Photon scattering from ...

S/166/62/000/003/008/010
B163/B104

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UzSSR (Physicotechnical Institute of the AS UzSSR)

SUBMITTED: October 25, 1960

Card 3/3

42095

S/166/62/000/005/007/008
B108/B186

AUTHOR: Arushanov, G. G.

TITLE: The elastic scattering of high-energy protons

PERIODICAL: Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 5, 1962, 87-88

TEXT: The cross section of proton-proton elastic scattering ($E > 1$ Bev) with two-meson exchange is estimated. It is assumed that the principal process is the excitation of two spin-1 pions. A formal B particle is associated with the excited pion state. The differential scattering cross section is then $\sigma(\theta) \simeq \frac{a_2^2}{4\pi} \frac{2}{ME(1-\cos\theta+\delta_2)^2}$, where $\delta_2 = \frac{\mu_2^2}{ME}$, μ is the pion mass, μ_2 is the mass of the B particle, M is the proton mass, E is the kinetic energy of the incident proton in the laboratory system, θ is the scattering angle in the c. m. s. Calculations were made with the values

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(1) $a_2^2/4\pi = 1.7$, $\mu_2 = 4.5\mu$; (2) $a_2^2/4\pi = 0.775$, $\mu_2 = 3\mu$. The above formula, in particular for the case (2), gives quite a good approximation to the experimental values. At wide scattering angles, the theoretical values are greater than the experimental. This discrepancy can be reduced somewhat by considering that the experimental data for wide angles are somewhat too small. There are 2 figures,

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UzSSR (Physicotechnical Institute AS UzSSR)

SUBMITTED: March 26, 1962

S/056/62/043/005/023/058
B102/B104

AUTHOR: Arushanov, G. G.

TITLE: Possible role of vector mesons in elastic scattering of high-energy pions and protons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1709-1711

TEXT: On applying the single-meson approximation to inelastic πp and pp collisions at high energies one obtains very small cross sections. Here the contribution of the pole diagram due to exchange of one vector particle (B) to πp and ππ elastic scattering is calculated for energies above 1 Bev. The interaction of the field of B with the fields of p or π is described by

$$a:\bar{\psi}(x)\,\gamma_\mu\,\psi(x)\,B_\mu(x):,$$
$$c:\left(\varphi^+(x)\frac{\partial\varphi(x)}{\partial x_\mu}-\frac{\partial\varphi^+(x)}{\partial x_\mu}\varphi(x)\right)B_\mu(x):. \qquad (1)$$

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and the differential elastic scattering cross sections are

$$\sigma_{pp}(0) = \left(\frac{a^2}{4\pi}\right)^2 \frac{2(1+\gamma)^2}{m^2\gamma^2(\gamma+2)} \frac{1}{(1-\cos\theta+\delta)^2},$$
$$\sigma_{np}(0) = \frac{a^2}{4\pi}\frac{c^2}{4\pi}\frac{1+2\gamma}{m^2\gamma^2}(1-\cos\theta+\delta')^{-2},$$
$$\sigma_{\pi\pi}(0) = \left(\frac{c^2}{4\pi}\right)^2 \frac{2}{m\mu\gamma}(1-\cos\theta+\delta'')^{-2}, \qquad (2)$$

$$\gamma = \frac{E_{\text{кин}}}{m}, \quad \delta = \frac{\mu_2^2}{m^2\gamma}, \quad \delta' = \frac{\mu_2^2(1+2\gamma)}{2m^2\gamma^2}, \quad \delta'' = \frac{\mu_2^2}{\mu m\gamma},$$

where m, μ and μ_2 are the rest masses of p, π and B, $E_{кин}$ is the kinetic energy of the incident particle in the laboratory system and θ is the c. m. s. scattering angle. The energy-independent total cross sections obtained by integrating (2) and by adding σ_{el} and σ_{inel} are

Possible role of vector mesons in ...

$$\sigma_{el}(pp) = \left(\frac{a^2}{4\pi}\right)^2 \frac{4\pi}{\mu_2^2}, \qquad \sigma_{el}(\pi p) = \frac{a^2}{4\pi}\frac{c^2}{4\pi}\frac{4\pi}{\mu_2^2},$$
$$\sigma_{el}(\pi\pi) = \left(\frac{c^2}{4\pi}\right)^2 \frac{4\pi}{\mu_2^2}, \qquad \sigma_t(pp) = \frac{2a^2}{\mu_2^2}, \qquad (3).$$
$$\sigma_t(\pi p) = 2ac/\mu_2^2, \qquad \sigma_t(\pi\pi) = 2c^2/\mu_2^2.$$

These cross sections depend greatly on a, c and μ_2; this dependence is eliminated in the relations

$$\sigma_{el}(\pi p) = \sqrt{\sigma_{el}(\pi\pi)\,\sigma_{el}(pp)}, \qquad \sigma_t(\pi p) = \sqrt{\sigma_t(\pi\pi)\,\sigma_t(pp)},$$
$$\sigma_t(\pi p)/\sigma_t(pp) = \sqrt{\sigma_{el}(\pi p)/\sigma_{el}(pp)}. \qquad \ldots \qquad (4),$$

the latter of which agrees with experimental results within the limits of error. The first two relations can be used for estimating the $\pi\pi$ inter-

Card 3/5

action cross section provided the pp and πp cross sections are known. With $\sigma_{el}(pp) = 10$ mb, $\sigma_{el}(\pi p) = 7$ mb, $\sigma_t(pp) = 40$ mb, $\sigma_t(\pi p) = 28$mb one obtains $\sigma_{el}(\pi\pi) = 5$ mb and $\sigma_t(\pi\pi) = 20$ mb. The differential and total cross sections were calculated from Eqs. (2), (3) with $a^2/4\pi = 0.775$, $c^2/4\pi = 0.388$ and $\mu_2^2 = 8.85\,\mu^2$; further

$$\begin{cases} \sigma_{el}(pp) = 15 \text{ mb} & \sigma_{el}(\pi p) = 7.5 \text{ mb} & \sigma_{el}(\pi\pi) = 4 \text{ mb} \\ \sigma_t(pp) = 40 \text{ mb} & \sigma_t(\pi p) = 28 \text{ mb} & \sigma_t(\pi\pi) = 20 \text{ mb} \end{cases}$$

For elastic pp scattering at 3 and at 8.5 Bev and for elastic $\pi^- p$ scattering at 5 and at 6.65 Bev the theoretical are compared with experimental results, and the agreement is good. [Abstracter's note: Essentially complete translation.] There is 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Uzbekskoy SSR (Physicotechnical Institute of the Academy of Sciences Uzbekskaya SSR)

Possible role of vector mesons in ... S/056/62/043/005/023/058
B102/B104

SUBMITTED: April 19, 1962

Card 5/5

AZIMOV, S.A.; ARUSHANOV, G.G.; YULDASHEV, A.A.

High-energy proton-proton scattering. Izv. AN Uz. SSSR. Ser. fiz. mat.nauk 6 no.2:76-81 '62. (MIRA 15:9)

1. Fiziko-tekhnicheskiy institut AN UzSSR.
(Protons--Scattering)

ARUSHANOV, G.G.

