

BABICHEV, F.S.; DZHIGIREY, N.V.; GUKALOV, S.P.

Styryl dyes, merocyanines, and thiocyanines from 2,3-  
polymethylenebenzothiazolium salts. Zhur. ob. Khim. 34 no.7:  
2433-2440 J1 '64 (MIRA 17:8)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko.

GUKALOV, V.

Agricultural Machinery

Mechanization in beet farms of the Ukrainian Main Sugar Trust. Sakh. prom., No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

GUKALOV, V., insh.

Filting scoop. Nauka i pered.op. v sel'khoz. 9 no.3:57-58  
Mr '59. (MIRA 1215)

(Farm equipment)

GUKALOV, V., inzh.

Tractor-mounted bucket shovel. Nauka i pered.op.v sel'khoz.  
9 no.9:66-67 S '59. (MIRA 13:2)  
(Agricultural machinery)

ГУМАРОВ, Т. И.

26538 Fati pobsheniya urozhaynosti vinograda sorta tavriz. Trudy azerbaydzh. Nauch-  
Insled. In-ta mnogolet. Nasazhdeniy, T. I., 1949, c. 116-28

SO: LETOPIS' NO. 35, 1949

МУРАДОВ, А. И.

26537 Metody podrezki uskoryayushchiye vosstanovleniye vinogradnikov, povrezhdennykh morozami. Trudy azerbaydzh, Nauch-Issled. In-Ta mnogolet. nasabkdeniy, T. I., 1949, c. 189-90. - Bibliogr: 49 nazv.

SO: LETOPIS' NO. 35, 1949

S/179/62/000/003/015/015  
E051/E335

AUTHORS: Gukasov, N.A. and Pirverdyan, A.M. (Baku)

TITLE: Theoretical investigation of the motion of cylindrical bodies in the turbulent flow of a homogeneous fluid

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, no. 5, 1962, 178 - 180

TEXT: M.G. Minigazimov has given the results of experiments on a cylindrical body falling in a pipe when the flow in the space between the cylinder and the body was turbulent. It is shown in the present paper that the values of the velocity with which a cylindrical body falls when the flow is turbulent, calculated by the method of A.M. Pirverdyan (Azerbaydzhanskoye neftyanoye khozyaystvo, no. 1, 1951) and N.A. Gukasov (Kolloidnyy zhurnal, no. 1, 1954), agree satisfactorily with the corresponding experimental data of Minigazimov. The cylinder falls with constant velocity in a flow of liquid moving in the

Card 1/2

Theoretical investigation ....

S/179/62/000/003/015/015  
E031/E535

opposite direction (the case when the cylinder moves upwards is similar). Expressions are given for the velocity distribution and mass flow and these are plotted for a range of  $\delta$  ( $\delta$  - distance between the surface of the moving cylinder and the surface of the pipe). There are 5 figures. ✓

SUBMITTED: February 7, 1962

Card 2/2



607330 MA

USSR

A case of movement of a cylindrical body in a viscoplastic disperse system. N. A. Gukasov, *Colloids J. U.S.S.R.* 16, 0-11(1954)(Engl. translation). See C.A. 48, 6108f. H. L. H.

Гукасов, Н. А.

"A case of movement of a cylindrical body in a piecewise-dispersed system. N. A. Gukasov (State Sci. Research and Project Oil-Naphtha Inst., Baku). *Kolloid. Zhur.* 16, 12 (1964). -- The rate of descent of a cylinder in a conical tube (with closed bottom) filled with a Shvedov-Bingham body is calculated. The final equation is solved graphically.

GUKASOV, N.A.; PIRVERDYAN, A.M.

Approximate formula for determining the hydrostatic pressure of a well.  
Neft.khoz.33 [1.e.34] no.9:20-21 B '56. (MLRA 9:10)  
(Petroleum engineering)

15-57-10-14784D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,  
p 236 (USSR)

AUTHOR: Gukasov, N. A.

