

LUKACS, Kornel, Dr.; GARZO, Gyorgy, Dr.

Antiepileptics in the therapy of paroxysmal tachycardia. Orv. hetil.
99 no.28:958-959 13 July 58.

1. Az Orszagos Mentoszolgalat Korhaza (foigazgato: Grovecz Bela dr.)
Belosztalyanak (vezeto: Stumpf Imre dr., belgyogyszer-foorvos) kozlemenye.
(ANTICONVULSANTS, ther. use
tachycardia, paroxysmal (Hun))
(TACHYCARDIA, PAROKYSMAL, ther.
anticonvulsants (Hun))

ACCESSION NR: AT4009523

H/2502/63/039/001/0033/0037

AUTHOR: Csakvari, B.; Garzo, G.; Jenei, S.

TITLE: On the Direct Synthesis of Methylchlorosilanes

SOURCE: Academia scientiarum hungaricae. Acta chimica, m v. 39, no. 1, 1963, 33-37

TOPIC TAGS: silane, silane production, silicon compound, dichlorosilane, methylchlorosilane

ABSTRACT: Methylchlorosilanes were obtained by methylating dichlorosilane (SiH sub 2 Cl sub 2), which, in turn, is a decomposition product of trichlorosilane (SiHCl sub 3). An apparatus shown in ENCLOSURE 01 was used. HCl gas, mixed with varying amounts of BCl sub 3 catalyst was introduced into reactor A, where they were agitated and reacted with an 80:20 Si-Cu alloy contact mass. A mixture of chlorosilanes was formed. It contained 35% dichlorosilane by weight, proving that this was an intermediate substance in the formation of methylchlorosilane (CH sub 3 SiHCl sub 2). The mixture was drawn off, mixed with CH sub 3 Cl, and conducted into reactor B. There it was again brought into contact with an Si-Cu alloy.

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ACCESSION NR: AT4009523

Reactors A and B were operated at 300°C. From B, the products were conducted to a cooler and separated by fractional distillation from CH sub 3 Cl. The amounts of reagents and catalyst used and product compositions are tabulated. The effectiveness of the BCl sub 3 catalyst is evident; BCl sub 3 also catalyzed the equilibrium rearrangement of methylchlorosilanes and tetrachlorosilane. Later, a single reactor (described in Acta Chimica Hungar. v. 39, p. 27) was used instead of reactors A and B. This was simpler and more practical, although the product yield was not as good as with the two-reactor arrangement. Enclosures; 01. Original article has: 1 diagram, 1 table, 1 graph.

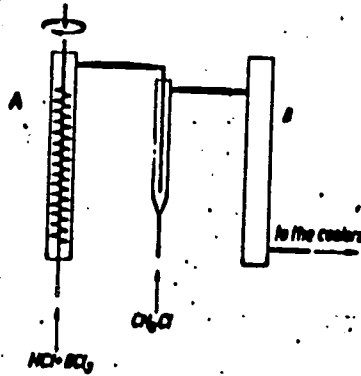
ASSOCIATION: Eotvos Lorand Tudomanyegyetem, Általános és Szervetlen-Kémiai Intézet (Institute of general and inorganic chemistry, L. Eotvos university); Budapest and Magyar Tudományos Akadémia, Szervetlen Kémiai Kutatócsoport (Research group for inorganic chemistry, Hungarian academy of sciences)

SUBMITTED: 18May63 DATE ACQ: 24Jan64 ENCL: 01
SUB CODE: GC NO REF SOV: 003 OTHER: 007

Card 2/3

ACCESSION NR: AT4009523

ENCLOSURE: 01



Card 3/3

L 01106-66 EPF(c)/EWP(3)/T WW/RM
ACCESSION NR: AT5022327

HU/2502/64/041/003/0269/0280

88
35
A+1
55

AUTHOR: Garzo, Gabriella (Budapest); Szekely, Tamas (Sekey, T.) (Budapest)

TITLE: Studies on thermal processes in cross-linked organosilicon polymers by means of microreactor - gas chromatography

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 41, no. 3, 1964, 269-280

TOPIC TAGS: organosilicon compound, polymer, gas chromatography, thermodynamics

Abstract: A method was developed for the study of the thermal processes in various cross-linked organosilicon polymers. It involved the gas chromatographic analysis of the thermal decomposition or pyrolysis products obtained at various temperatures and other experimental parameters. The gas chromatograph used was the Pye Argon Chromatograph (W. G. Pye & Co. Ltd., Cambridge, England) equipped with a 120-cm. glass column packed with 10% AFM [composition not specified] on 80-120 mesh Celite. Column temperature was 100°C; carrier gas flow rate, 30-50 ml./min. Some examples were described and discussed. Orig. art. has 8 formulas, 1 graph and 2 tables.

ASSOCIATION: Lehrstuhl für Allgemeine und Anorganische Chemie der L. Eotvos Universität, Budapest (Department for General and Inorganic Chemistry, L. Eotvos Card 1/2)

L 01106-66

ACCESSION NR: AT 5022327

44, 55
University); Forschungsgruppe für Anorganische Chemie der Ungarischen Akademie
der Wissenschaften, Budapest (Research Group for Inorganic Chemistry at the Hungarian
Academy of Sciences) 3

44, 54
SUBMITTED: 29Feb64

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 000

OTHER: 014

JPRS

Card 2/2

NEPELOV, G.M.; GARZO, G.; SEKEY, T.; SHIRYAYEV, V.I.

Structure and thermal degradation of cyclic and linear polymers of dimethylsilylene and dimethylgermylene. Dokl. AN SSSR 164 no.4:822-825 0 '65. (MIRA 18:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo i Issledovatel'skaya gruppa po neorganicheskoy khimii Akademii nauk Vengerskoy Narodnoy Respubliki, Budapecht. Submitted March 26, 1965.

GARZO, I.

"Is milking by rows advantageous?"

p. 7 (Allami Gazdasag) Vol. 9, no. 12, Dec. 1957
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

GARZO, T.

Chemical Abstracts,
v. 47, July 10, 1953,
Biological Chemistry

Adenosinetriphosphatase of the erythrocytes. T. Garzo, A. Ullmann, and F. B. Straub (Univ. Budapest). *Acta Physiol. Acad. Sci. Hung.* 3, 513-24 (1952) (in German).— Adenosinetriphosphatase (I) was found in hemolyzed erythrocytes (II) of the cat, man, bovine, horse, pig, and rabbit, in the order of increasing concn. Even after a 40-fold purification of I, it could not be sep'd. from the membranes of II. I is activated by $MgCl_2$ and inhibited by $0.0005M$ Ca^{++} and by $0.0005M$ NaF . I is able to split off all three P from the substrate and to hydrolyze pyrophosphate. Peter Bernfeld

Of the medical Chemistry Institute of Budapest University and of the Electron Laboratory of the Hungarian Academy of Sciences.