Elastic scattering of high-energy protons. Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 6 no.5:87-88 '62. (MIRA 15:11)

1. Fiziko-tekhnicheskiy institut AN UzSSR.
(Protons—Scattering)

S/058/63/000/003/023/104
A062/A101

AUTHOR: G. G. Arushanov

TITLE: On the approximation of the differential cross-section of elastic scattering of high-energy particles

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 33, abstract 3V229 ("Dokl. AN UzSSR", 1962, no. 8, 17 - 19, summary in Uzbek language)

TEXT: For problems related to the passage of fast particles through matter, where it is necessary to know the angular distribution of elastically scattered particles at high energies, the author proposes simple interpolation formulae, connecting the differential cross-section of elastic scattering to the total cross-sections σ_{el} and σ_{tot}. In particular, for πN and NN scattering the following formula takes place:

$$\sigma(\theta) = \left(\frac{k\sigma_t}{4\pi}\right)^2 \left[1 + (1-\cos\theta)^2 \left(\frac{32\sigma_{el}}{k^2\sigma_t^2}\right)^{-2}\right]^{-2} \qquad (1)$$

(wherein k, θ are the momentum and the scattering angle in the center-of-mass

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On the approximation of the...

system). This formula is in good agreement with experimental data in the energy range ~1 - 10 BeV. In the same range of energies also an entire series of correlations of the type (1) is obtained in an equally good agreement with the experiment.

M. T.

[Abstracter's note: Complete translation]

Card 2/2

ARUSHANOV, G.G.

Possible role of vector mesons in the elastic scattering of high-energy π-mesons and protons. Zhur. eksp. i teor. fiz. 43 no.5:1709-1711 N '62. (MIRA 15:12)

1. Fiziko-tekhnicheskiy institut AN Uzbekskoy SSR.
(Mesons—Scattering) (Protons—Scattering)

L 17315-63 EWT(m)/BDS AFFTC/ASD

ACCESSION NR: AP3005531 S/0166/63/000/003/0021/0022

54
53

AUTHORS: Asimov, S. A.; Arushanov, G. G.; Yuldashev, A. A.

TITLE: Elastic high energy pp-scattering 19

SOURCE: AN ArmSSR. Izv. Ser. tekhn. nauk, no. 3, 1963, 21-22

TOPIC TAGS: elastic scattering, cross section, imaginary plane

ABSTRACT: A brief analysis has been made to determine the behavior of the imaginary and real parts of elastic pp-scattering amplitudes in the energy interval 2-28 BeV. The equations used are:

$$\frac{ReF(s,t)}{\sigma_{tot}} = -\sqrt{F(t)}\left(\frac{s}{2m^2}\right)^{l(0)-1}\cdot\cos\frac{\pi}{2}l(t)$$

$$\frac{ImF(s,t)}{\sigma_{tot}} = \sqrt{F(t)}\left(\frac{s}{2m^2}\right)^{l(0)-1}\cdot\sin\frac{\pi}{2}l(t) \qquad (1)$$

where s = square of total energy of scattered particle in center of mass system

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L 17315-63

ACCESSION NR: AP3005531

t = square of 4-impulse transfer

m = mass of proton

σ total = total cross section

ℓ (t) = monotonically decreasing function

Experimental values for ℓ (t) and F(t), obtained by A. N. Diddens, E. Lillethun et al (Phys. Rev. Lett. 9, 111, 1962) are used to plot $ReF(s,t)/\sigma_{total}$ and $ImF(s,t)/\sigma_{total}$ against $\sqrt{-t}$. These are plotted in Fig. 1 (see Enclosure 1). Orig. art. has: 2 formulas and 1 figure.

ASSOCIATION: Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics, Academy of Sciences, Uzbek SSR)

SUBMITTED: 26Feb62 DATE ACQ: 20Aug63 ENCL: 01

SUB CODE: PH NO REF SOV: 008 OTHER: 004

Card 2/32

ACCESSION NR: AP4025898 S/0166/64/000/001/0061/0065

AUTHOR: Arushanov, G. G.

TITLE: Analysis of Compton scattering at the proton according to the isobar model

SOURCE: AN UzSSR. Izv. Seriya fiziko-matematicheskikh nauk, no. 1, 1964, 61-65

TOPIC TAGS: Compton scattering, isobar model, photon-proton interaction, differential scattering cross section

ABSTRACT: The proton Compton effect for photon energies between 0.2 and 1 Bev is considered on the basis of the isobar model. Calculated values of the differential cross section for photons scattered at 90° in the center of inertia system by protons are plotted as a function of photon energy. These values are in good agreement with experimental values in the range 0.2-0.4 Bev. The angular dependence (in the center of inertia system) of the differential cross section is also plotted for photon energies of 250, 320, and 750 Mev. Orig. art. has: 34 equations and 5 diagrams.

ASSOCIATION: Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics AN

Card 1/2

SOV/112-59-18-39518

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 18, p 202 (USSR)

AUTHOR: Arushanov, G.S.

TITLE: Investigation of the Electrooptical Properties of Crystals for Modulation of Light

PERIODICAL: Tr. Vses. n.-i. kinofoto in-ta, 1958, Nr 7 (17), pp 24 - 47

ABSTRACT: Results are given of the development of a crystalline light modulator for sound recordings, the operation of which is based on the phenomenon of double refraction of light in crystals under the effect of electric fields.

Card 1/1

ARUSHANOV, G. S., Candidate Tech Sci (diss) -- "Investigation of the electro-optical properties of crystals for light modulation". Moscow, 1959. 12 pp (Min Culture USSR, All-Union Sci Res Cinephotographic Inst "NIKFI"), 150 copies (KL, No 24, 1959, 134)

L 13041-66 EWT(1)/T IJP(c)

ACC NR: AT6001386 SOURCE CODE: UR/3180/64/009/000/0033/0036

AUTHOR: Valyus, N. A.; Arushanov, G. S.; Generalova, V. P.

ORG: None

TITLE: A high-speed photographic recording device with fiber optics and an electron-optical converter

SOURCE: AN SSSR. Komissiya po nauchnoy fotografii i kinematografii. Uspekhi nauchnoy fotografii, v. 9, 1964. Vysokoskorostnaya fotografiya i kinematografiya (High-speed photography and cinematography), 33-36

TOPIC TAGS: fiber optics, high speed photography, motion picture photography, electrooptic camera

ABSTRACT: The authors describe a new high-speed photographic recording device capable of taking 10^{10} frames per second. The design of this device is radically different from that of presently used high-speed motion picture cameras and photographic recorders. A new method is used for scanning the exposed frame and transferring it to the sensitized material. A schematic of the unit is shown in Figure 1. Lens L projects an image of object 0 onto the input end of optical cell C. The cell transforms the image into a single line which falls onto

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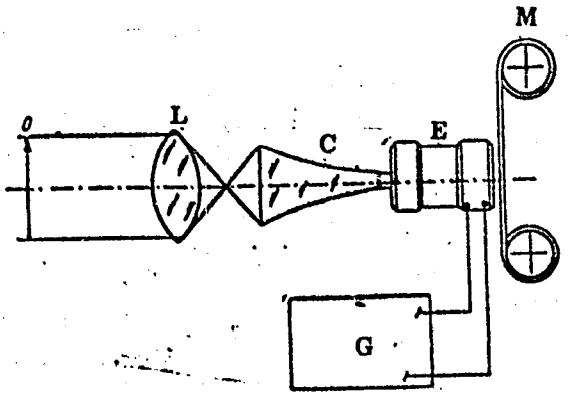

Figure 1. Schematic diagram of the high-speed photographic recording device with fiber optics and electron-optical converter

the light-sensitive screen of electron-optical converter E. Special scanning signals from generator G are used for moving the image lines along the input screen of the electron-optical converter at a rate of 10^{10} lines per second. Sensitized material M records a photographic image of the lines on the output screen of the converter. The optical cell is made up of glass fibers which serve as light pipes. These fibers are arranged at the input of the cell in lines placed horizontally one over another similar to the scanning lines on a TV screen. At the output of the cell, these same lines are arranged one after another in a single line with

L 13041-66

ACC NR: AT6001386

a thickness equal to the outside diameter of the glass fibers which make up the cell, the upper line first, the one under it second, etc. Under normal conditions, more than 3000 lines may be photographed on a single 9 x 12-cm plate. A decoder reverses the recording process. The light is converted to a line by a cylindrical lens, and the image formed by the lens may be projected onto a screen or photographically printed. Orig. art. has: 3 figures. [08]

SUB CODE: 14, 20 / SUBM DATE: none/ ATD PRESS: 4181

Card 3/3

ARUSHANOV, Konstantin Sergeyevich; CHKHUKVISHVILI, I.I., red.

