Card 1/2/

ASD Pr-4/Pc-4 EPF(c)/EWP(j)/EWT(m)/BDS \$/0062/63/000/006/1111/1114 L 12722-63 ACCESSION NR: AP3002294 AUTHOR: Dolgiy, I. Ye.; Meshcheryakov, A. P.; Gayvoronskaya, G. K. Synthesis and properties of bilicon and germanium-containing hydrocarbons TITLE: of the cyclopropane series SOURCE: AN SSSR. Izv. Otdeleniye khimicheskikh nauk, no. 6, 1963, 1111-1114 TOPIC TAGS: silicon-containing hydrocarbons, germanium-containing hydrocarbons, cyclopropane series ABSTRACT: Hydrocarbons of the cyclopropane series having an atom of Si or Ge in the molecule were synthesized and properties, including extensive Raman data, were described. (Trimethyl germyl-methyl) cyclopropane, (trimethyl silylmethyl) cyclopropane, (triethylsilyl) cyclopropane and (trimethylsilyl) cyclopropane, and for comparison, neopentylcyclopropane, were studied. In the reaction of the unsaturated silicon hydrocarbon with methylene iodide in the presence of Cu-Zn vapors, neither the Alpha or Beta position of the double bond (in the case of trimethylallyl- or trimethylvinyl silane), nor the nature of the element found in the position Beta to the double bond (in the case of trimethylallyl silane, trimethylallyl germane and (4,4-dimethylpentene-1) show any significant effect on the yield of the cyclopropane Association: Inst. of Organic Chemistry, Academy of Sciences SSSR produced.

MESHCHERYAKOV, A.P.; DOLGIY, I.Ye.

Method of producing unsaturated ketones in the cyclopropane series.

Dokl. AN SSSR 154 no.1:152-154 Ja'64. (MIRA 17:2)

l. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Predstavleno akademikom A.A. Balandinym.

ACCESSION NR: AP4019975

8/0020/64/154/006/1376/1378

AUTHOR: Dolgiy, I. Ye.; Meshcheryakov, A. P.

TITLE: Synthesis and properties of dimethyldi-(cyclopropylmethyl)-, methyltri-(cyclopropylmethyl)- and tetra-(cyclo-propylmethyl) silenes

| SOURCE: AN SSSR. Doklady*, v. 154, no. 6, 1964, 1376-1378

TOPIC TAGS: dimethyl silane, methyl silane, cyclopropylmethyl silane, siliconhydrocarbon, zinc copper vapor

ABSTRACT: Dimethyldi-(cyclopropylmethyl) silene

was obtained with 32% yield. It was not possible to precipitate the reaction product of methylene iodide with only one multiple bond of dimethyldially is lane,

Card

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ACCESSION NR: AP4019975

namely, dimethylallyl-(cyclopropylmethyl) silane. This is the second hydrocarbon known which contains three 3-membered carbon rings and the first hydrocarbon of this type which contains a silicon atom. However, in a fraction precipitated during fractionation of the reaction mixture which boils below the hydrocarbon named, some impurity (10-15%) of unsaturated hydrocarbon was found which obviously was either methylallyldi-(cyclopropylmethyl) or methyldiallyl-(cyclopropylmethyl) silane or a mixture of them. When methylene iodide was reacted with tetraallylsilane in the presence of zinc-copper vapor, silicon-hydrocarbon was obtained with about a 13% yield which according to boiling temperature and elementary analysis date, is tetra-(cyclopropylmethyl) silane

Card 2/3

"I. V. Vikha								
ASSOCIATION: SSSR (Instit	Institute of O	ut organich rganic Chem	eskoy ki istry, A	imii i kad en j	m N. D. 2 of Scien	lelinskovo Les SSSR)	Akademii	. Dauk
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Card 3/3								

DOLGIY, I.Ye.; MESHCHERYAKOV, A.P.

Interaction of diazoacetic ester with tetraelly silane. Po

Interaction of diazoacetic ester with tetraellylsilane. Pokl. AN SSSR 157 no.3:615-618 J1 164. (MIRA 17:7)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR. Predstavleno akademikom A.A. Ralandinym.

MESHCHERYAKOV, A.P.; DOLGIY, I.Ye.

Synthesis and properties of hydrocarbons with two adjacent three-membered carbon rings. Izv. AN SSSR Ser. khim. no.7: 1333-1335 Jl '64. (MIRA 17:8)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR,

MESHCHERYAKOV, A.P., PETROVA, L.V.

Synthesis of mono- and diacetylene hydrocarbons having quaternary carbon atoms. Izv. AN SSSR. Ser. khim. no.8:1488-1497 Ag '64.

(MIRA 17:9)

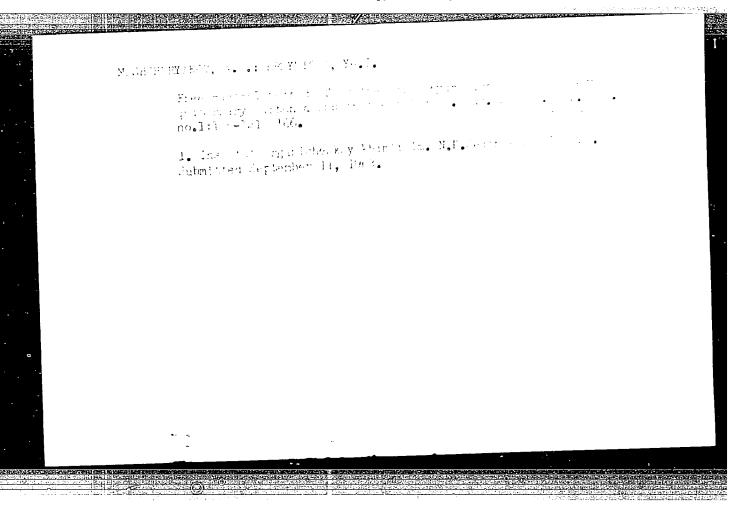
1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

DOIGTY, I.Ye.; MESHCHWPYAKCY, A.I.; DRIVETOVA, I.B.

Comparative reactivity of alky.-substituted derivatives of cyclopropane, Izv. AN SSSR Ser. khim. no.1:192-194 [45.]

(MIRA 18:2)

1. Institut orga iches/oy khimii im. N.D. Velinskogo AN OSSR.



 $L_01815-67$ EWT(m)/EWP(j) ACC NRI SOURCE CÓDE: UR/0062/66/000/001/0116/0121 AP6035**6**41 AUTHOR: Meshcheryakov, A. P. and Erzyutova, Ye. I., Institute of Organic Chemistry im. N. D. Zelinskiy, AN. SSSR (Institut organicheskoy khimii AN SSSR) 32 TITLE: Free-radical method of synthesis of hydrocarbons with several quaternary carbon atoms in the molecule SOURCE: AN SSSR. Izvestiya. Seriya khimicheshaya, no. 1, 1966, 116-121 TOPIC TAGS: free radical, synthetic hydrocarbon ARSTRACT: When di-ter-butyl peroxide is decomposed in hydrocarbons, several parallel reactions occur: 1) homolytic breakdown of the peroxide at the 0-0 bond with the formation of a butoxy-radical $(CH_3)_3CO_1$ 2) removal by the butoxy-radical of labile H-atoms from the solvent molecule with the formation of free radicals; 3) reactions of free radicals formed from the solvent of recombination of the hydrocarbons, disproportionation and polymerization. The more stable the radicals formed, the more they are capable of recombining to form dimers. Experimental data shows that the stability of free radicals rises with an increase in the number of substituents at the atom with the nonpaired electron and the greater the branched character of these substituents. Aryl substituents increase the stability of free radicals more than do alkyl. authors used trialkyl- and aryldialkylsubstitued methane as solvents, which have the Card 1/2

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MECHCHERYAKOV, A. J.: "Some problems in the theory of semi-proper continued second-order fractions." Saratov State Timent M. G. Chernyshevskiy. Saratov, 1956.
(Dissertation for the Degree of Candidate in Physiconathematical Sciences.)

