

YEGOROV, I.K.

Determination of the H-2 genotype in CC57BR and CC57^a mice.
Biul. eksp. biol. i med. 56 no.12:84-87 D '62.

(MIRA 17:11)

1. Otdel immunologii i onkologii (zav. - deystvitel'nyy chlen
AMN SSSR L.A. Zil'ber) Instituta epidemiologii i mikrobiologii
imeni Gamalei (dir. - prof. P.A. Vershilova) AMN SSSR, Moskva.

PETROV, R.V.; MAN'KO, V.M.; YEGOROV, I.K.

Variations in the capacity of antibody production in mice
of highly inbred lines. Dokl. AN SSSR 153 no.3:728-730
(MIRA 17:1)
N '63.

1. Predstavлено академиком I.I. Shmal'gauzenom.

BRONDZ, B.D.; YEGOROV, I.K.

Antigenic structure of locus H-a of the mouse strains CC57Br
and CC57W. Folia biol. (Praha) 10 no. 2:90-93 '64

1. Department of Immunology and Oncology, Gamaleya Institute
of Epidemiology and Microbiology, Moscow.

*

YEGOROV, I.K.

Age and line specificity of the reaction of mice to the introduction
of urethane. Vop. onk. 10 no.7:75-78 '64. (MIRA 18:4)

1. Iz otdela immunologii i onkologii (zav. - deystvitel'nyy chlen AMN SSSR
L.A.Zil'ber) Instituta epidemiologii i mikrobiologii imeni Gamalei (dir. -
prof. P.A.Vershilova). Adres avtora: Moskva, D-182, Malaya Shchukinskaya,
13 Institut epidemiologii i mikrobiologii imeni Gamalei, otdel immunologii
i onkologii.

BRONDZ, B.D.; YEGOROV, I.K.

Antigenic structure of the H-2 locus of CC57BR and CC57W mice.
Biul.eksp.biol.i med. 58 no.7:90-93 Jl '64.

(MIRA 18:2)

? Otdel immunologii i onkologii (zav. - prof. L.A.Zil'ber)
Instituta epidemiologii i mikrobiologii imeni Gamalei (dir. -
prof. P.A.Vershilova), Moskva. Submitted July 8, 1963.

YEGOROV, I.K.

New isoantigen in mouse erythrocytes. Genetika no. 6:80-85
D '65 (MIRA 19:1)

1. Institut epidemiologii i mikrobiologii imeni Gamalei
AMN SSSR, Moskva.

YEGOROV, I. M.

Preparing air cleaners for summer use. No 6.

Tankist, No 12, 1948.

YEGOROV, Ivan Makaimovich, kandidat tekhnicheskikh nauk; GOLOSHCHAPOV,
I.M., inzhener-polkovnik, redaktor; SOKOLOVA, G.P., tekhnicheskiy
redaktor

[Air cleaners for machines on wheels and tracks] Vozdukhoochistiteli
kolesnykh i gusenichnykh mashin. Moskva, Voen.izd-vo Ministerstva
obor. SSSR, 1956. 72 p.
(Air filters)

(MLRA 10:1)

YEGOROV, I.M., kand. tekhn. nauk, dots.; GOLOSHCHAPOV, I.M., red.;
MYASNIKOVA, T.P., tekhn. red.

[Air fuel and oil filters in tractor engines] Ochistka vozdukha,
goriuchego (topliva) i masla v avtotraktornykh dvigateliakh. Mo-
skva, Voenizdat, 1962. 133 p. (MIRA 15:6)
(Tractors—Engines)

5(4)

PHASE I BOOK EXPLOITATION

SOV/1428

Baron, N.M., Ye. D. Volova, I.M. Yegorov, E.I. Kvyat, K.P. Mishchenko, A.M. Ponomareva, A.A.Ravdel', and G.I. Semenov

Prakticheskiye raboty po fizicheskoy khimii (Practical Work in Physical Chemistry)
Leningrad, Goskhimizdat, 1957. 263 p. 11,000 copies printed.

Eds. (Title page): K.P. Mishchenko, Professor, and A.A. Ravdel', Docent;
Ed. (Inside book): N.K. Lobina; Tech. Ed.: Ye. Ya. Erlikh.

PURPOSE: This textbook was approved by the Ministry of Higher Education as a manual
for students of vuzes specializing in chemistry.

COVERAGE: The text covers the theoretical and practical aspects of experimental
physical chemistry. It is the aim of the authors to aid the student in his
laboratory work by preceding each experiment with a theoretical introduction,
a description of the apparatus, and the order of the determination and compu-
tation of results. Much attention is given to the fundamentals of chemical
thermodynamics, reaction kinetics, and equilibrium. The basic techniques of

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Practical Work in Physical Chemistry

sov/1428

experimentation and the treatment of experimental data are presented so as to enable the student to work independently. The text was prepared jointly by the staff of the Department of Physical Chemistry, Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet) with K. P. Mishchenko and A.A. Ravel' as editors, and N. M. Baron and A.M. Ponomareva as coeditors. The book was reviewed by Professors V.A. Kiryeev, B.P. Nikol'skiy, corresponding member of the AS USSR, and by the staff of Professor Nikol'skiy. There are no references.

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AVAILABLE: Library of Congress

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5-21-59

Card 14/14

MASHOVETS, V.P.; YEGOROV, I.M.

Discharge of hydroxyl ions on a graphite anode at high temperature.
Trudy LTI no.46:21-35 '58.

(MIRA 14:4)

(Electrodes, Carbon) (Hydroxyl ion)
(Electrochemistry)

VOLOVA, Ye.D.; YEGOROV, I.M.

Complex formation in aqueous solutions of electrolytes. Trudy
LTI no.61:60-64 '60. (MIRA 15:5)
(Complex compounds) (Electrolyte solutions)

MASHOVETS, V.P.; YEGOROV, I.M.

Anodic oxidation of graphite in a sodium metaphosphate melt.
Trudy LTI no.61:77-87 '60. (MIRA 15:5)
(Sodium metaphosphate) (Electrodes, Carbon) (Electrochemistry)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2

MASHOVETS, V.P.; YEGOROV, I.M.

Anodic processes on graphite in a potassium dichromate melt.
Trudy LTI no.61:88-94 '60. (MIRA 15:5)
(Electrodes, Carbon) (Potassium dichromate) (Electrochemistry)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2"

YEGOROV, I.M.; MASHOVETS, V.P.