[Canning industry of Georgia] Konservnaia promyshlennost' Gruzii. Tbilisi, Izd-vo Soiuza pisatelei Gruzii "Zaria vostoka," 1959. 11 p. (MIRA 17:2)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR. Pavil'on Gruzinskoy SSR.

ALIKHANOV, F.N.; ARUSHANOV, N.A.; AKHUNDOV, V.Yu.; ALIZADE, M.A.; AZIZBEKOV, Sh.A.; BAGIROV, M.A.; VEZIROV, S.A.; VOLOBUYEV, V.R.; BEKILOV, F.M.; GADZHIYEV, N.M.; GUSEYNOV, D.M.; GUSEYNOV, I.A.; DADASHEV, K.K.; DADASHZADE, M.A.; DALIN, M.A.; ISKENDEROV, M.A.; KAZIYEV, M.A.; KARAYEV, A.I.; KASHKAY, M.S.; KEL'DYSH, M.V.; KERIMOV, A.G.; LEMBERANSKIY, A.D.; MAMEDOV, G.K.; MEKHTIYEV, M.R.; MIRZOYEV S.A.; NAGIYEV, M.F.; NESRULLAYEV, N.I.; ORUDZHEV, A.K.; RADZHABOV, R.A.; RUDNEV, K.N.; SADYKHOV, R.N.; SEMENOV, N.N.; TOPCHIYEV, A.V.; TOPCHIBASHEV, M.A.; TAIROVA, T.A.; KHALILOV, Z.I.; EFENDIYEV, G.Kh.; SHUKYUROVA, Z.Z.

IUsif Geidarovich Mamedaliev; obituary. Dokl. AN Azerb. SSR 17 no.12:1123-1126 '61. (MIRA 15:2)
(Mamedaliev, Iusif Geidarovich, 1905-1961)

ARUSHANYAN, E.B.

Effect of morphine and nalorphine on the content of labile phosphorus compounds in the brain. Biul.eksp. biol. i med. 51 no.1:60-63 Ja '61. (MIRA 14:5)

1. Iz kafedry farmakologii (ispolnyayushchiy obyazannosti zaveduyushchego doktor meditsinskikh nauk A.V.Val'dman) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Zakusovym.

(MORPHINE) (NALORPHINE) (BRAIN)
(PHOSPHORUS METABOLISM)

ARUSHANYAN, E.B.

Effect of hypoglycemia on certain forms of inhibition of the knee-jerk reflex. Fiziol. zhur. 47 no.4:510-516 Ap '61. (MIRA 14:6)

1. From the Pharmacology Chair, Pavlov 1st Medical Institute, Leningrad.

(BLOOD SUGAR) (REFLEXES)

ARUSHANYAN, E. B.

Dissertation defended at the Institute of Physiology imeni I. P. Pavlov for the academic degree of Candidate of Medical Sciences:

"Mechanism of the Effect of Analgesics of Processes of Central Inhibition."

Vestnik Akad Nauk, No. 4, 1963, pp. 119-145

SHAPOVALOV, A.I.; ARUSHANYAN, E.B.

Effect of cerebellar stimulation on the activity of the motor and intermediate neurons of the spinal cord in intracellular leads. Biul. eksp. biol. i med. 56 no.11:3-10 O [i.e. N] '63.
(MIRA 17:11)

1. Iz kafedry farmakologii (zav. - prof. A.V. Val'dman) I Leningradskogo meditsinskogo instituta imeni Pavlova. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Zakusovym.

SHAPOVALOV, A.I.; ARUSHANYAN, E.B.

Effect of strychnine on the activity of motor and intermediate neurons of the spinal cord during stimulation of the anterior lobe of the cerebellum. Biul. eksp. biol. i med. 54 no.12:3-10 D '62. (MIRA 17:11)

1. Kafedra farmakologii (zav. - prof. A.V. Val'dman) I Leningradskogo meditsinskogo instituta.

SHAPOVALOV, A.I.; ARUSHANYAN, E.B.

Effect of stimulants and depressants on the activity of single neurons of the spinal cord following stimulation of the cerebellum. Biul. eksp. biol. i med. 57 no. 2:73-77 F '64. (MIRA 17:9)

1. Kafedra farmakologii (zav. - prof. A.V.Val'dman) I Leningradskogo meditsinskogo instituta imeni Pavlova. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Zakusovym.

ARUSHANYAN, E.B.

Mechanism of the action of analgesics on some segmental inhibition reactions. Farm. i toks. 27 no.3:268-272 My-Je '64.
(MIRA 18:4)

1. Kafedra farmakologii (zav. - prof. A.V.Val'dman) I Leningradskogo meditsinskogo instituta imeni akademika Pavlova.

ARUSHANYAN, E.B.; BELOZERTSEV, Yu.A.

Effect of adrenaline and aminazine on the inhibition of spinal reflexes. Fiziol. zhur. 50 no.5:580-586 My '64.
(MIRA 18:2)

1. Kafedra farmakologii Meditsinskogo instituta, Chita.

SHAPOVALOV, A.I.; ARUSHANYAN, E.B.

Effect of the stimulation of the brainstem and motor cortex on the activity of neurons of the spinal cord. Fiziol. zhur. 51 no.6:670-680 Je '65. (MIRA 18:6)

1. Institut evolyutsionnoy fiziologii i biokhimii imeni Sechenova AN SSSR, Leningrad.

L 28051-66

ACC NR: AP6018173 SOURCE CODE: UR/0239/65/051/006/0670/0680

AUTHOR: Shapavalov, A. I.; Arushanyan, E. B. 27 B

ORG: Institute of Evolutionary Physiology and Biochemistry im. I. M. Sechenov, AN SSSR, Leningrad (Institut evolyutsionnoy fiziologii i biokhimii AN SSSR)

TITLE: Effects of stimulation of the brain 22 stem and motor cortex on the activity of spinal neurons

SOURCE: Fiziologicheskiy zhurnal, v. 51, no. 6, 1965, 670-680

TOPIC TAGS: neuron, brain, neurophysiology, electrophysiology

ABSTRACT: The activity of spinal motor neurons of the 7th lumbar segment upon irritation of various regions of the bulbar division of the medulla oblongata, the pons varolii, and the motor cortex was studied in experiments on cats. Cell potentials of the neurons were determined by methods described in earlier work by Shapovalov. Inhibition of the Activity of motor neurons generally took place against the background of hyperpolarization, while activation (development of action potentials) was associated with depolarization. Under the effect of strychnine, inhibition accompanying hyperpolarization of the neurons was weakened, whereas corazole stimulated release (activation) reactions of supersegmented structures without reducing inhibition effects on neurons. Orig. art. has: 1 table and 6 figures. [JPRS]

Card 1/1 SUB CODE: 06/ SUBM DATE: 22Jan64/ ORIG REF: 005/ OTH REF: 022 UDC: 612.832

ARUSHANYAN, K.