GARZÓ T. and ULLMAN A.

Chem. Inst., med. Univ., Budapest. *Angaben über die Stoffwechsel von konservierten roten Blutkörperchen. Metabolism of stored erythrocytes ACTA PHYSIOL. ACAD. SCIENS. HUNG. (Budapest) 1954, 5/suppl.(7-8)

SR: BIOLOGIA MEDICA - Section II, Vol. 7, No. 10

CARZÓ, T.

Viable protein bodies (filtrable form) of *Saccharomyces cerevisiae*. I. The regeneration of destroyed yeast cells in the sterile filtrate. T. Kelsti, G. Szabolcsi, A. Lovdval, and T. Carz6 (Hung. Acad. Sci., Budapest). *Acta Physiol. Acad. Sci. Hung.* 5, 213-40 (1954) (in German).—Cell-free Seitz filtrates of yeast cultures destroyed by supersonic waves regenerated 39% of the times tried, and lyophilized filtrates and filtrates from mechanically destroyed cells could be regenerated in every case. The regenerated yeast had the same morphology as the original yeast, but whereas the latter utilized only glucose, fructose, and their disaccharides, the regenerated cells could use the 18 different carbohydrates tried. 33 references. A. Dietz.

GARZO,
T.

Met

6

6407. Explanation of absence of Pasteur effect in Ehrlich ascites cancer cells. G. Acs, T. Garzó, G. Grósz, J. Molnár, O. Stephaeck and F. B. Straub. *Acta physiol. Acad. Sci. Hung.*, 1955, 8, 269-278 (Chem. Inst., Med. Univ., Budapest, Hungary).—Ehrlich cancer cells take up inorg. phosphate and form esters in large quantities under aerobic conditions in the absence of 5×10^{-4} monolodoacetic acid and glucose. Ester formation does not take place anaerobically. The aerobically formed ester is hexose diphosphate. Cell-, cell-fragment- and nuclei-free homogenates of the cancer cells synthesise by phosphorylation hexosediphosphate under aerobic conditions without addition of NaF, hexokinase, or ATP. Apyrase inhibits phosphorylation by homogenates. It is assumed that the reaction is maintained by a supply of ATP from the mitochondria. Mitochondria of the Ehrlich cancer cells differ from other cells in that they have a strong hexokinase activity and a weak ATP-ase activity. It is concluded that the aerobic glycolysis of the cancer cells, the absence of the Pasteur effect, is due to their possession of an aerobic phosphorylating mechanism based on the peculiar distribution of ATP-ase and hexokinase activities in their mitochondria. (German)

A. B. L. BERNÁK.

GARRO, T.

incorporation of radioactive amino acids and amylase synthesis in pancreatic tissue in vitro. T. Garro, K. Perl, M. T. Szigó, A. Ullmann, and F. B. Straub (Univ. Budapest). *Acta Physiol. Acad. Sci. Hung.* 11, No. 1, 23-9 (1957) (in German). -- Radioactive glycine and tyrosine are incorporated into tissue slices of pigeon pancreas in parallel with synthesis of amylase. The amylase synthesis in homogenates, mitochondrial fractions, and aq. ext. of acetone-dry pancreas powder is not connected with the incorporation of these amino acids. O. C. Elmer

EXCERPTA MEDICA Sec 2 Vol 12/1 Physiology Jan 59

36. INCORPORATION OF GLYCINE-1-C¹⁴ INTO THE AMYLASE OF PANCREAS TISSUE SLICES - Garzó T., Szabó M. T. and Straub F. B. Inst. of Med. Chem., Med. Univ., Budapest - ACTA PHYSIOL. ACAD. SCI. HUNG. 1957, 12/4 (299-302) Graphs 1 Tables 1

The rate of incorporation of glycine-1-C¹⁴ into the amylase of pigeon pancreas tissue slices was investigated, using a micro-scale procedure. After a time lag of 10 min., concentration in amylase was found to be 20-70 times as high as in the non-amylase proteins. Pancreatic amylase appeared to be formed in the cell in 2 distinct steps: (1) a de novo synthesis of a precursor protein from amino acids, and (2) synthetic transformation of the precursor into the enzymatically active amylase molecule.

Hansard - Baton-Rouge, La.

SZABO, M.T.; GARZO, T.

Incorporation of glycine-1-C¹⁴ into the subcellular fractions and their isolated amylase of pigeon pancreas slices. Acta physiol. hung. 12 no.4: 303-310 1957.

1. Institute of Medical Chemistry, Medical University, Budapest.

(GLYCINE, metab.

pancreas subcellular fractions, incorporation into amylase in pigeon tissue slices.)

(PANCREAS, metab.

amylase in subcellular fractions, incorporation of glycine in pigeon tissue slices.)

(AMYLASES

in pancreas subcellular fractions, incorporation of glycine in pigeon tissue slices.)

GARZO, T.

ULLMANN, A.; GARZO, T.; STRAUB, F.B.

On the formation of labelled amylase in cell free preparations. Acta
physiol. hung. 13 no.2:179-181 1958.

1. Institute of Medical Chemistry, Medical University, Budapest.

(AMYLASES

form. from precursor in cell-free prep.)

GARZO, T.; SZABO, Maria T.; STRAUB, F.B.

Amino acid incorporation in pigeon pancreas and in pigeon pancreas
amylase in the presence of various inhibitors. Acta physiol.hung.
17 no.2:213-223 '60.

1. Institute of Medical Chemistry, Medical University, Budapest.
(AMINO ACIDS metab.)
(PANCREAS metab.)
(AMYLASES metab.)

GARZO, Tamasne; TILL, Ferenc; TILL, Istvan

Gas chromatographic analysis of methyl-chlorine-silanes. Magyar
kem folyoir 68 no.8:327-333 Ag '62.

1. Eotvos Lorand Tudományegyetem Általános- és Szervetlen-Kémiai
Tanszéke, Budapest, és Magyar Tudományos Akadémia Szervetlen-Ke-
miai Kutatócsoportja.

GARZO, Tamásné

Report on my study trip to the Soviet Union. Kom tud kozl
MTA 22 no.3/4:456-458 '64.

1. Research Group on Inorganic Chemistry, Hungarian Academy of
Sciences, Budapest.

KNAUSZ, Dezso; GARZO, Tamasne; GOMORY, Pal; TELEGDI, Lajos

Synthesis and gas chromatographic determination of vinyl-chlorine-silanes. Magy kem folyoir 70 no.3:119-122 Mr '64.

