields a variety of information on the plasma properties. An advantage of such diagnostics is the fact that it hardly disturbs the investigated object. Orig. art. has: 6 figures.

ASSOCIATION: None

Card 2/4 2

Beedrancy, G.F.; Karruey, A.N.; Kucheryayev, Yu.A.

Dissociation of fast molecular hydrogen ions and the charge exchange of fast protons in a lithium arc. Atom. energ. 19 no.4:381 0'65. (MIRA 18:11)

RATINOV, V.B.; KUCHERYAYEVA, G.D.; MELENT'YEVA, G.G.; PIMENOVA, S.M.

Thermodynamic and diffusion characteristics of the basic components of coment when they are dissolved in water. Izv. vys.ucheb.zav.; stroi. i arkhit. 4 no.6:135-145 '61.(MIRA 15:2)

l. Nauchno-issledovatel'skiy institut zhelezobetonnykh izdeliy, stroitel'nykh i nerudnykh materialov. (Cement)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110008-4"

RULMERYMYEVA, G.H.

S/081/61/000/023/030/061 B138/B101

AUTHORS:

Ratinov, V. B., Rozenberg, T. I., Dovzhik, O. I. Kucherya-

yeva, G. D., Smirnova, I. A.

TITLE:

Corrosion inhibitors for reinforcement bars in concrete

containing calcium chloride

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 23, 1961, 290, abstract, 23I272 (Tr. N.-i. in-ta betona i zhelezobetona Akad. str-va

i arkhitekt. SSSR, no. 22, 1961, 40 - 53)

TEXT: An investigation of the mechanism of reinforcement iron corrosion in concrete with additions of CaCl₂ and NaNO₂ has shown that the process takes place with diffusion control. It is noted that NaNO₂ is an effective corrosion inhibitor for reinforcements, due to its power of rapidly creating or healing protective films, passivating the metal thereby. The addition of NaNO₂ together with CaCl₂ will increase the strength of concrete without making plastic deformation any greater than

Card 1/2

S/081/61/000/023/030/061
Corrosion inhibitors for reinforcement... B138/B101
in concrete without these additions. [Abstracter's note: Complete translation.]

RATINOV, V.B.; KUCHERYAYEVA, G.D.; MELENT YEVA, G.G.

Thermodynamic and diffusion characteristics of silicate ingredients of cement when they are dissolved in water. Dokl. AN SSSR 136 no.4: 875-878 F 161. (MIRA 14:1)

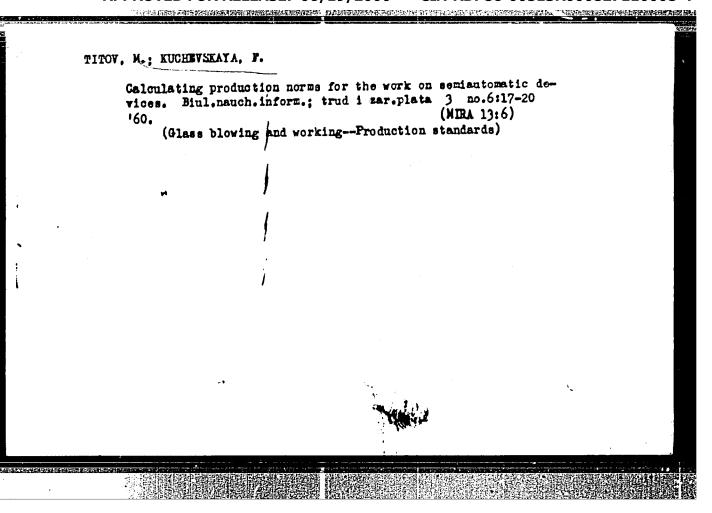
1. Nauchno-issledovatel'skiy institut zhelezobetonnykh izdeliy, stroitel'nykh i nerudnykh materialov. Predstavleno akademikom P.A. Rebinderom.

(Calcium ailicate)

ANGINNIEGY, M., kand. sel'skokhoz. nauk; SHVIDKOY, V., inzh.; KUCHEVOY, V., inzh.