Efficiency promoters of the Erivan Aluminum Plant. Prom.Arm. 5 no.9:39-40 S '62. (MIRA 15:9)

1. Nauchal'nik Byuro po delam ratsionalizatsii i izobretatel'stva Yerevanskogo alyuminiyevogo zavoda.
(Erivan—Aluminum industry) (Efficiency, Industrial)

ARUSHANYAN, K.

Innovators' quests are successful. Prom.Arm. 6 no.12:35-36 D '63.
(MIRA 17:2)

1. Nachal'nik byuro po matsionalizatsii i izobretatel'stvu Yerevanskogo alyuminiyevogo zavoda.

ARUSHANYAN, Sh.

The rapid development of socialist Armenia. Komm.Vooruzh.Sil 1 no.17:52-55 S '61. (MIRA 14:8)

1. Predsedatel' Presidiuma Verkhovnogo Soveta Armyanskoy SSR.
(Armenia--Economic conditions)

ARUSHYUNOV, A.I.

Certain new problems in the study of intracranial hypertension in cerebral tumors. Vopr. neirokhir. 16 no. 3:35-39 May-June 1952. (CLML 22:5)

1. Professor. 2. Of the Institute of Neurosurgery (Director -- Prof. A. I. Arutyunov), Ministry of Public Health Ukrainian SSR, Kiev.

ARUSOO, K.

Development of the concept of train'ng in swimming. (Conclusion). p. 410

KEHAKULTUUR. (KEHAKULTUURI-JA SPORDIKOMITEE) Tallinn, Estonia.
Vol. 20, no. 13, July 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 12, Dec. 1959
Uncl.

ARUSTAMOV, A. A.

Arustamov, A. A. "Mineralogy of the Liassic rocks of Migorilya and North Osetiya (Bol'shoy Kavkaz)," Uchen. zapiski (Leningr. gos. ped. in-t im. Gertsena), Vol. LXXII, 1948, p. 181-94

SO: U-3566, 15 March, 53, (Letopis 'Zhurnal 'nyph Stately, No. 14, 1949)

ARUSTAMOV, A. A.

Metamorphism of the Flyschoid Formation of the Upper Silurian on the North Slope of the Nurata Mountain Range Zap. Uzbekistanskogo otd. Vses. mineralog. ob-va, No 3, 1953, 43-69

The basic types of rocks of the flyschoid strata are shales, siltstone, and carbonate rocks. The shales predominate over all the other rocks. The most interesting rocks turned out to be andalusite (rose-colored), staurolite (gold-yellow), iolite in chlorite-micaceous schists, and vesuvian (anomalous). (RZhGeol, No 1, 1954)

SO: W-31128, 11 Jan 55

ANDSTAKOV, A. A.

"Some Results of a Lithological Investigation of the Flyshoid Formation of the Upper Silurian of Kurate Mountain Range," Tr. In-ta geol. AN UzSSR, No 9, pp 206-217, 1953

On the basis of granulometric composition and of structural and textural peculiarities in the flyshoid layer, the author distinguished pelite shales, siltstone-pelites (partially schistose), carbonate rocks (partially schistose), and pettumy. There were no sandy deposits in the flyshoid layer, contrary to the opinion of earlier investigators. Most widespread are pelite shales. With increase in the quality of sericite, which is the product of transformation of clays, the pelite shales become phyllitized and phyllitic. The shales and schistose limestones are frequently enriched with graphitocarbonaceous substances. The author gives tables of granulometry, chemical composition, and coefficients of sphericity of the grains. (RZhGeol, No 4, 1955)

Sum. No. 681, 7 Oct 55

ARUSTAMOV, A.A.

Lithological study of the upper Silurian flyshlike formation in the Mura-Tau. Trudy Inst.geol.Ak Uz.SSR no.9:206-217 '53.
(MIRA 12:1)

(Mura-Tau--Rocks, Sedimentary)

ARUSTAMOV, A.A.

Disintegration and contrast of profiles of the Silurian Flysch-like formation on the northern slope of Mura-Tau. Trudy Inst.geol.AN Uz.SSR no.11:117-127 '54.
(MLRA 8:9)

(Mura-Tau--Geology, Stratigraphic)

15-57-4-4537

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, pp 77-78 (USSR)

AUTHOR: Arustamov., A. A.

TITLE: The Upper Silurian Siliceous Rocks of Nura-Tau (O verkhnesiluriyskikh kremnistykh porodakh Nura-Tau)

PERIODICAL: UzSSR fanlar akad. akhboroti, Izv. AN UzSSR, 1956, Nr 3, pp 59-66.

ABSTRACT: The Upper Silurian flysch beds of Nura-Tau are composed of low-grade metamorphosed (phyllite stage) shales, mudstones, limestones, and silicified hornfels (silicified rocks in which in the metamorphism, all the opal and chalcedony were recrystallized and completely converted to quartz). The silicified hornfels is frequently taken for a hydrothermally altered rock occurring in a fault zone. All the Upper Silurian rocks contain more or less authigenic silica and have been enriched in carbon substances with which some elements

Card 1/2

15-1957-10-13893

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 73 (USSR)

AUTHOR: Arustamov, A. A.

TITLE: The Petrogenetic Role of Carbonaceous Material (O petrogeneticheskoy roli uglerodistogo veshchestva)

PERIODICAL: Dokl. AN UzSSR, 1956, Nr 7, pp 9-12 (Summary in Uzbeg)

ABSTRACT: Carbonaceous material is finely disseminated through all the flysch deposits of late Silurian age in Nura-Tau, but the quantity increases sharply in finely dispersed rocks (up to several per cent). Several synthetic elements belonging to the iron family are closely associated with the carbonaceous material. During assimilation of sedimentary rocks by magma, the carbonaceous material is incorporated in the melt, where it becomes an active reducing agent. All the iron, which occurs predominantly in the oxidized state, goes into such minerals as biotite, hornblende and, in part, almandite. An excess of carbon is developed in the magma which,

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The Petrogenetic Role of Carbonaceous Material

migrating into the exogene contact zone, contributes to the formation of graphite-mica hornfels and schist, and also facilitates the growth of biotite, hornblende and, in part, almandite.

Card 2/2

S. P. Bryzgalina

ARUSTAMOV, A. A., Doc Geol-Min Sci -- (diss) "Silurian flysch of Nura-Tau." Len, 1958. 23 pp (Len Order of Lenin State Univ im A. A. Zhdanov), 150 copies. List of author's works, pp 22-23 (13 titles) (KL, 35-58, 106)

ARUSTAMOV, A.A.; NIKIFOROV, N.A.

Lithologic characteristics of the Paleozoic on the northern slopes of the Katran Mountains. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 2 no.9:131-139 '60. (MIRA 14:7)
(Katran Mountains—Rocks, Sedimentary)

ARUSTAMOV, A.A.

Pre-Cambrian age of crystalline schists in the southern Nura-Tau (southern Tien Shan). Sov. geol. 3 no. 11:151-155 N '60.
(MIRA 13:12)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya.
(Nura-Tau--Schists)

ARUSTAMOV, A.A.