1. Chair of General and Inorganic Chemistry, Lorand Eotvos University, Budapest, and Research Group of Inorganic Chemistry, Hungarian Academy of Sciences.

Diagnosis

HUNGARY

LUDWIG, Karoly, Dr, GARZULY, Ferenc, Dr, KADAS, Laszlo, Dr; Vas Megye Council "Markusovszky" Hospital, Department of Hematology (chief physician: ISTVAN, Lajos, Dr) and Pathological Anatomy (chief physician: KADAS, Laszlo, Dr) (Vas Megyei Tanacs "Markusovszky" Korhaz, Haematologiai Osztaly es Korbonc-tani Osztaly).

"Weil's Disease Resulting in Death Caused by Renal Insufficiency."

Budapest, Orvosi Hetilap, Vol 107, No 34, 21 Aug 66, pages 1617-1619.

Abstract: [Authors' Hungarian summary] A case of leptospirosis is reported which had the clinical appearance of Weil's disease, was presumably caused by L. Saxkoebing, was confirmed by serological and histological tests and resulted in the death of the patient because of renal insufficiency. The importance of early treatment and of early diagnosis is pointed out and some diagnostic problems are discussed briefly. Of interest in the case is the demonstration of numerous leptospirae in the organs by means of Levatidin's silver impregnation method. 13 Eastern European, 5 Western references.

1/1

KUZIN, A.M.:GARZUNOVA, G.A.

Early hydrolyzing compounds containing hexosamine in the human
brain. Doklady Akad. nauk SSSR 87 no. 5:833-835 11 Dec 1952.
(GLML 23:5)

1. Presented by Academician A. I. Oparin 18 October 1952. 2. Ry-
zan' Medical Institute imeni I. P. Pavlov.

GARZUNOVA, G. A.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
biological Chemistry

Participation of complex polysaccharides in carbohydrate metabolism. A. M. Kuzin, G. A. Garzunova, and Ya. V. Mamul. *Doklady Akad. Nauk S.S.S.R.* 92, 637-40 (1953).
—White rat injects intravenously with C^{14} -labeled glucose (obtained photosynthetically) shows a rapid increase of C^{14} activity in its tail venous blood after 1 hr., after which the activity declines steadily over 6.5 hrs. to almost 0. The activity of tissues (per 100 g.) was in the following declining order: intestine, kidney, spleen, brain, liver, blood, heart, muscle. Most carbohydrate in the C^{14} -contg. fraction is in low-mol.-wt. form in these organs and may contain the glucose formed from degradation of glycogen during the isolation of the tissues. The femoral bone shows considerable uptake of C^{14} from the glucose. The gray matter of the brain is much more active in accumulation of C^{14} than the white matter.
G. M. Kosolapoff—

Lab. of Isotopes, Inst. Biophysics, A.S. USSR.

GARZENOVA-DAL'SKAYA, G. A.

"Readily Hydrolyzed Compounds of the Brain Which Contain Hexose Amines." Cand Biol Sci, Acad Med Sci USSR, 25 Jan 55. (VM, 14 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

GARZUNOVA-DAL'SKAYA, G.A.

Relation of the protein fractions and of the easily hydrolyzable carbohydrates determined in them in the livers of mice with transplanted hepatomas, in tumor tissue, and in the livers of healthy mice. A. M. Kuzin, A. A. Tustanovskii, and G. A. Garzunova-Dal'skaya. *Voprosy Med. Khim.* 2, No. 1, 32-40, 1955. Mice received subcutaneous transplants of hepatomas and were sacrificed 18 days later; proteins of their livers and of the hepatomas and of the livers of healthy controls were fractionated by extn. serially at 4° with water, 5% KCl, 1.7N NaCl, 0.1N NaOH, and pptn. at pH 5.0-5.8, protein sol. in 0.1N NaOH pptd. by Cl_2CCO_2H , leaving a fraction not extd. by any of these. P was detd. in each fraction, as were total carbohydrates, pentoses, and hexosamine after 4-hr. hydrolysis in *N* HCl at 100°. The water-sol. fraction of the protein of livers of mice with subcutaneous hepatomas, of livers of controls, and of hepatoma tissue (as mg. % of dry protein) were 16.70, 23.09, and 33.17, resp., showing the demands on the protein resources of the organism by the tumor. The parallel between this change and the cancerogenic change from normal liver cells to malignant hepatoma cells is discussed. 23 references.

Cyrus C. Sturgis, Jr.

3

SREDNIAWA, Jerzy, mgr inz.; MIELECKI, Tadeusz, doc. dr inz.; NOWAK, Zygfryd,
mgr inz.; ROMANCZYK, Emanuel, mgr inz.; TOBICZYK, Andrzej, mgr inz.;
GAS, Bogdan, mgr inz.

Industrial experiment of applying starch flocculation as performed
in the processing plant of the Knurow mine. Wiadom gorn 16 no.4:
113-117 Ap '65.

1. Separator Designing Office, Katowice (for Sredniawa).
2. Central Mining Institute, Katowice (for Mielocki, Nowak, Romanczyk, Tobiczki).
3. Knurow mine (for Gas).

GASAKOV, T. G., GUSEV, A. I.

"On the agglutination of the elemental viral corpuscles."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

GASALIN, V.S.; MIRONOVA, Yu.P.

Significance of vectocardiography in the diagnosis of coronary
insufficiency with disorders of intraventricular conductivity.
Terap. arkh. 32 no. 4:26-29 S '60. (MIRA 14:1)
(CORONARY HEART DISEASE) (HEART BLOCK)
(VECTOCARDIOGRAPHY)

GASAN, P. A.: Master Agric Sci (diss) -- "Silt deposition as a method of combat-
ting filtration from ponds, reservoirs, canals, and waste-water collectors".
Khar'kov, 1958. 14 pp (Min Agric USSR, Khar'kov Order of Labor Red Banner Agric
Inst im V. V. Dokuchayev), 150 copies (KL, No 7, 1959, 127)

KRUPSKIY, N.K.; GASAN, P.A.

Colloid-chemical technology of soils and their colmatage
technique. Dokl. AN SSSR 165 no.5:1132-1134 D '65.

(MIRA 19:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
im. A.N.Sokolovskogo. Submitted May 21, 1965.

GASAN BALA, M.; ISMAILOV, M.A.; GRIGORYAN, N.A.; KULIBEKOV, A.A.

