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no. sput	166, 1961	. Voprosy	* interpretatsii	eskaya observatoriya. danny*kh meteorologic on of data of meteorol	cheskikh	
	C TAGS:		ir current, clou	d distribution, metero	ological	
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FSF(h)/FSS-2/EWT(1)/FS(v)-3/EWG(v)/FCC Po-h/Pe-5/Pq-h/Pae-2/P1-h ESD(si)/ESD(t)/AFETR/AFTC(a)/ESD(gs) TT/CW 8/2531/64/000/166/0203/0213 ACCESSION NR: AT4046061 AUTHOR: Musayelyan, Sh. A. B TITLE: Problems in the numerical interpretation of cloud data transmitted by artificial earth satellites SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. no. 166, 1964. Voprosy* interpretatsii danny*kh meteorologicheskikh sputnikov (Problems in the interpretation of data of meteorological satellites), 203-213 TOPIC TAGS: meteorological satellite, geopotential field determination, cloud data transmission, satellite transmitted cloud data, vertical current distribution, cloud distribution ABSTRACT: Using American data transmitted by Tiros I for cloud patterns and movements over the Pacific Ocean and North America, the author presents a mathematical analysis of the possibility of determining the geopotential field from the distribution of vertical currents. The mathematical derivations are based on the existence of a definite correlation between cloud fields and vertical currents. The Card 1/2-

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L 2846-66 FSS-2/EWT(1)/FCC CW ACCESSION MR: AP5021278 UR/0020/65/163/005/1134, AUTHOR: Museyelyan, Sh. A. TIPLE: Some aspects of interpreting and using data on cloudiness obtained from meteorological satellites SOURCE: AN SSSR. Doklady, v. 163, no. 5, 1965, 1134-1137 TOPIC TAGS: meteorology, weather forecasting, artificial satellite, cloud/ Tiros 7 artificial satellite ABSTRACT: Analysis of many cloud photographs from Tiros satellites has shown that the photographs may be successfully used for refining synoptic analysis of weather charts, especially in regions where weather stations are few or absent. The author used the method proposed earlier by Sh. A. Musayelyan and A. Z. Chekirda (fr. Glavn. geofis. obs., vol. 166, 1964) for determining the vertical component of vortical velocities from cloud date. If the horisontal components of the wind are known at any level for some period of time, it is possible to compute the corresponding vortical velocities. The Fourier coefficients of cloud fields are linearly related to vortical velocities as proposed in the above reference. The

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L 2846-66

ACCESSION NR: APSO21278

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coefficients of regression in this relation were determined from actual data on cloudiness for 15-hour periods on successive days and from corresponding data on geostrophic winds. For testing the computation, the author took data from orbits of Tiros-7 and plotted cloud fields over Europe and western Asia. Charts of actual geostrophic winds and of winds computed from the cloud data (at 500 mb) were prepared. A comparison of the two shows good agreement. The average absolute error is 10 m over the entire chart, and the maximum error is 130 m. Computations show that the geopotentials obtained at the anticyclomic centers on the computed charts are lower than actual values. For geostrophic winds and winds thus computed from cloud data, the greatest divergence of values and wind directions is found in regions of weak winds or in regions where the pressure field as computed from cloud data proves to be displaced from the actual position. Hest agreement is in regions of strong winds. The computations were made by N. S. Khasisova at the EVM Mirovoy meteorologicheskiy tsentr (World Meteorological Center). Orig. art. has: 2 figures and 16 formulas.

ASSOCIATION: Mirovoy meteorologicheskiy teentr (World Meteorological Center)

SUBMITTED: 12Jan65

ENCL: 00

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10 May 200 003

OTHER: 002

MUSAYELYAN, S.M.

Significance of hydroelectric forecasts for streamflow regulation in power engineering as exemplified by the Novosibirsk Hydroelectric Power Station. Izv. AN Arm. SSR. Ser. tekh. nauk 14 no.5:61-66 (MIRA 15:1)

(Novosibirsk Hydroelectric Power Station)

MUSAYELYAN, S.M., aspirant

Evaluation of methodology for hydrological forecasts and justification of its use in estimating the flow of water to hydroelectric power stations.

Trudy MEI no.35:165-178 *61. (MIRA 15:12)

(Hydroelectric power stations)

MUSAYELYAN, S.M.

Significance of hydrological forecasts in hydraulic power engineering (exemplified by the Kama Hydroelectric Power Station). Meteor. i gidrol. no.2:37-40 F ¹62.

(MIRA 15:2)

(Kama Hydroelectric Power Station-Hydrometeorology)

MISAYELYAN, S.M., inzh.

Effect of the errors of hydrologic forecasts on the performance of a hydrolic power station in a consolidated electric utility system.

Izv. vys. ucheb. zav.; energ. 5 no.9:103-107 S '62. (MIRA 15:10)

1. Moskovkiy vrdena Lenina energeticheskiy institut. Predstavlena kafedroy gidroenergetiki.
(Hydroelectric power stations) (Interconnected electric utility systems)

MUSAYELYAN, S.M., inzh.

Principal requirements from hydrological forecasts with longrange water power regulation of the hydroelectric power stations. Elek.sta. 33 no.12:33-36 D 62. (MIRA 16:2) (Hydroelectric power stations) (Water power)

27. 1220 also 1565

25865 \$/020/61/139/004/025/025 B103/B220

AUTHORS:

Musayelyan, S. S., and Sytinskiy, I. A.

TITLE:

Effect of total X-radiation on the level of y aminobutyric

acid in the brain

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 4, 1961, 994 - 995

TEXT: This paper was read at the session of the sektsiya biokhimii Leningradskogo obshchestva fiziologov, biokhimikov i farmakologov im. I. M. Sechenova (Section of Biochemistry of the Leningrad Society of Physiologists, Biochemists, and Pharmacologists imeni I. M. Sechenov) on November 17, 1960. The authors studied the level of y-aminobutyric acid (GABA) in the brain of white rats treated totally with X-ray doses of 400, 800, and 1000 r. The conversion of GABA is important for estimating the effect of nervous regulation in radiation disease. An ANN-3 (RUM-3) apparatus was used. The animals irradiated were frozen totally in liquid oxygen 2, 3, 4, 6, 8, 9, 10, and 11 days after exposure. The cerebral oxygen 2, 3, 4, 6, 8, 9, 10, and 11 days after exposure. The cerebral oxygen 2, 55 (1950)). GABA was determined quantitatively by chromatography on paper. The system: n-butyl alcohol - acetic acid - water (4 ; 1 ; 5) Card 1/4

CIA-RDP86-00513R001135710017-5 "APPROVED FOR RELEASE: 03/13/2001

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Effect of total...

served as flow medium. Extracts from cerebral tissue were plotted together with standard solutions of GABA of different concentrations on the same chromatogram. Professor E. Roberts, Duarte. California, is thanked for supplying the GABA preparation. The optical density of the solution of the copper ninhydrine complex of GABA was determined at 3:2 mg with an CO-4 (SF-4) spectrophotometer. Results show that individual variations of the GABA content in cerebral hemispheres of non-exposed rats are insignificant: 16.2 - 20.4 mg-%, average of 12 tests: 18.9 t 1.28 mg-%, Table 1 shows the GABA level in the brain of irradiated rats. It is presumed that the effect of the dose of 800 r is due to the inhibited state of the central nervous system, which attains its maximum on the third or fourth day. Possibly, this is connected with the increased content of GABA in the cerebral tissue. It was proved (Kh. S. Koshtoyants, T. M. Turpayeva, D. Ye. Ryvkina, Sessiya AN SSSR po mirnomu ispol'zovaniyu atomnoy energii (Session of the AS USSR on the peaceful use of atomic energy) Zased. otdel. biol. nauk, 1955, p. 289) that glycolysis is intensified due to ionizing radiation, i. e., simultaneously with the obstruction of oxygen utilization by the cerebral tissue, and the start of hypoxia. These processes may reduce the pH-value of the cerebral

Card 2/4

Effect of total...