Mechanism of the anodic process on graphite in nitric acid
solution. Trudy LTI no.61:95-103 '60. (MIRA 15:5)
(Electrodes, Carbon) (Nitric acid) (Electrochemistry)

MISHCHENKO, K.P.; PONOMAREVA, A.M.; RAVDEL', A.A.; BARON, N.M.;
YEGOROV, I.M.; KVIAT, E.I.; VOLOVA, Ye.D.; MARKOVICH, V.G.;
SEMELEV, G.I.; MARCOLIS, V.N., SMORODINA, T.P.; YAVORSKIY,
I.V. Prinimal uchastiye FRANK-KAMENETSKIY, V.A.; TGMARCHENKO,
S.L., red.; LEVIN, S.S., tekhn. red.

[Practical work in physical chemistry] Prakticheskie raboty po
fizicheskoi khimii. Izd.2., perer. Leningrad, Gos. nauchno-
tekhn. izd-vo khim. lit-ry, 1961. 374 p. (MIRA 15:2)
(Chemistry, Physical and theoretical--Laboratory manuals)

YEGOROV, I.M.; ZHERNOV, V.S.; LAZAREV, A.F.; PEROV, N.L.;
TIMOFEEV, A.A.; MATVEYEV, V.V., doktor tekhn. nauk,
red.; KHAZANOV, B.I., kand. tekhn. nauk, red.;
MELESHKO, V.K., red.

[Apparatus for recording and studying ionizing radia-
tions; reference book] Apparatura dlia registratsii i
issledovaniia ioniziruiushchikh izluchenii; spravochnik.
Moskva, Atomizdat, 1965. 429 p. (MIRA 18:7)

L 26391-66 EWA(h)/EWT(m)

ACC NR: AM5025517

Monograph

UR/

57

B+1

Yegorov, I. M.; Zhernov, V. S.; Lazarev, A. F.; Perov, N. L.; Timofeyev, A. A., comps.

Apparatus for recording and investigating ionizing radiation; a handbook (Apparatura dlya registratsii i issledovaniya ioniziruyushchikh izlucheniy; spravochnik) Moscow, Atomizdat, 1965. 429 p. illus., biblio. 4500 copies printed.

TOPIC TAGS: radiation dosimetry, ionizing radiation, nuclear physics apparatus, scintillator photomultiplier, gas discharge counter, ionization chamber, radiation dosimeter, radiometer, spectrometer

PURPOSE AND COVERAGE: This handbook is intended for research physicists in the field of dosimetrics and engineers and scientists dealing with radioactive sources of radiation. It may also be useful to persons concerned with the development, operation, and maintenance of dosimetric, spectrometric, and radiometric equipment.

The book deals with Soviet experimental nuclear physics instruments, equipment, photomultipliers, scintillators, Geiger-Mueller counters, ionization chambers, etc. Characteristics of instruments for individual dosimetric control, measurements of doses and dose power, determination of the contamination of working areas and water by radioactive substances, aerosol devices, single and multichannel pulse analyzers, and others are described.

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KIKHTENKO, V.A.; KHLEBNIKOV, Yu.P.; YEGOROV, I.M., kand. tekhn. nauk, retsenzent; DVOROVENKO, G.P., kand. tekhn. nauk, red.; YEGORKINA, L.I., red. izd-va; EL'KIND, V.D., tekhn. red.

[Cyclone air cleaners for tractors] Traktornye tsiklon-nye vozdukhochistiteli; konstruktsiiia, raschet, obsluzhi-vanie i ispytanie. Moskva, Mashgiz, 1963. 150 p.

(MIRA 16:7)

(Tractors--Equipment and supplies) (Air filters)

YEGOROV, I. N.

Infusoria

Significance of infusoria in the digestion of cattle. Veterinariia 29 No. 5, 1952.

Monthly List of Russian Accessions. Library of Congress, August 1952, Unclassified

YEGOROV, I.N., dotsent.; KIRILLOV, V.A., veterinarnyy vrach.

Some details of treating hypovitaminosis in calves. Veterinariia 34
no.3:36-39 Mr '57. (MIRA 10:4)

1. Ul'yanovskiy sel'skokhozyaystvennyy institut. (for Yegorov)
2. Sovkhoz "Sakko i Vantsetti" Ul'yanovskoy oblasti, Cherdaklin-skogo rayona.

(Deficiency diseases in domestic animals)
(Calves--Diseases)

YEGOROV, I.N., dots.

Clinical symptoms and course of typhlitis in horses. Veterinaria
35 no.10:57-59 O '58. (MIRA 11:10)

1.Ul'yanovskiy sel'skokhozyaystvennyy institut.
(Cecum--Diseases) (Horses--Diseases and pests)

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YEGOROV, I. N.

42398: YEGOROV, I. TITOV, A, Otsenka sposobov sposobov pererabotki sbornogo masla.
moloch prom-st' 1948, No. 11, s 40-42.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2"

YEGOROV, I.N., inzhener

Examples of the use of welding at MPS railroad machinery building
plants. Svar. proizv. no.10:22-23 O'55. (MLRA 8:12)
(Machinery industry) (Welding)

Yegorov, I.N.

SUBJECT: USSR/Welding. 135-4-11/15

AUTHOR: Yegorov I.N. Engineer.

TITLE: Welded Rail-Cutting Saw Blades (Svarnye polotna rel'soreznykh pil).

PERIODICAL: Svarochnoye Proizvodstvo", 1957, # 4, pp 26-27 (USSR)

ABSTRACT: At the Chechoslovakian Industrial Exhibition in Moskow, in 1956, welded saw blades of the "Robel" type (ТИП "РОБЕЛЯ"), were shown, reducing to half the high-speed steel consumption. It was not possible to get any information on the production technology and on the materials used for these saw blades.

At the Zaporozhye Mechanical Plant of the Ministry of Transportation saw blades still are made of high-speed steel "P9"-blades, 430x30x2mm. When the teeth are worn, the saw is being scrapped.

The author, in co-operation with other technicians of the plant, has developed experimental saw blades of steel "P9" and "C1.2". Steel "P9" has the following chemical composition:

0.89% C; 0.25% Mn; 0.25% Si; 0.015% S; 0.025% P; 0.21% Ni;
4.08% Cr; 9.38% W; 2.28% V, and 0.05% Mo.