Double-rimmed three roller bits. Mash. i neft. obor. no.5:
3-5 '64. (MIRA 17:6)

1. Zavod im. S.M. Kirova i Institut razrabotki neftyanykh i
gazovykh mestorozhdeniy AN AzerSSR.

3,1540

S/035/61/000/010/015/034
A001/A101

AUTHORS: Guseynov, R.E., Gasanalizade, A.G., Melikov, G.O., Guseynov, K.I.
TITLE: The chromospheric flare of June 1, 1960
PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 10, 1961, 56, abstract 10A406 ("Solnechnyye dannyye", 1960, no. 7, 74 - 77)
TEXT: The authors describe the specific features in development of the flare, intensity 3, which was observed over the active group of sunspots. They present the curves of variations of brightness and areas of 4 brightest knots of the flare.

[Abstracter's note: Complete translation]

VB

Card 1/1

S/035/61/000/011/017/028
A001/A101

AUTHORS: Guseynov, R. E., Gasanalizade, A. G.

TITLE: On a chromospheric flare in which movement was detected

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 11, 1961, 59,
abstract 11A426 ("Solnechnyye dannyye", 1960 (1961), no. 9, 75 - 78)

TEXT: On June 19, 1960, a chromospheric flare was observed in H α line at an altitude of 15,390 km above the solar edge at the Shemakha Astrophysical Observatory, AS Azerbaidzhan SSR, by means of an interference-polarization filter with passband 0.5 A. The authors present a spectroheliogram of this flare region near the brightness maximum and the results of measurements at various instants of development of brightness, area and height of the flare. The changes in all three quantities proceed synchronously, which testifies to the existence of an actual movement of the substance in the flare. The average speed of flare rising was 13 km/sec. ✓

B. Ioshpa

[Abstracter's note: Complete translation]

Card 1/1

GASANBEROV, M.I. [REDACTED]

Uzra qabarangda inqilabchilik. Izert. xalq. xabar. 46-1982:17-53
Ag 1983. (MIRA 17:12)

1. In kafedrayi ulgurli Azerbaytchanskoye instituta usulvashenst-
vovaniya vrachey.

GASABEKOV, M.I.

Urine clearance test in the dynamics of renal function in
nephroureterolithiasis. Azerb. med. zhur. 42 no.3:35-40
Mr '65. (MIRA 18:6)

GABAN-DZHARALOV, A. E., jt. au.

Organization of labor of mixed brigades for underground repair in extracting petroleum.

Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gornootplivnoi lit-ry, 1952.
85 p. (Biblioteka novatora-neftianika) (53-12322)

TNS 1.5.AS3

GASAN-DZHALALOV, A. B.

Burenie dvukhstvol'no-mnogoriadnykh skvazhin. Opyt Molotovskoi kontory bureniia ob'edineniia Azneft' (Drilling two-hole multilevel oil wells; experience of the Molotovsk office of the Azerbaijan State Oil and Gas Industry Trust) Moskva, Gostoptekhizdat, 1953. 16 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

GASAN-DZHALALOV, A.B.; KARPENKO, M.M.; PROTASOV, G.N.; LOBACHEV, A.A.

[Multiple oil well drilling and operation; from experience of the State
All-Union Trust of the Azerbaidzhan Oil and Gas Industry] Burenie i eksplua-
tatsiia mnogoriadnykh skvazhin; iz opyta ob"edineniia azneft'. Moskva, Gos.
nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1953. 71 p.
(MLRa 6:8)
(Petroleum)

GASAN-DZHALALOV, A.B.

"Mechanization and Advanced Methods of Organizing Droplift Operations in Drilling." Experience of the Oil Trades of the Azerbaïdzhan SSR (Soviet Socialist Republic). Gostoptekhnizdat, 1955, 108 p, price: rubles 2.35. In the brochure is summarized the experience of the petroleum people of the Azerbaïdzhan Soviet Socialist Republic in organizing the work of drop-lift drilling: advanced methods of managing (rationalizing) and mechanizing the lowering and raising of drill stems and casings. Brochure calculated for a broad circle of oil and gas well drillers, principally for operators, their assistants, and drilling crews.

So: A-3080689

GASAN-DZHAILOV, A.

New equipment used in oil fields of Azerbaijan. NTO no.10:42
0 '59. (MIRA 13:2)

1. Predsedatel' seksii bureniya Azerbaydzhanskogo respublikanskogo
pravleniya Nauchno-tekhnicheskogo obshchestva neftyanoy i gazovoy
promyshlennosti.

(Azerbaijan--Oil fields--Equipment and supplies)

TER-GRIGOR'YAN, A.I., inzh.; AVETISYAN, A.A., inzh.; GASAN-DZHALALOV,
A.B., inzh.; GUKHMAN, M.I., inzh. [deceased]; DAVTYAN, S.Kh.,
inzh.; DADASHEV, B.B., kand.tekhn.nauk [deceased]; DANIELYANTS,
A.A., inzh.; DEDUSENKO, G.Ya., kand.tekhn.nauk; IOANESYAN, R.A.,
inzh.; KARASIK, F.Ye., inzh.; KULILEV, I.P., kand.tekhn.nauk;
KULI-ZADE, K.N., kand.tekhn.nauk; LANGLEBEN, M.L., kand.tekhn.
nauk; MAIERA, R.S., inzh.[deceased]; MIKHAYLOV, V.R., inzh.;
MURADOV, I.M., inzh.; POLYAKOV, Z.D., inzh.; PROTASOV, G.N., kand.
tekhn.nauk; SAROYAN, A.Ye., kand.tekhn.nauk; SEID-RZA, M.K., kand.
tekhn.nauk; TARANKOV, V.V., inzh.; FRIDMAN, M.Ye., inzh.; SHNEYDKROV,
M.R., kand.tekhn.nauk; IAISHNIKOVA, Ye.A., kand.tekhn.nauk; SHTEYN-
GEL', A.S., red.izd-va

[Driller's handbook] Spravochnik burovogo мастера. Izd.2., ispr.
i dop. Baku, Azerbaidzhanskoe gos.izd-vo neft.i nauchno-tekhn.lit-ry,
1960. 783 p. (Oil well drilling) (MIRA 13:5)

USSR/Medicine - Infectious Diseases Feb 52

"Experience in the Treatment of Brucellosis With Intracutaneous Vaccine Injections," G. A. Gasan-Dzhalalov, Cand Med Sci, N. A. Rzayeva, Baku, Azerbaydzhan Sci Res Clinical Inst

"Klin Med" Vol XXX, pp 33-38

Intravenous vacchinotherapy (I) of brucellosis causes too severe a shock. Intramuscular vacchinotherapy (II) of brucellosis has been rejected by USSR clinicians as ineffective on the basis of Pandikov's results. Both I and II produce malaria seizures when brucellosis is accompanied by malaria. Since 1947, 209T75

USSR/Medicine - Infectious Diseases Feb 52
(Contd)

Intracutaneous inoculation with a polyvalent vaccine prepd from a mixt of strains of Bruc. melitensis and Bruc. abortus bovis (in the ratio 2:1) has been used successfully and found nonirritating. In the majority of cases, the treatment was effective after 1-3 five-day courses of treatment interrupted by periods of 5-6 days.