30: Knizhnaya Letopis!, No. 26, 1956
```

MESHCHERIAKOV, A.V.,insh. (Khar'kov)

Theory and design of compensators for MSM-1 levels with self-adjusting line of sight. Izv.vys.ucheb.zav.; prib. no.3:131-134 '58. (MIRA 12:2)

(Surveying-Instruments)

OGLC 3LIN, D.N..prof.; MCSHCHERYAKOV, A.V.,inzh.

Hew mine aurveying level with self-adjusting sights axis. Gor. zhur.
no.4:59-61 Ap '58. (MIRA 11:4)

(Mine surveying—Equipment and supplies)

AUTHOR:

Meshcheryakov, A. V.

56-58-6-9/21

TITLE:

meson principles of the second Level NSM - 1 (Nivelir NSM - 1)

PERIODICAL: Geodeziya i kartografiya, 1958, Nr 6, pp. 41 - 44 (USSR)

ABSTRACT:

The factory for surveying instruments at Khar'kov developed the level NSM - 1. In this level the line of sight is automatically adjusted in a horizontal position. An exact description explains by which means this is achieved. In the optical laboratory of the factory the accuracy in the adjustment of the line of sight to the horizontal position was investigated. This investigation is described. The results of the investigation and the estimation of the accuracy are mentioned in a table. The data of this table show that the error of the adjustment of the line of sight by the compensator does not exceed 0",2. Several additional investigations proved this result. The first test set of these instruments will show inhowfar the efficiency of work can be increased in using these levels. There are 2 figures and 1 table.

Card 1/2

CIA-RDP86-00513R001033

APPROVED FOR RELEASE: Wednesday, June 21, 2000

Level NSM - 1 6-58-6-9/21

1. Geophysical surveying--Equipment 2. Theodolites--Design 3. Theodolites--Calibration

Card 2/2

·3(4) ·

AUTHOR:

Meshcheryakov, A. V.

SOV/154-59-1-12/19

TITLE:

Optical Mining Theodolite With an Inside Distance Meter

(Opticheskiy marksheyderskiy teodolit s vnutrennim dal'nomerom)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"-

yemka, 1959, Nr 1, pp 115-131 (USSR)

ABSTRACT:

The great number of experiments in the USSR and abroad for employing the optical range finder in longitudinal surveys in mines had no success. General deliberations on the possibility of an instrument to be used for this purpose are given at first. The range finder with a basis inside and a lens represents the most convenient instrument as for construction and easiness of work. It belongs to the theodolite OTTG-30 (system by N. A. Gusev). The device has a basis 50 mm long and an accuracy of 1: 300 in distance measuring in mines between 5 and 60 m. The drawbacks of the apparatus are: the necessity of computing the distances by a formula or table, and the small accuracy in distance measuring. - The

possible methods of eliminating these drawbacks are pointed out here, and further hints for improving the construction and manufacture of the device are given. In this connection,

Card 1/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

Optical Mining Theodolite With an Inside Distance Meter

507/154-59-1-12/19

a close investigation is carried out. At first, the construction of this device is described in short, then its theoretical accuracy is investigated, and it is shown that the accuracy is nearly double the accuracy demanded. The use of uniform reading scales in the distance meter with a lens compensator complicates the work. This drawback can be eliminated by the use of nonuniform scales. In this connection, the theory of building up and computing nonuniform scales for a distance meter is described. An analysis of instrumental drawbacks in the distance meter with an inside basis is then given. It shows that the device can be manufactured with an accuracy of under 1: 2,000 as it is required for distance measuring in mines between 20 and 60 m. The accuracy of coincidence of two pictures of lines of the distance-measuring mark is investigated, and the computation of the separating device (for obtaining two independent pictures of the two halves of one line) is indicated. Finally, the method of preparing the distance-measuring scale is described. The investigations carried out show that the nonuniform scales of the distance meter with a lens compensator can be produced in series

Card 2/3

Optical Mining Theodolite With an Inside Distance

SOV/154-59-1-12/19

according to the actual values of the focal distances of the compensating lenses. This permits to read the distances directly on the distance-measuring scales. There are

10 figures and 1 table.

ASSOCIATION:

Khar'kovskiy zavod marksheyderskikh instrumentov (Khar'kov Works of Mine-surveying Instruments)

Card 3/3

ORLOVSKIY, S.V., kand. tekhn. nauk; MESHCHERYAKOV, A.V., inzh.

Mine orientation by optical device for the projection of vertical points.

Ugol' Ukr. 3 no.11:40-41 N '59. (MIRA 13:3)

(Mine surveying--Equipment and supplies)

< (1)

AUTHOR:

Meshcheryakov, A. V.

SOY/6-59-5-11/26

TITLE:

Optical Mining Transit OMT-30 (Opticheskiy marksheyderskiy

teodolit OMT-30)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 5, pp 35-39 (USER)

ABSTRACT:

Khar'kovskiy zavod marksheyderskikh instrumentov (Khar'kov Works for Underground Survey Instruments) have developed a new optical mining transit OMT-30 with a self-adjusting line of the zero point on the vertical circle. The transit serves the measuring of horizontal and vertical angles as well as the carrying-out of geometrical and trigonometrical levelings of the 1st order in pits and in open-face mining. The root mean square deviation in angle measuring with full repetition under the usual conditions does not exceed # 5". In the carrying-out of geometrical leveling the root mean square deviation in the determination of the elevation discourse kilometer of a reciprocal leveling does not exceed a semilar The main data of the transit and a description of the decree are presented. In 1958 the transit was tested in mits. At present a batch of test transits are being tried, and series production is being prepared. There are 4 figures and 2 tables.

Card 1/1

MESHCHERYAKOV, A. V., Cand Tech Sci -- (diss) "Self-restoring compensators." Moscow, 1960. 20 pp; (Ministry of Higher and Secondary Specialist Education REFSH, Moscow Inst of Engineers In Geodesy, Aerial Photography, and Cartography); 150 copies; price not given; (KL, 28-60, 161)

LEBEDEV, N.N., dotsent, kand. tekhn. nauk; MESHCHERYAKOV, A.V., kand. tekhn. nauk

High-precision optical centering device. Izv. vys. ucheb. zav.; geod. i aerof. no.3:109-116 64. (MIRA 18:3)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (for Lebedev). 2. Khar'kovskiy zavod marksheyderskikh instrumentov (for Meshcheryakov).

PSCHENICHNYY, I.P.; SHTEYGARDT, Yu.N.; MESHCHERYAKOV, A.V.; VASIL'YEV, V.N.;
SOKOLOVA, E.F.; EROVKOVICH, B.D.; RUBANOVSKIY, B.R.; LUR'YE, R.G.;
PARAKHONYUK, Z.M.; GOROKHOVSKIY, B.I.; ZHDANOV, V.S.; GORBUNOVA, Z.V.
GLIKIN, M.I.; TAVAR'YAN, E.A.; SUKHODOLYA, Ye.I.

Abstracts. Kardiologiia 4 no.4:87-90 Jl-Ag ' 64. (MIRA 19:1)

L 47050-65 EWA(k)/FED/EWG(x)/EWT(1)/9EC(k)-2/EE EWA(h) PM-4/Ph-4/Pb-4/PF-4/Psb/Pi-1/PI-4 IJP	C(t)/T/ESC(b)-2/SWP(k)/EWA(m)-2/ (3) WG
ACCESSION IR: AP5007551	8/0368/65/002/001/0090/0091
AUTHOR: Meshcheryskov, A. V.; Rom-Krichevskaya,	1. A.
TITLE: Some characteristics of a laser with pri	
SOURCE: Zhurnal prikladnoy spektroskopii, v. 2,	no. 1, 1965, 90-91
TOPIC TAGS: laser cavity, laser reflector, lase	r pump energy, laser efficiency
ABSTRACT: The authors investigated a laser whos paired flat mirrors mounted at a nearly right and ternal reflection prisms, whose ray paths were signed accurate to 5". The corners of the reflect dicular at a distance of 290 mm from each other is left between the mirrors of one reflector for the resonator. The active red was 70 mm long or nessignium-activated glass and located in the corderatence of the threshold pump energy on the second contents of the corners of the second contents.	milar to those of these mirrors. small angle which could be measers were placed mutually perpendent of the energy from and 7 mm in diameter, made of the part of the resenator. The
Card 1/8 2_	

ACCESSION NR: AP5007551 mirrors is shown in Fig.1 of the angle between the mirrors is later for minimum pump energy and max prism used in optical resonator and never larger. Orig. art. 1	days output energy the should have an engle	satal impermed relieution	
ASSOCIATION: None SUMMITTE: 173464 MR REF EOV: 000	encl: ol	and code: ec	
