AYNUTDINOV, M. S.

95

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fizicheskogo
           instituta (Scientific Conference of the Moscow Engineering
           Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400
delegates participating. A review is given of these lectures that are
assumed to be of interest for the readers of Atomnaya energiya. They are
following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev,
design of accelerators for superhigh energies; I. Ya. Pomeranchuk,
analyticity, unitarity, and asymptotic behavior of strong interactions at
high energies; A. B. Migdal, phenomenological theory for the many-body
problem; Yu. D. Fiveyskiy, deceleration of medium-energy antiprotons in
matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect;
M. I. Ryazanov, theory of ionisation losses in nonhomogeneous medium;
Yu. B. Ivanov, A. A. Rukhadze, h-f conductivity of subcritical plasma;

Card 1/4

95

S/089/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fisicheskogo
              instituta (Scientific Conference of the Moscow Engineering
              Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400
delegates participating. A review is given of those lectures that are
assumed to be of interest for the readers of Atomnaya energiya. They are
following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev,
design of accelerators for superhigh energies; I. Ya. Pomeranchuk,
analyticity, unitarity, and asymptotic behavior of strong interactions at
high energies; A. B. Migdal, phenomenological theory for the many-body
problem; Yu. D. Fiveyskiy, deceleration of medium-energy antiprotons in
matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect;
M. I. Ryazanov, theory of ionisation losses in nonhomogeneous medium;
Yu. B. Ivanov, A. A. Rukhadse, h-f conductivity of subcritical plasma;

Card 1/4

AYNUTDINOV, M.S.; ZOMBKOVSKIY, S.M.; NIKITIN, S.Ya.; SELEKTRO, Ya.M.;
GRASHIN, A.F.

On $\pi\pi$-interaction in π^-p-collisions at an energy of 7.2 Bev.
Zhur. eksp. i teor. fiz. 42 no.5:1413-1415 My '62.
(MIRA 15:9)

1. Institut teoreticheskoy i eksperimental'noy fiziki.
(Mesons) (Collisions (Nuclear physics))

AYNUTDINOV, M.S.; ZOMBKOVSKIY, S.M.; NIKITIN, S.Ya.; SELEKTOR, Ya.M.

Elastic scattering of 7.2 Bev. π-mesons on protons. Zhur.
eksp. i teor. fiz. 42 no.6:1495-1498 Je '62.   (MIRA 15:9)

1. Institut teoreticheskoy i eksperimental'noy fiziki AN
SSSR.
(Mesons—Scattering)
(Protons)

AYNUTDINOV, M.S.; ZOMBKOVSKIY, S.M.; NIKITIN, S.Ya.; SELEKTOR, Ya.M.
      SHULYACHENKO, V.N.

$\pi\pi$-Interaction in multiple π-meson production in
πp-collisions. Zhur. eksp. i teor. fiz. 43 no.4:1543-1546
0 '62.   (MIRA 15:11)

1. Institut teoreticheskoy i eksperimental'noy fiziki
AN SSSR.
                              (Mesons)
                        (Nuclear reactions)

S/056/63/044/002/004/065
B102/B186

AUTHORS: Aynutdinov, M. S., Zombkovskiy, S. M., Nikitin, S. Yu.,
             Selektor, Ya. M., Shulyachenko, V. N.

TITLE: Multiple production of pions in 7.2 Bev π^-p collisions

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,
             no. 2, 1963, 413-420

TEXT: The authors here continue previous investigations (ZhETF, 1543,
1961) in which they had shown that the resonances observed in inelastic πp
collisions (cf. e.g. Phys. Rev. Lett., 6, 624, 628, 1961) play an
important part in multiple pion production. Now the angular and momentum
distributions of pions and protons are investigated for inelastic π^-p
interactions of various multiplicities. The resonances arising in three-
and four-pion systems are also studied, and the results are compared with
the statistical theory. The measurements were made in a liquid-hydrogen
bubble chamber positioned in a magnetic field of 13.5 kœ. The π^- beam
was obtained from the inner Be target of a proton synchrotron. The mean
beam energy was 7.2 Bev, the π^- momentum distribution was Gaussian with a

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Multiple production of pions ...

S/056/63/044/002/004/065
B102/B186

spread of $\approx \pm 0.8$ Bev/c. A total of 13,000 emulsion plates were scanned, and among 1590 πp interaction events found, there were 192 elastic ones. The mean multiplicity was ≈ 3.6, i.e. there were 2-, 4-, 6- and 8-pronged stars with a percentage of 36.6, 49.3, 13.2, and 0.8%, respectively; the cross-sections were 10.0, 13.5, 3.6, and 0.2 mb. The total cross-section was $\sigma_{tot} = 31.0 \pm 3.1$ mb, and $\sigma_{el} = 3.90 \pm 0.54$, $\sigma_{inel} = 27.1 \pm 0.3$ mb. For 2-, 4-, and 6-pronged stars in the c.m.s. the proton momentum distributions differ greatly, whereas the proton angular distributions and the π^- momentum distributions are more similar. The ππ-resonances arising in multiple pion production play the main role. It is assumed that in this process resonance states of three or four pions are formed, which decay into lower ones or pions. This is verified in determination of the effective masses of all possible combinations of charged pions for four-pronged stars and in an investigation of the existence of bound states with energies above 1 Bev. There are 12 figures and 2 tables.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki (Insti-
              tute of Theoretical and Experimental Physics)

SUBMITTED: July 21, 1961
Card 2/2

L 17220-63   EWT(m)/BDS AFFTC/ASD
ACCESSION NR: AP3005303   S/0056/63/045/002/0392/0394

AUTHORS: Aynutdinov, M. S.; Zombkovskiy, S. M.; Pletnikov, A. A.;
Selektor, Ya. M.; Shulyachenko, V. N.

TITLE: Elastic scattering of 3.5 BeV/c negative pions by protons

SOURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 392-394

TOPIC TAGS: elastic scattering, negative pion , proton , bubble
chamber, Regge pole trajectory

ABSTRACT: The elastic scattering of 3.5-BeV/c negative pions by
protons was investigated with the aid of a liquid-hydrogen bubble
chamber 25 cm in diameter placed in a 14 kOe field. Similar inves-
tigations in the region of the diffraction maximum are presently of
interest in order to check on the asymptotic expressions derived
with Regge-pole trajectory calculations. The differential scatter-
ing cross section is determined as a function of the square of the

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L 17220-63
ACCESSION NR: AP3005303

momentum transfer, and the resultant cross section is 50 ± 20 micro-
barns. The width of the diffraction maximum is found to be equal to
7.36 ± 0.44 (BeV/c)^2, which agrees well with data obtained at other
energies. "In conclusion, I am deeply grateful to S. Ya. Nikitin
for continuous interest in the work and to R. S. Guter for the cal-
culations. Greatly contributing to the work was the work by the
data reduction group headed by D. I. Tumanova, to whom we are sin-
cerely grateful." Orig. art. has 1 figure and 3 formulas.

ASSOCIATION: Institut teoreticheskoy i eksperimental'roy fiziki
(Institute of Theoretical and Experimental Physics)

SUBMITTED: 21May63   DATE ACQ: 06Sep63   ENCL: 00

SUB CODE: PH   NO REF SOV: 002   OTHER: 008

Card 2/2

AYNUTDINOV, M.S.; ZOMBKOVSKIY, S.M.; SELEKTOR, Ya.M.; SHULYACHENKO, V.N.

Studying $\pi\pi$-resonances in π-p-collisions at a primary
π-meson momentum of 3.5 Bev/c. Zhur. eksp. i teor. fiz. 45
no.5:1682-1684 N '63.   (MIRA 17:1)

1. Institut teoreticheskoy i eksperimental'noy fiziki.

ACCESSION NR: AP4042376   8/0056/64/047/001/0100/0106

AUTHORS: Aynutdinov, M. S.; Zombkovskiy, S. M.; Selektor, Ya. M.;
Shulyachenko, V. N.