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135-4-11/15

TITLE: Welded Rail-Cutting Saw Blades (Svarnye polotna re'soreznykh pil).

Welding was done with d.c. of reverse polarity, with electrodes of 3-4 mm in diameter, at 80-120A. The electrodes used were: "ОММ-5", "УМ-7" "ОМА-2", "УОНН-13/45", "УОНН-13/55А", "ОЗГ-2" and "УГ-2АМ", all made by the Plant for Experimental Welding of the Ministry of Ferrous Metallurgy.

Tests (on the rail-cutting machine "Р4") show that medium cutting time for the rail "Р43" of 5570 mm² cross section does not exceed 9 minutes and fully corresponds to the rate of cutting with conventional blades made entirely of steel "Р9". Initial costs are 40 % lower than for blades made entirely of steel "Р9". After practical tests it can be concluded that welding can be done with electrodes "Э42". For the non-cutting blade portion it is planned to use steel with somewhat higher carbon content than in steel "СТ2".

The article contains detailed production technology.

ASSOCIATION: Zaporozhye Mechanical Plant.

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

YEGOROV, I.N., insh.

Building up wheel flanges by welding in a protective atmosphere. Vest.TSMII MPS 18 no.6:63-64 S '59.
(MIRA 13:2)

1. Proyektno-konstruktorskoye byuro Glavnogo upravleniya
lokomotivo-remontnymi i vagonoremontnymi zavodami Ministerstva
putey soobshcheniya.
(Car wheels) (Welding)

YEGOROV, I.N., inzh.

Automatic welding of car parts. Svar. proizv. no.2:36-37 F '61.
(MIRA 14:1)

1. Proyektno-konstruktorsk-tehnologicheskoye byuro Glavnogo uprav-
leniya lokomotivoremontnymi i vagonoremontnymi zavodami Ministerstva
putey soobshcheniya.

(Railroads—Cars—Maintenance and repair) (Electric welding)

YEGOROV, I.N., inzh.

Automatic welding under flux of container lids. Svar. proizv.
no. 3:34-35 Mr '62. (MIRA 15:2)

1. Proyektno-konstruktorsko-tehnologicheskoye byuro Glavnogo
upravleniya lokomotivoremontnymi i vagonoremontnymi zavodami
Ministerstva putey soobshcheniya.
(Containers--Welding) (Fork-lift trucks)

YEGOROV, I.N., inzh.; Prinimali uchastiye: TELKOV, K.A., inzh.; L'VOV,
V.A., inzh.

Automatic welding of boiler connections during repairs. Svar.
proizv. no. 5135-36 My '62. (MIRA 15:12)

1. Proyektno-konstruktorsko-tehnologicheskoye byuro Glavnogo
upravleniya po remontu podvizhnogo sostava i izgotovleniyu
zaspasnykh chastej Ministerstva putey soobshcheniya.
(Locomotive boilers--Maintenance and repair)

8/135/63/000/003/007/011
A006/A101

AUTHOR: Yegorov, I. N., Engineer

TITLE: Hardfacing of dies for cold press-forming

PERIODICAL: Svarochnoye proizvodstvo, no. 3, 1963, 28 - 30

TEXT: Results are given of industrial tests and laboratory investigations made with dies that were hardfaced with LiH-5 (TsN-5) and 9H-60M (EN-60M) electrodes. The laboratory tests were carried out by engineers A. D. Salina and K. F. Kryuchkov. The electrodes were used to hardface the edges of press-forms, dies and press-shear blades. Hardfacing was performed in the lower position on a-c with 4 mm diameter electrodes. The method of preparing the edges and of applying the beads are illustrated. It was found that highest strength of dies is obtained using EN-60M electrodes, independent of the thickness and configuration of the press-formed parts. The built-up metal shows a complete absence of cracks. The built-up metal structure after low tempering is tempered martensite with hardness HRC 59, the base metal has a fine-dispersed perlite and ferrite structure with hardness HB 197. The composition of the base metal

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S/135/63/000/003/007/011

A006/A101

Hardfacing of dies for cold press-forming

(0.45% C, 0.75% Mn and 0.25% Cr) has a considerable effect upon the operational durability of the hardfaced tool. The high hardness is also promoted by the presence in the built-up metal of 0.68% Mg, 1.5% Cr, 0.35% Mb, and 0.6% C. Electrodes TsN-5 yield satisfactory results in hardfacing dies that are not heat treated. Heat treatment reduces hardness down to HRC 40 - 42, which is insufficient for over 2 mm thick press-formed metals. There are 6 figures.

ASSOCIATION: Proyektno-konstruktorsko-tehnologicheskoye byuro na zavode imeni Voytovicha (Planning-Designing Technical Office at the Plant imeni Voytovich)

Card 2/2

YEGOROV, I.N., dotsent; SIROSH, P.M.; NAUMOV, A.V.; RASKIN, M.M.; NIKIFOROV, N.I., kand.veterin.nauk; TRAKHANOV, D.F., kand.veterin.nauk; PETUKHOVSKIY, A.A.; ENDZIN, A.K.

Sanitation and veterinary hygiene. Veterinariia 41 no.3:73-82 Mr '64.
(MIRA 18:1)

1. Krasnoyarskiy sel'skokhozyaystvennyy institut (for Yegorov). 2. Glavnyy veterinarnyy vrach Chernovitskogo oblastnogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Sirosh).
3. Zaveduyushchiy khimicheskim otdelom Chernovitskoy oblastnoy veterinarnoy laboratoriye (for Raskin). 4. Direktor Chernovitskoy oblastnoy veterinatnoy laboratoriye (for Naumov). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii (for Nikiforov, Trakhanov).
6. Dezinfektsionnaya stantsiya Moskovskogo gorodskogo otdela zdravoo-khraneniya (for Petukhovskiy). 7. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii (for Endzin).

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2

YEGOROV, I.N., Inst.

Hard facing of carbon steel dies with the EM-40M electrode.
Svar. proizv. no. 6:13-14 Je '65. (100A 18:8)

1. Proyektno-konstruktorskoye byuro Tsv Ministerstva po
sobchcheniya.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2"

YEGOROV, I.N.