Card 2/3?			

I 63381-65 EMA(k)/FBD/EWT(1)/EWP(e)	/EVIT(m)/EEC(k)-2/EWF(i)/T/EWP(k)/EWP(b)/
EN.(m)-2/EMA(h) SCTS/IJP(c) WG/MH ACCESSION NR: AP5019761	UR/0051/65/019/002/0264/0269 621.375.9:535
AUTHOR: Rom-Kricheyskaya, I. A.; Ratne	er, A. M.: Meshcheryekov, A. V.44 45
TIPLE: Threshold power of a laser with source: Optika I spektroskopiya, v. 1	
TOPIC TACS: solid state laser, neodym alignment	ium laser, glass laser, laser optics, laser
having an angular beam spread on the obtain (which includes the tested rod), a power by the condenser lens placed in the rod. A laser system is considered mirrors, and a condenser lens. Such a lent to a system with confocal spherical system may be due to a relative tilt of	hreshold pump power of a solid-state laser order of 10—20' and a misaligned optical sysned the influence exerted on the threshold front of one of the mirrors confocally with whose principal elements are the rod, plane system has been shown previously to be equivaled mirrors. The misalignment of the optical cal mirrors, or to into the optical axes of the mirrors, or to insum tilt angle under which laser action remains ometric optics calculations. Experiments were
CHU 1/C	

ACCESSION NR: AP5019761 made with a neodymium-glass lass being 70 mm long and 5-6 mm in permissible tilt angle is direct in the experiment, so that the by using a proper lens. The ms where d is about half the rod of advantages of a system with flaster indicated. It is also show lenses it is possible to determ authors thank N. L. Kramarenko Orig, art. has: 3 figures and	idiameter. The experimentally proportional to the received of optical misalign eximum tilt engle is found diameter and F the focal leat mirrors and a lens over on that by testing the lase mine the degree of inhomogetor preparing the multiley	solution of the lens used ment can be compensated to be approximately d/2F, angth of the lens. Some one with spherical mirrors ir with a set of several meity of the rod. "The
ASSOCIATION: none SUBMITTED: 04May64	ENCL: 00	SUB CODE: EC, OP
NO REF SOV: 002	OTHER: 005	ATD PRESS: 4050

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L 46018-66 EVT(1)/EEC(k)-2/T/EWP(k) IJP(c) WG/3D ACC NR: AT6015137 SOURCE CODE: UR/0000/66/000/000/0144/0149
AUTHOR: Kramarenko, N. L.; Meshcheryakov, A. V.; Naboykin, Yu. V.; Ratner, A. M.; Rom-Krichevskaya, I. A.
 ORG: Physico-Technical Institute of Low Temperatures, AN UkrSSR (Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR)
TITLE: Investigation of losses and loss-associated characteristics of laser radiation
SOURCE: Respublikanskiy seminar po kvantovoy elektronike. Kvantovaya elektronika (Quantum electronics); trudy seminara. Kiev, Naukova dumka, 1966, 144-149
TOPIC TAGS: solid state laser, laser R and D, LASER RADIATION
ABSTRACT: A method for experimental determination of the radiation loss in a solid-state-laser resonator is suggested. A 4-level system is considered. The loss is determined, a plot of output energy vs. mirror transmissivity is constructed, and estimated and experimental results are compared for a Nd-glass
Card 1/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-

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L 46018-66

ACC NR: AT6015137

specimen. All quantities that enter a total-radiation loss formula, except for dispersion loss, are directly measureable. Thus, the problem is reduced to determining the dispersion loss. The latter is derived from the experimental data on the effect of the first-mirror transmissivity upon the threshold pumping energy. The knowledge of the resonator radiation loss permits determining the optical transmissivity of mirrors. Orig. art. has: 4 figures and 16 formulas.

SUB CODE: 20 / SUBM DATE: 12Feb66 / ORIG REF: 004 / OTH REF: 002

Card 2/2 TV

VELIKORETSKIY, D.A.; LORIYE, K.M.; FINKEL', I.I.; GRIGORCHUK, Yu.F.;

BERGER, L.Kh.; UUTROBINA, V.V.; KHARCHENKO, V.P.; MESHCHERYKOY, A.V.,

student V kursa; OBERE-CHENKO, Ya.V., kand.med.nauk; NIKITIN, A.V.;

MUKHOYEDOVA, S.N.; KUSMARTSEVA, L.V., assistent; KUZMETSCV, V.A.,

dotsent; KUKHTINOVA, R.A., assistent; BONDARENKO, Ya.D. (g. Fastov);

KURTASOVA, L.V. (g. Fastov); PEVCHIKH, V.V.; CHURAKOVA, A.Ye.;

BABICH, M.M.; KUZ'MIN, K.P.; PAVLOV, S.S.; SHEVLYAKOV, L.V., kand.

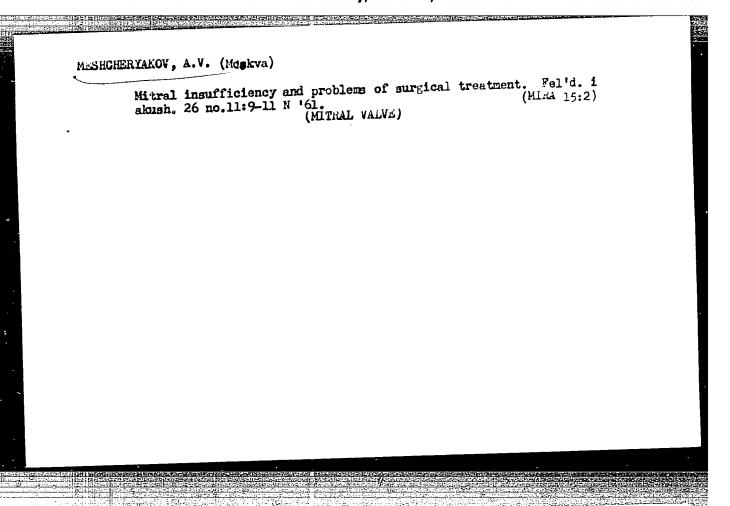
med.nauk; IGNAT'YEVA, O.M.; ZEYGERMAKHER, G.A.; GUTKIN, A.A.;

POLYKOVSKIY, T.S.

Resumes. Sov.med. 25 no.11:147-152 N '61.

(MIRA 15:5)

l. Iz Instituta grudnoy khirurgii AMN SSSR (for Velikoretskiy, Loriye, Finkel'). 2. Iz bol'nitsy No.3 Gorlovki Stalinskoy oblasti (for Grigorchuk). 3. Iz Tyumenskoy oblastnoy bol'nitsy (for Berger, Utrobina). 4. Iz Karatasskoy rayonnoy bol'nitsy Yuzhno-Kazakhstanskoy oblasti (for Kharchenko). 5. Iz Gospital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova (for Meshcheryakov). 6. Iz kliniki propedevticheskoy terapii Stalinskogo meditsinskogo instituta na baze oblastnoy klinicheskoy bol'nitsy imeni Kalinina (for Oberemchenko). 7. Iz kliniki gospital'noy terapii Voronezhskogo meditsinskogo instituta (for Nikitin, Mukhoyedova).
8. Iz kafedry obshchey khirurgii Kishinveskogo meditsinskogo instituta (for Kusmartseva).



MEN'SHIKOV, V.V.; USVATOVA, I.Ya.; LEBEDEVA, R.N.; MESHCHERYAKOV, A.V.

Functional state of the adrenal glands and steroid therapy in surgical interventions. Khirurgila 39 no.9239-45 S 63 (MIRA 1723)

1. Iz gospital noy khirurgicheskoy kliniki (zav. - deystvitel'nyy chlen AMN SSSR prof. B.V. Petrovskiy) i mezhklinicheskoy gormonal ncy laboratorii pri gospital noy terapevticheskoy klinike (zav. - deystvitel nyy chlen AMN SSSR prof. A.L. Myasnikov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

SOLOV YEV, G.M.: USVATOVA: 1. Ya.; MENHITHYAKOV, A.V.

Function of the adrenal cortex in experimental extracorporeal circulation. Eksper. knir. i enest. 9 no.2:77480 Mr-Ap 164. (MIRA 17:31)

l. L beratoriya iskusstvennogo kroveobrashcheniva pri kafedre gosiitalinoy khimurgii (zav. - prof. B.V. Petrovskiy) i gormonalinaya laboratoriya pri kafedre gospitalinoy terapii (zav. - prof. A.L. Myasnikov) i Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

SOLOV'YEV, G.M.; MEN'SHCHIKOV, V.V.; USVATOVA, 1.Ya.; MESHCHERYAKOV,
A.V.; MANEVICH, A.Z., red.

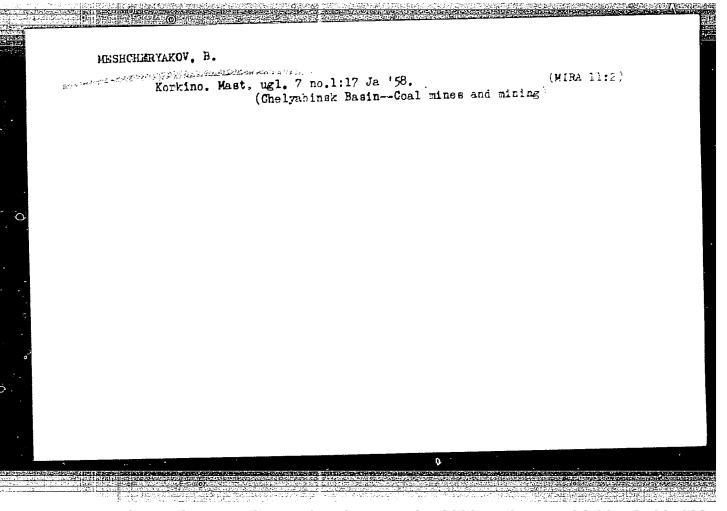
[Adronal hormones in surgery] Germony nadpochechnikov v
khirurgii. [By] G.M.Solov'ev i dr. Moskva, Meditsina, 1965.
(MIRA 18:5)

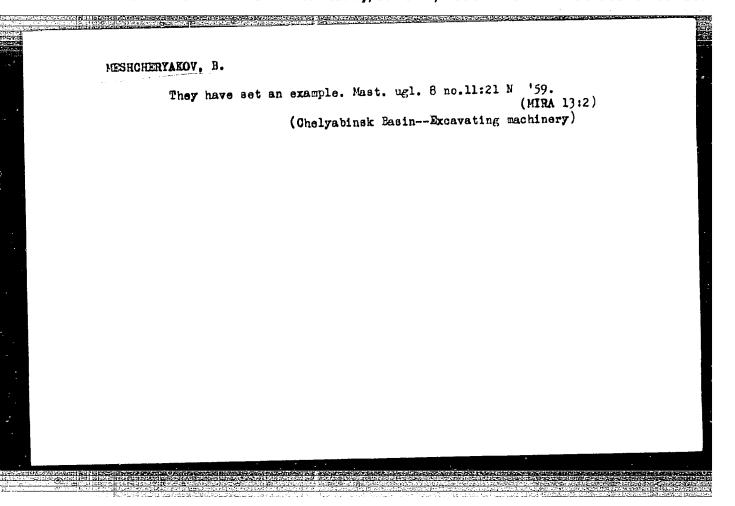
261 p.

MESHCHERYAKOV, A. Ya.

Isolation of the anthrex bacteriophage and its use for the differential diagnosis of Bac. anthracis. Trudy VIEV 26:46-55 *62. (MIRA 16:2)

1. Laboratoriya mikrobiologii i immuniteta Vsesoyuznogo instituta eksperimental'noy veterinarii.
(Eacteriophage) (Eacillus anthracis)





MESHCHERTAKOV, Boris Mikhaylovich

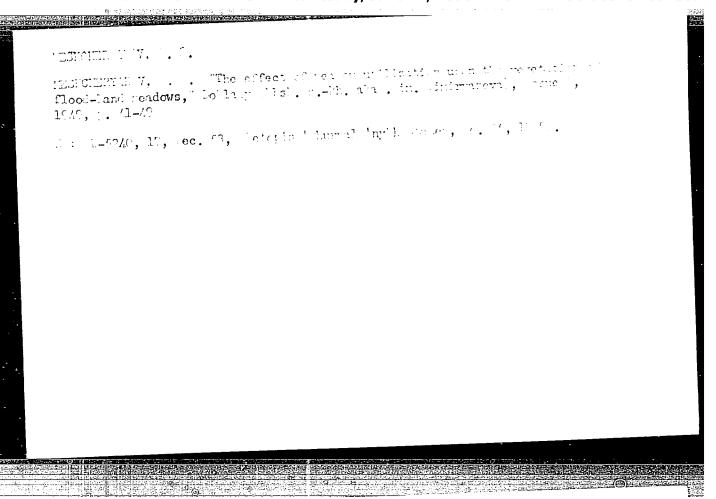
[Korkino, city of coal riners] Korkino, gorod ugol'shchikov. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1960. 46 p. (MIRA 15:4)

(Korkino-Description)

ANDREYEV, V.D., kend.fiziko-matematicheskikh nauk; MESHCHERYAKOV, B.M., inzh.;
TYULINA, K.A., inzh.

Spontaneous extinction of a d.c. arc in a vacuum-type cutout. Veat.
elektroprom. 33 no.7:43-45 jl '62. (MIRA 15:11)

(Electric cutouts)



I-3 USSR/Plant Physiology. Growth and Develoge eat

abs John: Ref Mar - Bi 1., N & . 1.50., N. 9132)

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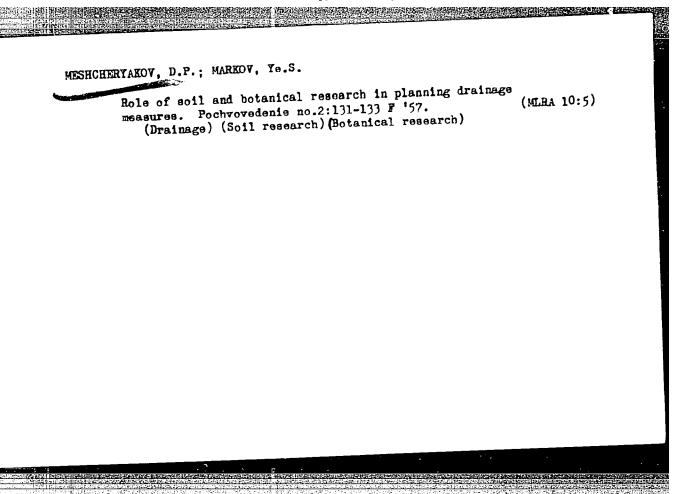
و نظارتان

Orig Pul.: Izv. Timirynzevsk. ...d.. chod., 1957, H 2, 46-1

Abstract: A brief survey of published information on the question of preservit, the perdicating or a city of Nerney burt weeks. The results of the exteril costs conducted by the buth or on the jernination of bean seeds from harbarius as these are reported. A list of scholes from which the seeds or director ofter . prolonged storage in the horbarius is appended (45 varieties). From the plants used in the study, the longest pari d of preserving the eminating willity was found in the scale of Trifolium repens, T. muchos, Vicin tetrus erum (ver 50 years). -- ...P. Dasden. W.

: 1/1 O 200

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000



MESHCHERYAKOV, F. A., Cand Biol Sci -- (diss) "Research into the mechanism of reflex regulation of contraction in the alimentary canal in anism of reflex regulation of contraction in the alimentary canal in sheep and dogs." Stavropol', 1959. 24 pp; (Ministry of Agriculture RSFSR, Stavropol' Agricultural Inst); 180 copies; price not given; (KL, 17-60, 147)