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tissue. This, however, increases the activity of decarboxylase of glutamic acid in the brain, and favors the accumulation of GABA. It is suggested in this connection that the increase of the GABA content in the brain caused by total X-radiation represents a defensive reaction favoring the development of the inhibition of the central nervous system. There are 1 table and 10 references: 5 Soviet-bloc and 5 non-Soviet-bloc. The two most important references to English-language publications read as follows: K. F. Killam, Federat. Proc., 17, 1018 (1958); K. A. C. Elliott, H. H. Jasper, Physiol. Rev., 39, 383 (1959). A third one is given in the body of the abstract.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova Akademii nauk SSSR (Institute of Physiology imeni I. P. Pavlov of the Academy of Sciences USSR)

PRESENTED. March 25, 1961 by V. N. Chernigovskiy, Academician

SUBMITTED: March 17, 1961

Card 3/4

MUSAYELYAN, S.S.

Content of y-aminobutyric acid in brain tissues in the state of convulsions. Nerv. sist. (Leningrad) 2 no.3:17-20 '62.

(MIKA 17:7)

1. Laboratoriya biokhimii nervney sistemy Instituta fiziologii AN SSSR i laborayoriyakhimii belka Leningradskogo universiteta.

\$/3018/63/000/000/0175/0180

ACCESSION NR: AT3013137

AUTHOR: Musayelyan, S. S.

TITLE: Effect of hypoxia on gamma-amino butyric acid content in the brain

SOURCE: Tret'ya Vsesoyuznaya konferentsiya po biokhimii nervnoy sistemyw. Sbornik dokladov. Yerevan, 1963, 175-180.

TOPIC TAGS: gamma aminobutyric acid, hypoxia, anoxia, chromatographic method, brain tissue, gamma aminobutyric acid level, convulsive state

ABSTRACT: In the first of two experimental series anoxia was induced in rats by keeping the heads of decapitated animals at room temperature for periods of 0.5, 1, 5, 6, 10, and 30 min. In the second series hypoxia was induced in rats by subcutaneous injection of sodium nitrate (15 mg/ 100 g). Then the animals were frozen in liquid oxygen. Brain tissue extracts were prepared according to Robert's method. Gamma aminobutyric acid levels were determined by chromotography. For the animals with induced anoxia, 5 min after

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ACCESSION NR: AT3013137

decapitation gamma aminobutyric acid level increases by an average of 50% in the brain tissue and remains at this level. In the brain tissue of animals with induced hypoxia gamma aminobutyric acid increases by an average of 30%. Though various explanations have been offered in the literature, the mechanisms of these increases are not clear. With a definite relation established between gamma aminobutyric acid levels and hypoxia, it is possible that the high gamma aminobutyric acid level found in the brain tissues of convulsive patients may be the result of hypoxia. Orig. art. has: 2 tables.

ASSOCIATION: Institut fiziologii imeni I. P. Pavlova AN SSSR, Loningrad (Physiology Institute AN SSSR)

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DATE ACQ: 280ct63

ENCL: 00

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ERMIN, .s.M. M. MYFRYAN, J.E., KARAFFIYAN, V.C., OSIFOVA, E.N., ARAL-AN, Farticipation of Y-aminobityrin and in the meracological ...

e stands and aspartis a dis, elected and glutamine and of the brain tissue. Tup, it alone more alone in the brain tissue. Tup, it alone more life to the brain tissue.

i. Institut ti khimis AN Arm No.

POPOV, S.A.; KAMINSKIY, N.Yo.; PERESETSKIY, N.L.; NAYERMAN, M.S.; SMIRNOVA, I.S. MUSAYELIAN, Ye.K.; SIL'VESTROV, V.D. [deceased]; KULIKOW, A.V.; MESOKLOV, A.F., kand.tekhn.nauk, red.; IVAHOVA, N.A., red.izd-va; GORDETEVA, L.P., tekhn.red.

[Dressing grinding wheels with dismond and dismond-substitute tools] Pravka shlifoval nykh krugov almaznymi instrumentami i zameniteliami almazov. Pod red. A.F. Nesmelova. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 101 p. (MIRA 14:1)

1. Gosudarstvennyy nauchno-isaledovatel skiy institut almaznogo instrumenta i proteessov almaznoy obrabotki. 2. Gosudarstvennyy nauchno-issledovatel skiy institut almaznogo instrumenta i protsessov almaznov obrabotki (for all except Nesmelov, Ivanova, Gordeyeva).

(Diamonds, Industrial) (Grinding wheels)

KOVALENKO, P.P.; MUSAYELYANTS, L.N.

Combined electrochemical method for determining copper, arsenic, cadmium, and indium in a zinc electrolyte. Ukr. khim. zhur. 30 no.7:753-757 164. (MIRA 18:1)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

MUSAYELYANTS, R.N., inzh.

Safety nets. Bezop.truda v prom. 2 no.5:28 My '58. (HIRA 11:4)

(Oil well drilling, Submarine-Safety measures)

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MUSAYELYANTS, RN.

AUTHOR:

Musayelyants, R.N., Engineer

92-58-3-4/32

TITLE:

Manufacturing and Use of Wire Ropes (Proizvodstvo i

ekspluatatsiya talevykh kanatov)

PERIODICAL: Neftyanik, 1958, Nr 3, pp 4-6 (USSR)

ABSTRACT:

Wire ropes is an important link of drilling rig tools. Most wire ropes used in oil well drilling are 3/4-1 1/4 in. in diameter and are either of the compound structure type (Fig. 1) specified in GOST IV-2462-50, or of the conventional type specified in GOST 3070-46, 3070-55. The selection of the right wire rope, its diameter, structure and proper lubrication are very important for its performance and service life. The proper handling of wire rope before and during its installation is also of great importance. The Baku Wire Rope Manufacturing Plant considerably improved the structure of rope by twisting

Card 1/2

Manufacturing and Use of Wire Ropes

92-58-3-4/32

separately the strands with the aid of a rope-twisting machine (Fig. 2). This makes the rope more flexible and extends its service life. Recent studies and practive have indicated that the twisting pitch of the wire rope should be increased. At present the pitch is usually 7.5 times greater than the rope diameter. Proper twisting procedure reduces chances of a rupture and increases the durability of the rope. With the increasing depth of oil wells the question of the strength of the rope becomes extremely important. The rope strength can be ensured by improving the quality of the strands of which the rope is made and by the increase of their number. The rope is tested for rupture, bending and torsion by defect-detecting instruments in accordance with the established procedure which should be strictly followed. In most cases the rupture of the rope during lowering or hoisting operation is due to improper handling. Therefore it would be desirable to work out and issue instructions indicating how to choose the rope suitable for any specific operation.

ASSOCIATION: VNIITB

AVAILABLE: Library of Congress

Card 2/2

MUSAYELYANTS, R.N.

Calculating casing lines used in major repairs of wells. Izv.vys. ucheb.zav.; neft' i gaz. no.7:111-117 '58. (MIRA 11:11)

1. Azerbaydzhanskiy industrial'nyy institut im. M. Azisbekova. (Oil wells--Repairing)

MUSA YELYANTS, R.N.

Value of the dynamic coefficient of the pulley system when freeing stuck pipes. Aserb.neft.khoz. 37 no.10:40-42 0 '58. (MIRA 12:2)

(Hoisting machinery)

lusavelyants, R.M., Cand Tech Sci — (dies) "Methods of coloulation of dynamic efforts to permit sife performance during
the release of clamped pump-compressor to pipes." Baku, 1959.