GASAN-DZHALALOV, G. A.

209T75

L 36999-66 EWT(1) GW
ACC NR: AT6023357 SOURCE CODE: UR/3019/65/000/004/0003/0014

62
61
B+1

AUTHOR: Gasanalizade, A. G.

ORG: none

TITLE: Behavior of the forbidden 6300-Å line of oxygen in the solar spectrum

SOURCE: Shemakha. Astrofizicheskaya observatoriya. Soobshcheniya, no. 4, 1965. Fizika Solntsa (Physics of the sun), 3-14

TOPIC TAGS: forbidden line, ~~basic configuration~~, atmospheric refraction, dissociative recombination, electron temperature, equivalent width, OXYGEN, SOLAR SPECTRUM

ABSTRACT: Absorptions in the forbidden lines 5577 Å, 6300 Å, and 6364 Å are conditioned by the transitions $^1D_2 + ^1S_0$, $^2P_2 + ^1D_2$, and $^3P_1 + ^1D_2$, corresponding to the basic configuration. Special attention is given to the 6300-Å line whose wavelength, as measured by various authors, is inconsistent. The NiI 6300-Å line was measured from spectrograms from the Main Astronomical Observatory and the final result was found to be 6300.340 ± 0.004 Å. This value differs from the generally accepted value of 6300.363 Å. The computation was repeated taking atmospheric refraction and the frequency in vacuum into

Card 1/2

L 36999-66

ACC NR: AT6023357

consideration. The wavelength in air was found to be 6300.336 \AA , 27 m\AA less than generally accepted. The superposition of the OI line of 6300.308 \AA and the NiI line of 6300.340 \AA forms a line in the center of the solar disk of $6300.3186 \pm 0.0020 \text{ \AA}$. The equatorial rotational velocity of the Sun was found to be 1.873 km/sec . The measured equivalent width of the OI line did not change markedly in time. A slight increase in width was observed with increased zenithal distance of the Sun. Theoretical computations show that a change of the coefficient of dissociative recombination of the O_2 molecule at high electron temperatures can increase the intensity to 400 kR . This may be the reason for the decrease of the equivalent width of the 6300-\AA Fraunhofer line. The author thanks V. A. Krut for consultations. Orig. art. has: [EG]
4 figures, 3 tables, and 6 formulas.

SUB CODE: 03/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 020
ATD PRESS: 5035

Card 2/2 *RS*

CASANALIEVA, F.M.

USSR/General Problems of Pathology - Tumors.

T-5

Abs Jour : Ref Zhur - Biol., No 4, 1958, 17391

Author : Casanaliyeva, F.M.

Inst : -

Title : A Fundusoscopic Study of Leukemic Patients.

Orig Pub : Sb. nauchn. tr. Azerb. n.-i in-ta perelivaniya krovi,
1957, vyp. 3, 74-75.

Abstract : No abstract.

Card 1/1

GUSEYNOV, R.E.; GUSEYNOV, M.Dzh.; GASANALIZADE, A.G.; GUSEYNOV, K.I. MELIKOV,
G.O.; AVAKOVA, L.M.

Data on chromosphere flares observed at the astronomical station of
the Astrophysics Sector Academy of Sciences of the Azerbaijan S.S.R.
during the International Geophysical Year and International Geophysical
Co-operation in 1959. Izv. AN Azerb. SSR Ser. fiz.-mat. i tekt. nauk
no.3:143-149 '60. (MIRA 13:11)

(Sun--Prominences)

GASANENKO, A.; SUKHOMLIN, F.

Sowing grain into slightly frozen soil. Nauka ipered. op. v sel'-
khoz. 18 no.2:59 F '58. (MIRA 11:3)

1. Direktor sovkhoza "Stepnoy" (for Gasanenko). 2. Glavnyy agronom
sovkhoza "Stepnoy" (for Sukhomlin).
(Grain)

GASANENKO, A. Ya.

USSR / Cultivated Plants. Forage Crops.

M-5

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73029.

Author : Gasanenko, A. Ya.
Inst : Ukrainian Scientific-Research Institute of Irriga-
ted Agriculture.
Title : Agrotechnical Features and Productivity of Melon
Forage Crops on Succulent Fodder.

Orig Pub: Byul. nauchno-tekhn. inform. Ukr. n.-i. in-t orosh-
ayemogo zemled., 1957, No 3, 38-41.

Abstract: The agricultural engineering of the cultivation of
forage melon crops has been developed for the dry
conditions of the Ukraine. The maximal harvests
are: watermelon 310 centners/ha, squash 210 c/ha
and marrow squash 286 c/ha obtained with planting
in the second half of April. Optimal density of
stand for forage watermelon (*Citrullus colocynth-*

Card 1/3

USSR / Cultivated Plants. Forage Crops.

M-5

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73029.

Abstract: sides Pang.) is 3.4 thousand plants per 1 ha (2.1 X 4 m), for squash 5.1 thousand plants per 1 ha (2.8 X 0.7 m) and for marrow squash 10.2 thousand plants 10.2 thousand plants per 1 ha (1.4 X 0.7 m). Decrease in stand density of squash and marrow squash contributes to the increase of the average weight of the fruit, but causes a decrease in harvest. The effective influence of pinching on the development of the plants is noted, which prevents the strong growth of runners and accelerates the ripening of the fruit. The largest harvest addition (21-22%) in squash and watermelon was obtained from pinching all the runners, and addition of 18% - from pinching of only the main runners and 3% - from pinching of lateral runners. Periodic collecting of the fruit with 10-15 day intervals causes

Card 2/3

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USSR / Cultivated Plants. Forage Crops.

M-5

Aos Jour: Ref Zhyr-Biol., 1958, No 16, 73029.

Abstract: the appearance of new young fruit and a harvest increase of 52-60%. -- M. A. Novoderzhkina.

Card 3/3

GASANENKO, A. Ya.

GASANENKO, A. Ya.

Let's reduce the cost of producing one centner of milk. Lauka i
pered.op. v sel'khoz. 2 no.8: 30-31 '57. (MLRA 10:9)

1. Direktor sovkhosa "Stepnoy," Khersonskoy oblasti.
(Dairying)

GASANENKO, L.B.

Normal field of vertical harmonic low-frequency magnetic dipoles.
Uch. zap. IGU no. 249:15-36 '58. (MIRA 11:5)
(Prospecting—Geophysical methods)

GASANENKO, L.B.; MOLOCHNOV, G.V.