MESHCHERYAKOV, F.A. Eole of the spinal cord in the regulation of gastrointestinal motility. Fiziol.zhur. 45 no.11:1367-1371 59. (MIRA 13:5) 1. From the department of physiology, Agricultural Institute, Stavropol. (GASTROINTESTINAL SYSTEM physiol.) (SPINAL CORD)

MESHCHERYAKOV, F.A.; SUVOROVA, V.A.

New method of making a fistula of the pancreatic duct in cattle. Fiziol. (MIRA 13:11)
zhur. 46 no.11:1419-1421 N '60.

1. From the Chair of Farm Animal Physiology, Agricultural Institute, Stavropol. (PANCREAS) (FISTULA)

PHASE I BOOK EXPLOITATION

SOV/5437

Meshcheryakov, Fedor Yeliseyevich

Osnovy kholodil noy tekhniki (Principles of Refrigeration Engineering) Moscow, Gostorgizdat, 1960. 375 p. 10,000 copies printed.

Reviewers: A.A. Gogolin, Candidate of Technical Sciences, and M.A. Ocheretyanyy, Engineer: Ed.: Ye.M. Krest'yaninova; Tech. Ed.: D.M. Medrish.

PURPOSE: This textbook is intended for students in technological divisions of schools of higher education of the Ministry of Commerce of the RSFSR.

COVERAGE: The book deals with the generation and application of artificial refrigeration in various branches of the national economy, including public nutrition and commerce. The theoretical fundamentals of refrigeration engineering, as well as des riptions of refrigeration machines and equipment and of refrigerated transport, are also included. Special attention is given to automation, design, and operation of refrigerating plants. The appendix contains reference materials, tables and diagrams, necessary for the computation, design, and operation of refrigeration machines and plants. Ch. VI, VII, and XIII were written

Card 1/12 -

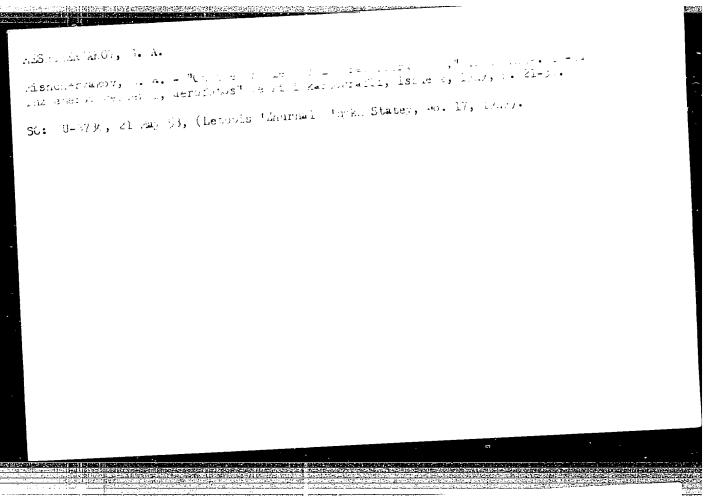
Principles of Refrigeration Engineering

SOV/5437

jointly with V.M. Shavr. The author thanks the Department of Planning and Equipping Establishments of Public Nutrition of the Institut narodnogo khozyaystva imeni G.V. Plekhanova (Institute of National Economy imeni G.V. Plekhanov); the Director of the Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti (All-Union Scientific Research Institute of the Refrigeration Industry), Sh.N. Kobulashvili; staff members of this institute, A.A. Gogolin, S.L. Gimpelevich, I.F. Dushkin, N.T. Kudryashov, D.N. Prilutskiy, A.D. Tezikov, V.B. Yakobson; Engineers of the Giprotorg A.V. Shaposhnikov, V.N. Shibanova; and the chief designer of the Tsentral'noye konstruktorskoye byuro kholodil'nogo mashinostroyeniya (Central Design Office of Refrigeration Machine Construction) Engineer Ye.S. Gurevich. There are 39 references, all Soviet.

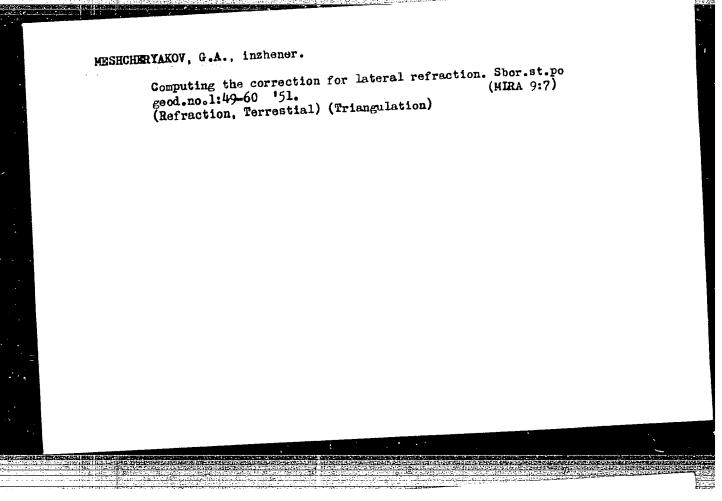
TABLE OF CONTENTS:

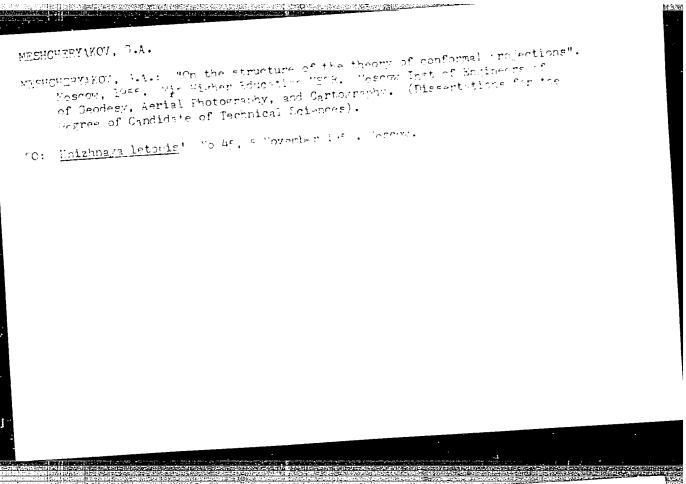
Foreword	3
Ch. I. Physical Nature and Methods of Refrigeration	7
Ch. II. Theoretical Fundamentals of Mechanical Refrigeration	9
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033





3(2)

SOV/154-58-6-12/22 Meshcheryakov, G. A., Candidate of Technical Sciences

AUTHOR:

TITLE:

The Development of the General Theory of Euler's Projections (O postroyenii obshchey teorii proyektsiy Eylera)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Geodezija i aerofotos"yemka, 1958, Nr 6, pp 111-113 (USSR)

ABSTRACT:

At the end of March 1956, Professor N. A. Urmayev suggested to the author a task on the building up of Euler's projections. The author could not solve the set task on the basis of existing papers on Euler's projections, and was obliged to create a general theory by which he could solve the task. This theory is described here in short. The general solution for the case where the individual radius is represented on a spherical surface (this is sufficient for cartographical purposes: the representation of the spheroid in the plane can be easily converted to the representation of the sphere in the plane), and the method for building up Euler's projections are given. There are 7 references, 5 of which are Soviet.

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CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

SOV/154-58-6-12/22

The Development of the General Theory of Euler's Projections

ASSOCIATION:

Novosibirskiy institut inzhenerov geodezii, aerofotos" yemki i kartografii (Novosibirsk Institute for Geodesy, Air Survey and

Cartography Engineers)

SUBMITTED:

September 10, 1958

Card 2/2

sov/35-59-9-7575

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 9, pp 108-109

(USSR)

AUTHOR:

Meshcheryakov, G.A.

TITLE:

On the Question of Solving an Inverse Geodetical Problem

PERIODICAL:

Tr. Novosib. in-ta inzh. geod. aerofotos"yemki i kartogr; 1958, Vol 10,

pp 79 - 82

ABSTRACT:

In solving an inverse geodetical problem in the case when two points are defined on different and differently oriented reference-ellipsoids, two additional problems arise: the determination of the influence of the difference in the orientation of the ellipsoids, the allowance for the difference of their sizes and oblateness. The most difficult is the calculation of the difference of their orientation; for this it is necessary to know the plumb line deviation at two starting points of the orientation of the ellipsoids in the body of the Earth. Considering the orientation error as known the author suggests that the corrections of the relation of the geodetical coordinates to the surface of any ellipsoid should be calculated according to F.A. Sludskiy's formulae given by him in "Lectures on

Card 1/2

Geodesy":

On the Question of Solving an Inverse Geodetical Problem

sov/35-59-9-7575

a δ B = m sin B cos L + p sin B sin L - q cos B + 2ae sin B cos B δ e; a cos B δ L = m sin L - p cos L; δ h = - δ a - m cos B cos L - p cos B sin L - q sin B + ae sin^2 B δ e. If the difference of orientations of two ellipsoids (δ B₀, δ L₀, δ h₀) is known, the quantities m, p and q, that is, the coordinates of the center of the second ellipsoid in relation to the first are determined by the following formulae: δ m = - cos B cos L δ a - sin^2 B cos B sin L a e δ e + sin B cos L a δ B₀ + cos B sin L a δ L - cos B cos L δ h₀; δ p = cos B sin L δ a - sin^2 B cos B sin L a e δ e + sin B sin L a δ B₀ - cos B cos L a δ B₀ - cos B cos L a δ B₀ - cos B sin L δ B₁ a + (sin^3 B + sin 2 B cos B) a δ B₂ e - cos B a δ B₃ b - sin B δ B₄ h₁. In the article the numerical values of m, p and q are given for the ellipsoids of Bessel' and Krasovskiy. The calculation according to the obtained formulae for the ellipsoids of Bessel' and Krasovskiy with an orientation in Pulkovo yields the following results; m \approx - 364 α , p \approx - 277 α , q = -664 α .

G.V. Bagratuni

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

s/044/60/000/008/032/035 C111/C222

16.3000 AUTHOR:

Meshcheryakov, G.A.

TITLE:

A generalization of the notion of the stereographic

PERIODICAL: Referativnyy zhurnal. Matematika, no.8, 1960, 194,

abstract no. 9435. Tr. Novosib. in-ta inzh. geod., aerofotos"-

yemk1 i kartogr., 1958, 11, 87-102

The author considers a bounded region of a smooth surface and introduces isothermic coordinates on the surface. The coordinate lines of the isothermic system are called isothermic circles and isothermic rays. The author's scope is to find a conformal mapping of the surface onto the plane so that the isothermic circles are mapped onto the circles of the plane.

[Abstractor's note: The above text is a full translation of the original Soviet abstract.]

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

3(2)

Meshcheryakov, G. A., Candidate of

SOV/154-59-4-11/17

AUTHOR:

Technical Sciences, Docent

TITLE:

General Theory of the Euler Projections (Obshchaya teoriya

proyektely Eylera)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aero-

fotos"yemka, 1959, Nr 4, pp 93-103 (USSR)

ABSTRACT:

Euler projections are equal-area projections of the meridians and the parallels with an orthogonal grid. In all papers (Refs 1,2,3,4) which dealt with these, the questions of distortion were not discussed. Owing to the works (Refs 2,3) the setting up of a projection with a given distribution of distortions along a certain line is greatly complicated. The problem is solved by the integration of the Euler-equation or by the integration of the equation of N. A. Urmayev which is identical with the Euler-equation. These equations (hyperbolic differential equations with partial differential coefficients of the second order) are quasi-linear and no practical patterns for the solution of such equations exist. Here a solution of this problem is given by reducing it to equations which are easy to integrate. The solution of the problem is