14 pp (Fin of Higher Education USSR. Azerbaydzhan Order of Eabor Red
Benner Inst of Petroleum and Chemistry im F. Azizbekov). 150 cepies (KI,40-59, 104)

MUSAYELYANTS, R.N.; KABANOV, V.I.

Mechanization of work in changing casing lines. Trudy VNIITB no.13:30-35 '60. (MIRA 14:12)

(Oil well casing)

MUSAYELYANTS, R.N.; SYSOYEV, Yu.D.; SULTANOV, D.K., red.; ZEYNALOVA, T., red. izd-va; NASIROV, N., tekhn. red.

[Safety measures in operating drilling pumps] Tekhnika bezopasnosti pri ekspluatatsii burovykh nasosov. Baku, Azernesh,
1961. 68 p.

(Oil well pumps—Safety measures)

MUSAYELYANTS, R.N., kand. tekhn. nauk

Specification of two articles in safety regulations, Bezop. truda v prom. 7 no.4824-26 Ap 163. (MIRA 1644)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel skiy institut po tekhnike bezopasnosti.
(011 fields--Safety regulations)

MUSAYEV, A.A.

Concept of the underground water cycle [in Aserbaijani with summary in Russian]. Dokl. All Aserb. SSR 13 no.1:49-52 '57. (MIRA 10:4) (Eura Lowland-Water, Underground)

Regularities of ground water level fluctuation in the Shirvan Steppe [in Azerbaijani with summary in Russian]. Dokl. AM

Azerb.SSR 13 no.3:297-303 '57.
(Shirvan Steppe--Water, Underground)

(MLRA 10:7)

MUSAYEV, A.A.

Hydrogeological regions of the Shirvan Steppe [in Azerbaijani with summary in Russian]. Dokl. AN Azerb. SSR 14 no.5:385-389 '58.

(MIRA 11:5)

1.Institut geologii AN AzerSSR.

(Kura Lowland--Water, Underground)

SULEYMANOV. D. M. ; MUSAYEV, A. A.

Achievements in the field of hydrogeology and engineering geology in the Azerbaijan S.S.R. during the Soviet regime. Izv. AN. Azerb. in the Azerbaijan S.S.R. during the Soviet regime. Izv. AN. Azerb. SSR. Ser. geol.-geog. nauk no.2:69-81 160. (MIRA 13:10)

(Azerbaijan—Water, Underground)

(Azerbaijan—Engineering geology)

MUSAYEV, A.A.

Formation of underground water conditions in the Shirvan Steppe.
Trudy Inst.geol. AN Azerb. SSR 21:90-110 61. (MIRA 14:11)
(Kura Lowland-Water, Underground)

KHAMRABAYEV, I.Kh.; MUSAYEV, A.; LIKHOYDOV, G.G.

Chromium mineralization in ultrabasites of the Tamdy massif.
Uzb.geol.zhur. 6 no.4:87-90 '62. (MIRA 15:9)

1. Institut geologii AN UzSSR.

(Tien Shan--Chromium)
(Tien Shan--Ultrabasites)

MUCAYFY A.A. Actual velocity of the underground flow in the Karebak? Statue, Izv.AN Azerb. SSR. Ser.geol.-geog. nauk i nefti no.4:57-65 1/3. FIRA 12 4

MUSAYFIV, A.A.; PANAKHOV, A.M.

Zoning of underground waters in the Akstafachay-Indzhachay interfluve. Trudy Inst. geol. AN Azerb. SSR 23:67-77 *64. (MIRA 18:7)

MUSAYEV, A.I.

Combined treatment of lumbosacral radiculitis at the Tashminwody
Health Resort. Trudy Uz. gos. nauch.-issl. inst. kur. i fizioter.
no.15:219-228 '59. (MIRA 14:9)
(NERVES, SPINAL-DISEASES) (MINERAL WATERS)

MUSAYEV, A.I.

Studying the formation of strawberry runners under conditions prevailing in Apsheron. Trudy Inst. gen. i sel. AN Azerb. SSR 1:95-99 '59.

(Apsheron Peninsula--Strawberries)

MUSAYEV, A. I. Cand Biol Sci -- "Study of the Mological pendiarities of Nation of strawberries in Apsheron." Baku, 1900. (Acad Sci AzSon. Inst of Genetics and Selection. Azerbaydzhan Strte Univ im S. M. Kirov). (KL, 1-01, 185)

-134-

ABDULLAYEV, I.K.; MUSAYEV, A.I.

A new variety of large fruit strawberry of the Apsheron Peninsula. Dokl. AN Azerb. SSR 20 no.5:53-56 '64. (MIRA 17:2)

1. Institut genetiki i selektsii AN AzSSR.

KHAMRABAYEV, I.Kh., doktor geol.-miner. nauk; RADZHABOV, F.Sh.;

GOR'KOVOY, O.P.; SALOV, P.I.; KOZYREV, V.V.; PETROV, V.M.;

USMANOV, F.A.; ISAMUKHAMEDOV, I.M., doktor geol.-min. nauk;

KUSTARNIKOVA, A.A.; BORISOV, O.M.; RAKHMATULLAYEV, Kh.R.;

MUSAYEV, A.M.; SVIRIDENKO. A.F.; SULTAN-UIZ-DAG; GOLOVIN,

Ye.M., kand. geol.-miner. nauk; VIS'NEVSKIY, Ya.S., kand.

geol.-miner. nauk, red.; NURATDINOVA, M.R., red.; ASTAKHOV,

A.N., red.

[Petrography of Uzbekistan] Petrografiia Uzbekistana. Tashkent, Izd-vo "Nauka" UzSSR. Book 1. 1964. 445 p. (MIRA 18:1)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut geologii i geofiziki.

MUSAYEV, A.M., gornyy inzn.; 10570VALOV, A.I., gornyy inzh.; M.d.K.M., J..., gornyy inzh.

Purification of polluted mine air with a multiflow cyclone. For zhur. no.7:64-69 Jl 164.

1. Zyryanovskiy svintsovyy kombinat.

MUSAYEV, A.M., gornyy inzh.

Efficient design for the mouth of ore chutes. Gor. zhur. no.5: 68 My '63. (MIRA 16:5)

1. Rudnik im. XXII s[#]yezda Kommunisticheskoy partii Sovetskogo Soyusa, g. Zyryanovsk.

(Ore handling—Equipment and supplies)

MUSAYEV, A.N.

Ctructure of the Veshnalinskoye ore zone. Isv. AN Aserb. SSR. Ser. geol.-geog.nauk no.1:57-66 65. (MIRA 18:8)

NOT DESCRIBE THE PROPERTY OF T

USSR/Cultivated Plants. Technical Flants. Oil and Ŀ Sugar Bearing Plants.

Abs Jour : Ref Zhur-Biel., No 15, 1950, 63258

Author

Musayev. D. A.: University of Central Asia. Inst

: The Problem of Overcoming the Difficulties Titlo of Hybridizing Genetically Remote Forms and Selecting Soviet Fine-Fiber Cotton Strains.

Orig Pub: Tr. Srodno-az. un-ta, 1956, No 79, 7-49

Abstract : Experiments were carried out with the wild species, Gossipium Thurberi Tod, as well as with the following G. barbadense L. variants: asp. cubarbadense and asp. vitifelium. Freliminary vegetative rapprochement improves the hybridizing ability of the species if grafting

Card : 1/4

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USSR/Cultivated Plants. Technical Plants. Oil and M Sugar Bearing Plants.