Electromagnetic field of horizontal magnetic dipoles over horizontally stratified structures. Uch. zap. LGU no.249:45-62 '58. (MIRA 11:5)
(Electromagnetic theory) (Magnetism, Terrestrial)
(Terrestrial electricity)

9.1914

S/169/60/000/011/005/016
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 11, p. 34, # 13536

AUTHOR: Gasanenko, L.B.

TITLE: The Field of a Vertical Harmonic Magnetic Dipole Over the Surface of a Multilayer Structure

PERIODICAL: Uch. zap. LGU, 1959, No. 278, pp. 164-173

TEXT: The problem is considered of the calculation of the electromagnetic field of a vertical magnetic dipole (a horizontal frame of vanishingly by small sizes) fed with a sinusoidal current. The dipole is arranged on the Earth's surface consisting of plane-parallel layers with different specific resistances and a magnetic permeability equal to the magnetic permeability of the vacuum. The solution is reduced to the wave equation of the vector potential under boundary conditions requiring the continuity of the vector potential and its vertical derivative at the boundaries between the layers. A method is given for obtaining the integral expression of the vector potential by means of recurrent reflections

Card 1/2

S/169/60/000/011/005/016
A005/A001

The Field of a Vertical Harmonic Magnetic Dipole Over the Surface of a Multilayer Structure

from the layer boundaries. The recurrent correlations proposed make it possible to write down easily the integral expression of the vector potential for an arbitrary number of layers.

L.L.V. ✓B

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

GASANENKO, L.B.; SHOLFO, G.P.

Calculating the electromagnetic field of a vertical low-frequency
magnetic dipole on the surface of a two-layer structure. Uch. zap.
IGU no.278:174-184 '59. (MIRA 13:2)
(Electric prospecting)

GASANENKO, L.B.

Isoparametric sounding. Uch. zap. LGU no.278:185-188 '59.
(MIRA 13:2)
(Electer prospecting)

GASANENKO, L.B.

Model study of low-frequency electromagnetic fields of geological structures. Uch. zap. IGU no.278:197-208 '59. (MIRA 13:2)
(Electric prospecting)

GASANENKO, L.B.; SHOLPO, G.P.

Theory of electromagnetic soundings. Uch. zap. LGU no.286:185-231
'60. (MIRA 14:3)

(Electromagnetic prospecting)

VAN'YAN, L.L.; GASANENKO, L.B.; SHOLPO, G.P.

Asymptotic representation of the electromagnetic field of a low-frequency dipole. Uch. zap. LGU no.286:232-235 '60.

(MIRA 14:3)

(Electromagnetic prospecting)

GASANENKO, L.P.

Interpretation parameters of the electromagnetic field. Uch.
zap. LGU no.286:236-254 '60. (MIRA 14:3)
(Electromagnetic prospecting)

GASANENKO, L.B.; SHOLPO, G.P.

Calculating the field of a low-frequency dipole in a remote zone.
Uch.zap.IGU no.303:67-77 '62. (MIRA 15:11)
(Electromagnetic prospecting)

GASANENKO, L.B.; SHOLPO, G.P.; TEREKHIN, Ye.I.

Some functions of a complex argument met in the theory of low-
frequency fields. Uch.zap.IGU no.303:78-109 '62. (MIRA 15:11)
(Electromagnetic prospecting)

GASANENKO, L.B.

Approximative expression for the field of a dipole above a horizontally-layered structure with a weak conducting foundation. Uch. zap. LGU no. 303:110-113 '62. (MIRA 15:11)
(Electromagnetic prospecting)

GASANENKO, L.B.

Impedance of the field of a low-frequency raised magnetic dipole.
Uch.lap.LGU no.303:114-117 '62. (MIRA 15:11)
(Electromagnetic prospecting)

GASANIKO, L.B.

Harmonic electromagnetic field with an exponentially varying
amplitude. Vost. 1GU 19 no.22s154-155 '64 (MIRA 18s1)

GASANENKO, L.B.; FELOROV, O.I.

Simulation of frequency soundings over a conducting layer with
a nonhorizontal lower boundary. Uch. zap. LGU no. 324:27-42 '64.
(MIRA 18:4)

GASANENKO, I.B.; MOLOTKOVA, M.N.; SAFCEHNIKOV, B.G.

Normal field of an infinite straight cable (field in the air).
Uch. zap. IGU no.324:43-64 '64. (MIRA 18:4)

GASANENKO, L.B.

Calculating the normal field of an upright magnetic dipole. Uch.
zap. LGU no. 324:70-78 '64. (MIRA 18:2)

GASANENKO, I.B.; SHOLPO, M.Ye.

Theory of the induction method. Uch. zap. LGU no.324:89-120 '64.
(MIRA 18:4)

GASANGUSEYNOV, G.G.; GORIN, G.I.

Oil and gas potentials of the Terek-Sulak Lowland. Geol.nefti i
gaza 6 no.3:13-18 Mr '62. (MIRA 15:4)

1. Dagestantskiy sovmarkhoz.
(Terek-Sulak Lowland—Petroleum geology)
(Terek-Sulak Lowland—Gas, Natural—Geology)

FEN'YEV, N.V.; GASANGUSEYNOV, G.G.; GALIN, V.L.; SHARAFUTDINOV, F.G.

New data on the geological structure, and oil and gas potentials of the northeastern wing of the El'dam-Irgartbash uplift in Daghestan. Geol. nefli i gaza 7 no.5:35-39 My '63.

(MIRA 16:6)

1. Dagestanskaya kompleksnaya geologicheskaya ekspeditsiya i Groznenskiy neftyanoy institut.

(Daghestan—Petroleum geology)

(Daghestan—Gas, Natural—Geology)

BURSHTAR, M.S.; BELOV, K.A.; GASANGUSEYNOV, G.G.; ZNAMENSKIY, V.A.;
L'VOV, M.S.; PUSTIL'NIKOV, M.R.

Principal results of geological prospecting and problems of
regional investigations in the Northern Caucasus. Geol.
nefti i gaza 8 no. 1:23-29 Ja '64. (MIRA 17:5)

1. Severo-kavkazskiy sovet narodnogo khozyaystva i Vsesoyuznyy
nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy in-
stitut.

WERNER, N.A.; GASHIN, R.M.

Some problems in the automatic control of the level of the
protection of underground oil and gas pipelines from cor-
rosion. Izv. vys. ucheb. zav.; nef't' i gaz 7 no.14390-1007
1982 (MIRA 18:2)

1. Azerbaydzhanskly institut nef'ti i khimii im. M. Azizbekova.

L 08781-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WB

ACC NR: AP6021377

SOURCE CODE: UR/0423/65/000/012/0022/0024

AUTHORS: Tsekun, N. A.; Afonskiy, K. N.; Gasanly, R. M.