Pine geometrid control. Zashch. rast. ot vred. i bol. 10 no.7;26 '65. (MIRA 18;10)

1. Ukrainskiy institut lesnogo khozyaystva i sgrolescmelioratsii, Khar'kov.



RODIN, A.M.; KUCHEY, S.A.

க்கைக்கு கூட

Measuring the penetration depth and diffusion coefficient of gases in metals. Prib. i tekh.eksp. no.4:68-69 Jl-Ag 157.

(MIRA 10:10)

(Gases in metals) (Diffusion)

KUCHIEWICZ, W.

Remarks on precision traverse surveying after the introduction

of the news instruction by the Central Administration of

Geodesy and Cartography in 1955, p. 110. Vol. 12, no. 1, Apr. 1956

Warssawa

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SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

KUCHIKYAN, L.M.

Automatic moisture control of aluminum oxide hydrate. TSvet. met. 37 no.9:46-51 S '64. (MIRA 18:7)

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i regulirovaniya) Mos	ation meters for automatic kontsentratómery dlya avtor scow, Izd-vo "Mashinostroyer ata slip inserted. 4000 co	maticheskogo kontrolya
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1. Classification of photometer circuits 5	
2. Special features of automatic photometer circuits 9	
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Ch. II. Photoelectric Radiation Receivers 18	
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ACC NR: AM6021848 Ch. IV. Photoelectric Absorption meters -- 64 14. General considerations -- 6415. Automatic absorption concentration measuring devices for liquid media -- 70 16. Automatic absorption gas analyzers -- 94 Photoelectric Nephelometers -- 109 Light scattering by a turbid media -- 109 17. 18. Automatic turbidity meters for liquid media -- 112 19. Automatic aerosol control devices -- 118 Ch. VI. Photoelectric Refractometers -- 125 20. Basic considerations -- 125 21. Automatic refractometers -- 134 22. Refractometer signal indicators -- 148 Ch. VII. Photoelectric Polarimeters -- 151 23. Essence of the method -- 151 24. Special features of automatic polarimeter circuits and designs -- 154 25. Automatic polarimeters -- 159 Conclusion -- 167 Card 3/4

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GRINSHTEYN, Mark Mikhaylovich; KUCHIKYAN, Loonid Mikhaylovich; YELISEYEV, R.Ye., red.

[Photoelectric relays in amateur radio receivers] Foto-rele v radioliubitel'skoi praktike. Moskva, Izd-vo "Energiia," 1964. 72 p. (Massovaia radiobiblioteka, no.533) (MIRA 17:6)

KUCHIKYAN, L.

Automatic measurement of moisture content in aluminum hydroxide. Prom.Arm. 6 no.2:26-29 F '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut (Avtomatika". (Aluminum hydroxide—Testing)

KUCHIKYAN, L.		
Automatic control of co Prom.Arm. 5 no.9:26-28	opper sulfate content S !62.	of electrolytes. (MIRA 15:9)
pro ses ov khimicheskoy	el'skiy institut avto promyshlennosti i ts (Electrolytes)	matizatsii proizvodstv e nnykl vetnoy metallurgii.

MUCHIAYAL, L. .; DADAYAH, A.A.

Photocolorimetric method for measuring the concentration of hemicellulose in altali solutions. Khim-volok-no.5:36-38 164. (MIRA 17:10)

1. Mauchno-issledovateliskiy institut avib atizatsii proisvodstvennykh protsessov khimicheskoy promyshlennosti – i tsvetnoy metallurgii, Kiro-vakan.

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KUCHIN, A.I.; ARUTYUNOV, S.A.

Results of industrial testing of bottom discharge devices of petroleum tank cars. Transp. i khran. nefti i nefteprod. no.7:17-21 165.

(MIRA 18:9)

1. Glavnoye upravleniye po transportu i snabzheniyu neftiyu i nefteproduktami pri Sovete Ministrov RSF3R.

KUCHIN, A., inshener.