Phenomena of hybridism connected with the formation of Ulkansk
subalkaline granitoids. Biul. MOIP Otd. geol. 40 no.6:139-140
N-D '65. (MIRA 19:1)

1. Submitted April 22, 1965.

YEGOROV, I.N., imzh.

Hard facing of dies for cold stamping. Svar. proizv. no. 3:28-30
Mr '63. (MIRA 16:3)

1. Proyektno-konstruktorsko-tehnologicheskoye byuro na zavode
im. Voytovicha.
(Hard facing) (Dies (Metalworking))

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2

YEGOROV, I.N.

Granite pegmatites occurring in the Talitskiy serpentinite
massif of the Central Urals. Trudy IMGRE no.8:220-235 '62.
(MIRA 16:1)

(Ural Mountains—Pegmatites)
(Ural Mountains—Serpentinites)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2"

YEGOROV, I.P.

[Signature]

ZHURNAL ANALITICHESKOY KHMII

Vol 11, Issue Nr 4, July-August, 1956

D
DETERMINATION OF THE BRANCHING DEGREE OF PARAFFIN

[Signature] *Original Article*

I. P. Yegorov and A. A. Petrov

Institute of Organic Chemistry, Academy of Sciences of the USSR, Moscow

VM

GARETSKIY, R.G.; YEGOROV, I.P.; NAUMOVA, S.N.; SHLEZINGER, A. Ye.

Lower Carboniferous and upper Devonian deposits in the Zhanasu
region (the South-Emba gravity maximum). Dokl. AN SSSR 136
no.6:1418-1421 F '61. (MIRA 14:3)

1. Geologicheskiy institut AN SSSR. Predstavлено akademikom
A.L. Yanshinyem.
(Emba Valley-- Geology, Stratigraphic)

SOKOLOVA, Yekaterina Ivanovna; IVANOVA, Yekaterina Nikolayevna; YEGOROV,
Ivan Petrovich; KOROBKOV, I.A., nauchnyy.red.; DAYEV, G.A., vedushchiy
red.; FRUMKIN, P.S., tekhn.red.

[Permian and Triassic sediments in the Yuzhnaya Emba and their oil
potential] Permskie i triasovyye otlozheniya IuZhnoi Emby i ikh
neftenosnost'. Leningrad, Gos.nauchno-tekhn.izd-vo neft.i gorno-
toplivnoi lit-ry. Leningr.otd-nie, 1961. 194 p. (Leningrad.
Vsесоiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi
institut. Trudy, no.164).
(Emba Valley--Petroleum, Geology)

YEGOROV, I. P.

FA 53T41

USSR/Mathematics

Sep 1947

"The Order of Groups of Movements in Spaces of
Affine Compendency," I. P. Yegorov, 4 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVII, No 9

In 1903, Fubin stated that extended spaces n of
measurements do not have full groups of movements of
the order $\frac{n(n+1)}{2} - 1$. Author proves that corres-

ponding theorem of Fubin in extended spaces holds in
affine spaces. Submitted by Academician A. N. Kol-
mogorov, 24 Mar 1947.

53T41

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2

YEGOROV, I. P.

"Collineation of Spaces of Projected Bonds," Dokl. AN SSSR, 61, No.4, 1948

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2"

Yegorov, I. P.

Egorov, I. P. On the groups of motion of spaces with asymmetric metric connection. Doklady Akad. Nauk SSSR (N.S.) 64, 621-624 (1949). (Russian)

Let x^1, x^2, \dots, x^n be the coordinates of a point in a space with metric connection in which the object A_{ij}^k is not symmetrical, i.e., $A_{ij}^k \neq A_{ji}^k$. Let ω_{ij} denote the angle between the vectors ∂_i and ∂_j .

In the space with the connection Γ^k_{ij} , the divergence with respect to i of the vector

$$P = P_{ij} \partial_j = P_{ij} \omega_{ij} \partial_i = 0$$

is zero, i.e., $P_i = -P_{ij} \omega_{ij} = 0$.

LFB

STAN

YECORV, TP

Egorov, I.P. On a strengthening of Fubini's theorem on the order of the group of motions of a Riemannian manifold. Doklady Akad. Nauk SSSR (N.S.) 108, 793-796 (1949). (Russian)

Fubini's theorem [Ann. Mat. Pura Appl. (3) 8, 39-81 (1903)] states that a Riemannian V_n for $n > 2$ cannot admit a complete group of motions of order $\frac{1}{2}n(n+1)-1$. In this paper it is shown that the interval of forbidden orders is broader. For this purpose the following theorems are demonstrated. (I) The maximum order of the complete groups of motions of those V_n which are not Einstein manifolds is $\frac{1}{2}n(n-1)+1$. (II) The order of the complete groups of motions of those V_n which are different from manifolds of constant curvature is not larger than $\frac{1}{2}n(n-1)+2$. The proof of (I) is made by a study of the rank of the coordinate matrices of the tensor

$$T_{(\alpha\beta)}^{\gamma\delta} = 4\delta_{\alpha}^{\gamma}\delta_{\beta}^{\delta},$$

$\alpha, \beta, \gamma, \delta = 1, 2, \dots, n$, $\alpha \neq \beta$, $\gamma < j$; $i, j = 1, \dots, n$, where $R_{ij}^{\alpha\beta}$ is the Ricci tensor, which appears in the equations obtained by contraction of the integrability conditions of the equations of Killing [see L. P. Eisenhart, Continuous Groups of Transformations, Princeton University Press, 1933, pp. 213-214]. The proof of theorem II needs the study of the rank of the coordinate matrices of the tensor

$$T_{(\alpha\beta\gamma\delta)}^{\gamma\delta} = 2(\delta_{\alpha}^{\gamma}\delta_{\beta}^{\delta} - \delta_{\alpha}^{\delta}\delta_{\beta}^{\gamma}),$$

where $R_{ij}^{\alpha\beta}$ is the Riemann curvature tensor. Since in case II $R_{ij\alpha\beta} = R_{ij\beta\alpha} = 0$, the V_n is projectively Euclidean. D. J. Straik (Cambridge, Mass.).

Sources: Mathematical Reviews,

Vol 11 No. 3

YEGOROV, I.P.