TITLE: Application of the Theory of Motion of Long Cylindrical  
Bodies to Some Problems of Drilling (Primeneniye teorii  
dvizheniya dlinnykh tsilindricheskikh tel k nekotorym  
voprosam bureniya)

ABSTRACT: Bibliographic entry on the author's dissertation for the  
degree of Candidate of Technical Sciences, presented to  
the Mosk. neft. in-t (Moscow Petroleum Institute), Baku,  
1957.

ASSOCIATION: Mosk. neft. in-t (Moscow Petroleum Institute)

Card 1/1

GUKASOV, N.A.

Determining tensile force in cases of strong absorption of  
drilling muds into layers. Azerb. neft. khoz. 37 no.7:23-24  
J1 '58. (MIRA 11:9)  
(Oil well drilling fluids)

GROBSHTEYN, S.R.; GUKASOV, N.A.; KASIMOV, A.F.; MOVSUMZADE, M.S.

Sand removal from the filter area in wells when well-bottom pressure is equal to or greater than the saturation pressure. Azerb. neft. khos. 37 no.9:26-28 S '58. (MIRA 11:12)  
(Sand)

KASIMOV, A.F.; GUKASOV, N.A.

An approximate method for solving the problem on the consecutive flow of two viscous fluids. Izv. vys. ucheb. zav.; neft' i gaz 2 no.7:103-106 '59. (MIRA 12:12)

1.Azerbaydzhanskiy politekhnicheskiy institut i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti. (Hydraulics) (Petroleum--Transportation)

AMIROV, A.D.; GUKASOV, N.A.; KASIMOV, A.F.

Volumetric concentration of sand in a flowing well. Izv. vys. ucheb. zav.; neft' i gaz 2 no.8:39-44 '59. (MIRA 12:11)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova, i Azerbaydzanskiy nauchno-issledovatel'skiy institut po dobyche nefti (AzNII DN).

(Sand)



PIRVERDYAN, A.M.; GUKASOV, N.A.

Turbulent flow of liquid in a pipe with a circular cross-section.  
Dokl.AN Azerb.SSR 15 no.6:473-477 '59. (MIRA 12:9)

1. Predstavlene akademika AN Azerbaydzhanskoy SSR Z.I.Khalilovym.  
(Hydraulics)

GROBSHTEYN, S.R.; GUKASOV, N.A.; KASIMOV, A.F.; MOVSUMZADE, M.S.

Determining the diameter of a lift in flush production. Azerb.neft.  
khoz. 38 no.4:32-34 Ap '59. (MIRA 12:7)  
(Oil fields--Production methods)

GUKASOV, N.A.

Determining hydromechanical friction during the movement of a  
logging cable in viscoplastic media. Azerb. neft. khoz. 38 no.8:  
24-25 Ag '59. (MIRA 13:2)

(Cables)

AMIROV, A.D.; GUKASOV, N.A.; KASIMOV, A.F.

Settling of sand when a flowing well is shut off. Izv.vys.ucheb.  
zav.; neft' i gaz 2 no.11:61-65 '59. (MIRA 13:4)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova, i  
Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche  
nefti.

(Sand) (Sedimentation and deposition)

GUKASOV, N.A.; KASIMOV, A.F.; PIRVERDYAN, A.M.

Factors controlling the flowing of wells. Azerb.neft.khoz. 38  
no.11:31-34 N '59. (MIRA 13:5)  
(Oil reservoir engineering)

PIRVERDYAN, A.M.; NIKITIN, P.I.; GUKASOV, N.A.

Developing a theory on fluid flow in nonuniform porous media.  
Izv.vys.ucheb.zav.; neft' i gaz 2 no.12:63-68 '59.

(MIRA 13:5)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova  
i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po  
dobyche neft.

(Oil reservoir engineering)

MUSAYEV, I.M.; KASIMOV, A.F.; GUKASOV, N.A.

Simultaneous performance of an oil layer and a flowing well. Azerb.  
neft. khoz. 39 no.5:18-20 My '60. (MIRA 13:10)  
(Oil fields--Production methods)

GUKASOV, N.A.; PIRVERDYAN, A.M.

Designing a plunger lift. Azerb. neft. khoz. 40 no.6:28-30 Je '61.  
(MIRA 14:8)

(Oil wells--Equipment and supplies)



GUKASOV, N.A.; PIRVERDYAN, A.M.