52

ORG: Azerbaydzhan Institute of Petroleum and Chemistry im. M. Azizbekov
(Azerbaydzhanskiy institut nefi i khimii)

TITLE: An automatic cathode station for protecting underground pipelines and cables from corrosion

SOURCE: Za tekhnicheskii progress, no. 12, 1965, 22-24, 39

TOPIC TAGS: cathode, earth current, electric relay, dc amplifier, electric motor, corrosion protection, potentiometer, electric transformer/ RP-5 electric relay, RD-09 electric motor

ABSTRACT: This paper describes one version of an automatic cathode station, developed with the aim of creating a single series of stations with a power of from 0.5 to 5.0 kW. The principal distinguishing feature of the series is the use as the controllable power elements of commercial three-phase induction motors with modified rotors, which are rotary transformers (see Fig. 1). A dc amplifier is used to amplify the control signals and increase the sensitivity. Depending upon the correspondence of the potential of the installation relative to ground to the specified value, the control unit connects an actuator, under the influence of which the power unit changes the operating conditions of the station. The presence of rotary transformers ensures

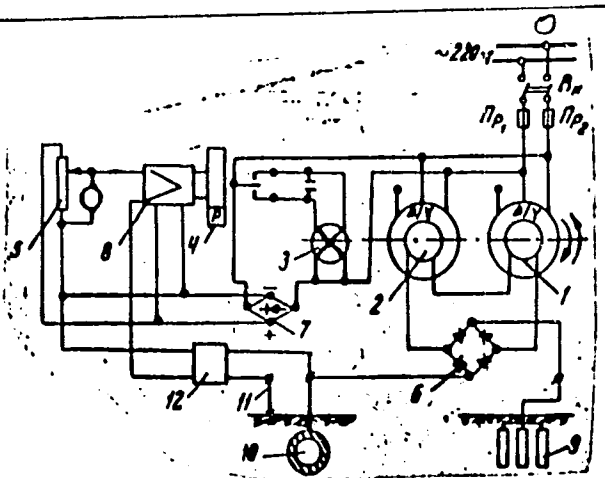
Card 1/3

UDC: 624.11:620.193.7.620.197.5

L 08781-67

ACC NR: AP6021377

Fig. 1. Schematic diagram of automatic cathode station with dual-rotary transformers; 1-2 - dual-rotary transformers; 3 - RD-09 reversible motor; 4 - RP-5 polarized relay; 5 - potentiometer for setting protective potential of installation; 6-7 - single-phase rectifier bridge; 8 - dc amplifier; 9 - anode ground; 10 - underground installation; 11 - comparison electrode; 12 - low-pass filter.



smooth, contactless control of the protective potential (see Fig. 2).

Card 2/3

L 08781-67

ACC NR: AP6021377

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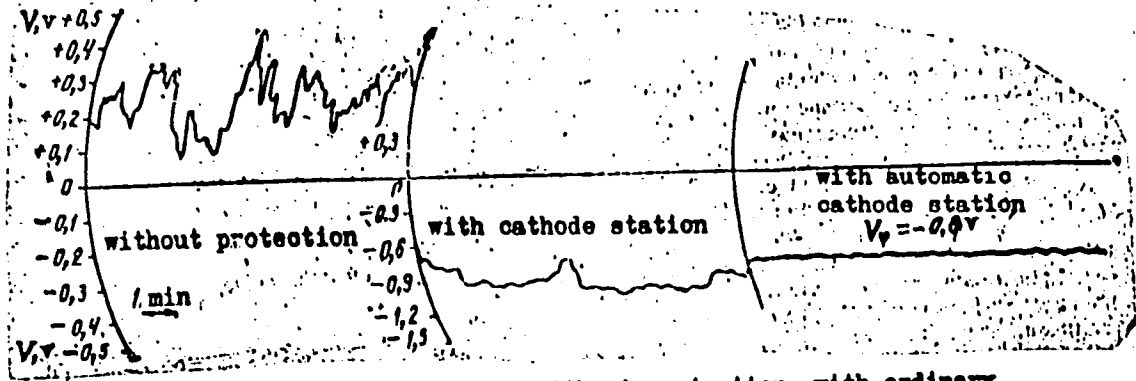


Fig. 2. Stray currents without protection, with ordinary cathode station, and with automatic cathode station

Orig. art. has: 8 formulas, 3 diagrams, and 2 graphs.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002

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SOV/107-59-6-15/50

AUTHOR: Gasnov, A., Candidate of Technical Sciences (Leningrad)

TITLE: New Methods of VHF Communication (According to Foreign Press Publications)

PERIODICAL: Radio, 1959, Nr 6, pp 10-12 and p 20 (USSR)

ABSTRACT: In this article, the author describes the theoretical principles of the "Janet" VHF communication system in Canada. He also briefly describes VHF experiments using the Moon as a retranslator. There are 1 block diagram, 3 graphs and 3 Soviet references.

Card 1/1

GASANOV, A.A.

Infection of the tick *Rhipicephalus bursa* (Can. et Fanz., 1877)
by the causative agent of hemosporodiosis of sheep in the
Nakhichevan A.S.S.R. *Izv. AN Azerb. SSR. Ser. biol. i med. nauk* no. 4:
117-123 '63. (MIRA 17:4)

ASKEROV, M.Yu.; GASANOV, A.B.

Technical and economic effectiveness of drilling small-diameter wells [in Azerbaijani with summary in Russian]. Azerb.neft.khoz. (MIRA 12:4)
38 no.1:47-48 Ja '59.
(Oil well drilling)

ASKEROV, M.Yu.; GASANOV, A.B.

Means for reducing the cost of oil and gas well drilling. Azerb.
neft. khoz. 38 no.8:47-48 Ag '59. (MIRA 13:1)
(Oil well drilling--Costs)

GASANOV, A. D.

"Expansion of Functions in Interpolation Series and Series Near to Them."
Cand Phys-Math Sci, Moscow State U, Moscow, 1954. (KL, No 1, Jan 55)

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

GASANOV, A. G. (Aspirant)

"An Investigation of the Loading of an Automobile Frame." Cand Tech Sci, Moscow
Automotive Mechanics Inst, 30 Dec 54. (VM, 22 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions (12)

SO: SUM No. 556, 24 Jun 55

GASANOV, A. G.

124-1957-10-12183

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 135 (USSR)

AUTHOR: Gasanov, A. G.