Paleomorphism of sedimentary rocks. Trudy SNIIGGIMS no.13:57-64 '60. (MIRA 16:2)

(Rocks, Sedimentary) (Metamorphism (Geology))

LEBEDEV, I.V., otv.red.vypuska; KAS'YANOV, M.V., glavnyy red.; GURARI, F.G., zamestitel' glavnogo red.; AMSHINSKIY, N.N., red.; ARUSTAMOV, A.A., red.; DERBIKOV, I.V., red.; KAZARINOV, V.P., red.; KALUGIN, A.S., red.; MALIKOV, B.N., red.; MIKUTSKIY, S.P., red.; ROSTOVTSEV, N.N., red.; SUKHOV, S.V., red.; TESLENKO, Yu.V., red.; UMANTSEV, D.F., red.; SAFRONOVA, I.M., tekhn.red.; RAGINA, G.M., vedushchiy red.

[Biostratigraphy of Mesozoic and Tertiary sedimentsin Western Siberia] Biostratigrafiia mezozoiskikh i tretichnykh otlozhenii Zapadnoi Sibiri. Moskva, Gostoptekhizdat. Vol. 1. 1962. 590 p. Vol. 2. [Atlas of paleontological plates and their explanations] Atlas paleontologicheskikh tablits i ob"iasneniia k nim. 1962. 128 plates. (Its Trudy, no.22). (MIRA 17:4)

ARUSTAMOV, A.A.; FISHMAN, I.L.

Rare earth mineralization connected with the metamorphism of basic effusives. Trudy Lab. paleovulk. Kazakh. geol. un. no.2: 211-218 '63.

Transvaporization or metamorphism? Ibid.:219-224

1. Kazakhskiy institut mineral'nogo syr'ya. (MIRA 17:11)

ARUSTAMOV, A.A.

Theory of sedimentation and the method of lithological-formational analysis. Lit. i pol. iskop. no.6:159-172 N-D '64.

(MIRA 18:3)

1. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo syr'ya g. Alma-Ata.

ARUSTAMOV, A.L.

Discovery of a specimen of the genus Solarium in the Albian deposits of southern Kopet-Dag. Izv.AN Turk.SSR.Ser.fiz.-tekh.,khim.i geol.nauk. no.3:123-124 '62. (MIRA 16:5)

1. Institut geologii AN Turkmenskoy SSR.
(Kopet-Dag--Gastropoda, Fossil)

Country : USSR
Category : Farm Animals.
Domestic Birds. Q-4
Abs. Jour : Ref Zhur-Biol., No 16, 1958, 74148

Author : Arustamov, A. K.
Institut. : --
Title : Raising of Chicks on Deep-Layer Bedding in the Kolkhozes of the Samarkandskaya Oblast'.

Orig Pub. : Ptitsevodstvo, 1957, No 9, 27-28

Abstract : No abstract.

Card: 1/1

AUTHOR: Arustamov, A.P. SOV/92-58-6-21/30

TITLE: An Important Factor in Raising Labor Productivity (Vazhnyy rezerv povysheniya proizvoditel'nosti truda)

PERIODICAL: Neftyanik, 1958, Nr 6, pp 25-26 (USSR)

ABSTRACT: In order to boost labor productivity and to cut production costs it is necessary, in the opinion of the author, to widen the field of specialization of various petroleum workers. The narrow specialization of workers, which exists in various branches of industry, hinders the increase of labor productivity. There is no doubt that the labor force cannot be efficiently utilized when there are a large number of workers who are only able to perform one specific job in their narrow specialization. Therefore it is highly advisable to revise the qualification range of drillers and other petroleum workers, and to widen their specialization. It is unsatisfactory for a crew specializing in rotary or turbine drilling to be unable to perform electrical drilling or structural drilling. The unification of different related professions would reduce the idle time of workers and increase their responsibility for the quality of work. A number of leading enterprises in the petroleum industry are already taking advantage of the skill of workers having two or three professions. Such workers are usually, better paid. According to the forecast of

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An Important Factor in Raising (Cont.) SOV/92-58-6-21/30

various drilling offices, operating under the Azmornefterazvedka Trust, the combination of professions will make it possible to release a considerable number of specialists and to assign them to other jobs. The author gives several examples of savings achieved due to reassignment of workers able to perform the job in the field related to their primary specialization. The importance of this aspect of work organization has been underrated and the management of various petroleum enterprises should make an effort to train their personnel in fields related to their specialization. In this way they can widen the scope of their skill.

1. Petroleum industry—USSR 2. Petroleum—Costs 3. Industrial training—USSR 4. Personnel—Performance

Card 2/2

11(4)

PHASE I BOOK EXPLOITATION SOV/2925

Baku. Azerbaydzhanskiy nauchno-issledovatel'skiy institut neftepererabatyvayushchey promyshlennosti imeni V. V. Kuybysheva.

Sbornik trudov, vyp. 2. (Collection of Works, No. 2) Baku, Aznefteizdat, 1958. 373 p. Errata slip inserted. 500 copies printed.

Additional Sponsoring Agency: Azerbaydzhan. Ministerstvo neftyanoy promyshlennosti.

Ed. of Publishing House: T.B. Al'tman; Editorial Board: V.S. Aliyev, Candidate of Chemical Sciences, V.S. Gutyrya, Doctor of Chemical Sciences, A.M. Kuliyev, Doctor of Chemical Sciences, N.M. Indukov, Candidate of Technical Sciences, V.Ya. Masumyan, Candidate of Chemical Sciences, F.G. Suleymanova, Candidate of Technical Sciences, A.M. Levshina, Candidate of Chemical Sciences, N.B. Al'tman, Candidate of Chemical Sciences, I.M. Orudzheva, Candidate of Technical Sciences, M.M. Melik-Zade, Candidate of Chemical Sciences.

PURPOSE: This collection of articles is intended for chemical engineers, technicians, and refiners concerned with advanced methods of petroleum conversion.

COVERAGE: The collection presents an analysis of different types of crudes extracted in Azerbaydzhan and of the products recovered from these crudes through petroleum conversion processes. The dewatering, desalting and demulsifying of crudes is described and the suitability of those crudes for the recovery of diesel fuels is discussed. Results of catalytic cracking performed over a fluidized bed synthetic catalyst and the chemical composition of gasoline produced by two-stage catalytic cracking are analyzed. Attrition and deactivation of catalysts as well as catalyst circulation in a hyperflow system are reviewed. Various lube oil additives and the production of different types of oils and of carbon black are outlined. References accompany individual articles.

Card 3/8

RRUSTAMOV A.S.

SOV/81-59-8-28908

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 8, p 497 (USSR)

AUTHORS: Masumyan, V.Ya., Daniyelyan, M.K., Aliyeva, K.I., Sultanova, Kh.M., Arustamov, A.S.

TITLE: The Preparation of Baku Petroleum for Processing

PERIODICAL: Sb. tr. Azerb. n.-i. in-t neftepererabat. prom-sti, 1958, Nr 2, pp 16 - 33 (Azerb. summary)

ABSTRACT: A comprehensive thermomechanical process has been developed for preparing Baku petroleum for processing. Desalification is carried out at a temperature of 110 - 140°C and a pressure of up to 6 atm, and the decomposition of emulsion is carried out in a mixer, where the preliminarily heated petroleum is subjected to intensive mixing. The separation of the principal mass of drill water is carried out in the first group of dehydrators. The second mixer is fed with petroleum, containing 2 - 3% of water, and washing water; as a result of vigorous mixing the salts pass into the washing water. The settling of the

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washing water is carried out in the second sections of the dehydrators, after which the petroleum is cooled and passes into the storage tank for the prepared petroleum. The method developed makes it possible to reduce the consumption of demulsifier by 55 - 60%.