Egorov, I. P. On groups of motion of spaces with general
asymmetrical affine connection. Dokl. Akad. Nauk SSSR
1950, v. 73, 265-267. (Russian)

Let L_n be an n -dimensional space with an asymmetric
affine connection whose object of translation is

$$\Lambda^{\alpha}_{\beta\gamma} \in V^n$$

The set of infinitesimal transformations of
functions relative to η^μ , a^μ is given by

$$(1) \quad \eta_\mu' = \eta_\mu + \Lambda^\mu_{\nu\lambda} \eta^\nu - R^\mu_{\nu\lambda} a^\nu$$

$$(2) \quad a^\mu' = a^\mu + \Lambda^\mu_{\nu\lambda} a^\nu$$

If η^μ is the torsion tensor satisfies the eqn. (1) by

$$\Omega^{\mu\nu}_{\alpha\beta} = \eta^\mu_{;\alpha} \eta^\nu_{;\beta} - \eta^\nu_{;\alpha} \eta^\mu_{;\beta}$$

(4) $\Omega^{\mu\nu}_{\alpha\beta}$ is the curvature tensor of the space of the type
 $\Lambda^{\alpha}_{\beta\gamma}$. It determines also a covariant derivative
and sufficient condition that L_n be a space with a
symmetrical affine connection is that every coordinate system
(5) $\Omega^{\mu\nu}_{\alpha\beta} = 0$. I. P. Egorov proved (see Dokl. Akad. Nauk SSSR, 62, 624 (1949) these Rev. 10, 730) that the space of an
order of a complete group of motions in a space L_n with an
asymmetrical connection is π^2 . A space L_n is called a space
with a general asymmetrical connection if the torsion tensor
 $\Omega^{\mu\nu}_{\alpha\beta}$ has a general structure. For spaces of this type the
author proves by an algebraic analysis of the relations (1),
(2), (4) the following theorem. The maximum order of a
complete group of motion is $\pi^2 - 2n + 6$. He adds without
proof that any symmetrical connection $\Lambda^{\alpha}_{\beta\gamma}$ of all spaces
with the connection $\Lambda^{\alpha}_{\beta\gamma}$ which have complete groups of
motions of order $\pi^2 - 2n + 6$ is necessarily projective, i.e.
F. V. Kachko, P. I. Ivanov

Source: Mathematical Reviews,
Vol. 11, No. 8

YEGOROV, I. P.

USSR/Mathematics - Tensor Analysis

11 Oct 51

"Collineations of Spaces of Projective Connectivity,"
I. P. Yegorov, Penza State Pedagogic Inst imeni V. G.
Belinskij

"Dok Ak' Nauk SSSR" Vol LXXX, No 5, pp 709-712

Discusses the collineations of spaces of projective connectivity assigned in X to Thomas' objects $P_{bc}^a(x^1, x^2, \dots, x^n)$. Solves completely the problem concerning the establishment of the max order of groups of collineation of spaces of projective connectivity P_{bc}^a with Weil's nonzero tensor. Establishes that the order of the complete groups of collineation equals $n^2 - 2n + 5$. Submitted 30 Aug 51 by Acad I. G. Petrovskiy.

221T74

USSR/Mathematics - Tensor Characteristic 11 MAY 52

"Tensor Characteristic of the Maximally Mov-
able A_n of Nonzero Curvature," I. P. Yegorov,
Penza State Inst imeni V. G. Belinskii

"Dok Ak Nauk SSSR" Vol 84, No 2, pp 209-212

Solves the problem of detg in X_n spaces the
affine connection A_n of nonzero curvature,
which spaces possess max mobility, i.e., ad-
mit complete groups of motions of max order
equal to n^2 . Writes down in tensor form the

231T66

necessary and sufficient conditions that a
given A_n of nonzero curvature be maximally
movable in the indicated sense. Submitted by
Acad A. N. Kolmogorov 13 Mar 52.

231T66

YEGOROV, I. P.

USSR/Mathematics - Tensor Analysis

21 May 52

"Maximally Mobile Spaces L_n of Semisymmetrical Connection," I. P. Yegorov, Penza Pedagogic Inst imani V. G. Belinskiy

"Dok Ak Nauk SSSR" Vol LXXXIV, No 3, pp 433-435

The greatest order of the groups of motions of spaces L_n of affine semisym connection is equal to n^2 , space L_n with such order of a group of motion being called maximally mobile. In the current article the author solves the problem of detg in X_n all maximally mobile spaces L_n and gives the necessary and sufficient conditions that a given space L_n be maximally mobile. Submitted by Acad A. N. Kolmogorov 13 Mar 52.

225T47

1. YEGOROV, I. P.
2. USSR (600)
4. Spaces, Generalized
7. Motion in spaces of affine compactness. Dokl. AN SSSR 87 no. 5 1952.

Solves the problem of establishing maximum order of groups of movements in spaces of affine connection (without torsion) which are different from equiaffine, and demonstrates that the isolated class of maximally mobile spaces is in a definite sense an immediate sequent of the class of maximally mobile spaces A_n of affine connection of zero curvature. Thanks Prof P. K. Rashevskiy. Presented by Acad I. G. Petrovskiy 18 Oct 52.

254T84

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

Egorov, I. P. On motions in spaces with an affine connection. Doklady Akad. Nauk SSSR (N.S.) 89, 781-784 (1953). (Russian)

Dans le travail l'auteur montre la caractéristique géométrique 1) de l'espace A_n à connexion affine sans torsion et qui a la courbure différente de zéro et 2) de l'espace L_n à connexion (démisymétrique) avec le tenseur de torsion pour lequel on a $\Omega_{\alpha\beta}^{\gamma} = \delta_{\alpha}^{\gamma}\Omega_{\beta} - \delta_{\beta}^{\gamma}\Omega_{\alpha}$, où on a le groupe des mouvements d'ordre maximum. On y emploie soit des groupes complets et transitifs d'ordre n^2 , soit des groupes complets, intransitifs d'ordre $n^2 - 1$. On connaît les conditions nécessaires et suffisantes pour que l'espace A_n possède le groupe des mouvements d'ordre maximum [mêmes Doklady (N.S.) 84, 433-435 (1952); ces Rev. 14, 318]: 1) l'espace A_n est projectif-euclidien et eujaffine; 2) $R_{ij} = (1-n)\epsilon\lambda_i\lambda_j$ ($\epsilon = \pm 1$), $\lambda_{ij} = \epsilon\lambda_i\lambda_j$, où le tenseur λ_{ij} est symétrique, λ_i est le gradient de la fonction λ et ϵ est la fonction de λ dans le cas du groupe complet et intransitif, ou une constante dans le cas du groupe complet et transitif.