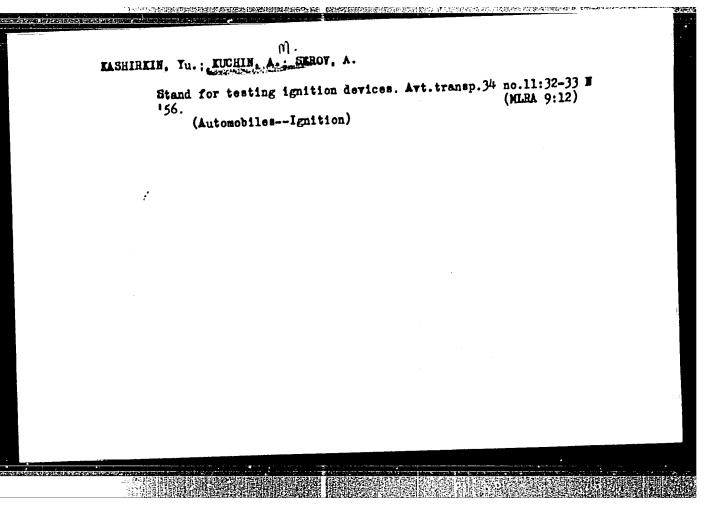
Autobus dining car. Avt.transp.32 no.10:37 0 '54. (MLRA 7:12)
(Motor buses)

KUCHIN, Aleksey Mikhaylovich; ABRANOVICH, A.D., redaktor, MAL'KOVA, N.V., tekhnicheskiy redaktor.

[New method in adjusting automobiles for fuel economy] Novyi metod regulirovki avtomobilei na toplivmiu ekonomichnost.

Moskva, Nauchno-tekhn.isd-vo avtotransp.lit-ry, 1955. 23 p.

(Automobiles-Fuel consumption) (MLRA 8:8)

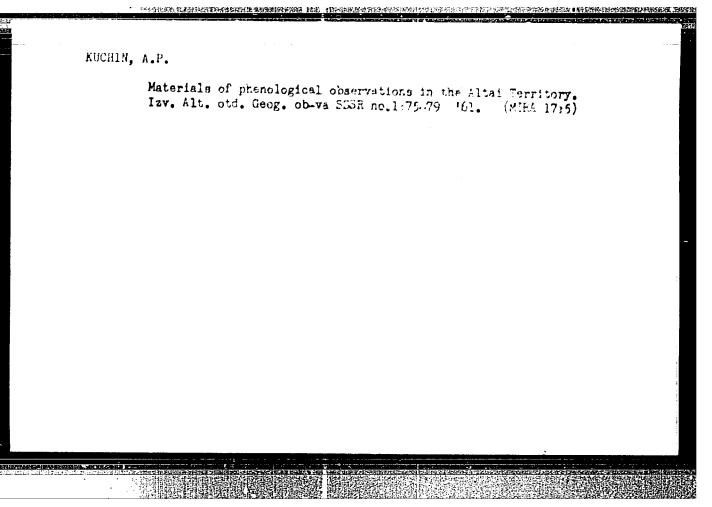


KUCHIN, A.P.

Winter bird fauna of the upper Ob' Valley. Izv. Alt. otd. Geog. ob-va SSSR no.5:152-153 '65.

Biology of the turtledove Streptopelia orientalis in the Biya-Katun' piedmont interfluve. Ibid. 157-158 (MIRA 18:12)

1. Gorno-Altayskiy pedagogicheskiy institut.



KUCHIN, A.P.

Ecology of some predatory birds of the Biya-Katun interfluve.

Zool, zhur, 40 no.5:730-735 '61. (MIRA 14:5)

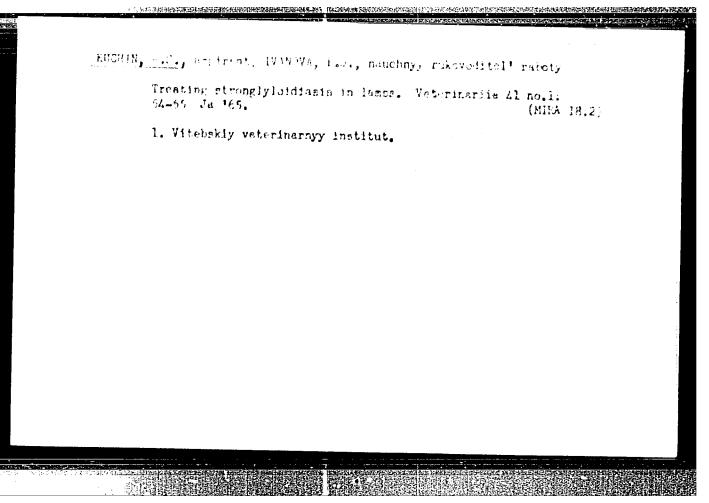
1. Altai Branch of the U.S.S.R. Geographical Society.
(Biya Valley-Birds of prey)
(Katun Valley-Birds of prey)