Abs Jour : Ref Zhur-Biol., No 15, 1958, 63258

ted pollinations also increase their fertility, especially if the pollination is performed with a pollen mixture from intermediaries. Fertility of hybrids increases under the following conditions: 1. ringing of the branches or of the main stalk; 2. deep pinch-milding of the plants, subsequently preserving them for a second year; 3. substitution of a mentor (especially when combined with repeated pollination) in the case of comparative biomorphological analysis of F₁ hybrids of genetically remote crossbreedings as compared with the parental forms. Analysis of F₂ and F₃ hybrids has demonstrated an increase in the

Card : 3/4

105

MUSAYEV, E. YU.

MUSAYEV, E. YU. "The Effect of Darydag Arsenic Mater and Arsenic Solutions on the Internal Organs of Animals." Min Higher Education USSR. Azerbaydzhan State U imeni S. M. Kirov. Chair of Genetics and Darwinism. Baku, 1955. (Dissertation for the Degree of Candidate in Biological Sciences)

SO: Knizhnaya Letopis', No 1, 1956, pp 102-122, 124

MUSHYEV, E. YU.
KOLISHIKOV, N.M.; MISATEV

Argyrophilic substance of the spleen in different farm and laboratory animals. Uch. sap. AGU no.9:65-67 '56. (MIRA 10:4) (Spleen)

Q

COUNTRY

: USSR

CATEGORY

: Farm Animals. Poultry

ABS. JOUR.: RZBiol., No. 13, 1958, No. 59627

AUTHOR

: Akhundov, M. E.; Musayev, E. Yu.

INST.

: Azerbaydzhan University

TITLE

: On the Histology of the Skin of the Neck in

Barenecked Hens

ORIG. PUB. : Elmi eserler. Azerb. univ., Uch. zap. azerb.

un-t, 1957, No 6, 73-77

ABSTRACT

: The skin of the mental and occipital regions was studied histologically in the Leghorns, Barenecked hens and their crosses. In the Barenecked hens, numerous fatty cells are found, which apparently play a role in thermoregulation, and which are absent in the Leghorns. In the crossbreds, a certain amount of fatty cells is also found and, according to some authors, glands are met with which

CARD:

1/2

Q - 7L

MUSAYEV, E. Yu.

Effect of the Darydag arsenic water and arsenic solution on the internal organs of animals. Uch. zap. AGU. Biol. ser. no.4:11-18 (MIRA 15:5)

(ARSENIC--PHYSIOLOGICAL EFFECT)

MUSAYEV, E.Yu.; AKHUND-ZADE, A.I.

Effect of a growth promoting substance of petroleum origin on the growth and development of chicks from 30-60 days old. Dokl. AN Azerb. SSR 20 no.1:69-73 '64.

1. Azerbaydzhanskiy gosudarstvennyy universitet im. S.M.Kirova. Predstavleno akedemikom AN AzerSSR F.A.Melikovym.

MUSHYEV, F

AUTHOR:

MUSAEV, F. PA - 2272
In the Atomic Energy Pavilion of the All Soviet Industrial

Fair (Department for Nuclear Raw Materials), Russian.

PERIODICAL: Atomnaia Energiia, 1957, Vol 2, Nr 2, pp 192 - 195 (U.S.S.R.)

received: 3 / 1957 Reviewed: 4 / 1957

ABSTRACT:

A rich collection of uranium minerals and uranium ores is exhibited in this department. Furthermore apparatus for the search for and the production of uranium ores as well as for their analysis in the laboratory and in the open air are on show. The methods used for the production of radioactive ores can be subdivided into & -recording and emanation-recording. & -recording is carried out with a special radiometric apparatus according to different methods. Some of the apparatus now industrially produced are on show on the fair. A difference is made between aerogram-recording, y -recording from a car, and & -recording on foot. For aerogram recording the geophysical station ASGM-25 of the factory "Geologorazvedka" (geological prospecting) is used. This station serves for the simultaneous and quick search for ores and their deposits by making use of the radioactive and chemical characteristics of these deposits. The station is fitted to planes of the AN-2 type or to helicopters of the MI-4 type.

Card 1/3

 \mathcal{S} -recording by car is carried out by means of the -radiometer

PA - 2272

In the Atomic Energy Pavilion of the All Soviet Industrial Fair. SG-14 which is also produced by the "Geologorazvedka" factory, For this apparatus GAZ-67 and GAZ-69 cars are best suited as they are adapted for cross-country driving and have good steering qualities.

Besides, a great number of different radiometers for &-recording on foot are shown, e.g. the explosion-proof radiometer UR-4M which can also be used in mines underground. This radiometer uses gas discharge counters of the STS-8 or the STS-1 type. The measuring range of this radiometer is from 0,015 to 10 milli roentgen/hour and can be used for temperatures of from - 20° C to $+\overline{50}^{\circ}$ C. The probing casing is of the telescope system, which renders extension of the handle from 1,14 to 1,74 m possible. The RP-1 radiometers have a hermetically tight casing which can be immerged into water during operation. With these instruments the radiation is shown both by a sound indicator and also visually at the same time. The portable acoustic radiometers PRS and the radiometer SG-42 with scintillation counter are also to be mentioned. The different variations of these radiometers differ by the form of the probe and the measuring range. In the SG-42 radiometer scintillation counters are used which are more sensitive to &-radiation than gas discharge counters. Besides, they have a relatively short resolving time.

Card 2/3

PA - 2272 In the Atomic Energy Pavilion of The All Soviet Industrial Fair. One stand shows the r-carrotage of drill holes.

ASSOCIATION: Not given

PRESENTED BY: SUBMITTED:

AVAILABLE: Library of Congress.

Card 3/3

MUSAYEV F. 89-10-24/36 Industrial Fair (Na vsesoyuznoi promyshlennoy Musayev, F. . AUTHOR: The All-Union Atomnaya Energiya, 1957, Vol. 3, Mr 10, pp. 358-362 (USSR) TITLE: 1. Department: The atomic nucleus and its measurement. PERIODICAL a) a 24 channel analyser which can be connected to an electron ABSTRACT switch as well as to a / -spectrometer. b) Stepping-down devices B-2-BK-3, PS-104, PS-106. c) Stepping-down device with a decimal indicator which operates with an annular trochetron. Resolving time 0,2/4s. d) Heutron counting device C -3, with the help of which slow neute) The device "Yablonya" which permits measuring of coincidences and anti-coincidences. The resolving time for coincidences is betf) Bi-radiation impulse oscillograph DJO-56. The time of rotation can be changed from 5 /us up to 2 /ms. g) Electronic micro stop watch. a) Details produced from uranium in form of rods, tubes, bands, foils, wires, are displaced. Characteristics of the uranium used: Specific weight 18,9-19,1 g/cm, melting temperature at 1150° C, Card 1/2

. The All-Union Industrial Fair.

89-10-24/36

maximum stress 35-140 kg/mm2.

- b) Details produced from beryllium are also displayed. The specific weight is 1,85 g/cm², melting temperature 1285°C, strength 60-130 kg/mm².
- c) Tubes of various diameters, wires and casting made from zirconium are shown. The specific weight amounts to 6,4 g/cm³ and melting temperature is about 1860° C.
- d) A large number of details produced from non-metallic material are shown. There are 7 figures.

AVAILABLE Library of Congress.

Card 2/2

AUTHOR: Musayev, F. 89-12-16/29

TITLE: News in the Pavilicn "Peaceful Application of Atomic

Energy" of the All-Union Industrial Exhibition (Novoye v pavil'one "Ispol'zovaniye atomnoy energii v mirnykh

tselyakh" Vsesoyuznoy promyshlennoy vystavki).

PERIODICAL: Atomnaya Energiya, 1957, Vol. 3, Nr 12, pp. 558-560 (USSR)

ABSTRACT: In 1956 the exhibits were presented to the visitor partly

renovated or in an improved construction respectively. In the department "atomic raw materials" a whole aerogeophysical station (ASG-38) is shown. It consists of an aero-gammaradiometer, which indicates the presence of uranium and thorium. A scintillation analyzer makes it possible to indicate the relative as well as the absolute

content of uranium and thorium on the spot.