En partant des résultats ceux-ci l'auteur prouve les théorèmes suivants. 1) La condition nécessaire et suffisante pour que l'espace à n dimensions, à connexion affine sans

torsion et avec la condition donnée au-dessus, avec le groupe d'ordre maximum est: il existe dans A_n $(n-1)$ champs indépendants des vecteurs contravariants absolument parallèles. 2) Dans l'espace A_n , avec le groupe d'ordre maximum, chaque hypersurface $\lambda(x_1, \dots, x^n) = C$, où C est le paramètre, est totalement géodésique. 3) Les coefficients $\Gamma_{\alpha\beta}^{\gamma}$ de la connexion affine de l'espace A_n avec le groupe des mouvements d'ordre maximum, transitif et complet peuvent avoir la forme

$$\Gamma_{11}^1 = \Gamma_{21}^2 = \dots = \Gamma_{n1}^n = \frac{x^1}{(x^1)^2 + 4\epsilon}, \quad \text{ou} \quad \frac{x^1 + 1}{(x^1)^2 + b}$$

(les autres $\Gamma_{\alpha\beta}^{\gamma}$ sont égaux au zéro) où $b^2 - 1$ est la constante arbitraire. 4) Les coefficients $\Gamma_{\alpha\beta}^{\gamma}$ de la connexion affine de l'espace A_n avec le groupe d'ordre maximum, intransitif, complet, peuvent toujours avoir la forme:

$$\Gamma_{11}^1 = \Gamma_{21}^2 = \dots = \Gamma_{n1}^n = \alpha(x^1),$$

(les autres $\Gamma_{\alpha\beta}^{\gamma}$ sont égaux au zéro), où $\alpha(x^1)$ est une fonction de x^1 . Dans le cas où l'espace est L_n , la connexion associée est

$$L_{(\alpha\beta)}^{\gamma} = -\delta_{\beta}^{\gamma}\psi_{\gamma} - \delta_{\gamma}^{\alpha}\psi_{\beta}.$$

(auteur)

Ljachov, Z. P.

ou

$$\begin{aligned}\partial_{\alpha} \psi^{\beta} &= -\partial_{\alpha} \psi^{\gamma} \partial_{\gamma} \Omega^{\beta} + C_1 \partial_{\alpha} \Omega^{\beta} \Omega^{\gamma}, \\ \partial_{\alpha} \Omega^{\beta} &= -\partial_{\alpha} \psi^{\gamma} \partial_{\gamma} \Omega^{\beta} + C_1 \partial_{\alpha} \Omega^{\beta} \Omega^{\gamma},\end{aligned}$$

et C_1, C_2 sont les constantes ou les fonctions de Ω ($\Omega_1 = \partial_1 \Omega$).
On a les théorèmes: 5) Les vecteurs ψ_i, Ω_i de l'espace L_n avec le groupe d'ordre maximum, qui donnent la connexion euclidienne, peuvent avoir la forme

$$\psi_1 = \psi_2 = \dots = \psi_n = 0, \quad \Omega_1 = 1, \quad \Omega_2 = \dots = \Omega_n = 0,$$

ou

$$\psi_1 = \psi_2 = \dots = \psi_n = 0, \quad \Omega_1 = \frac{k}{x^1}, \quad \Omega_2 = \dots = \Omega_n = 0.$$

6) L'ordre maximum du groupe intransitif, complet, dans l'espace à connexion affine avec torsion, est $n^2 - 1$. Les vecteurs associés peuvent avoir la forme

$$\begin{aligned}\psi_1 &= \alpha(x^1), \quad \psi_2 = \dots = \psi_n = 0, \\ \Omega_1 &= \beta(x^1), \quad \Omega_2 = \dots = \Omega_n = 0,\end{aligned}$$

où α, β sont les fonctions de x^1 arbitraires.

Le travail contient aussi les équations des groupes étudiés.
F. Vychichlo (Prague).

YEGOROV, I. P.

USSR/ Mathematics - Spaces

Card 1/1 Pub. 22 - 2/46

Authors : Yegorov, I. P.

Title : Maximally movable Riemannian V_4 spaces of non-constant curvature

Periodical : Dok. AN SSSR 103/1, 9-12, Jul 1, 1955

Abstract : An analysis is given to the maximally movable Riemannian spaces V_4 ($ds^2 > 0$) of non-constant curvature which unavoidably are the Einsteinian spaces and posses eight member groups of movement G_8 . Twelve reference: 1 It., 3 Rum. and 8 USSR (1904-1953).

Institution :

Presented by: Academician P. S. Aleksandrov, March 23, 1955

YEGOROV, I. P.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow,
Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.
Mention is made of Petrovskiy, I. G. and Andronov, A. A.

There are 4 references, all of them English.

Dzhavadov, M. A. (Baku). Spaces Over Alternions and
Their Application for the Geometric Interpretation of Spinor
Representations of Non-Euclidean Space Motion. 149-151

Drinfel'd, G. I. (Khar'kov). Theory of Integral
Invariants and Integral Geometry. 151

Yegorov, I. P. (Penza). Equiaffine Spaces of Third
Lacunarity. 151-152

There are 2 references, both of them USSR.

Zalgaller, V. A. (Leningrad). On the Fundamentals of the
Theory of Two-dimensional Manifolds of a Bounded Curvature. 152

There is 1 USSR reference.
Card 49/80

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2

YEGOROV, I.P.

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... de la condition nécessaire et suffisante pour que les deux conditions soient équivalentes.

Si l'on suppose que ψ_i est le gradient de la fonction $p(x^{n+1}, x^n)$, alors si et seulement si ψ_i est un champ de vecteurs absolument parallèles, alors ψ_i est le gradient de la fonction $p(x^{n+1}, x^n)$.

On peut démontrer que si ψ_i est le gradient de la fonction $p(x^{n+1}, x^n)$, alors il existe des champs de vecteurs absolument parallèles $\lambda_i \xi^i$, $\rho_i \xi^i$, $T_i \xi^i$ telles que

$$\lambda_i \xi^i = 0, \rho_i \xi^i = 0, T_i \xi^i = 0$$

qui montrent que le vecteur ψ_i est le gradient de la fonction $p(x^{n+1}, x^n)$ et qu'il existe exactement $(n+2)$ champs de vecteurs ξ^i absolument parallèles.