TITLE: On an Investigation of the Stresses Arising in Automobile Frames
(K voprosu issledovaniya napryazheniy, voznikayushchikh v rame avtomobilya)

PERIODICAL: Tr. Azerb. Indust. in-ta, 1956, Nr 15, pp 145-156

ABSTRACT: The paper presents some results of experimental investigations on the stressed state of a ZIS-150 truck frame under different operating conditions. A detailed description is offered of the installation of an electro-tensometer within the body of the vehicle. Methods of road tests are described. The sections in which frame failure typically occurs are identified and are subjected to particularly penetrating study. Also given are an analysis of test results and recommendations for improved construction.

N. P. Kashparova

Card 1/1

TALYBZADE, R.T.; GASANOV, A.G.; GUSEYNOV, F.Sh.

Magnitude of torque in screwing and unscrewing threaded sucker
rod joints. Izv.vys.ucheb.sav.; neft' i gaz 1 no.10:117-119
'58. (MIRA 12:4)

1. Azerbaydzhanskiy industrial'nyy institut imeni M.Azizbekova.
(Sucker rods)

GASANOV, A.G.

Determining the life of an automobile frame. Dokl. AN Azerb.
SSR 16 no.7:647-652 '60. (MIRA 13:9)

1. Azerbaydzhanskiy institut nefti i khimii im. Azizbekova. Predstavleno
akad. AN AzerSSR S.M. Kuliyevim.
(Automobiles)

GASANOV, A.I., inzh.

Selecting the characteristics of pickup and recording
apparatus for the measurement of the dynamic properties
of the track. Trudy MIIT no.210:94-100 '65.

(MIRA 18:12)

GASANOV, A.I., inzh.; LUKASHEVICH, M.O.

Selecting the protection of loop oscillograph vibrators
operating in circuits with a tensiometer bridge. Trudy
MIIT no.210:101-104 '65. (MIRA 18:12)

GASANOV, A.S.

Hydraulic of well flooding in a tapering bed. Izv. Akad. Nauk Azerb. SSR.
Ser. Fiz.-tekh. i mat. nauk no. 1:102-106 '65.

(MIRA 18:6)

GASANOV, A.M.

Principal equations of the percolation of a multiphase liquid. Trudy
Inst. mat. i mekh. AN Azerb. SSR 2:142-146 '63. (MIRA 16:10)

GASANOV, A.M.

High-stability amplifier with distributed constants. Prib. 1
tekhn. eksp. 8 no.4:186 J1-Ag '63. (MIRA 16:12)

1. Fiziko-tekhnicheskiy institut AN SSSR.

GASANOV, A. M. *Report*

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Cement, Concrete, and
Other Building Materials

Electrical properties of Azerbaidzhan marbles. I. A. Mukhtarov, I. G. Mamedov, and A. M. Gasanov. *Trudy Inst. Fiz. i. Mat., Akad. Nauk Azerb. S.S.S.R., Ser. Fiz.* 5, 59-63(1951).—Tests were made of the specific surface resistance, specific vol. resistance, and strength of 50 specimens of Azerbaidzhan marble. Specific resistances were measured with special electrodes of Hg which was poured into a cylinder without a bottom and placed on the specimen which floated in a cup of Hg. Elec. strength was tested with com. a.c. with cylindrical electrodes with rounded edges. Only three specimens did not meet Russian standards for insulating materials. H. Z. Kamich

GASANOV, A. M.

"Investigation of Some Questions in the Operation of Boosters With Divided Constants." Cand Tech Sci, Leningrad Inst of Aviation Instrument Building, Leningrad, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

Send
GASANOV, A. M., Master Biolog Sci--(USSR) "Ecological-anatomical investigation of certain Azerbaizhan plants growing in various climatic conditions." Baku, Publishing House of Acad Sci Azerb SSR, 1957, 21 pp. (Acad Sci Azerb SSR. Inst of Botany), 100 copies. (KL, No 41, 1957, p. 107)

GASANOV, A.M.

GASANOV, A.M.

A problem of underground hydromechanics. Izv. AN Azerb. SSR no.11:
3-6 '57. (MIRA 11:1)

(Petroleum engineering) (Fluid mechanics)

GASANOV, A. M.

SOV / 124-58-5-5601

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 99 (USSR)

AUTHOR: Gasnov, A. M.

TITLE: The Solution of the Seepage Problem of Gas-bubble-containing Petroleum by Means of the Flow-net Method (Resheniye zadach fil'tratsii gazirovannoy nefi metodom setok)

PERIODICAL: Dokl. AN AzerbSSR, 1957, Vol 13, Nr 2, pp 123-129

ABSTRACT: The author reduces the well-known equations of the flow of gaseous fluid mixtures in a porous medium to the following form (using the usual terminology)

$$\frac{s}{\mu_p} \nabla [p \rho^3 \nabla p] + \nabla \frac{v_0}{\mu_G} [p(p-1)^2 \nabla p] = \frac{f}{k} \frac{\partial}{\partial t} \{p[(s-v_0)\rho + v_0]\}$$

$$\frac{1}{\mu_p} \nabla [p^3 \nabla p] = \frac{f}{k} \frac{\partial p}{\partial t}$$

Card 1/3 The above expression has been arrived at by specifying the conditions detailed hereafter: neglecting the gravitational force;

SOV/ 124-58-5-5601

The Solution of the Seepage Problem (cont.)

considering the process isothermal; adopting the Henry law; considering the petroleum and gas viscosity constant and the petroleum volume coefficient (p-v-t relationships; Transl. Ed. Note) equal to zero; and limiting the functional applications of the fractional permeabilities of petroleum k_p and gas k_g by the conditions

$$\frac{k_p}{k} = \rho^3 \quad \text{and} \quad \frac{k_g}{k} = (\rho - 1)^2$$

For the case of one-dimensional flow, and assuming that the coefficient of the Henry formula be equal to the value of the specific gravity of the gas under standard conditions ($s = \gamma_0$), algebraic expressions are given to which the differential equations can be reduced under the stated conditions by the replacement of the derivatives by finite differences. It should be noted that the aggregate of the assumptions enumerated above results in a very coarse schematization and limits considerably the field of applicability of the equations proposed. The description of the boundary-condition considerations is not sufficiently clear, besides, the relationship (6) holds true only in case of an impermeable area of influence and cannot be joined to relationship (4) as may be understood from the treatment of the boundary conditions in the article. Careless editing of the article has resulted in, Card 2/3

SOV / 124-58-5-5601

The Solution of the Seepage Problem (cont.)

1) the differentiation symbol is omitted in equation (2), 2) the equal sign is missing in equation (3), and 3) in equations (1) and (2) the Laplace operator is given in place of the Hamilton operator.

V. A. Arkhangel'skiy

1. Fluid flow--Mathematical analysis
2. Petroleum--Motion
3. Gases--Motion

*PREDSTAVLENO AKADEMIKH AN AKADEMII NAUK SSSR Z I. KHALIL-
OVYM.*

Card 3/3