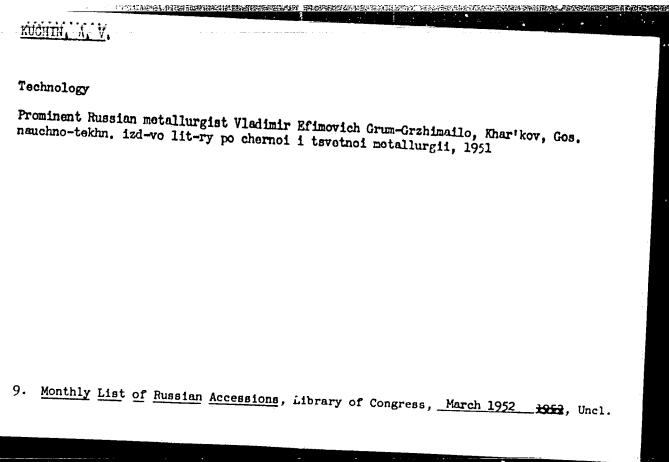
THE REPORT OF THE PROPERTY OF

KUCHIN, A.P.

Ecology of some predatory birds of the upper Ob' Valley. Zool.
zhur. 42 no.9:1418-1420 '63. (MIRA 16:12)

1. Altai Branch of the Geographical Society of U.S.S.R., Biysk.





FILL HIM, HAV

137-58-3-6023

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 226 (USSR)

AUTHOR: Kuchin, A. V.

TITLE: Mechanical Properties of Non-magnetic Steel as a Function of

the Degree of Cold Deformation (Cold Hardening)[Vliyaniye stepeni kholodnoy deformatsii(naklepa) na mekhanicheskiye

svoystva nemagnitnoy stali]

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, pp 107-115

ABSTRACT: Investigations were performed in order to evaluate the influence of the extent of cold deformation (CD) on mechanical

properties of austenite steel containing 0.49 percent C, 5.10 percent Mn, 0.44 percent Si, 10.55 percent Ni, 9.47 percent Cr, 0.01 percent S, and 0.027 percent P. Specimens cut from heavy forged stock which had been tempered starting at a temperature of 11000 were subjected to various degrees of CD. Mechanical tests performed on samples of cold hardened

metal have shown that O_s and O_b increase considerably and that, at increasing degrees of CD, the O_s increases at a greater

Card 1/2 rate than the O_b . Initially the ratio O_s / O_b equals 42 percent,

137-58-3-6023

Mechanical Properties of Non-magnetic Steel (cont.)

whereas after a CD of 26 percent the value of the ratio increases to 91.6 percent. The fact that \mathcal{O}_s approaches the \mathcal{O}_b value indicates that the steel has suffered a loss of plasticity and that, therefore, the process of cold hardening may be carried on only up to a certain limit at which the steel still exhibits sufficient ductility and plasticity. For the steel investigated this critical degree of CD lies between 26 percent and 30 percent. Bibliography: 16 references.

N.K.

Card 2/2

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CIA-RDP86-00513R000827110008-4

137-58-3-5967

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 216 (USSR)

AUTHOR: Kuchin, A. V.

TITLE: Resilience of Medium Manganese Steel at Normal and Low

ACCEPTATION OF THE PROPERTY OF

Temperatures (Udarnaya vyazkost' srednemargantsovistoy

stali pri normal*noy i nizkikh temperaturakh)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, Nr 2, pp

83-94

ABSTRACT: Mechanical properties of forged axles (A) and of an A of

current production were investigated together with their macroand microstructure in order to explore the possibility of

employing medium manganese steel (MMS) (0.25-0.35 percent C, 1.5 percent Mn) in the production of locomotive axles. Along with mechanical testing, carried out at normal temperatures, the services of -200

peratures, the a_k was also determined at temperatures of -20° and -50°. It is established that MMS fully meets the speci-

fications for material employed for the manufacture of locomotive A's. Compared with carbon steel, the ak of MMS

is considerably greater at low temperatures, the own of MMS

Card 1/2

137-58-3-5967

Resilience of Medium Manganese Steel (cont.)