Les résultats du travail:

1 - Il n'existe aucun espace euclidien A_n avec le groupe complet gr des mouvements dont l'ordre r satisfait aux inégalités $n^2 - 2n + 5 < r < n^2 - n - 2$.

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Le document contient le groupe complet de
l'information demandée et n'est pas relié
à d'autres documents que ceux demandés.

✓
J. P. G.
J. P. G.

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CIA-RDP86-00513R001962430004-2"

EGOROV, I. P.

SUBJECT USSR/MATHEMATICS/Geometry
 AUTHOR EGOROV I.P.
 TITLE Riemannian spaces of second lacunarity.
 PERIODICAL Doklady Akad.Nauk 111, 276-279 (1956)
 reviewed 5/1957

CARD 1/2

PG - 787

As it is well-known, the distribution of the orders of transitive and intransitive groups in Riemannian spaces V_n has gaps. There do not exist Riemannian spaces which have a motion group O_r with $\frac{n(n-1)}{2} + 1 < r < \frac{n(n+1)}{2}$

(first gap).
 In the present paper the author shows that the second gap for transitive motion groups lies at

$$\frac{(n-1)(n-2)}{2} + 3 < r < \frac{n(n-1)}{2} + 1$$

and for intransitive ones at

$$\frac{(n-1)(n-2)}{2} + 2 < r < \frac{n(n-1)}{2} .$$

The author considers especially the spaces of second lacunarity, i.e. Riemannian spaces which have an intransitive motion group O_r ($r = \frac{n(n-1)}{2}$)

Doklady Akad.Nauk 111, 276-279 (1956)

CARD 2/2

PG - 787

or a transitive group \mathcal{G}_r ($r = \frac{n(n-1)}{2} + 1$). It is shown that then they are subprojective spaces of Kagan (Trudy Sem. vekt.anal. (1933) no. 1,2) and reversely. A further theorem asserts that the maximal order of the motion groups of the non-conformal Euclidean spaces V_n equals $\frac{(n-1)(n-2)}{2} + 3$. It is assumed that the considered Riemannian spaces V_n are not Einsteinian. The restriction $ds^2 > 0$ is not made.

INSTITUTION: Agricultural Institute, Pansa.

Name: YEGOROV, Ivan Petrovich

Dissertation: Motion in the Affine Connectivity Spaces

Degree: Doc Phys-Math Sci

Affiliation: Penza State Ped Inst imeni Belinskiy

Defense Date, Place: 17 May 56, Council of Moscow Order of Lenin and
Order of Labor Red Banner State U imeni Lomonosov

Certification Date: 17 Nov 56

Source: BNVO 6/57

YEGOROV, I.P.

Einsteinian spaces of maximum mobility and inconstant curvature.
Dokl. AN SSSR 145 no.5:975-978 '62. (MIRA 15:8)

1. Penzenskiy pedagogicheskiy institut im. V.G.Belinskogo.
Predstavлено академиком A.N.Kolmogorovym.
(Spaces, Generalized)

PULKIN, S.P., prof., glav. red.; BREDIKHIN, B.M., dots., red.
YEGOROV, I.P., prof., red.; MURZAYEV, Ye.A., dots., red.;
SHTRAUS, A.V., prof., red.; SHCHERBAKOV, A.I., tekhn.red.

[Transactions of the Conference of Mathematics of Pedagogical Institutes in regions of the Volga Valley] Trudy vtoroy nauchnoy konferentsii matematicheskikh kafedr pedagogicheskikh institutov Povolzh'ya. Kuibyshev, Kuibyshevskii gos. pedagog. in-t im. V.V.Kuibysheva. No.1. [Theoretical reports. Reports on the methodology of teaching mathematical sciences in pedagogical institutes] Teoreticheskie doklady. Doklady po metodike prepodavaniia matematicheskikh distsiplin v pedagogicheskem institute. 1962. 234 p. (MIRA 16:4)

1. Nauchnaya konferentsiya matematicheskikh kafedr pedagogicheskikh institutov Povolzh'ya, 2d, Ul'yanovsk, 1961.
(Mathematics—Study and teaching)

YEGOROV, I.P.

Riemannian spaces of the first three lacunarities in the geo-
metrical sense. Dokl. AN SSSR 150 no.4:730-732 Je '63.
(MIRA 16:6)

1. Penzenskiy gosudarstvennyy pedagogicheskiy institut imeni
V.G. Belinskogo. Predstavлено академиком I.G. Petrovskim.
(Spaces, Generalized)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962430004-2

YEGOROV, I.P. (Penza)

Homothetic movements in irreducible symmetric Riemann spaces
of the first class. Volzh. mat. sbor. no.1:61-65 '63.
(MIRA 19:1)

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CIA-RDP86-00513R001962430004-2"

YEGOROV I.R.
GLUSHKOV, Georgiy Sergeyevich; YEGOROV, Ivan Rodionovich; YERMOLOV, Vadim
Vladimirovich; YEGOROVA, N.O., red.izd-va; TOKER, A.M., tekhn.
red.

[Formulas for calculating structural frames] Formuly dlja rascheta
ram. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1958. 166 p.
(Structural frames) (MIRA 11:5)

GLUSHKOV, Georgiy Sergeyevich, doktor tekhn. nauk, prof.; YEGOROV, Ivan Rodionovich; YERMOLOV, Vadim Vladimirovich; DOROGOV, N.P., inzh., retsenzent; YAKOVLEVA, V.I., red.; CHERNOVA, Z.I., tekhn. red.; UVAROVA, A.F., tekhn. red.

[Formulas for designing continuous beams and frames] Formuly dlja rascheta nerazreznykh balok i ram; spravochnoe posobie. Pod red. G.S.Glushkova. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1960. 342 p. (MIRA 14:6)
(Girders) (Structural frames)

GLUSHKOV, G.S.; YEGOROV, I.R.; YERMOLOV, V.V.; GARANKINA, S.P., red.;
DEM'KINA, N.F., tekhn. red.