TITLE: Inelastic interaction of 3.5-BeV/c negative pions with
protons

TOPIC TAGS: inelastic scattering, negative pi meson, pion scatter-
ing, proton scattering, resonance scattering, bubble chamber

ABSTRACT: This investigation was motivated by the growing evidence
that the statistical theory cannot explain multiple production pro-
cesses in either pion proton or proton proton collisions. The nega-
tive pion beam from the ITEF proton synchrotron was momentum-analyzed
by a deflecting magnet, collimated, and directed to a liquid-hydrogen
bubble chamber of 25 cm diameter, placed in a 14 kOe field. Particu-

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ACCESSION NR: AP4042376

lar attention was paid to two-prong stars, that is, the reactions

	$\bar{p}^{0}(\pi^{-})$	$\bar{p}^{0}(\pi^{+})$	$\bar{v}_{\perp}(\pi^{-})$	$\bar{p}_{\perp}(\pi^{+})$
Двухлучевые звезды:	500 ± 15	450 ± 15	25 ± 50	345 ± 35
Четырехлучевые звезды:	360 ± 15	—	360 ± 40	—

The angular and momentum distribution of the secondary particles
are presented. For the reaction $\pi^{-} + p \rightarrow \pi^{-} + \pi^{+} + n$ there were ob-
served two resonances with masses ~ 750 (ρ^{0} meson) and ~ 1250 (f^{0} meson)
MeV. The angular distributions of the two reactions offer evidence
in favor of the one-pion exchange mechanism. A hypothesis is ad-
vanced that simultaneous production of a ρ^{0} meson and isobars with
masses ~ 1300 MeV is possible. "The authors thank A. I. Alikhanov
for numerous useful discussions, the mathematics group headed by
R. S. Guter for the calculations, and the photograph scanning group
headed by D. I. Tumanova and N. V. Vasil'yeva." Orig. art. has: 8
figures and 2 formulas.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki

2/3

ACCESSION NR: AP4042376

(Institute of Theoretical and Experimental Physics)

SUBMITTED: 19Feb64   ENCL: 00

SUB CODE: NP   NR REF SOV: 000   OTHER: 005

3/3

AYNUTDINOV, M.S.; ZOMBKOVSKIY, S.M.; SELEKTOR, Ya.M.; SHULYACHENKO, V.N.

Studying the reaction $\pi^- + p \rightarrow 2\pi^+ + 2\pi^- + k\pi^0 + n$
at a momentum of primary π-mesons of 3.5 Bev./c. Zhur. eksp.
i teor. fiz. 47 no.1:383-385 Jl '64.   (MIRA 17:9)

1. Institut teoreticheskoy i eksperimental'noy fiziki
Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii
SSSR.

AYNUTDINOV, M.S.; VASIL'YEVA, N.V.; ZOMBKOVSKIY, S.M.; SELEKTOR, Ya.M.;
SHULYACHENKO, V.N.

Study of four-pointed stars in $\bar{p}p$-interactions at a primary
momentum of 3.5 Gev./s. IAd. fiz. 1 no.6:1071-1078 Je '65.
(MIRA 18:6)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarst-
vennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.

LUZANSKAYA, Dora Isaakovna; SHPARLINSKIY, V.M., spets. red.;
AYNZAFT, Yu.S., red.; SHESTAK, S.N., red.

[Inland-water fisheries of the U.S.S.R. (lakes, rivers,
and reservoirs); a guide] Rybokhoziaistvennoe ispol'zovanie
vnutrennikh vodoemov SSSR (ozer, rek i vodokhranilishch);
spravochnik. Moskva, Pishchevaia promyshlennost', 1965.
597 p.   (MIRA 18:7)

MARTINSEN, G.V.; AYNZAFT, Yu.S., red.; FORMALINA, Ye.A., tekhn.red.

[World fisheries; according to the data of fisheries statistics
of the Food and Agriculture Organization of the United Nations]
Mirovoe rybolovstvo; po dannym rybolovnoi statistiki FAO.
Moskva, 1959. 255 p.   (MIRA 13:7)

1. Moscow. Nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii.
                (Fisheries--Statistics)

MARTI, Yu.Yu., otv.red.; MASLOV, N.A., zam.otv.red.; ALEKSEYEV, A.P.,
    red.; VINOGRADOV, L.G., red.; DMITRIYEV, N.A., red.; ZAYTSEV,
    G.N., red.; KONSTANTINOV, K.G., red.; MUNTYAN, V.M., red.;
    CHUMAKOVA, L.S., red.; YUDANOV, I.R., red.; LANDA, N.G., red.;
    AYNZAFT, Yu.S., red.; KLYACHKO, I.I., red.; UKRAINTSEVA, D.V.,
    tekhn.red.

[Soviet fisheries investigations in North European seas]
Sovetskie rybokhoziaistvennye issledovaniia v moriakh Evro-
peiskogo Severa. Moskva, Rybnoe khoziaistvo VNIRO, 1960. 468 p.
                                                (MIRA 14:1)
1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
morskogo rybnogo khozyaystva i okeanografii. 2. Vsesoyuznyy
nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i
okeanografii (for Marti, Dmitriyev, Zaytsev). 3. Polyarnyy
nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i
okeanografii (for Maslov, Alekseyev, Yudanov).
            (Fisheries--Research)

YAKOVLEV, Lev Mikhaylovich;KOGAN, Arkadiy Solomonovich; CHULIN, N.I.,
    spetsred.; AYNZAFT, Yu.S., red.; FORMALINA, Ye.A., tekhn. red.

[Operation and repair of fishing vessel diesels] Tekhnicheskaia
ekspluatatsiia i remont dizelei rybopromyslovykh .udov. Moskva,
Rybnoe khoziaistvo, 1962. 389 p.   (MIRA 15:5)
    (Marine diesel engines--Maintenance and repair)
            (Trawls and trawling)

SOLOV'YEV, Timofey Timofeyevich; KHLATINA, Ya.S., spets. red.;
    AYNZAFT, Yu.S., red.

[Pond fishing] Vylov ryby iz prudov. Moskva, Izd-vo
"Pishchevaia promyshlennost'," 1964. 131 p.
                                            (MIRA 17:6)

SKORNYAKOV, Vladimir Il'ich; AYNZAFT, Yu.S., red.

[Sea breams and their fishing] Morskie karasi i ikh pro-
mysel. Moskva, Pishchevaia promyshlennost', 1964. 34 p.
(MIRA 17:10)

BELOVA, Antonina Matveyevna; GOLYGINA, L.N., spets. red.;
SEREBROVA, I.M., spets. red.; AYNZAVT, Yu.M., red.

[Safety measures in the fishing industry] Tekhnika bez-
opasnosti v rybnoi promyshlennosti. Moskva, Pishchevaia
promyshlennost', 1964. 268 p.   (MIRA 18:7)

SHUL'TS, M.M.; AYO, L.G.

Glass electrodes with a sodium function. Vest.Len.un. 10
no.8:153-162 Ag '55.   (MLRA 9:1)
                  (Electrodes, Glass)

Some physico-chemical properties of semiconducting glasses containing
tin and lead. A. M. Efimov, V. F. Kokorina.

New semiconducting glasses based on yellow arsenic and selenium.
L. G. Ayo, V. F. Kokorina. (Not presented).]

Report presented at the 2nd National Conference on Semiconductor Compounds,
Kishinev, 16-21 Sept 1963.

L 4245-66

ACCESSION NR: AP5018469   UR/0115/65/000/005/0049/0052
                                      681.2.087.4:543.4

AUTHOR: Karabegov, M. A.; Komrakov, Yu. I.; Ayollo, E. S.

TITLE: Some dynamic characteristics of automatic photo absorptiometers and refractometers

SOURCE: Izmeritel'naya tekhnika, no. 5, 1965, 49-52

TOPIC TAGS: absorptiometer, refractometer

ABSTRACT: An optic-density measuring system with an optic compensator acting as an inverted transducer is briefly considered. Its block diagram and static-characteristic formula are given. The principle of automatic measurement of the refraction index of solutions by a liquid difference prism is set forth. Functions are presented which describe the transient responses of photo absorptiometers and refractometers caused by a step change in the optic density and refraction index of monitored solutions. The dynamics of these instruments is described by

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L 4245-66
ACCESSION NR: AP5018469

first-order differential equations. The time constant of the closed refractometer
cell as a function of heat conductivity of its walls is presented. A second-order
differential equation describes the transient response of the closed cell to a
temperature change at the inlet. Formulas for the dynamic error due to
temperature variations are derived. Orig. art. has: 4 figures and 28 formulas.