exceeds the $O_{\rm W}$ of carbon steel by 4-5 kg/mm². Mechanical tests performed on specimens taken from an experimental A (0.32 percent C, 1.48 percent Mn), which was subjected to normalization at 830° and 780°C and was annealed at 600°, have shown that Mn has a favorable effect on the quality of structural steel, particularly on the $a_{\rm k}$ at normal and at low temperatures. The MMS is recommended for the manufacture of locomotive A's.

N. K.

Card 2/2

5/137/61/000/008/030/037 A060/A101

AUTHOR:

Kuchin, A. V.

TITLE:

Change in the mechanical properties at different depths of austenitic

indring programment of the septiment of the control of the control

steel forgings after cold hardening

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 12, abstract 8198

("Tr. Khar'kovsk. politekhn. in-ta.", 1960, 15, 91-94)

An investigation was carried out on the nature of the variation in TEXT: the mechanical characteristics at various depthsof an article subjected to cold-nardening, using a tire-ring forging with wall thickness 100 mm of nonmagnetic steel with composition (in %): C 0.7, Mn 7.42, Si 0.26, Cr 2.80, Ni 7.54, W 0.80, S 0,013, P 0.040. After forging and stripping the tire-ring was hardened at 1,150 and subjected to cold deformation under a press. The mechanical characteristics of the tire-ring forging varied noticeably along the radial direction. The maximum value of os (85 - 87 kg/mm²) was observed at the inner surface of the tire-ring and the minimum value (71 - 73 kg/mm2) at the middle of the tire-ring thickness. In order to study the hardness as a function of the degree of cold deformation and the depth of the readings along the radius

Card 1/2

Change in the mechanical properties ...

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of the forging, nonmagnetic tire-rings were taken which had been subjected to various degrees of cold deformation. The hardness of austenitic steel increased with an increase in the degree of cold deformation for every measurement zone starting with the outside surface. The minimum value of the nardness was found in the middle zone of the tire-ring.

T. Pumyantseva

[Abstracter's note: Complete translation]

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3/137/61/000/008/029/037 A060/A101

AUTHOR:

Kuchin, A. V.

TITLE:

Effect of the chemical composition of nonmagnetic steel upon the

critical degree of reduction under cold deformation

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 12, abstract 8197

("Tr. Khar'kovsk. politekhn. in-ta", 1960, 15, 95-100)

Two heats of austenitic steels were investigated, having the composition (in %): C 0.6; 0.7, Mn 3.69; 8.13, Si 0.26; 0.36, Cr 9.82; 3.46, Ni 10.68; 8.39. S 0.028; 0.016, P 0.019; 0.025, W 0; 0.72. A certain quantity of Ni contained in nonmagnetic steel may be replaced by the corresponding equivalent quantity of less scarce Mn without deteriorating the valuable properties of nonmagnetic steel. The introduction into the steel of a small quantity of W (0.7 - 1.0%) makes the single-phase austenitic structure of the steel more stable and thus allows a greater degree of cold hardening for raising the strength characteristics of the steel while retaining a sufficient viscosity. For $6_{\rm s}$ 70 kg/mm² it is possible to use steel of the austenitic class without

Card 1/2

Effect of the chemical composition ...