M. Kol'tsov

USSR/Human and Animal Physiology - (Normal and Pathological). T
Physiology of Work and Sport. Aviation Physiology.

Abs Jour : Ref Zhur Biol., No 4, 1959, 18037

Author : Arustamov, A.S.
Inst : -
Title : On the Problem of Hypertensive Reactions in Combination With Subfebrile Temperature in Students of Summer School.

Orig Pub : Voyen.-med. zh., 1958, No 3, 64-68

Abstract : Subfebrile temperature in hypertensive reactions of neurogenic origin is one of the clinical symptoms of neurocirculatory dystonia with vasomotor reactions according to the type of hypertension and hypertensive disease of the I degree; their etyological and pathogenic similarity was noted. 4.4% of applicants were refused admission to summer school due to an increase of arterial blood pressure; hypertensive reactions in not less than 30% of cases were combined with subfebrile temperature which

Card 1/2

ARUSTAMOV, A.S.

Tv_1 Tv_6 syndrome in the diagnosis of muocardial repolarization disorders. Terap.arkh. 32 no.10:37-41 '60. (MIRA 14:1)

1. Iz kliniki propedevtiki vnutrennikh bolezney (nach. - deyistvitel'nyy chlen AMN SSSR prof. N.N. Savitskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.
(ELECTROCARDIOGRAPHY) (CORONARY HEART DISEASES)

ACC NR: AP6036350 SOURCE CODE: UR/0387/66/000/004/0091/0093

AUTHORS: Arustamov, G. A.; Malyshko, I. M.; Danilov, V. P.; Shapovalov, P. F.

ORG: VNIINK, Kishinev

TITLE: New ultrasonic defectoscopes DUK-11IM and DUK-13IM for quality control of welded joints

SOURCE: Defektoskopiya, no. 4, 1966, 91-93

TOPIC TAGS: weld defect, ultrasonic inspection, ultrasonic flaw detection, defectoscope/ DUK-11IM defectoscope, DUK-13IM defectoscope

ABSTRACT: Defectoscope models DUK-11IM and DUK-13IM, developed by VNIINK for either portable or production operation in quality control of welded joints, are described. The model 11 is packaged in one unit (197 x 278 x 330 mm, 9.8 kg), while the model 13 consists of three interconnected units (the defectoscope - 110 x 233 x 274 mm, 4 kg; the power supply and the accumulator power supply - unspecified size). Both models operate at 1.8 and 2.5 Mc, have a minimum sensitivity of 2 mm^2 (equivalent area of defect), and have straight and slanted detector heads (to introduce waves at 30, 40, and 50°). The model 11 has a maximum penetration of 750 mm (in steel) and the model 13 has 600 mm. Both are equipped with electronic depth meters to pinpoint the defect coordinates. Schematic diagrams of the operational blocks of the defectoscopes are presented, and prices of the defectoscopes are given. Orig. art. has: 4 figures and 1 table.

SUB CODE: 13/ SUBM DATE: 14Mar66

Card 1/1

UDC: 620.179.16

ARUSTAMOV, G.A. (Leningrad)

Cupulometry under the influence of Coriolis acceleration. Zhur. ush., nos. i gor. bol. 24 no.2:3-8 Mr-Ap '64 (MIRA 18:1)

1. Iz kafedry otolaringologii (nachal'nik i nauchnyy rukovoditel' zasluzhennyy deyatel' nauki prof. K.L.Khilov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

ARUSTAMOV, G. N.

ARUSTAMOV, G. N. "The Effect of the Sowing Norm on the Structure of the Spring-Wheat Harvest Under the Conditions of Ul'yanovsk Oblast." Min Higher Education USSR. Kishinev Agricultural Academy. Kiev, 1956. (Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis', No. 19, 1956

ARUSTAMOV, Kh. A.

Sbornik zadach po nachertatel'noi geometrii s resheniiami tipovykh zadach /Collection of problems in descriptive geometry with solutions to typical problems/. Izd. 3-e. Moskva, Mashgiz, 1952. 375 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 3, June 1954.

ARUSTAMOV, Kh.A.; MATVEYEVA, Ye.N., tekhnicheskiy redaktor; MODEL', B.I., tekhnicheskiy redaktor

[Collection of problems on descriptive geometry; with solutions of type problems] Sbornik zadach po nachertatel'noi geometrii; s resheniiami tipovykh zadach. Izd. 4-e. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 375 p. (MLRA 8:3)

1. Zaveduyushchiy kafedroy nachertatel'noy geometrii i chercheniya Moskovskogo Vysshego Tekhnicheskogo Uchilishcha imeni N.E.Baumana (for Arustamov)
(Geometry, Descriptive)

ABRIKOSOV, Aleksandr Aleksandrovich; ARUSTAMOV, Kh.A., dotsent, retsenzent; IVANOV, Yu.B., inzhener, redaktor; KUFIL', A.I., inzhener, redaktor; MARSHENTS, S.L., redaktor; MODEL', E.I., tekhnicheskiy redaktor

[Reading and executing mechanical drawings] Chtenie i vypolnenie mashinostroitel'nykh chertezhei. Izd.3-e, perer. i dop. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1955. 137 p.
(Machinery--Drawing) (MLRA 8:10)

ABRIKOSOV, Aleksandr Aleksandrovich; ARUSTAMOV, Kh.A., prof., retsenzent; SAVEL'YEV, Ye.Ya., red. izd-va; EL'KIND, V.D., tekhn. red.

[Reading and drafting of mechanical drawings] Chtenie i vypolnenie mashinostroitel'nykh chertezhei. Izd.4., perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 291 p. (MIRA 14:11)

(Mechanical drawing)

ARUSTAMOV, Kh.A., prof.; VASIL'YEVA, I.A., red.izd-va; MODEL', B.I., tekhn. red.

[Problems in descriptive geometry with solutions of standard problems] Sbornik zadach po nachertatel'noi geometrii s resheniiami tipovykh zadach. Izd.6. Moskva, Mashgiz, 1963. 375 p. (MIRA 16:12)

1. Zaveduyushchiy kafedroy nachertatel'noy geometrii i chercheniya Moskovskogo vysshego tekhnicheskogo uchilishcha (for Arustamov).
(Geometry, Descriptive--Problems, exercises, etc.)

ARUSTAMOV, L.; SMIRNOV, V.; VAGINA, I.; STEL'MASHCHUK, Ye.

New spark plugs. Za rul. 19 no.10:26-27 O '61.
(MIRA 14:11)

1. Nauchno-issledovatel'skiy eksperimental'nyy institut avtotraktornogo elektrooborudovaniya i priborov.
(Spark plugs)

ARUSTAMOV, L. KH.

Arustamou, L. Kh.

"Investigation of the cycle and efficiency of a T-24 diesel engine with a precombustion chamber of small relative volume." Min Higher Education USSR. Moscow Automotive Mechanics Inst, Chair of "Automobile and Tractor Engines." Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Knizhnaya letopis'
No. 25, 1956. Moscow

L 58570-65 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/EWP(t)/EPR/EPA(w)-2/T-2/
EPA(bb)-2/EWP(b) Pab-10/Pr-4/Ps-4/Pt-7 WW/WH

ACCESSION NR: AP5017868 UR/0286/65/000/011/0116/0116
621.43.04

AUTHOR: Mishkind, S. I.; Arustamov, L. Kh.; Smetnev, N. N.; Koposova, Z. L.