ASSOCIATION: none

SUBMITTED: 00   ENCL: 00   SUB CODE: OP

NO REF SOV: 000   OTHER: 000

BVK
Card 2/2

I 8156-66 EWT(l)

ACC NR: AP5025726   SOURCE CODE: UR/0286/65/000/018/0080/0080

AUTHORS: Parfenov, V. I.; Karabegov, M. A.; Alkhazishvili, R. I.; Ayollo, E. S.

ORG: none

TITLE: Automatic photometer. Class 42, No. 174808

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 80

TOPIC TAGS: photometer, photography, optical instrument

ABSTRACT: This Author Certificate presents an automatic photometer containing measuring and calibrating optical channels with an optical compensator in the measuring channel (see Fig. 1).
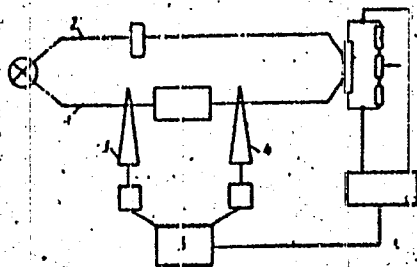

Fig. 1. 1- measuring optical channel;
         2- calibration channel;
         3- optical compensator;
         4- vernier compensator;
         5- compensating needle

Card 1/2   UDC: 535.241.6

L 8156-66

ACC NR: AP5025726

To improve measuring accuracy in cases of compensating errors and light losses due to dirt on the measuring window, a vernier compensator is placed in the measuring channel and is connected to the automatic compensating system. Orig. art. has: 1 figure.

SUB CODE: OP/ SUBM DATE: 05Oct62

jw

Card 2/2

AID P - 2715

Subject   : USSR/Mining

Card 1/1   Pub. 78 - 12/27

Author   : Ayollo, G. S.

Title   : Sound refraction measuring method based on gas
               analysis without necessity for datum marks

Periodical : Neft. khoz. v. 33, #6, 32-35, Je 1955

Abstract   : In order to ascertain the depth of beds in gas wells,
               the sound measuring method is used whereby the sound
               velocity is calculated according to the temperature
               and the chemical composition of the gas with the use
               of formulae presented by the author. 4 references
               (1938-1952).

Institution : None

Submitted   : No date

AKHMEDOV, A.A., ADILLI, O.A.

Forming slightly permeable horizon in Kirmaki series 7
and Kirmaki series 4 of the Chakhraglyar field. Neftepron. delo
no.8:58-62 '65.   (MIRA 18:9)

1. Neftegazovnoye upravleniye "Kirovneft".

TITCHENKO, Maksim Pavlovich; AYOLLO, Mikhail Gustavovich;
        NEZHIVOY Nikolay Yakovlevich; PEROV, Viktor Yakovlevich;
        ZAYTSEV, L.A., otv. red.; SAKHAROVA, Ye.D., red.

        [Accounting and balance analysis in the communication
        system] Bukhgalterskii uchet i analiz balansa v kho-
        ziaistve sviazi. Moskva, Sviaz', 1965. 303 p.
                                        (MIRA 18:8)

AYOLLO, M.G.

Settlements by subscribers to radio rebreadcasting. Vest.sviazi 16
no.2:16 F '56.   (MLRA 9:7)

1.Glavnyy bukhgalter Kabardinskogo upravleniya svyazi.
          (Kabardia--Radio)

AYOLLO, Mikhail Gustavovich; TITCHENKO, M.P., otv.red.; KAZ'MINA, R.A.,
red.; MARKOCH, K.G., tekhn.red.

[Collection of accounting exercises] Sbornik uprazhnenii po
bukhgalterskomu uchetu. Moskva, Gos.izd-vo lit-ry po voprosam
sviazi i radio, 1959. 333 p.   (MIRA 13:4)
                    (Accounting)

TITCHENKO, Maksim Pavlovich; AYOLLO, Mikhail Guseynovich; NEZHIVOY,
    Nikolay Yakovlevich; PETROV, Viktor Yakovlevich; BATSER, D.M.,
    red.; SIEFER, G.I., tekhn. red.

[Accounting in communications enterprises]Bukhgalterskii uchet v
predpriiatiiakh sviazi. [By] M.P.Titchenko i dr. Moskva, Sviaz'-
izdat, 1962.   422 p.   (MIRA 15:12)
    (Accounting)   (Communication and traffic)

Ayoyan, S.

Road Materials

Use of shells for asphalt coatings. Zhil. kom. khoz. 2 no. 2, 1952

AYRAPETOV, A.

Technical standardization of production norms in offshore oil
field construction. Sots.trud 4 no.9:80-81 S '59.
(MIRA 13:1)
(Oil well drilling, Submarine--Production standards)

AIRAPETOV, Al'bert Melitonovich; DEMINA, V.N., red.; MELENT'YEV, A.M., tekhn.red.

[Tables for computing the annual average rates of grow\`' increase and reduction] Tablitsy ischisleniia srednegu.\` vykh tempov rosta, prirosta i snizheniia; dlia ekonomiko-sta- tistiches\`Ikh raschetov. Moskva, Gos.stat.izd-vo, 1960. 61 p.
(Mathematics--Tables, etc.)   (MIRA 13:7)

AYRAPETOV, D., arkhitektor; KOSHKIN, V., kand. tekhn. nauk; OSIPOV, G. kand. tekhn. nauk

Synthetic rolled floor coverings. Zhil. stroi. no.5:1-3 '64

(MIRA 17:7)

AGADZHANOV, G., Inzh.; AYRAPETOV, D., arkhitektor; SILUANOVA, G., arkhitektor

Soundproofing linings from waste wood.   Na stroi.Ros. 6 no.2:
28-29 F '65.   (MIRA 19:1)

KONSTANTINOVA, M.A., arkhitektor; AYRAPETOV, D.P., arkhitektor

Architectural and structural strip products made of polymer
materials. Sbor. trud. VNIINSM no.7:127-142 '63.

(MIRA 17:11)

AYRAPETOV, B.P., arkhitektor; SILUANOVA, G.V., arkhitektor

Polymer sound-absorbing materials; practices in foreign countries.
Sbor. trud. VNIINSM no.7:143-150 '63.

(MIRA 17:11)

AYRAPETOV, D.P.; SILUANOVA, G.V.

Increase the production of particle-fiber soundproofing products.
Strol. mat. 10 no.2:23 F '64.   (MIRA 17:6)

AYRAPETOV, E.L., assistent

Contact-strength analysis of bevel gears with circular teeth.
Issl.v obl.metallorezh.stan. no.4:143-156 '61.   (MIRA 14:12)
(Gearing, Bevel)

AYRAPETOV, E. L., insh.; GENKIN, M. D., kand. tekhn. nauk;
RYZHOV, M. A., kand. tekhn. nauk

Effect of grinding burns on the fatigue strength of gears.
Vest. mashinostr. 42 no.10:70-72 O '62.   (MIRA 15:10)

(Grinding and polishing)

RUSTAMOV, Enver Misir Ogly; AYRAPETOV, Georgi Agalymovich; KOGAN, David
Vul'fovich; KOZLOV, V.S.; SHTEYNGEL', A.S.

[Methods of control and measuring devices for testing the quality
of parts and joint connections of deep pumps] Metodika kontrolia
i sredstva izmereniia dlia proverki kachestva izgotovleniia
detalei i uzlov glubinnykh nasosov. Baku, Azerbaidzhanskoe gos.
izd-vo neft.i nauchno-tekhn.lit-ry, 1957. 31 p.   (MIRA 10:11)
                    (Pumping machinery--Testing)

RUSTAMOV, E.M.; KOGAN, D.V.; AYRAPETOV, G.A.

The PKV2 apparatus for checking the linearity of the axis of the liner aperture. Trudy AzNII DN no.6:99-108 '57.   (MIRA 12:12)
(Oil well pumps)

 AIRAPETOV, G.A.; BUZDAKOV, A.P.; KREPKOV, D.V.