In the department "reactor materials" new and very detailed tables on the properties of these materials can be seen In the field of radiation protection the electrical filter EF-2 has to be mentioned: the $\alpha-$ and $\beta-$ active aerosols are collected in it with an effectivity of 85 to 95 %. By this instrument concentrations up to 10^{-15} C/l can be demonstrated

CARD 1/2

News in the Pavilion "Peaceful Application of Atomic Energy" 89-12-16/29 of the All-Union Industrial Exhibition

Moreover the universal scintillation dosimeter has to be mentioned, and the radiometer RN-3: By this meter neutron fluxes of fast and thermal neutrons in the energy area of 0.5 to 14 MeV can be measured. Portable neutron dosimeter RN-4.

Portable α -radiometer RAP-1, which registers 50 to 100000 decays/min.cm².

In the pavilion of atoms this year 2 new departments "Science and Technology" and "Isotope Production" have been inaugurated.

Here the instrument I.VP-64 has to be mentioned by which the humidity of the soil can be determined immediately on the spot. Also the gas-consumption meter RGR-1 (Ru1c6) is new. From the department "Application of the Radioactive Isotopes" the -therapeutics instrument GUT-Co-400 and the model of a 25 NeV betatron for medical purposes is worthwhile mentioning. There are 5 figures.

AVAILABLE: Library of Congress.

CARD 2/2

KULIYEV, R.Sh.; SAMEDOVA, F.I.; MUSAYEV, G.T.; CHIKAREVA, N.I.; ARYLOV, L.P.

Effect of some factors of adsorption refining on the quality of
transformer oil from petroleum of the Neftianye Kamni Field.
Azerb.khim.zhur. no.6:61-66 '61. (MIRA 15:5)
(Insulating oils) (Petroleum-Refining)

KULIYEV, R.Sh.; SAMEDOVA, G.I.; MUSAYEV, G.T.; CHIKAREVA, N.I.; KRYLOV, L.P.

Obtaining transformer oils from the Siazan' petroleum by adsorption refining. Azerb.neft.khoz. 40 no.12:44-45 D '61. (MIRA 15:3)

(Siasan' region-Insulating oils) (Adsorption)

L 33260-65 EMT(m)/EPF(c)/T Fr-L DJ S/0316/64/000/005/0003/0009 ACCESSION NR: AP5005516 AUTHOR: Kuliyev, R. Sh.; Musayev, G.T. TITLE: The effect of the solvent used in deparaffination on the yield and quality of aviation SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 5, 1964, 3-9 TOPIC TAGS: contact purification, petroleum concentrate lubricant MK-22, petroleum refining, deparaffination solvent, ternary ketons, aviation oil, lubricant filtration, deparaifination temperature/lubricant MK-22 ABSTRACT: Lubricant MK-22 is produced from a concentrate of selected Surakhan petroleum by acidic contact purification. Deparaffination of the purified concentrate is usually carried out in a petroleum solution at -40 C, but improvements in purification and deparaffination technology are still being sought. The present work attempted to determine the comparative effect of the petroleum solvent and a ternary solvent containing ketone, benzene and toluene on yield and quality of the lubricant. Methylethylketone and acetone were tried as ketone sources. An initial experimental study of the effect of prior detarring by liquid propane on yield and quality of the lubricant was also conducted. The latter was produced in the laboratory from the concentrate, and various deparaffination temperatures were tested. It was shown that the same amount of methylethylketone

CIA-RDP86-00513R001135710017-5 "APPROVED FOR RELEASE: 03/13/2001

L 33260-65

ACCESSION NR: AP5005516

contained in the ternary system gave a considerably higher yield of deparaffinated lubricant compared to acetone, and that a decrease of acetone in this system would increase the yield of the lubricant better than 2.5 fold. The optimal amount of acetone in the mixture was found to be 20%, that of methylethylketone, 30%. Filtration proceeded faster in the presence of methylethylketone. A 3-fold volume of solvent was found to be optimal.

Under these conditions, deparaffination conducted at -25 C yielded a lubricant with satisfactory thermal hardening properties. Substitution of a ternary system of selective solvents for the usual petroleum did not significantly affect yield and quality of the lubricant. However, deparaffination may be conducted at -25C instead of the usual -40 to 42 C and the filtrability of the cooled solution is considerably improved. Orig. art. has: 6 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00 •

SUB CODE: FP

NO REF SOV: 001

OTHER: 000,

L3759

ANGEL SHIPE STATES OF THE SAME

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

11.0140

PERIODICAL:

Kuliyev, R. Sh., Musayev, G. T., Airapetova, E. K.

AUTHORS:

A comparison of the properties and stability of oils obtained from Eastern sour crude and Baku crude

TITLE:

Referativnyy zhurnal. Khimiya, no. 23, 1962, 594, abstract 23M207 (Azerb. khim. zh., no. 2, 1962, 51 - 39 [Summary in

Azerb.])

TEXT: For the comparative study two similar diesel oils A-11 (D-11) were taken, one (I) from Baku petroleums and the other (II) from Eastern petroleums, with the following characteristics, respectively:

d²⁰ 0.9092 and 0.8904, viscosity 12.4 and 10.8 cst/100°C, viscosity index 58 and 89; cokability 0.51 and 0.55; sulfur content 0.24 and 1.14%, pour point -18 and -20°C. Both petroleums were separated into the following groups (fractions) of hydrocarbons (for the groups mentioned from I and groups (fractions) of hydrocarbons are superstated; the vield in %. from II, respectively, the following are enumerated: the yield in %,

 n_D^{20} , d_4^{20} , molecular weight, viscosity in cst/100°C, viscosity index, the Card 1/3

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 105:66 and 56.7; 1.4839 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; 10 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; 0.9906 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 150°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 MM (the mixtures corresponded to the content of the HC groups in the oil) markedly increased the Card 2/3

43760

A comparison of the ...

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

stability of NM (to oxidation), the heavier HC producing a greater increase in stability. When aromatic HC from II were added to NM from I, the mixtures obtained were more stable than on addition of aromatic HC from I. In oxydation by the VTI method, addition of heavy aromatic HC from II to NM from I thus reduced the acid number of the oxidized oil from 29.7 to 0.19 and the residue percentage from 17.5 to 0.05, while addition of heavy aromatic HC from I resulted in a reduction to 1.15 and 0.32, respectively. When the quantity of heavy aromatic HC added to mixtures of NM with other aromatic HC was increased, the stability of the mixtures improved. Addition of tarry substances to mixtures of NM with aromatic HC reduced the antioxidant effect of the latter. On the basis of their studies, the authors recommend the production of stable diesel oils by selective purification, leaving in the selectively purified oil a considerable part of heavy aromatic HC and tarry substances and subsequently separating the latter by acid after purification of the oil. [Abstracter's note: Complete translation.

Card 3/3

S/065/62/000/004/002/004 E075/E136

AUTHORS: Kuliyev, R.Sh., Dreyzin, M.M., Musayev, G.T.,

Chikareva, N.I., and Krylov, L.P.