TITLE: A sparkplug for an internal combustion engine. Class 46, No. 171694

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 116

TOPIC TAGS: internal combustion engine, sparkplug, ignition system

ABSTRACT: This Author's Certificate introduces a sparkplug for an internal combustion engine. The device contains a housing, insulator and heating element. The useful life of the sparkplug is increased by coating the heating element with a protective film made of refractory oxides, borides or silicides.

ASSOCIATION: Nauchno-issledovatel'skiy i eksperimental'nyy institut avtomobil'nogo elektrooborudovaniya, karbyuratorov i priborov (Scientific Research and Experimental Institute of Automotive Electrical Equipment, Carburators and Instruments)

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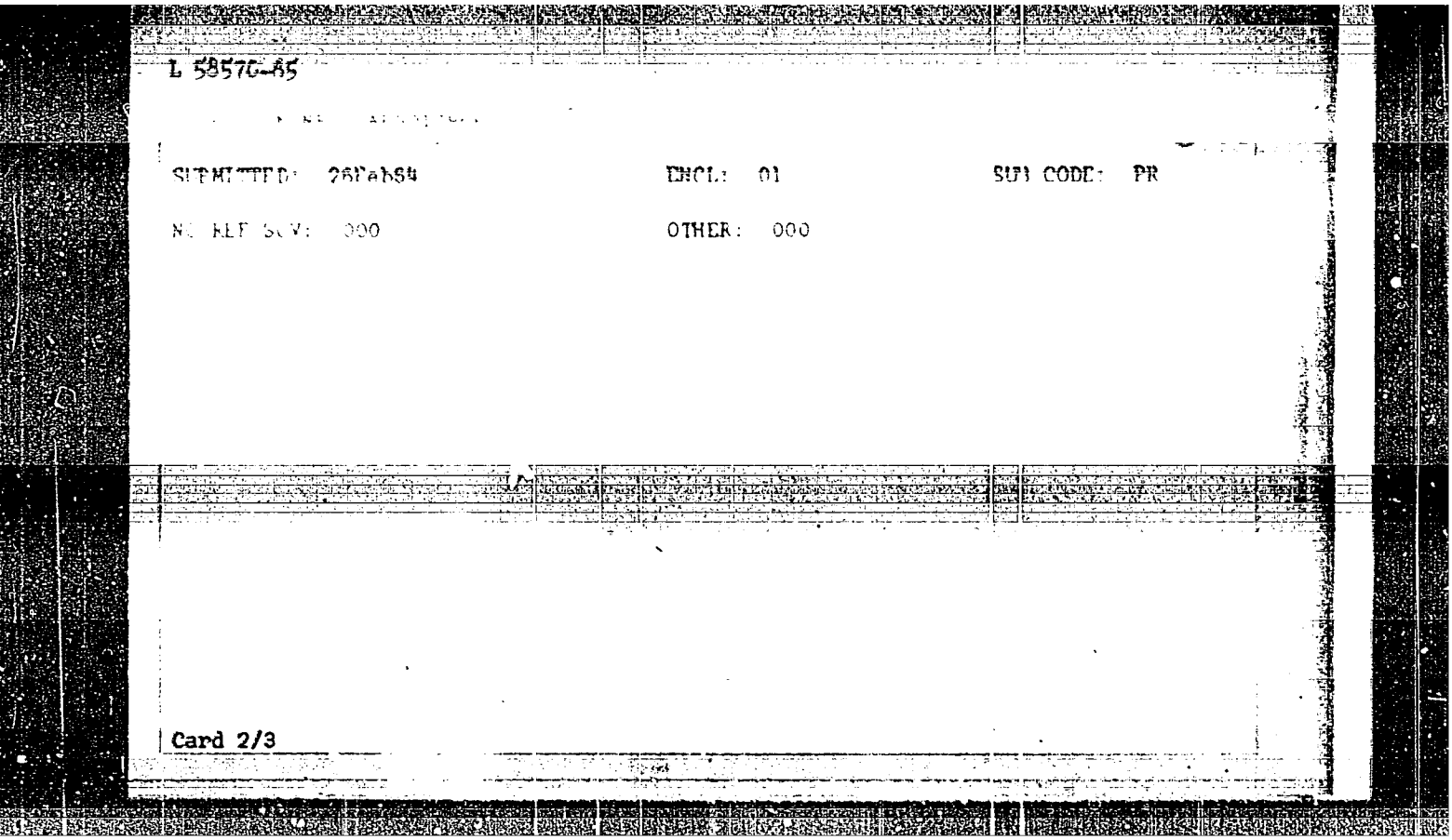

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SUBMITTED: 26Feb64 ENCL: 01 SUB CODE: PR

NR REF SOV: 000 OTHER: 000

Card 2/3

L 58570-65

ACCESSION NR: AP5017868

ENCLOSURE: 01

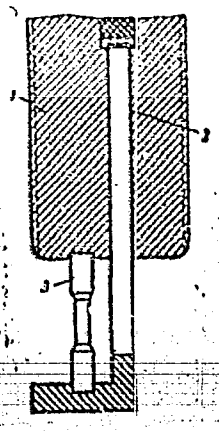

Fig. 1--housing; 2--insulator; 3--heating element

Card 3/3

ARUSTAMOV, Markar Ivanovich [deceased]; OGANESYAN, L.A., red.; KTSOYAN, A.S., red.

[Nature of fish poison] O prirode ryb'ego iada. Erevan, Izd-vo Akad.nauk Armianskoi SSR, 1958. 213 p. (MIRA 13:8)
(FISH--TOXICOLOGY)

ARUSTAMOVA, A. T.

Tuberculosis of the bronchioles in adults.

Moskva, Medgiz, 1947. 157 p.

DSG MnU

1. Bronchi - Diseases. 2. Tuberculosis.

ARUSTAMOVA, A. T.

Blood viscosity in certain cardiovascular diseases. Klin. med. 30, No. 3, 1952

SO: MIRA. September 1952.

ARUSTAMOVA, A.T.

[Diseases of the heart and blood vessels and their prevention; abstracts of lectures, supplement to a lecture series] Bolezni serdtsa i sosudov i ikh preduprezhdenie, konspekt lektsii, prilozhenie k lektorskoi papke. Moskva, Ministerstvo zdravo-okhraneniia SSSR, Institut sanitarnogo prosveshcheniia, 1957. 30 p. (MIRA 11:4)

(CARDIOVASCULAR SYSTEM--DISEASES)

ARUSTAMOVA, A.T. (Moskva)

Disseminate methods for preventing cardiovascular diseases. Med. sestra 16 no.12:20-24 D '57. (MIRA 11:1)
(CARDIOVASCULAR SYSTEM--DISEASES)

ARUSTAMOVA, A.T., kand.med.nauk (Moskva)

"Exercise therapy in heart failure" by E.A. Flerovskii, E.I. Iankelevich
Reviewed by A.T. Arustamova. Fel'd. i akush. 22 no.9:63 S'57
(MIRA 11:10)

(EXERCISES THERAPY)
(HEART FAILURE)
(FLEROVSKII, E.A.)
(IANKELEVICH, E.I.)

Arustamova, A.T.

ARUSTAMOVA, A.T., kand.med.nauk

"How to strengthen your heart" by V.F.Zelenin. Reviewed by A.T. Arustamova. Fel'd. i akush. 22 no.11:60-61 N '57. (MIRA 11:2)
(HEART) (ZELENIN, V.F.)

ARUSTAMOVA, A.T., kand.med.nauk; ZABOLOTSKAYA, L.P., kand.med.nauk (Moskva)

Problems in the prevention and treatment of cardiovascular diseases in popular science literature. Sov.med. 23 no.9:127-131 S '59. (MIRA 13:1)

(CARDIOVASCULAR DISEASES ther.)