New technique for manufacturing deep-well nitrated cylinders.
Azerb. neft. khoz. 36 no.5:43-45 My '57.   (MIRA 10:11)
                              (Oil well pumps)

AYRAPETOV, L.D.

[Sanitariums and health resorts for tubercular patients] Kuda poekhat' bol'nomu tuberkulezom dlia sanatorno-kurortnogo lecheniia. Moskva, Medgiz, 1954. 95 p.   (MLRA 8:1)
        (Tuberculosis--Hospitals and sanatoriums)

AYRAPETOV, L.D. ; SEMENKO, A.F., redaktor.

[Health resorts with medicinal waters and muds] Kurorty s
lechebnymi vodami i griaziami. Pod ped. A P. Semenko. Moskva,
Medgiz, 1955. 125 p.   (MLRA 9:4)
(HEALTH RESORTS, WATERING PLACES, ETC.) (BATHS, MOOR AND MUD)
                    (MINERAL WATERS)

AYRAPETOV, Lazar' Davydovich; BAULIN, V.A., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Medical treatment and rest in sanatoriums and resorts] Sanatorno-kurortnoe lechenie i otdykh. Moskva, Gos. izd-vo med. lit-ry, 1956. 49 p.   (MIRA 11:10)
(HEALTH RESORTS, WATERING PLACES, ETC.)

AYRAPETOV, Lazar' Davidovich. Prinimal uchastiye: STRIZHIZHOVSKIY, F.A..
P'YANKOV, A.A., zasluzhennmu vrach RSFSR, obuhchiy red.;
YANCHUK, A., red.; LIL'YE, A., tekhn.red.

[Health resorts in the vicinity of Moscow] Zdravnitsy Pod-
moskov'ia. Moskovskii rabochii, 1958. 198 p.   (MIRA 12:4)
        (HEALTH RESORTS, WATERING PLACES, ETC.)

AYRAPETOV, O.M., inzhener

Filter for running water. Rats. i izobr. predl. v stroi. no.94:29-33
'54.
(MIRA 8:8)

1. Tadzhikskiy institut epidemiologii, mikrobiologii i sanitarii i
kafedry obshchey gigiyeny Stalinabadskogo meditsinskogo instituta.
(Filters and filtration)

AYRAPETOV, S.G.

New methods in the health resort treatment of patients with obliterating endarteritis. Azerb.med.zhur. no.2:49-51 F '60.

(MIRA 13:5)

1. Glavnyy vrach sanatorii "Lastochka", Pyatigorsk.
(PYATIGORSK--HEALTH RESORTS, WATERING PLACES, ETC.)
(ARTERIES--DISEASES)

AYRAPETOV, S.G., inzh.

LV-100 rubberized leaf filter. Khim.mashinostr. no.2:3-4 Mr-Ap '63.
(Filters and filtration) (MIRA 16:4)

AYRAPETOV, V.A.; SAMOYLOVICH, B.I.

Effect of automatic control on the acceleration of transportation turnover and an increase in the capacity of tank farms. Transp. i khran. nefti i neftprod. no.6:29-31 '64.   (MIRA 17:9)

1. Nauchno-issledovatel'skiy i proyektnyy institut po kompleksnoy avtomatizatsii proizvodstvennykh protsessov v neftyanoy i khimicheskoy promyshlennosti.

AUTHOR: Ayrapetov, Yu.G., Engineer   SOV-91-58-9-22/29

TITLE: Checking an ET-561 Relay with VTN-561 by a Boiler Transfor-
                 mer (Proverka rele tipa ET-561 s VTN-561 kotel'nym trans-
                 formatorom)

PERIODICAL: Energetik, 1958, Nr 9, pp 30-31   (USSR)

ABSTRACT: To check the possibility of testing ET-561 relays with nor-
                 mal, transportable boiler transformers, a study was made of
                 the effect of connecting ohmic resistances in series with
                 the load in the secondary winding of the transformer. Three
                 different types of boiler transformers 'were used for the
                 experiments. The resultant characteristic current curve
                 was studied with an EO-6 cathode oscilloscope. Results
                 show that boiler transformers may be used for testing ET-
                 561 relays by connecting an additional resistance into the
                 secondary winding, if the capacity of the transformer is
                 not less than 250 w. A transformer with a secondary voltage
                 36 v is most suitable. It should give the least possible er-
                 ror in the relay operating current and should give the most
                 correct characteristic current curve, as viewed on a cathode
                 oscilloscope. There are 2 tables and 2 waveforms.

                 1. Electric relays--Testing equipment   2. Electric relays--Test
Card 1/1   methods   3. Power transformers--Applications

TAGUNOV, D.V., inzh.; AYRAPETOV, Yu.G., inzh.

Use of simplified protection of electric power transmission
lines at transfer substations with "H"-type networks. Elek.
sta. 31 no.8:87-89 Ag '60.   (MIRA 14:9)
                    (Electric protection)
          (Electric power distribution--High tension)

KULIYEV, R.Sh.; KEVERKOVA, I.S.; MUSAYEV, G.T.; AYRAPETOVA, E.K.

Production of transformer oil from a mixture of Baku paraffinic
petroleum. Azerb.khim.zhur. no.4:63-65 '63.   (MIRA 17:2)

L 06465-67   EWT(m) DJ

ACC NR: AP6029339   (A)   SOURCE CODE: UR/0316/66/000/002/0077/0080

AUTHOR: Kuliyev, R. Sh.; Musayev, G. T.; Ayrapetova, E. K.; Antonova, K. I.

ORG: INKhP AN AzerbSSR

TITLE: Effect of various hydrocarbon groups of D-8 diesel oil on its low-temperature properties

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 2, 1966, 77-80

TOPIC TAGS: lubricant viscosity, lubricating oil , AROMATIC HYDROCARBON

ABSTRACT: The effect of various groups of hydrocarbons on the viscosity of D-8 diesel oil (SU machine oil) was studied at low temperatures. The groups were separated from the SU distillate chromatographically on ASK silica gel. The viscosity and solidification points of the aromatic hydrocarbons increase with their cyclic character. It was found that the removal of all tars and approximately 30-40% of heavy aromatic hydrocarbons from the distillate of SU machine oil gives the required content of the various hydrocarbon groups in the oil, so that the desired viscosity is obtained at -20°C. In order to obtain this hydrocarbon composition in the oil, the distillate of SU machine oil must be subjected to a more thorough purification. The viscosity of D-8 diesel oil at low temperatures can also be improved by decreasing its viscosity at 100°C; when the viscosity is decreased from 8.4 to 7.5 cS at 100°C, the corresponding viscos-

Card 1/2

L 06465-67

ACC NR: AF6029339

ity at -21°C drops from 44.8 to 21 thousand cll. Orig. art. has: 4 tables.

SUB CODE: 11/ SUBM DATE: 30Jul65/ ORIG RE": 001

Card 2/2 /h/lE

/ 0. / 2 0 0

AUTHOR: Ayrapetova, E. L.

$S/166/61/000/001/004/005$
24757
B112/B203

TITLE: A class of turbulences of an inviscid liquid

PERIODICAL: Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya
            fiziko-matematicheskikh nauk, no. 1, 1961, 39 - 48

TEXT: The author solves the system

$$\frac{\partial v_r}{\partial r} + \frac{1}{r}\frac{\partial v_\varphi}{\partial \varphi} + \frac{\partial v_z}{\partial z} + \frac{v_r}{r} = 0$$

$$\frac{\partial v_r}{\partial t} + v_r\frac{\partial v_r}{\partial r} + \frac{v_\varphi}{r}\frac{\partial v_r}{\partial \varphi} + v_z\frac{\partial v_r}{\partial z} - \frac{v_\varphi^2}{r} = -\frac{1}{\rho}\frac{\partial p}{\partial r}$$

$$\frac{\partial v_\varphi}{\partial t} + v_r\frac{\partial v_\varphi}{\partial r} + \frac{v_\varphi}{r}\frac{\partial v_\varphi}{\partial \varphi} + v_z\frac{\partial v_\varphi}{\partial z} + \frac{v_r v_\varphi}{r} = -\frac{1}{\rho r}\frac{\partial p}{\partial \varphi}$$

$$\frac{\partial v_z}{\partial t} + v_r\frac{\partial v_z}{\partial r} + \frac{v_\varphi}{r}\frac{\partial v_z}{\partial \varphi} + v_z\frac{\partial v_z}{\partial z} = -\frac{1}{\rho}\frac{\partial p}{\partial z}$$

$\bigg.$ (1)

Card 1/4

24757

A class of turbulences...

of equations of motion for an ideal liquid in the form:

$v_r = ra_1(t, \varphi)$, $v_\varphi = rb_1(t, \varphi)$, $v_z = rc_1(t, \varphi) + zc_2(t)$.