[Formulas for the design of continuous beams and frames] Formuly dlja rascheta nerazreznykh balok i ram; spravochnoe posobie. Izd.2., dop. i perer. Moskva, Mashgiz, 1963. 463 p.
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(Tatar A.S.S.R.--Petroleum geology)

Yegorov, Ivan Stepanovich

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(25 Years of Aid to Kolkhozes)

Moskva, Sol'Khozglz, 1956

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(Collective farms)

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[Technology of the manufacture of machine tools] Tekhnologija stankostroeniia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1959. 371 p.
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[Corn in livestock raising] Kukuruza i zhivotnovodstvo.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 126 p.

(Corn as feed)

(MIRA 13:11)

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Daniyelyan, Arutyum Mkrtichevich (Doctor of Technical Sciences; Professor); Bobrik, Petr Ivanovich; Gurevich, Yanke1' Leybovich; Yegorov, Ivan Sergeyevich.

Machining heat-resistant steel, alloys and refractory metals (Obrabotka rezaniyem zharoprochnykh stalei, splavov i tugoplavkikh metallov) Moscow, Izd-vo "Mashinostroyeniye", 1965. 306 p. illus., biblio. Errata slip inserted. 5700 copies printed.

TOPIC TAGS: machining, heat resistant steel machining, refractory metal machining, heat resistant alloy machining, titanium alloy machining, beryllium machining, rare metal machining

PURPOSE AND COVERAGE: This book is intended for engineering personnel of machine-building plants, scientific research institutes, and engineering design bureaus. It may also be useful to students of schools of higher technical education specializing in technology. The book reviews specific technological features and aspects of various procedures of machining heat-resistant and refractory metals.

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and alloys. In particular, it deals with metal turning, milling, boring, threading, and broaching. Suggestions are made on the selection of materials used for contact surfaces of tools, tool shapes, and efficient machining conditions. It also presents an analysis of thermal phenomena observed in the process of machining.

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YEGOROV, I.S.

Tectonics of the lower Kama oil-bearing region in Tatarstan. Geol.
nefti i gaza 6 no.3:32-34 Mr '62. (MIRA 15:4)
(Tatar A.S.S.R.—Geology, Structural.)

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Paleographic conditions of the accumulation of terrigenous
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1. Geologicheskiy institut, g. Kazan'.

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Existence of Proterozoic deposits in the Tatar Dome area.
Dokl.AN SSSR 149 no.1:170-172 Mr '63. (MIRA 16:2)

1. Kazanskaya geologicheskaya ekspeditsiya Gosudarstvennogo
geologorazvedochnogo tresta neftyanoy i gazovoy promyshlennosti
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terrigenous sediments in the lower Kama Valley. Trudy VNIGNI
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no. 36:155-156 '63.

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lower Kama Valley. Geol. nefti i gaza 7 no.8:45-50 Ag '63.
(MIRA 16:10)
1. Geologicheskiy institut Kazakhstanskogo filiala AN SSSR.

YEGOROV, I.S.

History of the formation of the tectonic pattern in the Lower Kama
oil-bearing region. Sov. geol. 7 no.9:47-61 S '64. (MIRA 17:10)

1. Kazanskiy nauchno-issledovatel'skiy institut Gosudarstvennogo
geologicheskogo komiteta SSSR.

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Time and conditions for oil accumulation in the sediments of the
terrigenous formation of the Devonian of the Lower Kama oil-bearing
region. Geol. i geofiz. no.5:16-19 '64. (MIRA 17:9)

1. Geologicheskiy institut Kazanskogo filiala AN SSSR.

YECOROV, I. T.

22631 Priblizhnaya Formula Dlya Vychisleniya Ostoychivosti Sudov Na Bol'Tsikh
Uglakh Krena. [S Primech. V.V. Semenova Tyanshanskogo], Sbornik
Rabot Studentov--Chlenov Nauch. Kruzhkov (Leningr. Korablestroit. IN-T)
Vyp. 1, 1949, S. 28-34

SO: Letopis' 30, 1949

YEGOROV, I. T.

337. Egorov, I. I. Compressible Fluid Impact (in Russian).
Pril. Mat. Akad. Nauk SSSR 20, 1, 67-72, Jan./Feb. 1956.

A sudden pressure increase, propagated at sound speed in both media, arises on the retarded body surface during impact of a solid body on a plane fluid surface.

The case explained is when the speed of sound propagation in the body incident on the fluid surface can be considered infinitely large relative to the speed of sound propagation in the fluid. In this case the fluid is absolutely rigid. In this case the fluid accepts the whole relative velocity of the motion occurring at the start of the impact. The hydrodynamic pressures that remains propagate at the speed of sound from the contact surface into the fluid as compression and rarefaction waves and gradually drop. After the maximum pressure has been reached, the pressure still corresponding to the body motion after the impact remains.

Neglecting viscous forces and also taking into account that the fluid motion starts from rest, the motion of an ideal compressible fluid during impact is described by a potential:

Considered is the case of impact on the surface of a compressible fluid by a plane plate of infinite span or by a body for which the submerged part of the surface can be approximated by a plane.

Considered is the first phase of the impact phenomenon on the fluid surface which precedes the appearance of a caviton since the hydrodynamic pressures are greatest in just this period. Observations of body incidence on a fluid surface show that the free surface of the fluid is almost completely at rest in this period if the small elevation near the boundary of the impact surface is not taken into account.

From author's summary by M. D. Friedman, USA

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YEGOROV, I.T.

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AUTHOR: Yegorov, I.T. (Leningrad)

TITLE: The oblique impact of a lamina on a fluid. (Kosoy udar o zhidkost')

PERIODICAL: "Izvestiya Akademii Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk." (Bulletin of the Academy of Sciences USSR. Technical Sciences Section.) No.8, pp. 41-47 (U.S.S.R.), 1957

ABSTRACT: The impact on the surface of a fluid by a plane, infinite lamina is discussed. It is assumed that at the moment of contact with the fluid, the lamina has a component of relative velocity parallel to the undisturbed surface of the fluid. The process of interaction is divided into two phases. In the first phase is investigated the entry of the lamina into the water. In the second phase is determined the resulting motion of the lamina with constant or, in the case of large, horizontal velocities, with variable wetting of the length of the lamina. Only the initial stages of the process of impact are investigated before the appearance of cavities behind the lamina. As experiment shows, it is in the first stage of impact that the hydro-dynamic forces reach their maximum values. The author further investigates the entry of the lamina into the water with constant angle of attack β which occurs in the case

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