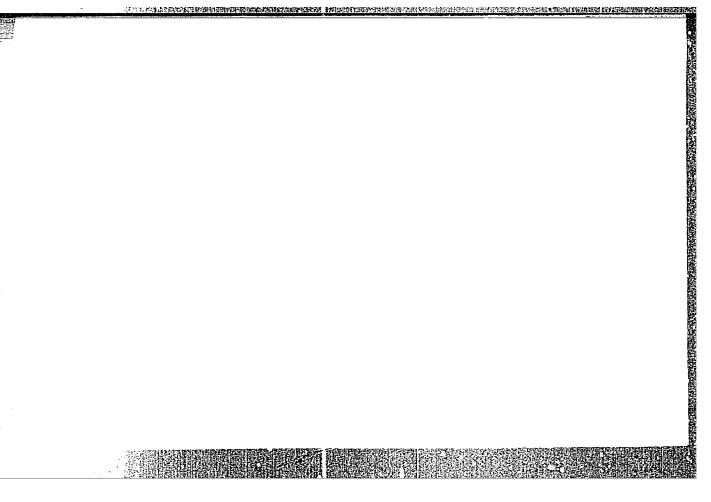
3/137/61/000/008/029/037 A060/A101

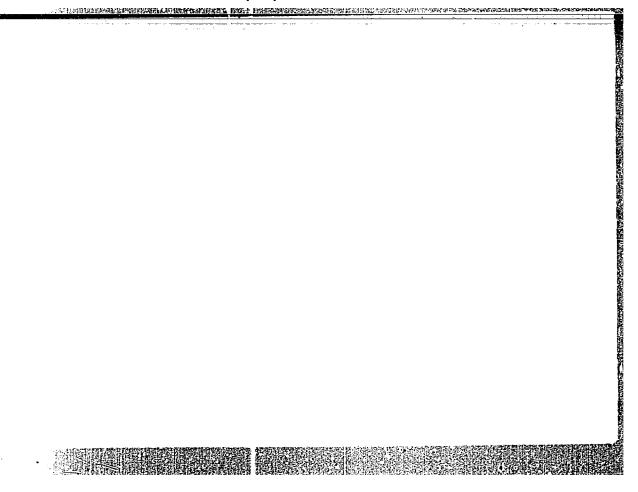
adding W. For $6_s > 70 \text{ kg/mm}^2$ in order to use a greater degree of cold-hardening for increasing the strength. It is worth while to introduce 0.7 - 1.0 % W into

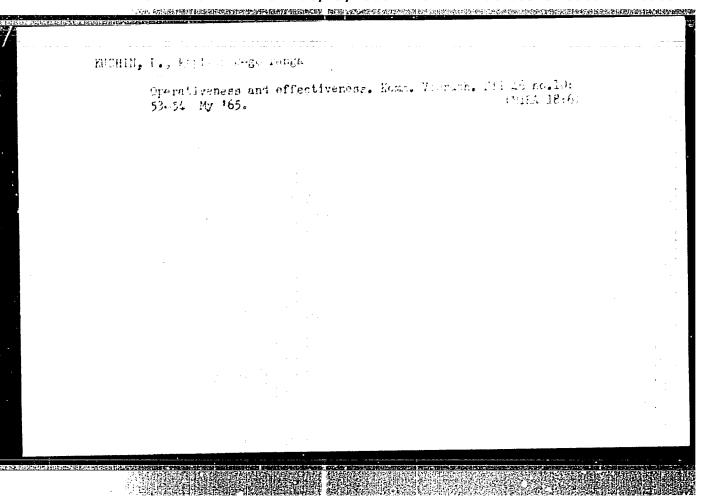
T. Rumyantseva

[Abstracter's note: Complete translation]

Card 2/2







VIKSNE, K.A.; KUCHIN, G.M.

[Equipment for the air classification of cinder at the V.I.Lenin Lead and Zinc Combine in Ust-Kamenogorsk]
Ustanovka dlia vozdushnoi klassifikatsii ogarka na Ust-Kamenogorskom svintsovo-tsinkovom kombinate im. V.I.
Lonina. Alma-Ata, TSentr. in-t nauchno-tekhn. informatsii, 1961. 5 p. (MIRA 17:2)

SAVRAYEVA, K.Ye.; KUCHIN, G.M.; PANKRATOV, E.G.