The system

$$2a_1 + \frac{\partial b_1}{\partial \varphi} + c_2 = 0$$

$$\frac{\partial}{\partial \varphi}\left(\frac{\partial c_2}{\partial t} + c_2^2\right) = 0$$

$$\left(\frac{\partial c_1}{\partial t} + b_1 \frac{\partial c_1}{\partial \varphi}\right) + (a_1 + c_2)c_1 = 0$$

$$\left(\frac{\partial}{\partial t} + b_1 \frac{\partial}{\partial \varphi} - c_2\right)\left(\frac{\partial a_1}{\partial \varphi} - 2b_1\right) = 0$$

(8)

determines the functions a_1, b_1, c_1, c_2:

(Note: For equation 12, see card 4/4)

Card 2/4

A class of turbulences...

The equation:

$$r = \frac{Q}{\sqrt{\sin 2(\varphi+\omega)} \, \Phi\left(\frac{\ln \operatorname{tg}(\vartheta+\omega)}{2\sqrt{\mu^2+\beta^2}} - t\right)}$$

describes the eddy current curves, the system

$$\varphi + \omega = \operatorname{arctg} e^{2\sqrt{a^2+\beta^2}\,t} + C)$$

$$r = \frac{L e^{-\frac{1}{2}\int f(t)\,dt}}{\sqrt{\sin 2(\varphi+\omega)}}$$

$$z = e^{\int f(t)\,dt}\left[N + L\Phi(C) e^{-2\int f(t)\,dt}\right]$$

. (19).

the liquid lines, the equation:

$$r = \frac{M}{\sqrt{\sin 2(\varphi+\omega)} \; \operatorname{tg}^K(\varphi+\omega)}$$

Card 3/4

24757

A class of turbulences...

S/166/61/000/001/004/005
B112/B203

the stream lines. Here, $K = f(\cdot)/2 \sqrt{\alpha^2 + \beta^2}$. The author considers the special cases: $K = 1$, $K = 2$, $K = 3$, $K = 4$, and $K = 5$.

ASSOCIATION: Institut mekhaniki AN UzSSR (Institute of Mechanics AS Uzbekskaya SSR)

SUBMITTED: January 20, 1960

$$a_1 = \beta \sin 2\varphi - \alpha \cos 2\varphi - \frac{1}{2} f(t) = -$$

$$- \left[\sqrt{\alpha^2 + \beta^2} \cos 2(\varphi + \omega) + \frac{1}{2} f(t) \right]$$

$$b_1 = \alpha \sin 2\varphi + \beta \cos 2\varphi = \sqrt{\alpha^2 + \beta^2} \sin 2(\varphi + \omega)$$

$$c_1 = e^{-\frac{1}{2} \int f(t) dt} \sqrt{\sin 2(\varphi + \omega)}\, \Phi \left(\frac{\ln \operatorname{tg}(\varphi + \omega)}{2\sqrt{\alpha^2 + \beta^2}} - t \right)$$

$$c_2 = f(t)$$

(12).

Card 4/4

AYRAPETOVA, L.A., insh. (Chelyabinsk)

Interchange of air in the hot sections of a plant for receiving tubes. Vod. i san. tekh. no.10:9-13 O '64.

(MIRA 18:3)

AYRAPETOVA, L.A.

Using models to study the ventilation of high-temperature
operations departments of electron tuber plants. Sbor.trud.
NIIST no.9:37-52 '61.
(Electron tubes)   (Factories--Heating and ventilation)   (MIRA 15:8)

AYRAPETOVA, R.A.; KYAZIMOV, R.A., red.

[M.A.Mir-Kasimov, 1883 - 1958; a bibliography] M.A.Mir-Kasimov, 1883-1958; bibliografiia. Baku, Izd-vo A' Azer-baidzhanskoi SSR, 1964. 49 p.
(MIRA 18:4)

1. Akademiya nauk Azerbaydzhanskoy SSR, Baku. Fundamental'-naya biblioteka.

A-1

Viscosity in the systems ketones-organic acids. IV. V. V. Udovenko and R. P. Abrametova. **V.** V. V. Udovenko and S. I. Vitsaeva (J. Gen. Chem. Russ., 1939, 9, 1790—1800, 1731—1733; cf. A., 1940, I, 65).—IV. The composition-curves of the systems HCO_2H-, $AcOH$-, or $PrCO_2H$-C_3H_6-$(O)MePr$, at 25°, are concave to the composition axis, whilst in absence of C_3H_6 they are convex. This is ascribed to decrease in association of the acids due to dilution of the system. The curves suggest compound formation between $(O)MePr$ and the org. acids to a degree diminishing in the order given.

V. Analogous results are obtained in the systems HCO_2H-, $AcOH$-, or $PrCO_2H$-$(O)Me_2$-C_3H_6, at 25°.

R. T.

HYRAPETOVA, N. R.

Investigations of systems with formic acid. I. V. V. Udovenko and R. P. Airapet... . *J. Gen. Chem.* (U.S. S.R.) 17, 496–9(1947)(in Russian).—Viscosity, d., and cond. of solns. of HCOOH (I) in pyridine (II), in nitrobenzene (III), and in AcOH (IV) were measured at 0°, 35°, and 50°. The viscosity-concn. curves of I–II solns. show max. at about 76 mole % I at all temps. The cond. exhibits a max. at about 90 mole % I at all temps, and an inflection point at about 75 mole % I at 50°, which becomes a slight min. when the temp. is lowered to 0°. The viscosity-concn. curve of I–III solns. at 0° is S-shaped, with a max. at 96 mole % I and a min. at 41 mole % I. The S-shape becomes much less pronounced as the temp. is raised. The cond.-concn. curves for these solns. are also S-shaped, with inflection points at about 65 mole % I and without max. or min. The only other system displaying this type of curve is the KCl-MgCl₂ system, in which two compds. have been found, viz., KCl.MgCl₂ and 2KCl.MgCl₂ (cf. *C.A.* 39, 2691⁷). The viscosity-concn. curve of I–IV solns. shows a pronounced max. at 0° at about 90 mole % I, which becomes less pronounced as the temp. is raised. The cond. curves for this system show no max. or min. and are convex towards the concn. axis. The types of chem. interaction responsible for these results are discussed.   Arild J. Müller

A18-15A   METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

Investigations of systems with formic acid. II. V. V.
Udovenko and R. P. Airapetova. *J. Gen. Chem.* (U.S.S.
R.) 17, 655-9(1947)(in Russian); cf *C.A.* 42, 2500b.—
Viscosity, elec. cond., and d. were studied in binary sys-
tems for formic acid (I) with Et formate (II) and with Et
ether (III). No compds. are formed in either system, but
there is a weak interaction between I and II. In the I-II
system the viscosity decreases smoothly from I to II, the
curve being concave towards the concn. axis. Values of
the viscosity at 0, 25, and 50° for I are 2.2210, 1.5372, and
0.9767; and for II, 0.5288, 0.3972, and 0.3060 centipoises.
The cond.-concn. curves are similar, except that there are
breaks in the curves at about 25 mole % II. Values of
the cond. are: I, 0.74, 1.24, 1.76; and II, 0.003, 0.003,
and 0.003 × 10⁻⁴ ohm⁻¹ cm.⁻¹. Values of the d. are:

1.2375, 1.3088, 1.1846; and II 0.9474, 0.9166, 0.8818 g./
cc. No breaks or max. were observed in the curves of d.,
viscosity, or cond. of I-III solns. The viscosity-concn.
curve was similar to the I-II system. At 0 and 25°, III
has values of: viscosity 0.2905 and 0.3461 centipoises;
cond. less than 10⁻⁴ ohm⁻¹ cm.⁻¹ at both temps.; d.,
0.7321 and 0.7048 g./cc.   Arild J. Miller

AYRAPETOVA, R. P.