ARUSTAMOVA, A.T. (Moskva)

"Diet in cardiovascular diseases", by K.M. Lorie and others. Reviewed by A.T. Arustamova. Fel'd i akush. 24 no.1:60-61 '59 (MIRA 12:1)

(HEART--DISEASES)
(LORIE, K.M.)

AKUSTAMOVA, A.T., kand.med.nauk (Moskva)

Prophylaxis of cardiovascular diseases and health education. Fel'd i akush. 24 no.8:47-51 Ag '59. (MIRA 12:12)
(CARDIOVASCULAR SYSTEM--DISEASES)

ARUSTAMOVA, A.T., kand.med.nauk

Everything could be otherwise. Zdorov'e 6 no.3:28 Mr '60.
(MIRA 13:5)
(MOTION PICTURES IN HEALTH EDUCATION) (ARTERIOSCLEROSIS)

ARUSTAMOVA, A.T., kand.meditsinskikh nauk (Moskva)

Prevention of rheumatic heart disease and health education. Med. sestra 19 no. 10:42-45 O '60. (MIRA 13:10)
(RHEUMATIC HEART DISEASE)

ARUSTAMOVA, A.T., kand.med.nauk (Moskva)

Studying the level of hygienic knowledge and the behavior of the public with relation to the prevention of cardiovascular diseases. Sov.zdrav. 20 no.2:10-16 '61. (MIRA 14:5)
(HEALTH EDUCATION) (CARDIOVASCULAR SYSTEM--DISEASES)

ARUSTAMOVA, A.T., kand.med.nauk (Moskva)

Effective method for the prevention of cardiovascular diseases; concerning sanitary instruction of outpatients. Med.sestra 21 no.11:56-58 N '62. (MIRA 16:3)
(CARDIOVASCULAR SYSTEM—DISEASES) (HOSPITALS—OUTPATIENTS SERVICES)

ARUSTAMOVA, F. A.

"The Problem of the Effect of Fennel, Grown in Azerbaydzhan, on Blood Circulation Organs." Cand Med Sci, Azerbaydzhan State Medical Inst, Baku, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

Arustamova, F.A.

4696. COMBATING THE FORMATION OF DUST DURING DECOKING OF CRACKING PLANTS. Marison, A.M. and Arustamova, F.A. (Trud. Vsesoyuz. nauch.-issled. Inst. Tekh. Bezopas., Minist. Neft. Prom. (Proc. Inst. Safety, Minist. Oil, Moscow), 1955, (8), 42-53; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1956, (15), 49674). Successful tests are recorded of a mobile dust collecting plant on a lorry chassis. [illegible] [illegible] and passed through a filter of metal shavings 100 mm thick.

2/3

NAGIYEV, A.M.; ARUSTAMOVA, F.A.

Controlling harmful gas escapes during the stopping of iron pyrite roasting furnaces at the Frunze sulfuric acid plant. Trudy VNIITB no.10:91-95 '58. (MIRA 15:5)
(Baku--Sulfuric acid industry--Safety measures) (Pyrite)

NACIYEV, A.M.; ARUSTAMOVA, F.A.

Decontamination of the atmosphere during the contact process.
Trudy VNIITB no.10:96-113 '58. (MIRA 15:5)
(Petroleum refineries--Safety measures) (Sulfur dioxide)
(Air--Purification)

ARUSTAMOVA, F.A.

Pharmacological investigation of some properties of the motherwort from Azerbaijan. Uch. zap. AGU. Biol. ser. no.6:66-71 '59.
(MIRA 15:5)

(AZERBAIJAN--MINT (BOTANY))

ARUSTAMOVA, Flora Avetisovna; FONGAUZ, M.I., red.

[Certain problems in industrial hygiene in petroleum refining of Azerbaijan] Nekotorye voprosy gigieny truda v neftepererabatyvaiushchei promyshlennosti Azerbaidzhanskoi SSR. Baku, Azernoshr, 1963. 51 p. (MIRA 17:7)

ARUSTAMOVA, F.A.

Study of the chemical composition of motherwort in Azerbaijan.
Izv. AN Arm. SSR. Biol. nauki 15 no.5 77-82 My '62. (MIRA 17:6)

1. Kafedra farmakologii Azerbaydzhanskogo meditsinskogo instituta, Baku.

L 18528-63 EWT(1)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3 JD/JG

ACCESSION NR: AP3005879 S/0202/63/000/004/0009/0015

65
64

AUTHOR: Sukhanov, S.; Agayev, Ya.; Arustamova, M. V.

TITLE: Hall transducers made of 4InAs·InP alloy

SOURCE: AN TurkmSSR. Izvestiya. Ser. fiziko-tekhn., khimicheskikh i geologicheskikh nauk, no. 4, 1963, 9-15

TOPIC TAGS: indium arsenide-indium phosphide Hall transducer, indium arsenide, indium phosphide, Hall transducer, Hall-transducer sensitivity, Hall-transducer temperature stability, transducer sensitivity, transducer temperature stability

ABSTRACT: A study of the basic parameters of Hall transducers made of the 4InAs·InP alloy has been conducted. Experimental specimens were 0.15 to 0.5 mm thick, 2 to 5 mm wide, and 4.5 to 12 mm long. The ohmic contacts were made by alloying In with an alloy consisting of In and 5% Ag. After polishing, all specimens were subjected to etching in a 2% boiling solution of HCl. Experimental data were obtained on the temperature dependence of electrical conductivity and the Hall constant, the resistance between input and Hall electrodes, the sensitivity, the Hall constant and the dependence of Hall voltage

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L 18528-63

ACCESSION NR: AP3005879

on applied magnetic field intensity, the dependence of a specimen output voltage on the frequency of control voltage, and the temperature stability of the transducers. The results of the study are as follows: 1) The electrical parameters of the Hall transducers considered permit their utilization for magnetic field measurement purposes in various testing equipment. 2) Because of their high thermal stability, devices based on 4InAs·InP can operate within an ambient temperature of ±100C and a wide range of atmospheric pressure and humidity. 3) A linear variation of the Hall emf as a function of the applied magne field intensity facilitates measurements of magnetic fields up to 22,000 with an accuracy of 0.5%. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Physicotechnical Institute, AN Turkmen SSR)

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Hypotensive effect of common motherwort growing in Azerbaijan under conditions of chronic experimental hypertonia in animals. Izv. AN Arm. SSR. Biol. nauki 16 no.7:47-52 Jl '63. (MIRA 16:11)

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Hall generators made from 4InAs InP. Izv. AN Turk. SSR.Ser. fiz.-tekh., khim. i geol. nauk no.4:9-15 '63. (MIRA 17:2)

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AUTHOR: Sukhanov, S.; Arustamova, M. V.

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ABSTRACT: The purpose of this paper was to examine the characteristic constant and variable magnetic fields created by controlling and Hall currents. Studies were made to 1) determine the approximate magnitude of the magnetic field, 2) to understand the effect of this field on the magnetometer probe compensator, 3) to select the optimum magnitude of the controlling current in order to measure various weak magnetic fields, and 4) to eliminate technological deficiencies which contribute to the growth of the interfering magnetic field. Astatic magnetometers and Hall generators without concentrators were used to measure the magnetic fields. As a result of the investigation, the authors found that the Hall generator magnetic fields vary within a range which far exceeds the sensitivity of a magnetometer for weak fields. It is therefore essential that magnetometers for the measurement of very

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