TITLE: Production of electrical oils from Baku crudes by

the method of adsorptional refining

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.4, 1962,

15-21

The authors describe a method for the production of transformer oils by the method of adsorptional refining. The experiments with a continuous adsorptional refining were carried out in a laboratory apparatus designed by VNII NP. Granulated alumino-silicate catalyst was used as the adsorbent and a benzine fraction (b.pt. 100-150 °C) containing 4.3% aromatic hydrocarbons, used as a solvent. Transformer oil distillates were diluted with 1.2 parts by weight of the solvent. Using this method it was shown that the yield of the refined product was 90-92% in place of 80-82% for an acid-alkaline refining process. The transformer oils after the adsorptional refining are more stable than the acid refined oils. The distillates Card 1/2

Production of electrical oils ... $\frac{5/065/62/000/00^{4}/002/00^{4}}{E075/E136}$

from the highly asphaltic Neftyanyye Kamni crude yielded high quality transformer oils after the adsorptional refining. Thus the method permits the utilization of a wider range of crudes for the production of electrical oils. It was found that the refining capacity of the alumino silicates can be modified by the temperature of the process and the addition of benzene (15%) to the solvent. It was shown that transformer oils with low pour points can be obtained by adding a pour point depressant (0.05-0.1%) (depressant AzNII) to the distillate prior to its adsorptional refining treatment. There are 6 tables.

ASSOCIATION: INKhP AN Azerb. SSR (INKhP AS Azerb. SSR)

Card 2/2

S/061/63/000/003/020/036 B144/B186

AUTHORS: Kuliyev, R. Sh., Samedova, F. I., Chikareva, N. I.,

TITLE: Production of residual diesel engine oil from Neftyanyye Kamni orude oil by adsorption refining

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 509, abstract 3P200 (Azerb. neft. kh-vo, no. 7, 1962, 34-37)

TEXT: A process has been worked out for obtaining a residual diesel engine oil with high anticorrosive and anticxydant properties from Neftyanyye Kamni petroleum by adsorption refining; it is shown to be possible to obtain such an oil by two alternative methods, with outputs in relation to the crude oil of 35.7 and 27.8%, respectively; a) by refining deasphalted mazout; b) by refining a compound consisting of deasphalted tar and motor oil-10 distillate. It is shown that the oil obtained by direct refining of deasphalted mazout somewhat surpasses in its physicochemical properties and stability the oil produced on the tar basis; moreover, considerably less adsorbent (200% ground alumosilicate catalyst instead of 300% in relation to the crude) is needed

Production of residual diesel engine ... S/081/63/000/003/020/036

for refining deasphalted mazout. The possibility is established of reducing the pour point of the diesel engine oil by adding a depressor (e.g., AZNII depressor in a quantity of 0.5%) to the crude before adsorption refining. A qualitative comparison of the oils obtained by various refining methods has shown that the oil refined by adsorption considerably surpasses the solvent-refined oil as to color, corrosiveness, and cokability. The oil obtained by solvent-contact treatment has, however, better viscosity and temperature properties than the adsorption-refined oil, which is due to the high content of aromatic hydrocarbons with a negative viscosity index in the oils obtained by adsorption refining. [Abstracter's note: Complete translation.]

Cara 2/2

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 17697-63 EPF(c)/EWT(m)/BDS AFFTC/APGC Pr-h DJ ACCESSION NR. AP3004218 8/0065/63/000/007/0006/0012 AUTHORS: Kuliyev, R. Sh.; Sady khove, B. A.; Misayev, C. T. TITLE: Production of motor oils by destructive hydrogenation of diesel oil distillate and raffinate. SOURCE: Enimiya i tekhnologiya topliv i masel, no. 7, 1965, 6-12 TOPIC Tics: destructive hydrogenation, hydrocracking, motor oil, engine oil, catalyst, sluminum, cobelt, molybdenum, molybdenum disulfide, viscosity, viscosity index ABSTRACT: A detailed study of the destructive hydrogenation of distilled and refined diesel oil was carried out in order to determine the conditions for obtakning high-quality engine oils. I The hydrogenations were done in a pilot plant with an output of 2 kg/hour for a charge of 2 liters of commercial molybdemum disulfide or aluminum-cobalt-molybdemum catalyst and a constant input of 300 ters/hour of hydrogen at 325-4250, 50-250 atm. and a feed of 0.3-1.0 m3/m3 of catalyst. The best process conditions are 410 or 425C and 150 atm. for distilled oil and 375 or 4150 and 100 atm. for refined oil. The products were distilled in vacuum and the fractions boiling up to 3400 were discarded, yielding light-colored **Card 1/2**

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product. This may h	14218 by of 6.0-7.7 cs at 1000 and high was Molybdemum disulfide catalyst give blended with <u>lubricating oil</u> resident of the largest of t	os the highest quality
\$P\$《整理文学》 "你,我没有了一个人,谁也有点,你们就说过了你的人也可以这块的这样的话的,我还可靠你。"	INCHP AN Aserb SSR (INChP AN As	P. 网络马克士克尔克特人,在国际的时间的一个一名"国际政治"的"自己",其实,在1660年,这个人,为了对抗强制,是他们的
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KULIYEV, R.Sh.; SHAKHNOVICH, M.I.; SAMEDOVA, F.I.; MUSAYEV, G.T.; CHIKAREVA, N.I.; Prinimali uchastiye: ALIYEVA, A.; ALIYEVA, V.; KATKOVA, O.; BESSONOVA, Ye.; KURILINA, A.

Improving the quality of transformer oil from Buzovna crude oil. Khim. i tekh. topl. i masel 8 no.10:16-22 0 '63.

(MIRA 16:11)

1. Institut neftekhimicheskikh protsessov AN AserSSR.

L 18948-65 EWT(m)/EPF(c)/T Pr-4 APETR DJ

ACCESSION NR: AP4049429

5/0316/64/000/003/0021/0027

AUTHOR: Kuliyev, R. Sh., Musayev, G.T.

TITLE: Production and comparison of the properties of differently refined aviation oils

SOURCE: Azerbaydzhanskiy khîmicheskiy zhurnal, no. 3, 1964, 21-27

TOPIC TAGS: lubricating oil, Surakhani crude, aviation oil, deasphaltization, deparaffinization, phenol refining, acid refining/oil MS-20, oil MK-22, oil MS-22

ABSTRACT: The quality of aviation oil MK-22 was successfully improved by replacing acid purification of Surakhani crude with its deasphaltization to 1.0-1.1% coke, deparaffinization by refining with 200% and 500% phenol, and selective solution in a methylethyl ketonebenzene-toluene mixture, preferably containing 30% methylethyl ketone and used in the ratios of 3:1 and 4:1 for 200% and 500% phenol-refinedfractions, respectively. A lower concentration leads to gelling on cooling. This dilution produces a maximum (72.6%) yield of oil with the necessary solidification temperature. The color is brought to No. 7 by treating these fractions with 14 and 10% bleaching clay at 340-350C. The MS-20 oil produced by 500% phenol refining misses the specifications by the coke residue being 0.38% (above the maximum of 0.30%). The MS-22 oil produced by 200% phenol refining meets them, being identical with the MS-22 oil made by Card 1/2

L 18948-65

ACCESSION NR: AP4049429

refining with 12% sulfuric acid and 24% clay. Refining with 500% phenol sharply reduces the yield of oil. Orig. art. has: 2 figures and 5 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: FP

NO REF BOV: 006

OTHER: 000

Card 2/2

KULIYEV, R.Fn.; MUSAYEV, G.T.

Effect of the solvent used for dewaxing or the yield and hallty of MR-22 aviation oil. Azerb. khim. zhur. no.5:3-9 164. (MIFA 18:3)

KULIYEV, R.Sh.; LARNEV, F.L.; JOSESVII, F.L.; SHAKHREVIOV, M.L.; LIPEHRSYN, R. ..; MUSAYEV, J.T.

Punctional properties , threshormer oil produced from spacest petroleum. Neff g_1 or , in the erim, no.4 Meli (§6).

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L 22689-66 EWT(m)/T DJ ACC NR: AP6006932 (N

SOURCE CODE: UR/0316/65/000/006/0007/0009

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AUTHOR: Kuliyev, R. Sh.; Kevorkova, I. S.; Husayev, G. T.