Ayrapetova, R. P., Granitova, O. I., and Undovernk, V. V. - "Physical-chemical investigation of a formic acid-phenal system", Doklady Akad. nauk UzSSR, 1949, No. 2, p. 13-20, (Resume in Azerbaijani), -Bibliog: 14 items.

SO: u-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949

HYRAPETOVA, N. F.
CA

2.

Lib Phys Chem.,
Middle Asiatic State U.

Systems with formic acid. V. V. Udovenko and R. P.
Alypelova. *Zhur. Obshchei Khim.* 19, 1117-04?), *Gen.
Chem. U.S.S.R.* 19, 143-9(1949) (English translation).—Mol.
wts. were det. for various
mixts. of HCOOH (I) with PbNO₃ (II), AcOH (III),
KtOOCH (IV), and H₂O (V). The solvent used in the
mol.-wt. detns. was C₆H₆. Graphs are given showing
mol. wt. vs. concn. of I (in mole %) for different total
concn. of dissolved substances, viz., 0.0, 0.5, 1.0, and 1.5
moles per 1000 g. of C₆H₆. The values graphed were ex-
trapolated or interpolated from the exptl. results. In all
cases the curves are displaced towards higher mol. wts. by
increasing the total concn.). In the systems I–II, the mol.
wt.-concn. curve for the 0.0 molal case is linear, extend-
ing from (approx.) 96 for I to 127 for II. In the other
three cases the curves are linear in the range 0–60 mole %
I. From 60 to 100 mole % I, the 0.0 molal curve is concave
and the 1.0 and 1.5 molal curves are concave toward the
concn. axis, giving values for the mol. wt. of I of, resp.,
84, 95, and 115. In the system I–III, all the mol. wt.-
concn. curves are linear, the 0.5 molal curve, e.g., ex-
tending from a mol. wt. of about 97 for I to about 126 for
III. With increasing total concn. the slopes of the lines
decrease. In the systems I–IV and I–V the curves all
show max. In the I–IV system, the 0.5 molal curve
rises from a mol. wt. of 96 for I to a max. of 100 at 90
mole % I, and then drops to 78 for IV. The sharpness of
the max. increases with increasing total concn. In the
I–V case, the 0.5 molal curve rises from a mol. wt. of 96
for I to a max. of 106 at 80 mole % I and then drops to
78.2 for V. The mol. wt. of pure V changes less with
concn. than that of any other pure substance or soln. in-
vestigated, and there is no consistent trend, whereas the
mol. wt. of all other substances increased with increasing
total concn.   Arild J. Miller

HYDRHPETOWN, V. F.
CA

Systems with formic acid. IV. V. V. Udovenko and R. P. Abupelova. *Zhur. Obshchel Khim.* 19, 601-5; J. Gen. Chem. U.S.S.R. 19, 565-9(1949))(English translation); cf. preceding abstr.—Mol. wts. were detd. for various mixts. of formic acid (I) with acetone (II), 2-butanone (III), and 2-pentanone (IV). As in the previous article, curves are shown for mol. wt. vs. concn. for total concns. of dissolved substances equal to 0.0, 0.5, 1.0, and 1.5 moles per 1000 g. benzene. In the system I-II, the 0.0 and 0.5 molal curves are concave towards the concn. axis, whereas the 1.0 and 1.5 molal curves go through a max. at 90 mole % I. For the 1.0 molal case, e.g., values of concn. of I (mole %) and mol. wt. are, resp.: 100, 107; 90, 108; 63, 102; 12, 66; 0.0, 65. In the system I-III, the curves at all total concns. go through a max. at about 75 mole % I, the 1.0 molal curve going from a mol. wt. of 107 for I, through a max. of 110, then dropping to 74 for III. The system I-IV is similar, the 1.0 molal curve rising from a mol. wt. of 107 for I to a max. of 118 at 70 mole % I, and dropping to 80 for IV. The max. in these curves are attributed to chem. interaction among the components in the various systems.   A. J. M.

CP   HYRAPETOVA, N.P.

Systems with formic acid   V. S. F. Balak, R. P. Hrapetova, and V. V. Udovenko (Samarkand Med. Inst., Central Asian State Univ.). Zhur. Obshct Khim. 20, 770-5(1950); J. Gen. Chem. U.S.S.R. 20, 809-12 (Engl. translation); cf. C.A. 44, 9230rh.—Systems of formic acid with nicotine, piperidine, and anabasine were studied by det g. viscosity and d. as a function of concn. at temps. of 25, 50, and 75°. In each case the viscosity-concn. curves show sharp maxima at all temps. studied, indicating

compd. formation: with nicotine, 2HCOOH.C₁₀H₁₄N₂; with piperidine, HCOOH.C₅H₁₁N; and with anabasine, HCOOH.C₁₀H₁₄N₂. Thus, in the system formic acid-nicotine at 25°, values for mole % nicotine and for viscosity are, resp.: 0.00, 1.0428; 10.07, 15.9257; 24.93, 69.1276; 30.30, 107.8807; 34.36, 119.1099; 39.92, 92.1490; 50.03, 77.6467; 71.44, 10.1204; 100.00, 3.8942. In the system formic acid-anabasine, the increase in viscosity is so great that at 25 and 50° an equimol. mixt. changes to a glassy mass but does not crystallize. In this system and in the system formic acid-nicotine, the d.-concn. curves show a slight max. near the formic acid side. Thus, in the system formic acid-anabasine at 25°, values for mole % anabasine and for d. are, resp.: 0.00, 1.1098; 19.53, 1.2049; 32.16, 1.1605; 62.36, 1.1139; 76.91, 1.0758, 100.00, 1.0427. In the system formic acid-piperidine, the d. at 25° decreases regularly from 1.1298 for formic acid to 0.8367 for piperidine.

Arild J. Miller

AYRAPETOVA, R. P.

5

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
General and Physical Chemistry

(3) Chem

Physicochemical analysis of the systems phenol-mono-chloroacetic acid and phenol-trichloroacetic acid. V. V. Udovenko, R. P. Airapetova, and V. T. Malakhova. Gen. Chem. (U.S.S.R.) 22, 1801-2(1952)(Engl. translation). —See C.A. 47, 2028f.   H. L. H.

AYRAPETOVA, R. P.

Physicochemical analysis of the systems anisole-monochloroacetic acid and anisole-trichloroacetic acid. R. P. Ayrapetova and M. K. Tura[ov]. *Trudy Sredneaziat. Univ.* No. 49, Khim. Nauki No. 5 [17-21(1953); *Referat. Zhur.*, Khim, 1954, No. 2670].—The 2 systems were subjected to thermal analysis and to visual polythermal analysis. The viscosity and d. of the solns. were detd. at 50, 45, and 60°. The temp. was measured by a resistance thermometer. The system $C_6H_5O-C_2H_3O_2Cl$ formed a continuous series of solid soln. The mixts. were very viscous and had a tendency to form glassy substances. The viscosity and d. isotherms were convex toward the compn. axis and indicated absence of compd. formation. The system $C_6H_5O-CCl_3$ C_6H_5 had a eutectic at 60.5 and 25 mol. % of the trichloride. The components of this system are to a limited extent sol. in the solid state. The eutectic extends from 21 to 50 mol. % of the trichloride. The viscosity isotherms are convex toward the compn. axis but the d. isotherms are straight lines.

M. H.

AIRAPETOVA, R.P.;TURAPOV, M.K.

Physicochemical analysis of systems: anisole — monochloroacetic
acid and anisole — trichloroacetic acid. Trudy SAGU no.40:17-21
'53.

(Anisole) (Acetic acid)   (MIRA 9:12)

AYRAPETOVA, R. P.

USSR/Chemistry

Card 1/1

Authors   : Ayrapetova, R. P.; and Filatova, R. I.