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General Theory of the Euler Projections

SOV/154-59-4-11/17

given for a spherical area with a standard radius. Here we start from the following statements: x and y are rectangular coordinates of the points of the Euler-projection, ϕ is the latitude, λ - the longitude, $s = \sin\varphi$, $g = n^2 \cos^2\varphi = n^2(1-s^2)$, where $n = n(s, \lambda)$ is the scale along the parallel and β is a certain function of latitude and longitude, i.e. $\beta = \beta(s,\lambda)$. Formulas (1) are written down. If, therefore, β and g are known as the functions of latitude (or s) and longitude, there are two equations (1) in perfect differential quantities. from which x and y can be determined. In this case β and gwill satisfy equations (2) which is signified as the basic system. The problem is solved for a sphere with independent variables ϕ and λ or s and λ ; the transition from one group of variables to another is obtained by an exchange with $s=sin\,\psi$. This makes it possible to interpret functions β_2 g and x, y already on plane s, λ , i.e on a plane of the isocylindric projections which play the same part in the theory of the Euler-projections as the Mercator-projection plays in the theory of the conformal projections. With arbitrary λ -values the poles of the sphere are excluded from the investigation. According to the definition of g it is

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General Theory of the Euler Projections

SOV/154-59-4-11/17

supposed that always g>0. Function β is the convergence of the meridians in the respective point of the projection. First of all the basic system is investigated. For this purpose the of all the basic system is investigated. For this purpose the necessary terms are derived from the theory of a system of necessary terms are derived from the partial differential coefetwo differential equations with a partial differential coefetwo differential equations wanted, with two ficient of the first order of two functions wanted, with two independent variations (Refs 8,9,10). Two practical methods independent variations (Refs 8,9,10). Two practical methods independent variations (Refs 8,9,10) and (c_2) of the basis of the solution of equations (c_1) and (c_2) of the characteristics of the basic system in the plane s, λ and

2) on the basis of the solution of the reduced equations (c₁*) and (c₂*) in the plane ξ , η (constant parameters which determine the characteristics of the first or second bundle, the characteristics of this auxiliary plane ξ , η are straight. The characteristics of this auxiliary plane ξ , η are straight lines. It is shown that for some Euler-projections g is lines. It is shown that for some Euler-projections g is determined by differential equations with partial differential equations with determined by the solution of the differential equations with partial differential coefficients of the second order. Both partial differential coefficients of the second method for kinds are investigated here and the theory and method for

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General Theory of the Euler Projections

EOV/154-59-4-11/17

their setting-up is given. At present the author deals with a comparison of the methods given here (Construction of the projection on the basis of the solution of system (2) on the s-A plane or on the t- q plane. Investigation of the Euler-projections which are determined by an equation with partial coefficients of the first order, construction of Euler-projections which are determined by equations of the second order) and he deals with the construction of some concrete projections. There are 11 references, 9 of which

are Soviet,

ASSOCIATION:

Novosibirskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Novosibirsk Institute for Geodetic, Aerial

Survey and Cartographic Engineers)

SUBMITTED:

September 10, 1958

card 4/4

86265 5/154/60/001 104 005 3,4000

AUTHOR:

Meshcheryakov, G. A.. Candidate of Technical Sciences.

TITLE:

A New Method of Calculating Oblique Conformal Projections

PERIODICAL:

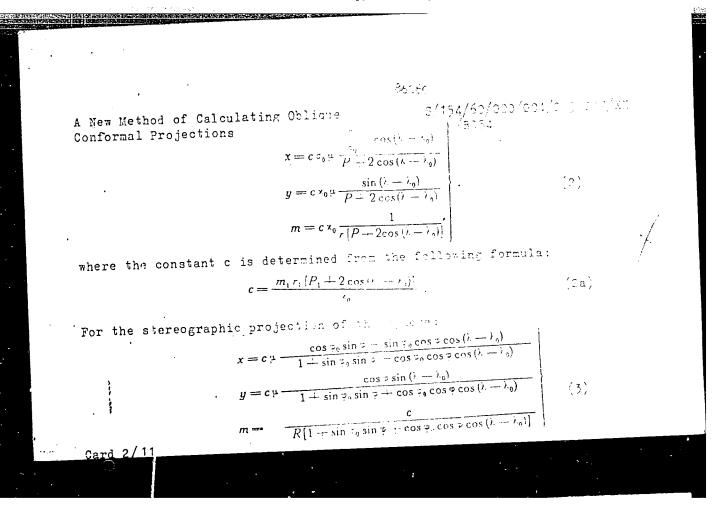
Izvestiya vysshikh uchebnykh zavedeniy. Geodeniya ; sero-

fotos"yemka, 1960, Mo. 4, pp. 70-91

TEXT: In his paper (Ref. 4), the author had worked out a theory of conformal projections. It comprises both normal and oblique projections (and transversal projections as a special care). It is based on the concept of stereographic projection of arbitrary surfaces (Ref. 5), and also a the classical analytical definition for various conformal projections where the projection is determined by the so-salled representation function. Details of this theory are not given. Only meneral considerations rate in the papers (Refs. 4, 5) are recalled. In the present paper, the author writes down the final formulas for the simplest oblique conformal projections, namely for the stereographic projection of the ellipsoid:

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	54 - 1
A New Method of Calculating Oblique Conformal Projections	5/154 F0 111 11 511/12 1
For the cylindrical projection of th	e spheroid:
· }	
$c = \frac{m_1 r_1 \sqrt{[P_1 + 2\cos(\lambda_1 - \frac{1}{2})]}}{r_1 r_2 r_3 r_4 r_5 r_5 r_5 r_5 r_5 r_5 r_5 r_5 r_5 r_5$	$ \lambda_0\rangle [P_1 - 2\cos(i_{\lambda_1} - i_{\lambda_0})] $
c =	r _a ,
where the constant c is determined	from the following formula:
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	∱5a`
For the cylindrical projection of a	he of here:
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New Method o	f Calculating Obligations	g/194/60/600 - 11/1 ¹⁵ 	
$y = c \cdot \mu \cdot \arctan$ $m = \frac{R \{(1 + \frac{1}{2})\}}{R \{(1 + \frac{1}{2})\}}$	$\frac{1 + \sin \varphi_0 \sin \varphi + \cos \varphi_0 \cos \varphi_0 \cos \varphi_0}{1 - \sin \varphi_0 \sin \varphi - \cos \varphi_0 \cos \varphi_0 \cos \varphi_0}$ $\frac{\cos \varphi_0 \sin \varphi - \sin \varphi_0 \sin \varphi_0 \cos \varphi_0 \cos \varphi_0}{c}$ $\frac{c}{\sin \varphi_0 \sin \varphi + \cos \varphi_0 \cos \varphi_0 \cos \varphi_0 \cos (\lambda - \varphi_0)}$ $\frac{1}{\cot \varphi_0 \sin \varphi - \cos \varphi_0 \cos \varphi_0 \cos (\lambda - \varphi_0)}$ $\cot \varphi_0 \sin \varphi_0 \sin \varphi_0 \cos \varphi_0 \cos \varphi_0 \cos (\lambda - \varphi_0)}$ $\cot \varphi_0 \sin \varphi_0 \sin \varphi_0 \cos \varphi_0 \cos \varphi_0 \cos (\lambda - \varphi_0)}$ $\cot \varphi_0 \sin \varphi_0 \sin \varphi_0 \cos \varphi_0 \cos \varphi_0 \cos (\lambda - \varphi_0)}$ $\cot \varphi_0 \sin \varphi_0 \sin \varphi_0 \cos \varphi_0 \cos \varphi_0 \cos (\lambda - \varphi_0)}$		er film
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A New Method of Calculating Oblique Conformal Projections	\$/154/60/000/004/005-000 3012/3054
where α and k can be determined from the	following formulas:
$\rho = k\mu \sqrt{\frac{1 - \sin \varphi_0 \sin \varphi - \cos \varphi_0}{1 + \sin \varphi_0 \sin \varphi + \cos \varphi_0 \cos \varphi_0}}$	$\frac{\log z \cos(i - i)}{\log z \cos(i - i)} \Big]^{\frac{1}{2}}$
$\delta = \alpha \cdot \arctan \frac{\cos \varphi \sin (\lambda - \lambda_0)}{\cos \varphi_0 \sin \varphi - \sin \varphi_0 \cos \varphi \cos}$	(3a)
$m = \frac{a}{R \mu} \frac{\delta}{\sqrt{[1 - \sin \varphi_0 \sin \varphi - \cos \varphi_0 \cos \varphi_0]}}$	$\frac{1}{12\cos(\lambda-\lambda_0)}$
and for the conical projection of the a	paere:
' ' Card 5/11	

s/154/60 000/004 005 005 A New Method of Calculating Oblique 5012/3054 Conformal Projections $\times \frac{1}{\sqrt{1+\sin\varphi_0\sin\varphi+\cos\varphi_0\cos\varphi\cos(x-x_0)}}$ In these formulas, γ and λ are the latitude and longitude of the proof of the surface of the spheroid or sphere, respectively; q is the isothermal the surface of the spheroid or sphere. respectively, 4 the surface of the spheroid or sphe i.e., q = ln U; c and x are variables given in the table; and $Q = U_0/U + U/U_0$ are functions of the latitude, and are calculated with the aid of the enclosed table; r is the radius of the spheroid parallels R is the radius of the terrestrial globe; x and y are the orthogonal Cartesian coordinates of the projection point; q and 3 are the polar ocordinates of the projection point; I is the general scale of the projection; respective projection point; I is the general scale of the projection; c, α , and k are the constants of the projection. In the second part of the present paper, the author describes an efficient method of palculating Card 6/11