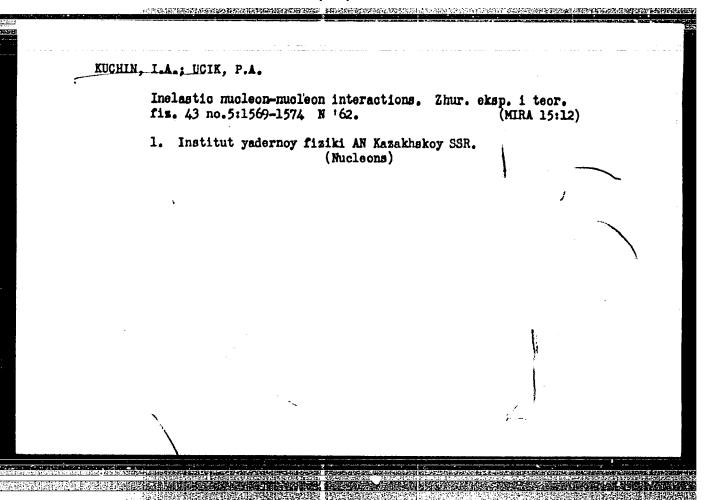
A PER BUTCHEST AND REPORTED AND

Continuous shaking-off of electric filter electrodes according to a magnetic pulse flow sheet at the Ust!-Kamenogorsk Lead-Zinc Combine. TSvet.met. 38 no.10:22-25 0 65.

(MIRA 18:12)

KUCHIN, G.P., inzh.; SOLODOV, D.F., inzh.

New materials for fine filtration of oil. Energomashinostroenie 11 no.7:32-33 J1 65. (MIRA 18:7)



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S/056/62/043/005/001/058 B163/B186

AUTHORS:

Kuchin, I. A., Usik, P. A.

TITLE:

Inelastic nucleon-nucleon interactions

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

no. 5(11), 1962, 1569-1574

TEXT: The asymmetry in the angular distribution of secondary protons in the center-of-mass system as found in 9 Bev pn-interaction experiments (V. A. Botvin et al., ZhETF 41, 993, 1961; T. Vishki et al., ZhETF 41, (V. A. Botvin et al., ZhETF 41, 993, 1961; T. Vishki et al., ZhETF 41, (V. A. Botvin et al., ZhETF 41, 993, 1961; T. Vishki et al., ZhETF 41, (V. A. Botvin et al., ZhETF 41, 993, 1961; T. Vishki et al., ZhETF 41, (V. A. Botvin et al., ZhETF 41, 993, 1961; T. Vishki et al., ZhETF 41, (V. A. Botvin et al., ZhETF 41, 993, 1961; T. Vishki et al., ZhETF 41, (V. A. Botvin et al., yhip in a one-meson approximation. The 1069, 1961 is excited. In case (b) the process occurs via x - x - interaction. Expressions for the corresponding cross occurs via x - x - interaction. Expressions for the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for the reaction, and for various numbers of calculated for the two cases (a) and (b), and for various numbers of sections and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of high sections and for the reaction, and for their asymptotic behavior in the limiting case of high sections and for their asymptotic behavior in the limiting case of

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Inelastic nucleon-nucleon interactions

S/056/62/043/005/G01/058 B163/B186

with only one nucleon excited is an important contribution to the inelastic NN-interaction cross section. The experimental data can be explained in this way, as well as under the assumption that one-meson interactions in which both nucleons are excited play the most important role. In order to specify theoretical assumptions from a single aspect further experimental research is proposed. There are 2 figures and 2

ASSOCIATION:

Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR (Institute of Nuclear Physics of the Academy of Sciences of the Kazakhskaya SSR)

SUBMITTED:

February 28, 1962

Table 1: Nucleon-nucleon interaction cross section (in mbarn) for various energies E_1 in the laboratory system. First column: Type of reaction.

Table 2: Asymmetry η in the angular distribution of protons in the three-card 2/3

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Inelastic nucleon-nucleon interactions

8/056/62/043/005/001/058 B163/B186

Legend to the tables: (1) Type of reaction. (2) Total number of secondary particles in the reaction. (3) Proton asymmetry in three-raycases. (4) Experiment; (5) over all reactions.

Table 1

T	вb	1	A	2

2(1)	a max	E _{R.} BeV				
		9	18	200	800	5000
6	0,83 0,67 0,83 0,67	37 32 8,5 7,3	38 30 10,5 7,8	38 30 13 8,1	38 30 13 3,1	38 30 13 8,1

Tun Pesadan	Поляое число вторичим частиц в реадия	Асиметрия протовов в тредау- чених случаях	
a	3 4 5 6	0 -0,20 -0,30 -0,28	
о экспери мент (ф	6 по всем реакцияны	-0,35 -0,47 -0,32±0,11	

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110008-4"

EULEIN, I.A., SEIK, P.A.