Title   : Calculation of viscosity of binary systems. Part 1. -

Abstract   : The viscosity of five binary systems was calculated in accordance
                with the G. M. Panchenkov formula. The calculated data obtained were
                in perfect conformity with the experimental values. A bond energy-
                composition diagram was prepared. The presence of maxima on the
                bond energy-composition-curve confirms the presence of a chemical
                reaction between the components. The bond energy-composition-curves,
                arched toward the axis of the abscissa, indicates the absence of a
                chemical reaction. Four USSR references. Tables, graphs.

Institution : Central Asiatic State University

Submitted   : October 19, 1953

AYRAPETOVA, R. P.

CH

The viscosity of the ternary system heptane-octane-2,2,4-trimethylpentane. A. P. Toropov, R. P. Airapetova, and K. Kiryukhin. Zhur. Obshchei Khim. 25, 1314-17 (1955).—Viscosities η of the system n-C₇H₁₆ (I)-n-C₈H₁₈ (II)-Me₃CCH₂CHMe₂ (III) detd. at 20, 40, and 60°, were within ±1% of the values calcd. by Panchenkov's formula (C.A. 45, 2573f). In the systems I-II, I-III, and II-III, the binding energies were linear with respect to molar compn. The binding energies for the ternary system were calcd. from the viscosities of the binary systems (C.A. 49, 8304b).

Gary Girard

Ayrapetova   R. P.

USSR/Thermodynamics - Thermochemistry. Equilibria.
Physical-Chemical Analysis. Phase Transitions.   B-8

Abs Jour   : Referat Zhur - Khimiya, No 6, 1957, 18532

Author   : R.P. Ayrapetova, N.T. Redkorebreva.
Title   : Computation of Viscosity of Binary Systems.

Orig Pub   : Zh. obshch. khimii, 1956, 26, No 3, 668-672
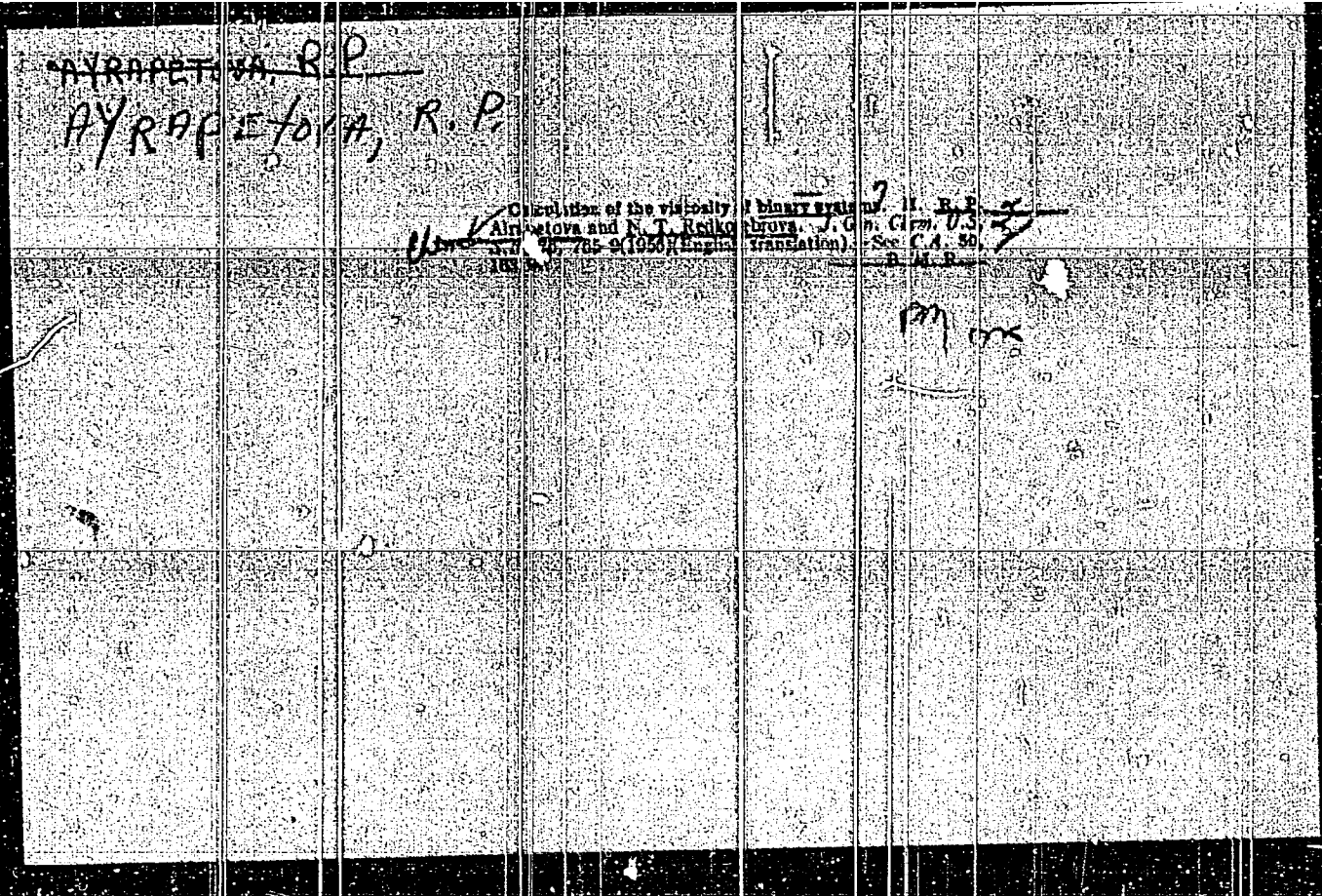
Abstract   : The viscosity and density of the systems benzene (I) -
              ethylbenzene (II) and I - dibromethane (III) at 25, 45
              and 55° were studied. The system I - methylacetate (IV)
              was studied at 25, 35 and 45°. The curves of the depen-
              dence of the molecular binding energy (in Panchenkov's
              sense) on the composition were plotted. The molecular
              weight of II, III and IV in I were determined cryoscopi-
              cally. The combination of obtained data describes the
              system I - II as a system without chemical interaction.
              The systems I - III and I - IV refer to the type of ex-
              pansion without chemical interaction. The curves

Card 1/2
                                - 210 -

Card 2/2
                                - 211 -

AYRAPETYAN, R. P.

AYRAPETYAN, R. P.

Calculation of the visibility of binary systems. H. R. P. Ainapetova and N. T. Reiko burova. J. Gen. Chem. U.S. 20, 765-9(1950)(English translation). See C.A. 50, 103 B. M. R.

GEL'BSHTEYN, A.I.; ABRAPETOVA, R.P.; SHCFEGLOVA, G.G.; TEMKIN, M.I.

Acidity function of the system P_2O_5 - H_2O| Zhur, neorg. khim.
9 no.6:1502-1505 Je '63   (MIRA 17:8)

1. Fiziko-khimicheskiy institut imeni Karpova.

AYRAPETOVA, R. T., Cand Agr Sci -- (diss) "Fodder value of yellow lupine." Mos, 1957. 15 pp (Min of Agr USSR, Mos Vet Acad), 140 copies (KL, 52-57, 109)

Country : USSR
Category: Cultivated Plants. Fodders.