Solution of some hydraulic problems obeying an exponential law.  
Izv.AN Azerb.SSR.Ser.geol.-geog.nauk i nefci no.3:111-117 '62.  
(MIRA 15:12)

(Hydraulics--Graphic methods)

GUKASOV, N.A.

Hydraulic characteristics of a free piston. Azerb.neft.khoz.  
41 no.4:24-27 Ap '62. (MIRA 16:2)  
(Pistons)

GUKASOV, N.A.; PIRVERDYAN, A.M.

Determining pressure losses in a circular pipe in turbulent flow.  
Sbor.nauch.-tekh.inform. Azerb. Inst. nauch.-tekh.inform. Ser. neft.  
prom. no. 1:56-59 '63. (MIRA 18:8)

GUKASOV, N.A.

Calculating the washover of a sampler. Nauch.-tekhn. sbor.  
po dob. nefti no.21:103-107 '63. (MIRA 17:5)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut  
neftyanogo mashinostroyeniya.

GUKASOV, N.A.; PIRVERDYAN, A.M.

Concerning the article "Determination of the change in hydrodynamic pressure on hole walls when lowering the drilling tool and casing." Izv.vys.ucheb.zav.; neft' i gaz 6 no.9:111-112 '63.  
(MIRA 17:2)

ГОКАЛОВ, Н. С. и др. / 1979, стр. 179.

Approximate formula for the determination of the hydrodynamic pressure when the drilling tool and casing string are in motion in the well. Izv. vys. zav. neft' i gaz 7 no. 6 (1979) '64.

(1979, 17:9)

1. Azerbaydzhanskij institut nefti i Khimii imeni Azizbekova  
i Azerbaydzhanskij nauchno-issledovatel'skij institut po dobyche nefti.

GUKASOV, N.A.

Fall of a cylindrical body during turbulent gas flow.  
Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no. 2: 83-90 '64.  
(MIRA 18:11)

GUKASOV, S., inzh., BUTOV, I.

Operation of the "AVZh" machine. Mias. ind. SSSR 29 no.5:14-15  
'58. (MIRA 11:10)

1. Ashkhabadskiy myasokombinat.  
(Oils and fats, Edible) (Rendering apparatus)



GUKASOV, S., inzh. ; BUTOV, I.

Machine for removing the hind hock. Mias. ind. SSSR 29 no.6:48  
'58. (MIRA 11:12)

1. Ashkhabadskiy myasokombinat.  
(Packing houses--Equipment and supplies)

GUKASOV, S., inzh.

On the road of technical progress. *Mias.ind.SSSR* 30 no.6:21-22  
'59. (MIRA 13:4)

1. Ashkhabadskiy myasokombinat.  
(Ashkhabad--Meat industry)

GUKASOV, S.

New enterprise has come into being. Mias.ind.SSSR 32 no.6:12-13  
'61. (MIRA 15:2)

1. Chardzhouskiy myasokombinat.  
(Chardzhou--Packing houses)

L 10318-63  
PI-4--WR

FCS(k)/EWT(1)/EEG-2/EED-2/BDS--ASD/ESD-3/APGC--Pi-4/Pj-4/

ACCESSION NR: AP3000557

9/0109/63/008/005/0765/0771

72

AUTHOR: Gukasov, Yu. G; Sukharevskiy, I. V.

TITLE: Asymptotic of short-wave radiation by a dielectric-coated mirror antenna

25B

SOURCE: Radiotekhnika i elektronika, v. 8, no. 5, 1963, 765-771

TOPIC TAGS: centimeter waves, antenna coating

ABSTRACT: Thin layers of dielectric play an important role in problems of sleet or paint, effects on antenna operation, phase correction by means of dielectric coats, etc. Assuming the coat thickness and the wave number to be of the same order of magnitude, zero-approximation asymptotic formulae are developed covering the general case of the mirror shape, coat shape, and source place. As an example, two terms of the asymptotic expansion are deduced for a layer limited by two cofocal parabolas (parabolic antenna). The results are numerically evaluated and experimentally verified (Enclosure, figs 4 and 5) for 1.7-3.5-mm dielectric thickness and 3.2-cm wavelength. Orig. art. has: 24 equations and 5 figures.