A New Method of Calculating Oblique 'Conformal Projections

8/154/60/000/004/001 B012/B054

oblique conformal projections on the basis of the formulas given. In the method, all simple conformal projections are calculated directly from the formulas indicating the coordinates of the projection points of the scale. Special tables should be used to simplify the calculations, the tables of the products of two tricenometric principal functions fring the cosine); e.g. from the paper (Ref. 7), for spherical promotions; and t enclosed auxiliary table for projections of the spheroil. The author gives the order of calculations for the projections of the spheroid, and of the ψ' sphere, respectively. The enclosed auxiliary table for calculating oblique conformal projections of the ellipsoid of Krasovskiy is presented in the annex. There are 2 tables and 14 Soviet references.

ASSOCIATION:

Novosibirskiy institut indecherov repiezii. Aerofotos"yezki i

kartografii

(Movosibirsk Institute of Engineers of Geodesy, Aerial

Photography and Cartography)

SUBMITTED:

January 16, 1960

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	8	1.149 2972	0.870 0969	. 0.279 2003	2.019 3942	V
	9	1.169 6242	0.851 9755	0.311 6487	2.024 5997	-
	10	1.190 3691	0.840 0755	0.350 2936	2.030 4117	
	11	1.211 5485	0.825 3999	0.386 1586	2,536 5355	
	12	1.233 1797	0.810 9119	0.422 2678	2.614 0915	
	13	1,255 2806	0.790 6346	0.458 6469	2.051 9152	
	14	1.277 8704	0.782 5519	0.495 3185	2.060 4224	
	15	1.300 9693	0.768 6576	0.532 3117	2.669 6269	
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	22	1.478 8471	5 150 dist	0.502 6 47	2 155 6455	
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	24	1.535 6769	0.651 1786	0.884 4983	2.186 5555	
	25	1.565 2498	0.638 8757	0.926 3742	2.204 1255	
	26	1.595 6437	0.626 7063	0.968 9374	2.222 3500	
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	30	1.726 2606	0.579 2868	1.146 9738	2.305 5:74	\mathcal{L}
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	3.,	1.835 0645	0.544 9400	1.290 1240	2.350 0045	
	.3.	1.873 6953	0.533 7047	1.339 9906	2.407 4000	
	3:	1.913 6159	0.522 57aa	1.391 0449	$2.436\ 1868$	
	31.	1.954 8982	0.511 5356	1.443 3027	2.466 4338	
	3	1.997 6201	0.500 5957	1.497 0244	2,498 2158	
	3.1	2.041 8650	0.459 7483	1.552 1167	2.531 6134	
	3!	2.087 7231	0.478 9907	1.608 7324	2.566 7:38	
	4(2.135 2916	0.468 3201	1.666 9715	2.603 6:17	
	41	2.184 6759	0.457 7338	1.726 9421	2.642 4007	
	42	2.235 9898	0.447 2292	1.788 7605	2.683 2130	
	43	2.289 3571	0.436 8039	1.852 5532	2.726 1609	
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	45	2.452 8015	0.416 1809	B012/B054	2.818 9823	
	46	2.463 1846	0.405 9785	2.057 2061	2.869 1631	
	47	2.526 2361	0.395-8458	2.130 3963	2.922 0820	
	48	2.592 1471	0.385 7808	2.206 3:66	2.977 9277	
	49	2.661 1274	0.375 7806	2.285 3468	3.036 9079	
	50	2.733 4075	0.365 8437	2.367 5638	3.099 2512	
	51	2.809 2420	0.355 9679	2.453 2740	3.165 2099	
	52	2.888 9118	0.346 1511	2.542 7607	3.235 0629	
	53	2.972 7286	0.336 3913	2.636 3373	3.309 1199	
	54	3.661 0384	0.326 6865	2.734 3518	3.387 7249	
	55	3.154 2268	0.317 0349	2.837 1919	3.471 2617	
	56	3.252 7249	0.307 4345	2.945,2903	. 3.560 1594	
	57	3.357 0157	0.297 8836	3.059 1321	3.654 8994	
	58	3.467 6431	0.288 3803	3.179 2628	3.756 0234	
	59	3.585 2206	0.278 9229	3.306 2977	3.864 1435	
	60	3.710 4438	0.269 5095	3.440 9343	3.979 9533	
	ől	3.844 1042	0.260 1386	3.583 9656	4.104 2428	
	62	3.987 1062	0.250 8085	3.736 2978	4.237 9147	
	63	4.140 4885	0.241 5174	3.898 9711	4.382 0059	
	64	4.305 4491	0.232 2638	4.073 1853	4.537 7129	
	_65	4.483 3780	0.223 0461	4.260 3319	4.706 4241	
Card 10/11	66	4.675 8969	0.213 8627	4.462 0341	4.889 7596	
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7		8.719 7110	0.114 6827	8.605 0283	8.834 3937	
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8	2	14.205 9840	0.070 39287	14.135 5912	14.276 3769	
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8-	4	18.954 2605	0.052 75859	18.901 5019	19.007 0191	
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8	6	28.445 2592	0.035 15524	28.410 1040	28.480 4145	
8	7	37.933 4829	0.026 36193	37.907 1210	37.959 8448	
88	8	56.907 1565	0.017 57248	56.889 5841	56.924 7290	
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MESHCHERYAKOV, C.A., dotsent, kand.tekhn.nauk

Foundations of a genetic classification of cartographic projections.

[zv. vys. ucheb. zav.; geod. i aerof. no.4:109-118 '61.

[MIRA 15:1)

1. Novosibirskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii.

(Map projection)

MESHCHERYAKOV, G.A., dotsent, kand.tekhn.nauk							
Formulating the problem of the best equal-area projections. Izv. vys. ucheb. zav.; geod. i aeroi. no.5:91-101 '61. (MIRA 15:3)							
1. Novosibirskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii. (Map projection)							
(imp projection)							

\$/035/62/000/010/082/128 AOC1/A101

AUTHOR:

Meshcheryakov, G. A.

TITLE:

On mathematical formalism of modern geodesy

PERIODICAL:

Referativnyy znurnal, Astronomiya i Geodeziya, no. 10. 1962, 10, abstract 10042 ("Tr. Novosib. in-ta inzh. geod., aerofotos"yemki

i kartogr.", 1961, v. 15, 103 - 115)

The author lists divisions of mathematics necessary for various TEXT: branches of geodesy. He recommends to use more extensively Chebyshev's polynomials and nomographic methods in geodesy for numerical and graphical processing methods respectively. Vector and tensor calculi should be used in spheroidal geodesy. Forgotten results of Christoffel are noted, who studied geodetic triangles on arbitrary surfaces (E. B. Christoffel "Abh. Ak. Wiss. Berlin" 1868) and those of Forsyth who analyzed trigonometry of ellipsoid of revolution (A. R. Forsyth. Lectures on the differential geometry of curves and surfaces, Cambridge, 1920). In mathematical cartography, determination of projections with properties prescribed in advance is required, on the basis of variation

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On mathematical formalism of modern geodesy

s/035/62/000/010/082/128

criteria and Chebyshev's criterion. For compiling maps, it is desirable to create a theory of transformations in which coordinates of the points of one plane would be expressed by 2nd degree polynomials on the other plane, and to design corresponding devices. In this connection the article by M. P. Bordyukov (RZhAstr, 1961, 36291) is mentioned. In gravimetry and the theory of the Earth's figure, it is desirable to use ellipsoidal functions (E. W. Hobson. The theory of spherical and ellipsoidal harmonics. Cambridge, 1931, N. K. Migal'. "Nauchn. zap. L'vovsk. politekhn. in-t, seriya geodezichesk", 1949, v. 15, no. 1), and for solution of the inverse problem in the potential theory, non-correct problems of mathematical physics should be solved (Cauchy problem for elliptical equations). Photogrammetry calls for the use of higher geometry, vector and tensor calculi. Processing of measurement results calls for the use of probability theory and mathematical statistics. Matrix and tensor calculi should be employed. The birth of new disciplines is noted: selenodesy (RZhAstr, 1960 no. 8, 7408) and practical lunar astronomy (RZhAstr, 1959, no. 1, 121). There are 68 references.

C. Sheynin

[Abstracter's note: Complete translation] Card 2/2

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S/020/61/136/005/004/032 C111/C222

AUTHOR: Meshcheryakov, G.A.

TITLE: New Extremum Problems

PERIODICAL: Doklady Akademii nauk SSSR, 1961. Vol. 136, No. 5, pp. 1026 - 1029

TEXT: The author considers new extremum problems of the mathematical cartography.

At first the author investigates the following special case. In the region D : $|x| \le A$, $|y| \le \Re$, where $A + 1 - \ell$, $\ell > 0$ is arbitrarily small, let be given the hyperbolic quasilinear system

(1)
$$e^{2\mathbf{v}}(1-\mathbf{x}^2)u_{\mathbf{x}} + v_{\mathbf{y}} = 0$$