Interpretation of experimental data on nucleon-nucleon interaction at an energy of 300 Bev. 12v. AU 3588. Ser. fiz. 28 no.11:1821-1823 N '64. (MIRA 17:12)

1. Institut yadernoy fiziki AN KazSSR.

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ACCESSION NR: AP4031147

8/0056/64/046/004/1257/1265

AUTHORS: Kuchin, I. A.; Usik, P. A.

TITLE: One meson exchange and asymptotics of scattering of nucleons and pions by nucleons

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1257-1265

TOPIC TAGS: one meson exchange, nucleon nucleon scattering, pion nucleon scattering, vertex function

ABSTRACT: The properties of the vertex functions in one-meson exchange graphs for NN and πN interactions are investigated for the purpose of ascertaining the conditions which the vertex (cutoff) functions must satisfy in order that the one-meson approximation be applicable to interactions at very high energies. It is found that the one-meson interactions must be described by one generalized graph and not by two, as previously assumed, and that the one-meson ex-

Card 1/3

。 [1] 我是自己的证据中国起源的主流,他们的自己的证明的证明,但是他的证明的证明的证明的证明,但是是一个人的证明的,是一个人的证明的证明,但是是是是一种的证明的

ACCESSION NR: AP4031147

change approximation is valid at very high energies with the head-on NN and π N collisions not contributing significantly. It is concluded that the one-meson approximation gives a correct description of the basic features of inelastic interactions of nucleons and pions with nucleons for a wide range of energies (from several BeV upwards). The one-meson interactions play a predominant role because of the existence of one-meson states in the structure of the nucleon. However, the agreement between theory and experiment is bought at the price of giving up the locality of the pion-nucleon interaction. "In conclusion we express our deep gratitude to Professor Zh. S. Takibayev and D. S. Chernavskiy for discussions and advice, to V. I. Rus'kin for useful comments, and to M. P. Thetbayeva and K. I. Khomenko for their great help in the computations." Orig. art. has: 2 figures and 18 formulas.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk Kazaknskoy SSR (Institute of Nuclear Physics, Academy of Sciences, Kazakh SSR)

Card 2/3

ACCESSION NR: AP4031147

SUBMITTED: 15Ju163

DATE ACQ: Q7May64

ENCL: 00 0

SUB CODE: GE, NP

NR REF SOV: 009

OTHER: 007

Nymeron production in T-N and NN-collisions. Lat. (in, 1 co. h. 547-550 Mr '65. (MIRA 18:5)

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KUCHIN, I.P., dotsent, kand.istorich. nauk, kajitan 1-go ranga; GAVRILYUK, V.K., dotsent, kand.jedagog. nauk, podpolkovnik; BARANOV, G.A., kajitan 1-go ranga; VOHOB'YEV, A.M., gvardii kajitan 3-go ranga; CHERNAVSKIY, V.A., podpolkovnik

Raviews and bibliography. Mor. abor. 48 no.1:87-93 Ja *65. (MIRA 18:4)

AKULOV, I.I.; BARZHIN, V.Ya.; VALITOV, R.A.; GARMASH, Ye.N.; KUCHIN,
L.F.; NAYDEROV, V.Z.; PUTSENKO, V.V.; SEMENOVSKIY, V.K.;
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Yu.B.; YUNDENKO, I.N.; CHISTYAKOV, N.I., otv. red.; KOKOSOV,
L.V., red.; TRISHINA, L.A., tekhn.red.

[Theory and design of principal radio circuits using transistors]
Teoriia i raschet osnovnykh radiotekhnicheskikh skhem na transistorakh. [By] I.I.Akulov i dr. Moskva, Sviaz'izdat, 1963. 452 p.

(MIRA 16:18)

(Transistor circuits) (Electronic circuits)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110008-4"

KUCHIN, L.F. (g.Khar'kov); FILOMENKO, S.N. (g.Khar'kov); PUTSENKO, V.V.

Concerning the terminology in the field of transistor electronics.

Izv. vys. ucheb. zav.; radiotekh. 4 no.1:106-110 Ja-F '61.

(Transistors---Terminology)

(Transistors---Terminology)