ASSOCIATION: none

SUBMITTED: 25Dec61

DATE ACQD: 30May63

ENCL: 01

SUB CODE: CO

NO REF SOV: 001

OTHER: 002

Card 1/2

GUKASEVA, A.M.

SOVETOV, Sergey Yevgenevich, prof.; DANILOVA, M.P., red.; GUKASOVA, A.M.,  
red.; FEDOTOVA, A.F., tekhn.red.

[School hygiene; a brief essay] Shkol'naya gigiena; kratkii ocherk.  
Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957.  
246 p. (MIRA 11:5)

(SCHOOL HYGIENE)

KUZNETSOV, Vladimir Pavlovich.; GUKASOVA, A.M., red.; NATANOV, M.I., tekhn. red.

[Workshop practice in school; manual for students in schools for  
for preschool teachers] Prakticheskie raboty v uchebnykh masterskikh;  
rukovodstvo dlia uchashchikhsia doskol'nykh pedagogicheskikh  
uchilishch. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.  
RSFSR, 1958. 199 p. (MIRA 11:10)

(Manual training)

MUSAYEV, M.R.; GUKASOVA, G.A.

Study of the conversion of mono- and ditertiary amylbenzenes  
under conditions of catalytic cracking taking the hydrogen  
redistribution into account. Azerb.khim.zhur. no.2:55-58 '62.  
(MIRA 16:3)  
(Benzene) (Cracking process) (Hydrogen)

ACCESSION NR: AP5008890

S/0202/65/000/001/0048/0053

AUTHOR: Sergiyenko, S. R.; Garbalinskiy, V. A.; Chelpanova, M. P.; Gukasova, R. G.

TITLE: Chemical nature of undersea petroleum of the Cheleken deposit

SOURCE: AN TurkmSSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1965, 48-53

TOPIC TAGS: offshore oil, undersea petroleum, petroleum composition, Cheleken petroleum, selective dehydrogenation

ABSTRACT: Low-tar high-paraffin petroleum from an offshore well located west of the Cheleken peninsula in Turkmenistan was investigated. Selective liquid-phase dehydrogenation of the high-molecular hydrocarbons followed by chromatographic separation and spectroscopic analysis enabled the authors to explore the hybrid structure of these hydrocarbons and to determine the relative proportion of the hexa- and pentamethylene rings present. The content of the aromatic hydrocarbons in the benzene fractions ranged from 7 to 20%, and in the kerosene fractions, from 30 to 33%. In the latter, the content of normal paraffins was about 25%, and in the higher boiling fractions, 30 to 35%. The saturated (paraffin and paraffin-cycloparaffin) hydrocarbons comprised from 61 to 86% of

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ACCESSION NR: AP5008890

the high-boiling (above 300C) hydrocarbon part of the petroleum. The aromatic hydrocarbons isolated from the high-molecular fractions are hybrid polycyclic structures containing an average of 2.5 to 5.0 rings per molecule, of which 2.0 to 5.0 rings per molecule are aromatic. As indicated by the high index of hydrogen deficit in the molecule (from 14 to 23), polycondensed systems make up a significant portion of the molecule. Orig. art. has: 7 tables.

ASSOCIATION: Institut khimi AN Turkmenskoy SSR (Institute of chemistry, AN Turkmen SSR)

SUBMITTED: 20Oct64

ENCL: 00

SUB CODE: FF, ES

NO REF SOV: 001

OTHER: 000

Card 2/2

GUKASOVA, Ye. A. and SKNAR', N. A.

"Features of the Experimental Technique in Studying the Profile Grids of Turbines"  
Teploper. i Aerogidrodin, 18(1950)

GUKASOVA, Ye. A., starshiy inzhener

~~Investigation of tip losses in turbine blade cascades.~~ [Trudy] TSETI  
no. 27:94-133 '54. (MIRA 8:12)  
(Gas flow) (Gas turbines)

PHASE I BOOK EXPLOITATION

SOV/4519

~~SECRET~~  
Gukasova, Yekaterina Aleksandrovna, Mikhail Isaakovich Zhukovskiy, Anatoliy Mikhaylovich Zavadovskiy, Larisa Mikhaylovna Zysina-Molozhen, Nikolay Akimovich Sknar', and Vsevolod Georgiyevich Tyryshkin

Aerodinamicheskoye sovershenstvovaniye lopatochnykh apparatov parovykh i gazovykh turbin (Aerodynamic Improvement of Blading in Steam and Gas Turbines) Moscow, Gosenergoizdat, 1960. 340 p. Errata slip inserted. 4,000 copies printed.