, $u_{\mathbf{y}} + e^{2\mathbf{v}}(1-\mathbf{x}^2)v_{\mathbf{x}} = \mathbf{E}e^{2\mathbf{v}}$

Problem & Which initial conditions

(2)
$$u = u(x,0) = \psi(x), \quad v = v(x,0) = \psi(x)$$

must be prescribed in order that the solution v = v(x,y) in a certain neighborhood of the initial curve y = 0 deviates least from zero? With the Card 1/3

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CIA-RDP86-00513R001033

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New Extremum Problems

conditions

(9)
$$u = \varphi(x) \equiv 0$$
, $\forall = \psi(x) \equiv 0$

must be chosen. If (9) is satisfied then in every point P of the neighborhood of y=0, the solution of (1) has the least absolute value among all initial conditions. The result is not only local but also global since it is valid for the whole region of influence of $\{A, +A\}$ for (9). Then the author formulates analogous problems for quasilinear elliptic, hyperbolic or parabolic systems

(I)
$$a_{11}^{u}_{x} + a_{12}^{v}_{x} + b_{11}^{u}_{y} + b_{12}^{v}_{y} + c_{1} + a_{21}^{u}_{x} + a_{22}^{v}_{x} + b_{21}^{u}_{y} + b_{22}^{v}_{y} = c_{2}$$

where a ij bij ci are assumed to be continuous functions of x, y, u, v. Similar problems can be given for equations of second order or still more general equations. A further generalization of the problem is possible by seeking not only additional conditions which must be satisfied by the solution in order that it deviates least from zero, but also by seeking also the curves on which these conditions shall be satisfied. In contrary Card 2/3

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s/020/61/136/005/004/032 C111/C222

New Extremum Problems

to the usual theory of differential equations which is denoted as the theory of the description of physical processes, the investigation of the given new problems is called the theory of the prediction and control of physical processes.

The author mentions P.L. Chebyshev and D.A. Grave. There is 1 figure and 6 Soviet references.

Novosibirskiy institut inzhenerov geodezii. aerofotos yemki 1 ASSOCIATION:

(Novosibirsk Institute of Engineers of Geodesy, Photo-

grammetry and Cartography)

September 26, 1960, by S.L. Sobolev Academician PRESENTEDs

September 24: 1960 SUBMITTED

Card 3/3

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

On the best equivalent projections. Izv. vys. ucheb. zav.;gecd.
i aerof. no.2:115-125 '62.

1. Novosibirskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii.

(Map projection)

L 18223-63 BDS ACCESSION NR: AT3001864

5/2909/62/000/006/0102/0109

AUTHORS: Zagryazkin, N.N.; Meshcheryakov, G.M.

19

TITLE: Multi-electrode spark plug with preparatory ionization of the gas gap

SOURCE: AN SSSR. Institut dvigateley. Trudy, no. 6, 1962, 102-109

TOPIC TAGS: engine, internal combustion, ignition, spark, spark plug, plug, gap, ionization, advance, fuel-air ratio, electrode, testing equipment

ABSTRACT: The paper discusses the theory and describes experimentation with the spark discharge on internal-combustion engines; it investigates the possibility of obtaining a stable energy transfer delivered with each spark discharge in a given spark plug. More specifically, the paper deals with the stabilization of the ionization of the spark-plug gap, the fluctuations of which lead to uneven spark discharges and, ultimately, to an increase in the lowest fuel-air-ratio limit at which engine operation is feasible. The spark plug employed comprised 3 electrodes (E), namely, a main E and a grounded E, spaced so far apart that a normal spark discharge with the given secondary voltage is unlikely, and an auxiliary E placed between the main and the grounded E. A preparatory discharge was brought about between the auxiliary and the grounded E, an intensive ionization was thereby

Card 1/2

L 18223-63 ACCESSION NR: AT3001864

produced in the main spark gap, and the principal discharge between the main and the grounded E took place. Various voltage and gap relationships between the main spark gap and the auxiliary, ionizing, spark gap were tested and are described. Conclusions: 1. The introduction of a supplementary E into the main spark gap permits effective control of the beginning of the main spark discharge. 2. Preparatory ionization permits a discharge in the spark gap at potential gradients (PG) of 2.4 kv/cm, significantly smaller than the corresponding PG of 12.3 kv/cm required for discharge through a nonionized gap. Preparatory ionization, therefore, permits a considerable enlargement of the spark gap without a corresponding increase in discharge voltage, that is, without any appreciable complication of the ignition system. 3. The preparatory discharge affords a satisfactory stabilization of the discharge voltage of the main spark gap. 4. Preliminary experimental data obtained thus far substantiate the hypothesis that preparatory ionization affords an intensification of the energy per unit volume of spark gap. The results of this study are regarded as preliminary. Further investigations in this field are continuing at the Ob"yedinennaya problemnaya laboratoriya Instituta dvigateley AN SSSR (Joint Problem Laboratory, Engine Institute, AS, USSR) and the MADI. Orig. art. has 5 figures and I table. ENCLS ... Apr 63 DATE ACQ: 0.5 003 OTHER: : 38 CE, PA, PA NO REF BOY SUB COME ASSOCIATION

Card 2/

ZACRYAZKIN, N.N.; MESHCHERYAKOV, G.M.

Preionized spark discharge for the ignition of fuel-air mixture. Avt. prom. 29 no.7:19-21 Jl 163. (MIRA 16:8)

1. Moskovskiy avtodorozhnyy institut. (Motor vehicles-Ignition)

5 24111-65

ACCESSION IR: AP5002677

5/0113/64/000/011/0011/0013

13

AUTHOR: Meshcheryskov, G. M.

TITLE: The use of preliminarily ionized spark discharges for the ignition of combustible mixtures in internal combustion engines

SOURCE: Avtomobil'naya promyehlennost', no. 11, 1964, 11-13

TOPIC TAGS: internal combustion engine, ionization, spark ignition/ NAMI 086 air cooled engine, MeMZ 966 four cylinder engine, Sputnik automobile, Extra gasoline, A 7.5U spark plug, T8BNIIAP electrode, DSP 8 oil

ABSTRACT: Experimental results on the use of preliminarily ionized spark discharges in internal combustion engines are reported. The tests were conducted on an air-cooled engine, NAMI-086, designed on the basis of the four-cylinder engine MeMZ-966 and intended for use in the automobile "Sputnik." During the experiment the engine was cooled by an independent ventilator system. The constant temperature was maintained by controlling the ventilators. "Extra" gasoline fuel and "DSF-8" brand lubricating oil were used. The standard ignition spark plug was of the type A7.5U (14 x 1.25 mm), and the electrodes were of the type TSBNIIAP. The experimental system for sparking included a tri-electrode spark plug. The speed of the engine was varied from 1600 to 2500 r.p.m. It was found that the intensification of the Cord 1/2

L 24111-65

ACCESSION NR: AP5002677

Sparking due to the use of pre-ionized charge can increase the indicator economy by allowing the use of weaker mixtures. With poorer mixtures and lower loads, the allowing the use of weaker mixtures. With poorer mixtures and lower loads, the allowing the use of sparking increased. Use of this system in the NAMI-086 engine increased the indicator efficiency by 3% at full load, and by 6-7% at half load. Orig. art. has: 5 figures.

ASSOCIATION: Moskovskiy avtomobil'no-dorozhnyy institut (Moscow Automobile-lighway Institute)

SUBMITTED: 00 ENCL: 00

NO REF SO7: 004

Card 2/2

EVIT(1)/EPF(c)/EPA(w)-2/T/ENA(m)-2 F: -4 IJP(c) L 60330-55 UR/0057/65/035/007/1236/12L1 ACCESSION NR: AP5018302 537.523.4 AUTHOR: Meshcheryakov, G. M. TITLE: Influence of preliminary ionization of the gas on the nature of the energy redistribution in a spark discharge SOURCE: Zhurnal tekhmicheskoy fiziki, v. 35, no. 7, 1965, 1236-1241 TOPIC TAGS: internal combustion engine, ignition, ionization, spark ignition 23,44,51 ABSTRACT: This paper is primarily concerned with the spark ignition of fuel mixtures in internal combustion engines. The author gives a brief theoretical discussion of the thermal efficiency of a spark and concludes that the thermal efficiency can be considerably increased, especially at high pressures, by a preliminary ionization of the gas. The theoretical conclusions are illustrated with previously published experimental data (N.N.Zagryazkin and G.M.Meshcheryakov, Avtemobil'naya promyshlennost', No. 7, 1963; G.M.Meshcheryakov, Ibid. No. 11, 1964; N.N.Zagryazkin and Yu.I.Timoshenko, Tr. inst. dvigateley AN SSSR No. 6, 1952). In these experiments, which included ignition of streams of propane-air mixtures, as well as operation of internal combustion engines, the preliminary ionization was provided by a low energy spark preceding the principal discharge. Card 1/2