42

ORG: INKhP AzerbSSR

TITLE: Response of transformer oils to antioxidant additives

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 6, 1965, 7-9

TOPIC TAGS: antioxidant additive, transformer oil

ABSTRACT: The authors studied the response to antioxidant additives of transformer oils obtained from a series of Baku crudes by acid-alkaline and adsorption refining methods. The antioxidant additives tested were p-hydroxydiphenyls, ionol, and methods. The stability of the transformer oils toward the additives was deternined. Adsorption-refined oil was found to have the best response to the inhibinined. Adsorption-refined oil was found to transformer oil obtained from Buzovna tors. While the addition of 0.1% ionol to transformer oil obtained from Buzovna petroleum by refining with 8% acid decreased the deposit by a factor of 4 and the acid number by a factor of 6-7, the addition of the same amount of ionol to oil obtained from the same crude by adsorption refining decreased the deposit by a factor

Card 1/2

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L 06465-67 EWT(m) ACC NR AP6029339 SOURCE CODE: UR/0316/66/000/002/0077/0080 AUTHOR: Kuliyev, R. Sh.; Musayev, G. T.; Ayrapetova, E. K.; Antonova, K. I. 28 B 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 HYOROCARBON 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

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°Cs when the viscosity is decreased from 8.4 to 7.5 cS at 100°C, the corresponding viscos-

Card 1/2

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-21 °C	drops fi	rom 44.6	3 to 21 th	ousand cS.	Orig. ar	t. has: 4 t	ables.		
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ACC NR: AP6035577 (AN) SOURCE CODE: UR/0065/66/000/011/0022/0024

AUTHOR: Kuliyev, R. Sh.; Samedova, F. I.; Musayev, G. T.; Bagirzade, T. M.; Ayrapetova, E. K.; Ashrafov, A. A.

ORG: INKhP AN AzerbSSR

TITLE: Expanding the raw materials stock for aircraft lubricants

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 11, 1966, 22-24

TOPIC TAGS: lubricant, oil, oil refining, aircraft lubricant, aviation oil,

lubricating oil

ABSTRACT: The possibility of adding oil found on the Peschannyy Island in Azerbaydzhan to the raw material stock (the Surankhanskaya and Karachukhurskaya crude oils) to obtain aviation oils is discussed. A concentrate of a mixture of these three crude oils deasphaltized with propane; the lubricating oil is then obtained by the acid-contact, selective, or adsorption refining methods. The adsorption method was found to be the most effective. The oil produced by this method of refining possesses high antioxidation and anticorrosion properties due to the lower tar content. The yield is 10.9% of the total of crued oil. The deparaffinization of

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UDC: 665.521.5

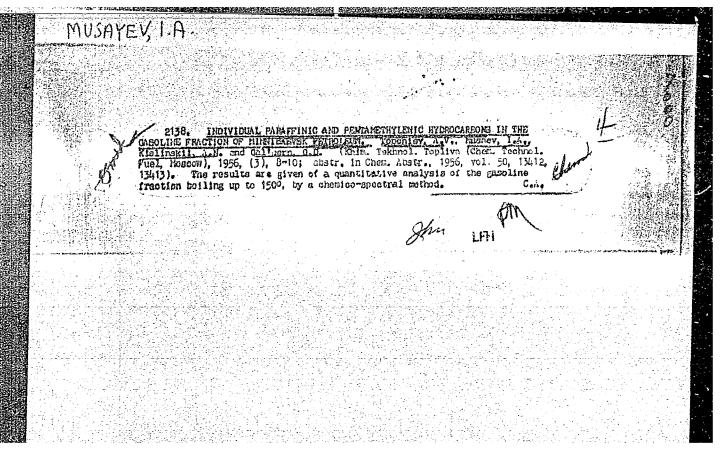
C NR: AP6035577	rude olis is
the raffinate obtained from a concentrate of the above-mentioned cranade with a solution of acetone, benzene, and toluene.	[SP]
SUB CODE: 11/SUBM DATE: none/	
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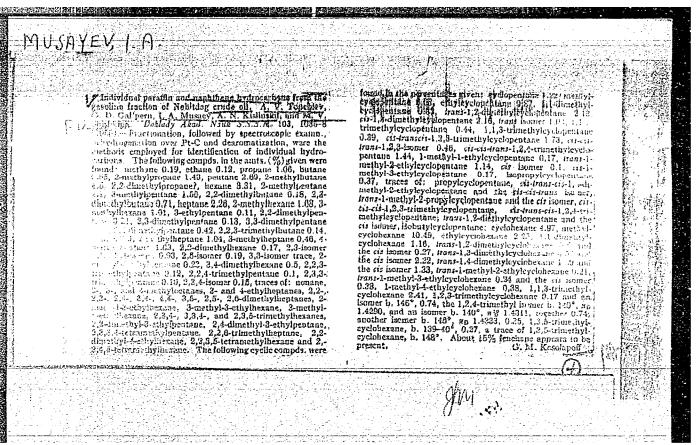
KULIYEV, R.Sh.; SAMEDOVA, F.I.; MUSAYEV, G.T.; ANTONOVA, K.T.; CHIKAREVA, N.T.

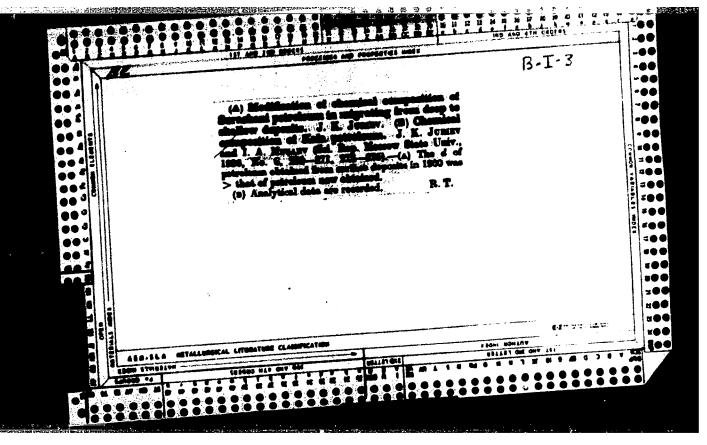
Obtaining transformer oil from distillates of Surakhani selected crude oil and Karachukhur and Siazan petroleums. Nefteper. i neftekhim. no.488-11.63 (MIRA 17:7)

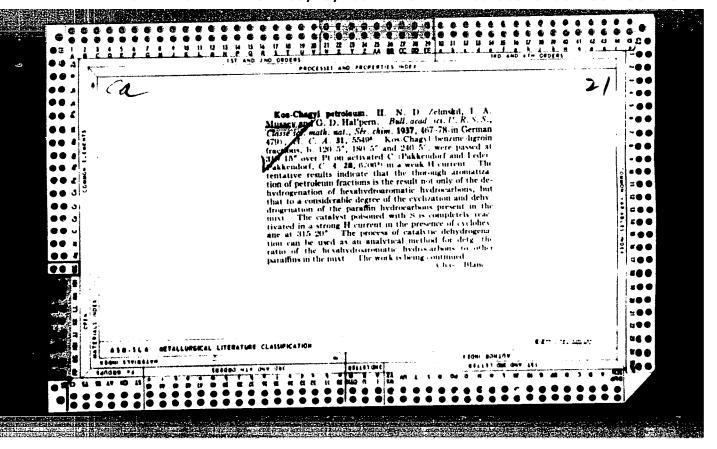
1. Institut neftekhimicheskikh protsessov, Baku.