Abs Jour: RZhBiol., No 22, 1958, No 100344

M

(budding, blossoming, formation of seeds).
With both periods of sowing (May and June),
lupine and lupine-oat mixture proved to be
2-4½ times more productive than the vetch-
oat mixture. At the stage of seed formation,
the yield of green roughage from the June
sowing of pure lupine equalled 463 centners/ha,
from lupine-oat mixture - 450 centners/ha and
from vetch-oat mixture - 150 centners/ha.
The protein content in the yield comprised
19.7, 20.4 and 16.3% of the absolutely dry
weight. -- G.N. Chernov

Card   : 2/2

S/081/62/000/023/082/120
B144/B186

A comparison of the ...

mean number of rings in the molecule, the number of C atoms in the side chains): naphthene-methane hydrocarbons (NM) with a specific dispersion up to 103: 66 and 56.7; 1.4859 and 1.4737; 0.8860 and 0.8589; 412 and 435; 9.72 and 8.07; 80 and 108; 2.48 and 1.68; 19 and 25; aromatic tops with a specific dispersion of 104 - 124: 11.5 and 12.5; 1.4950 and 1.4990; 0.9037 and 0.8995; 408 and 491; 12.15 and 14.40, 57 and 82; 2.48 and 1.60; 19 and 31; aromatic medium HC with a specific dispersion of 124 - 160: 9.5 and 15.5; 1.5198 and 1.5181; 0.9385 and 0.9293; 400 and 460; 14.30 and 14.19; 40 and 47; 1.96 and 2.07; 21 and 26; aromatic HC with a specific dispersion of >160: 10.0 and 12.6; 1.5578 and 1.5412; 0.9006 and 0.9683; 390 and 447; 40.10 and 28.90; -140 and -3; 2.75 and 2.6; 17 and 21; tarry substances: 2.5 and 2.0; -, -; 0.9962 and 0.9770; 540 and 612; - -; - -; - -; - -. I, II, the hydrocarbon groups separated from them and mixtures of NM with individual groups of HC were oxidized by the method of the VTI at 130°C in the Butkov bomb. The oxidation of NM from I yielded less acids and more residue than that of NM from II, but the aromatic HC groups from I yielded more acids and less residue than the similar groups from II. Addition of individual groups of aromatic HC to NM (the mixtures corres- ponded to the content of the HC groups in the oil) markedly increased the

Card 2/3

AYRAPETOVA, Z.M., inzh.

Experience in using cable communication lines for transmitting switch triggering relay protection pulses. Elek. sta. 33 no.8:36 Ag '62. (MIRA 15:8)
(Electric power distribution) (Electric protection)

AYRAPETYAN, A.

Amber. Geog. v shkole 32 no.1:74-75 Ja-F '59.

(MIRA 12:4)

(Amber)

AYRAPETYAN, A.

Efficiency promoters at the Armenian Electric Engineering Plant.
Prom. Arm. 4 no.7:45-46 Jl '61.   (MIRA 14:7)

1. Armelektrozavod imeni V.I. Lenina.
                    (Erivan—Electric industries)

AYRAPETYAN, A., inzh.

New design of electric machinery. Prom.Arm, 4 no.9:35-37 S '61.
(MIRA 14:11)

1. Armyanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki.
(Electric machinery)

AYRAPETYAN, A.,.

New developments in the Armenian Brach of the Science and
Research Institute of Electric Machinery. Prom.Arm. 5 no.4:
(MIRA 15:5)
42-43 Ap '62.
(Armenia--Electric machinery industries)

MIRZOYAN, R., inzh.; AYRAPETYAN, A., inzh.

Automation of inspection tests of power transformers.
Prom.Arm. 4 no.12:35-38 D '61.   (MIRA 15:2)

1. Armyanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki.
                    (Electric transformers—Testing)
                    (Automatic control)

AYRAPETYAN, A. A. Cand Biol Sci -- (diss) "On the problem of the inter-center relationship in the cortical section of the motor analyzor of dogs."

Len, 1958. 17 pp (Min of Education RSFSR. Len State Ped Inst im A. I.

Gertsen. Chair of the Anatomy and Physiology of Animals and Humans), 100

copies (KL, 11-58, 114)

-37-

MANVELYAN, M.G.; AYRAPETYAN, A.A.; GALSTYAN, V.D.

Production of calcium metasilicate. Report No.3: Production
of calcium metasilicate by the removal of silica from sodium-
potassium alkali silica solution by the use of lime. Izv.AN
Arm.SSR. Khim.nauki 14 no.3:237-242 '61.   (MIRA 14:9)

1. Institut khimii Sovnarkhoza Armyanskoy SSR.
                    (Calcium silicate)

AYRAPETYAN, A.A.

Physiological characteristics of the conditioned washing reflex.
Zhur.vys.nerv.deiat. 14 no.6:1042-1047 N-D '64.
(MIRA 18 6)

1. Laboratory of Development of Central Nervous System, Orbeli
Institute of Physiology, Armenian Academy of Sciences, Yerevan.

ALEKSANYAN, A.M., prof., otv. red.[deceased]; BAKLAVADZHYAN, O.G.,
        red.; AYRAPETYAN, A.A., red.; BAKUNTS, A.A., red.;
        GRIGORYAN, G.Ye., red.; KARAPETYAN, S.K., red.; MATINYAN,
        L.A., red.; URGANDZHYAN, T.G., red.; FANARDZHYAN, V.V.,
        red.; CHILINGARYAN, A.M., red.

        [Problems of the physiology of the vegetative nervous system
        and cerebellum; collection of reports] Voprosy fiziologii ve-
        getativnoi nervnoi sistemy i mozzhechka; sbornik dokladov.
        Erevan, Izd-vo AN Arm.SSR, 1964. 610 p.   (MIRA 17:8)

        1. Vsesoyuznoye soveshchaniye po voprosam fiziologii vegeta-
        tivnoy nervnoy sistemy i mozzhechka. 1st, Erevan, 1961.
        2. Chlen-korrespondent AN Arm.SSR i direktor Instituta fi-
        ziologii im. L.A.Orbeli AN Arm.SSR (for Aleks nyan). 3. In-
        stitut fiziologii im. L.A.Orbeli AN Arm.SSR, Erevan (for all
        except Karapetyan, Matinyan).

ALEKSANYAN, A.M., BAKLAVADZHYAN, O.G., GRIGORYAN, F.E., ARAPETYAN, A.A.
URGANDZHYAN, T.G., SAIKYAN, S.A.

"About the significance of the sympathetic nervous system and reticular
formation in the functions of the high dividions of the central nervous
system."

Report submitted, but not presented at the 22nd International
Congress of Physiological Sciences.
Leiden, the Netherlands   10-17 Sep 1962

ALAVERDYAN, M.I., dotsent; VLASENKO, S.F., kand. med. nauk; MARUKYAN, T.Kh., mladshiy nauchnyy sotrudnik; AYRAPETYAN, F.O., aspirant; GRIGORYAN, D.G., starshiy laborant

Effect of X-rays on the activity of hyaluronidase and hyaluronic acid. Vop. radiobiol. [AN Arm. SSR] 3/4:229-234 '63.

(MIRA 17:6)

S/137/62/000/005/033/150
A006/A101

AUTHORS: Ayrapetyan, G., Yepiskoposyan, M.

TITLE: Preparation of selenium and tellurium by the acid method from anodic
                slimes of the Alaverdy Copper-Chemical Combine

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 19, abstract 5G114
                ("Prom-st' Armenii", 1961, no. 10, 32 - 36, Russian)

TEXT: The authors analyze an acid scheme for extracting Se and Te from
copper-electrolytical slimes of the Alaverdy Copper-Chemical Combine. According
to this scheme, the anodic slime is first processed with HNO_3 and then with
H_2SO_4, at a gradual mixing with compressed air and heating of the pulp to 90°C.
At the end of the slime decomposition, formalin is supplied into the reactor.
The filtered solution is used for Ag precipitation and the cake for the addi-
tional extraction of precious metals. The filtered solution after separating of
Ag, is used first for Se and then Te precipitation with the aid of SO_2. At a
HNO_3 : H_2SO_4 : slime ratio = 1.5 : 0.9 : 1, the extraction into the solution is:
Cu 100%; Se 97 - 98%, Te 84 - 85%.   G. Svodtseva
[Abstracter's note: Complete translation]

Card 1/1

AYRAPETYAN, G., inzh.

Urgent need for a modernization of the obsolete types
of tower cranes. Prom.Arm. 4 no.12:38-39 D '61.

(MIRA 15:2)

(Armenia—Cranes, derricks, etc.)

AYRAPETYAN, G., inzh

Preventing the overturning of tower cranes. Prom.Arm. 5
no.3:36-38 Mr '62.   (MIRA 15:4)
    (Armenia—Cranes, derricks, etc.—Safety appliances)

AYRAPETYAN, G., inzh.

Improve the manufacture of tower cranes in Armenia. Prom.Arm. 5 no.6:
17-19 Je '62.   (MIRA 15:7)
        (Armenia—Cranes, derricks, etc.)