It was power that p the pe tude t has: 1	of the spark by a reliminary ionizat rformance of inter o Academician MA. 1 formulas, and 1	inary ionization increase factor 1.7 at atmospher ion of the gas provides mal combustion engines. Leontovich for his intetable.	a practical means "The author express in the work." institut (Moscow A	for improving esses his grati Orig. art.	
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Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 5, p 121 (USSR)

AUTHOR:

Meshcheryakov, G.N.

TITLE:

Effect of Low-Energy Radioactive Radiation on the Surface Properties

of Metals

PERIODICAL:

Nauchn. zap. Odessk. politekhn. in-t, 1957 (1958), Vol 17, pp 235-242

ABSTRACT;

The author made use of 1.17 and 1.38 Mev gamma-radiation with an intensity of 0.02 roentgen 'cm⁻² · min⁻¹ to study the effect of irradiation (I) on the pendulum hardness (H) of a number of metals under loads of 150 - 1,500 g and a 0.15 mm curvature radius of the needle. It was established that the load dependence of H preserves its character but that the H numbers grow by a factor of 1.5 after 30 minutes of exposure if H is measured under a load greater than 1,000 g. If a jet of oxygen is blown on the sample during irradiation, the H numbers are reduced (for Zn the value is only 75 instead of 85). At a depth of 0.4 - 0.5 mm under the irradiated surface H is 30 - 40%

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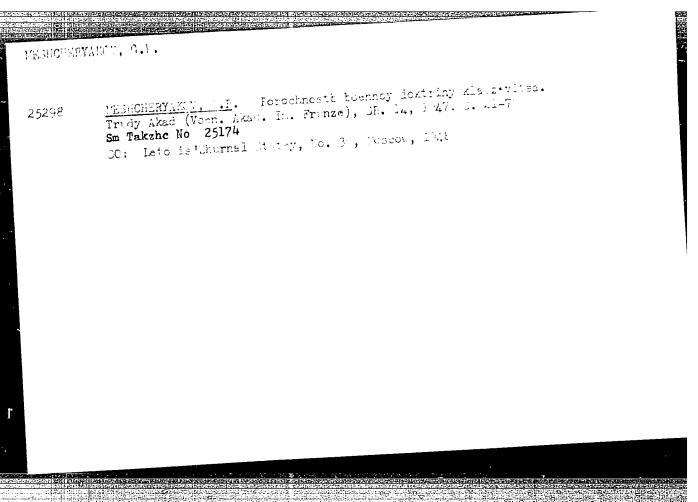
68180 sov/58-59-5-10724

Effect of Low-Energy Radioactive Radiation on the Surface Properties

greater than at the surface. In the case of Pt the hardness increases by 70%. Au does not react to irradiation. The softening effect of surface-active liquids increases as a result of preliminary irradiation. This apparently testifies to the effect of I on adsorption phenomena.

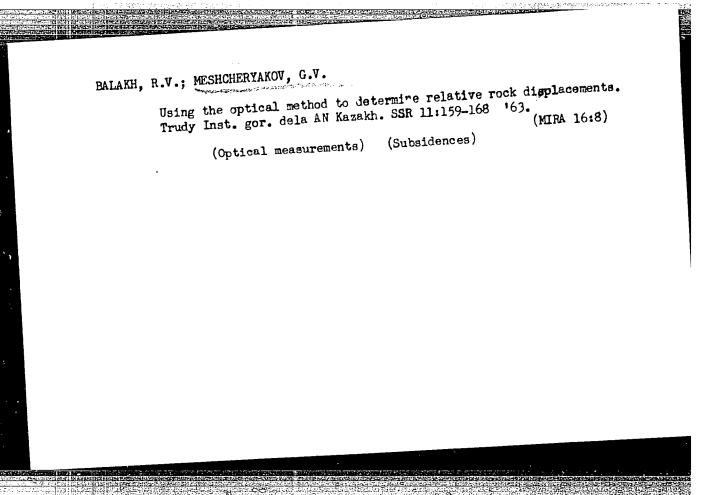
R.I. Garber

Card 2/2



MESHCHERYAKOV, G.V.

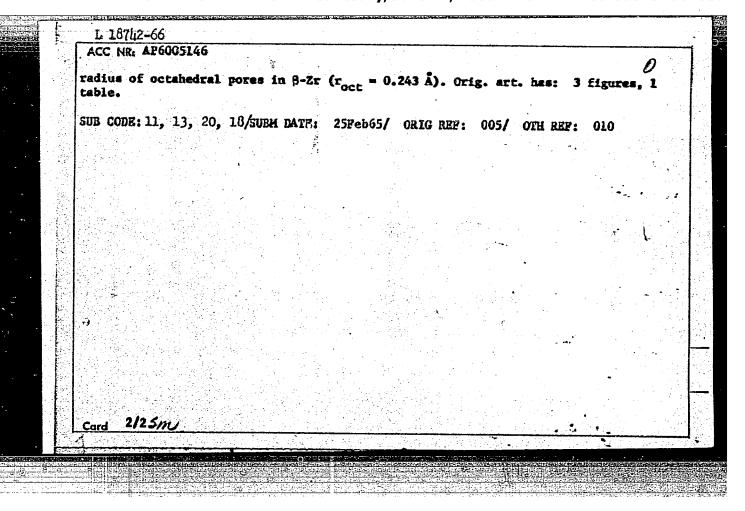
Possibility of using the direct measurements method in studying dislocation processes in the Mirgalimsay Mine. Trudy Inst.gor. (MIRA 15:4) dela AN Kazakh.SSR 8:34-39 161. (MIRA 15:4) (Mirgalimsay region.Rock pressure) (Mine surveying)



BALAKH, R.V.; TARAKANOV, I.G.; MESHCHERYAKOV, G.V.

Advantages of filling cavities on the upper levels of the Mirgalimsay Mine and mining support pillars. Trudy Inst. gor. dela AN Kazakh.SSR 12:3-12 '63. (MIRA 17:8)

EWT(m)/T/EWP(t) ACC NR: AP6005146 SOURCE CODE: UR/0126/66/021/001/0140/0143 AUTHOR: Andrivevskiy, R. A.; Zagryazkin, V. N.; Keshcheryakov, G. Ya. ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) TITLE: Study of the diffusion of carbon in β-zirconium SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 1, 1966, 140-143 TOPIC TAGS: physical diffusion, carbon, zirconium, activation energy, isotope ABSTRACT: An emulsion of radioactive C was deposited on specimens of β -Zr which thereupon were annealed at 1100-1600°C for from 0.5 to 5 hr in a vacuum (10-4-10-5 max Hg), with measurements of temperature by means of Pt-PtRh and W-WRe thermocouples. After annealing the C films were stripped off the specimens and the activity of the specimens was measured by means of a scaling unit with an end-window counter. On this basis the activation entropy Δ S of the diffusion of C in β -Zr is calculated at 4.95 cal/mole-deg. The activation energy Q is found to be linearly dependent on the atomic radius of the element (Q = 34.2 kcal/mole for C), and the \triangle S/Q ratio is found to be constant for the diffusion of various interstitial impurity elements (H, O, N) into one and the same metal; other metals with body-centered cubic lattice, such as a-Fe and Ta also are governed by these laws. It is characteristic that the radius corresponding to "zero" activation energy is ~0.25 Å, which satisfactorily tallies with the UDC: \$48.526 Card 1/2



MESHCHERYAKOV, I. A.

"Polygenetic Planation Surfaces"

report to be submitted for the intl. Geographical Union, 10th General Assembly and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

SOV/136-59-1-8/24

Klassen, V.I., Deater of Technical Sciences, and AUTHORS:

Meshcheryakov, I.F., Engineer.

Flotation of Fine Slimes with Air Coming Out of Solution TITLE:

(Flotatsiya tonkikh shlamov vozdukhom, vydelyayushchimsya

iz rastvora)

PERIODICAL: Tsvetnyye Metally, 1959, Nr 1, pp 27-32 (USSR)

ABSTRACT: The authors note some published views (Refs 1-5) on the

difficulty of flotating mineral crystals less than 10-5 microns in size and on the effectiveness of gas in the process (Refs 8, 9,10). One of the authors (Klassen) has carried cut a theoretical study of the latter aspect

(Refs 5,8) and from this they now deduce that: gas bubbles are formed mainly on mineral particle surfaces, the process becoming more intensive the less hydrated the surface; the higher the supersaturation of water with gas the smaller the initial stable gas-bubble nuclei;

the lower the surface tension at the liquid-gas boundary the smaller the nueled and the more intensive the

They go on to describe

evolution of air particles. They go on to describe Card 1/4 experiments which confirmed these deductions and brought

507/136-59-1-8/24

Flotation of Fine Slimes with Air Coming out of Solution

to light new relations. In the first series of experiments gas separation from various solid-free solutions at various evaquations was studied in a simple apparatus (Fig 1). Fig 2 shows percentage of total originally dissolved gas that comes out of solution as a function of pine oil concentration, mg/litre for different vacua, the interrupted lines showing the corresponding theoretical percentage values. Fig 3 shows the volume of gas liberated, ml per 1 of solution as a function of vacuum, mm Hg, for various pine oil concentrations and also the initial and theoretical values. Bubble sizes were measured photographically and found to be mainly 0.1 - 0.2 mm in diameter. A further series of experiments were carried out with strong aqueous suspensions of barytes (65 - 70% -10 microns): Fig 4 shows the total of originally dissolved gas coming out of solution as a function of sodium-cleats contentration, mg/l, and content of solids. bubble-formation on grains of fluorite, quartz and barytes

Card 2,4 In further experiments einematography was used to study (left, middle and vight, respectively, in Fig 5), the

wetting angles having been determined previously.

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Flotation of Fine Slimes with Air Coming Out of Solution

All the experiments having indicated that the vacuum flotation of slimes should be effective, comparative tests of this and ordinary flotation were made. Samples of -10 micron (Table 1) quartz, fluorite, barytes and barytes ore as well as their mixtures were treated in an apparatus (Fig 6) suitable for both methods. The comparative tests were carried out under optimal conditions with careful reproduction in parallel tests of temperature, pulp density, reagent consumption, contact time, flotation time and quantity of final washing water. In general, concentrates richer by 10-20% and recoveries 10-15% higher were obtained by the vacuum method. Fig 7 shows results for barytes ore, where baryta recovery (curve ε) and its concentration in the product (curve β) are shown as functions of consumption of sodium silicate (g/tonne). The differences between the vacuum and ordinary methods were particularly interesting when tests were continued Card 3/4 for 30 rather than the normal 10 minutes (Table 2).

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Flotation of Fine Slimes with Air Coming Out of Solution

The authors conclude that their results show vacuum flotation to be a flexible and promising method. There are 7 figures, 2 tables and 11 references, 7 of which are Soviet and 4 English.

ASSOCIATION: Institut gornogo dela AN SSSR (Mining Institute, AS USSR)

Card 4/4