Eds.: V.S. Zhukovskiy, Doctor of Technical Sciences, Professor, and S.S. Kutateladze, Doctor of Technical Sciences, Professor; Tech. Ed.: O.S. Zhitnikova.

PURPOSE: This book is intended for engineers working in turbine-construction plants, design offices, and power systems, and may also be used by aspirants and students of advanced courses in power-machinery construction at schools of higher education.

COVERAGE: The book discusses aerodynamic methods for investigating, profiling, and improving the blading of steam and gas turbines. Methods for calculating the potential flow about airfoil cascades and for determining energy losses on the basis

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## Aerodynamic Improvement of Blading (Cont.)

80V/4519

of the boundary-layer theory are presented. Also discussed are methods for experimental study of the flow about blades in stationary cascades (with consideration of three-dimensional phenomena) and on rotating models. A special chapter (IX) treats the results of aerodynamic profiling of new blade cascades. The results presented are based on work performed at TsKTI imeni I.I. Polzunov. The authors thank Professor L.G. Loytsyanskiy for his advice. There are 124 references: 106 Soviet, 10 English, and 8 German.

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SOV/4519

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AVAILABLE: Library of Congress

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AC/pw/mas  
12-29-60

ZHUKOVSKIY, M.I., doktor tekhn.nauk; SKNAR', N.A., kand.tekhn.nauk;  
GUKASOVA, Ye.A., inzh.; MIKHAYLOVA, V.A., inzh.; NOVIKOVA, O.I., inzh.

Aerodynamic characteristics of blade profile lattices of the  
terminal stages of K-300-240 LMZ turbines. Energomashinostroenie  
8 no.10:29-33 0 '62. (MIRA 15:11)

(Steam turbines)

L 21937-66 EWP(f)/T-2/ETC(m)-6 WW

ACC NR: AP6014461

SOURCE CODE: UR/0114/65/000/009/0003/0006

AUTHOR: Zhukovskiy, M. I. (Doctor of technical sciences); Gukasova, Ye. A. (Engineer);  
Droz, Ye. Ye. (Engineer)

ORG: none

TITLE: Development and experimental investigation of the cascade design of the root section of last-stage stator blading of high-capacity steam turbines

SOURCE: Energomashinostroyeniye, no. 9, 1965, 3-6

TOPIC TAGS: turbine stator, steam turbine, aerodynamic effect, viscosity  
ABSTRACT: The article presents the results of an experimental investigation of the aerodynamic profiling of transonic stationary blading with low energy losses over a wide range of flow regimes. Six different cascade designs are compared, and it is found that the optimal cascade design is C1 (energy losses  $\sim 0.04$ ), where allowance is made for the effect of viscosity and the special features of the flow around trailing edges and the profile of the subsonic part of the channel is more carefully designed. The profiling of the peripheral rims of the outlet section of the channels of the transonic cascades of the stator blading was based on specially designed Laval nozzles of minimum length, with the flow line being taken at a distance of  $0.35 A^*$  (where  $A^*$  is the critical cross section) from the nozzle axis.

Orig. art. has: 5 figures and 1 table. /JPRS/  
SUB CODE: 10, 20 / SUBM DATE: none / ORIG REF: 006  
Card 1/1 O.L.C.

ZEYNALLY, M.I.; LISTENGARTEN, B.M.; AMBARTSUMYAN, A.P.; ~~GUKASOVA, Ya.K.~~

Effectiveness of production methods used in the exploitation of  
the Kirmaki series in fields of the Oil Field Administration of  
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GUKASYAN, A.A., polkovnik meditsinskoy sluzhby, kand.med.nauk

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Medicine - Epyema

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