MUSAYEV,I.A.	
Attention of the Art 1956; (12), 1-4), a Tables are given	ava, E.M., Kielingkii, Agl. and Liva (Gran, Technol. Fuel, Moscon), Dec. of the characteristics, yields and of the characteristics, yields and ottens of become obtained from themsal and distillation temperature for the
Comment of the interference and the second s	Qm/B
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	19 이용의 교육 (1986년 1일 기업 1986년 1일
가는 사람 살림에 발생으로 대한 수를 한 사람들이 된다면 가는 것이 되어 되어 되었다. 그는 것 같은 것 같아 살아보고 하다고 말을 생각한 것을 모르는 것이 되었다.	





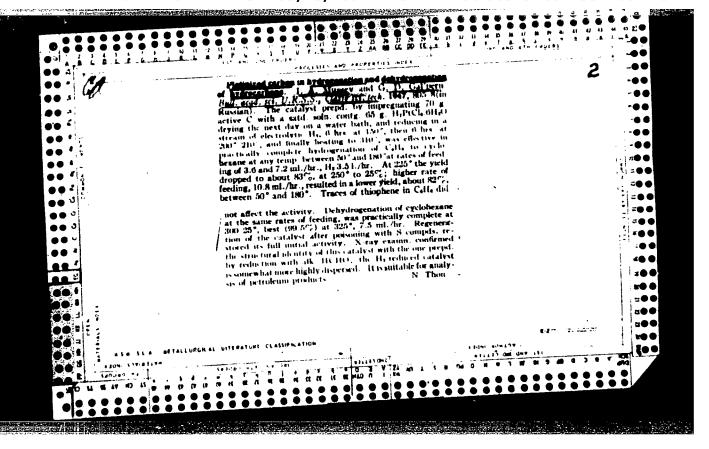




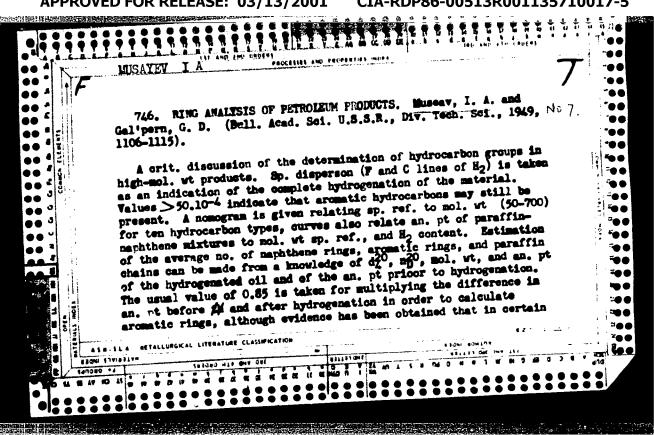
Medairy, i. n. Cand. Chem. Sci.

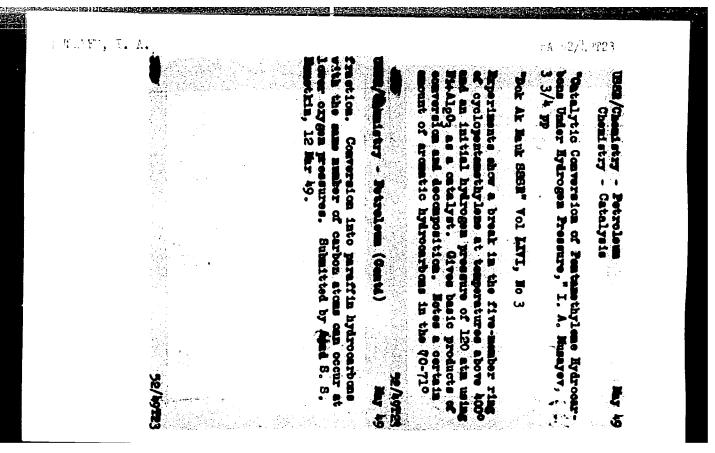
Dissertation: "Analysis of Petroleum Products for Cyclic Compounds." Inst of Mineral Fuels, Acad Sci USSR, 27 Mar 47.

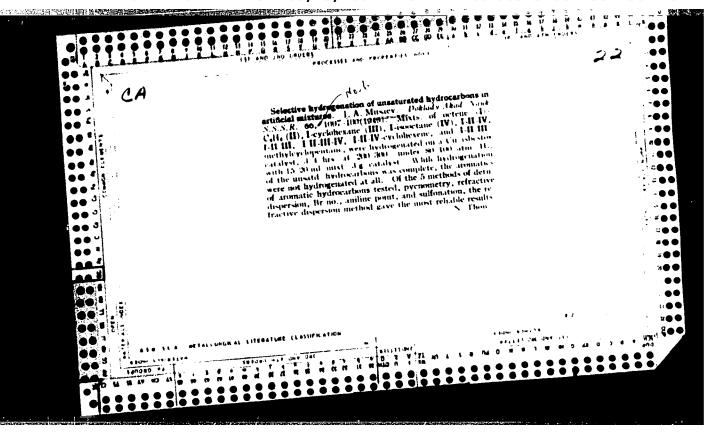
SO: Vechernyaya Moskva, Mar, 1947 (Project #17836)



PA 45/49T14 MUSAYEV, I. A. "General Bases of Refractometric Elementary (Ring) Analysis of Saturated Hydrocarbons," G. P. Cal'pern, USEN/Chemistry - Refractometry "Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 4 I. A. Musayev, Petroleum Inst, Acad Sci USSR, 10 pp refraction. Whether or not a saturated hydrocarbon (or mixtures of them) belongs to "middle" homologous carbons may be calculated accurately by specific group may be determined accurately by specific re-fraction and average molecular weight. Membership Percent of hydrogen in mixtures of saturated hydro-USSR/Chemistry - Refractometry (Contd) determined by number of rings in molecule. mixture in the "middle" homologous series is best of a hydrocarbon in a homologous series or its polymeric homologous series to analysis of petroleum Disallows Vlugter's a priori solution of the prob-29 Jan 48. les on adaptability of one or another "standard" fractions. Chemistry - Analysis of Hydrocarbon Mixtures Submitted by Acad S. S. Nametkin. #11764/54 Apr 49 #5/49T# Apr 49







MUSHYEV, 1-H.

> Chemical Abst. Vol. 48 No. 6 Mar. 25, 1954 Petroleum, Lubricants, and Asphalt

Near S.J.S. R. 1, No. 2, 244-34(1807).—Hydrogenation in an analytical unit designed by the authors with N. D. Zelinskil's Ni + Al-O. catalyst (C.A. 18, 2885) at 100-120 atm. and 290-300° converts the following aromatic hydrocarbons into the corresponding hydrogenomatic compds. phenyllexane, phenylectadecane, diphenylhexane, methylpropyl-1,2-benzofabene, cyclohexyldiphenylmethane, dicyclohexyldenseue, 1-methylcychohexyldophenylmethane, dicyclohexyldenseue, 1-methylcychohexyldiphen, triphenylmethane, finicyclohexylbensene, flavorne, decaphilmene, triphenylmethane, indicated by physicochem. measurements, and in particular by the agreement between exptl. and theoretical specific refractions of the products. A "cuprated asbestos" catalyst (C.A. 33, 85631) was found to hydrogenate selectively at 100-120 atm. and 200-300° all aliphatic and allcyclic bonds, without attacking aromatic rings. The study of lavorane of fractions of Turak kos-chagyl naphtha. Ibid. 256-63.—The application of the above method to a petroleum fraction, mol. wt. 185-633, and a refractometric analysis of the products proved the no. of rings to increase gradually from 1 to 3. Practically no hydrocarbons with strongly stressed bonds (e.g., of the type of triphenylmethyl) were tound after hydrogenation, and the more accurate, simple, and rapid refractometric analysis is preferable to the combination deten. of C and H. W. M. Sternberg combination deten. of C and H.

