USSR / Cultivated Plants. Potatoes, Vegetables, Melons. M-4

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58589

Author : Gladkov, A.
Inst : All-Union Acad. Agricul. Sci. im. Lenin
Title : Dynamics of Growth of Potato Root Systems

Orig Pub : Dokl. VASKhNIL, 1957, No 8, 28-30

Abstract : Observations on the growth of potato roots were conducted in dugouts at the Bashkir agricultural institute. The side walls of these dugouts contained recesses which were made at depths of 15, 25, 35 and 45 cm underneath potato sowings. These seeds were implanted according to the square-nidus method at a depth of 10 cm. The experiments were carried out with Lorkh and Ul'yanovskiy varieties with various agricultural backgrounds ($N_{45}P_{60}K_{90}$ and without fertilization). The root distribution, according to weight, was determined at the time of the fall harvest

Card 1/2

USSR / Cultivated Plants. Potatoes, Vegetables, Melons. M-4

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58589

GLADKOV, A.A.

MATSKIN, L.A.; KOVALENKO, K.I.; BABUKOV, V.G.; KONSTANTINOV, N.N.; PONOMAREV, G.V.; PAL'CHIKOV, G.N.; PELENICHKO, L.G.; SHAMARDIN, V.M.; GLADKOV, A.A.; BRILLIANT, S.G.; SHEVCHUK, V.Ya.; SOSHCHEN-KO, Ye.M.; ALEKSANDROV, A.M.; BUNCHUK, V.A.; KRUPENIK, P.I.; MAYEVSKIY, V.Ya.; YELSHIN, K.V.; GAK, Kh.A.; POTAPOV, G.M.; KARDASH, I.M.; STEPURO, S.I.; KAPLAN, S.A.; SELIVANOV, T.I.; YEREMENKO, N.Ya.; ZHUZH, A.D.; USTINOV, A.A.; GIRKIN, G.M.; VOLOBUYEV, P.P.; CHERNYAK, I.L., nauchnyy red.; DESHALYT, M.G., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Combating losses of petroleum and petroleum products; materials of the All-Union Conference on Means of Combating Losses of Petroleum and Petroleum Products] Bor'ba s poteriami nefti i nefteproduktov; po materialam Vsesoiuznogo soveshchaniia po bor'be s poteriami nefti i nefteproduktov. Leningrad, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 157 p. (MIRA 13:2)

1. Nauchno-tekhnicheskoye obshchestvo neftyanoy i gazovoy promyshlennosti.

(Petroleum industry)

IVANOV, F.M., kand.tekhn.nauk; GLADKOV, A.A., kand.tekhn.nauk; NOVIKOV, Ya.N., inzh.

Waterproofing culverts on railroad lines. Transp. stroi. 10 no.10: 53-54 O '60. (MIRA 13:10)

(Culverts)

TSIGANEK, Vilem [Ciganek, Vilem], inzh.; GOL'DENBERG, G.M., inzh. [translator]; GLADKOV, A.A., kand.tekhn.nauk, nauchnyy red.; SHABALIN, Yu.P., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Waterproofing] Gidroizoliatsiia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 179 p. Translated from the Czech. (MIRA 14:6)

(Waterproofing)

21351
S/040/61/025/006/019/021
D299/D304

10.1000

AUTHORS: Galkin, V.S., and Gladkov, A.A. (Moscow)

TITLE: On the lifting force at hypersonic speeds

PERIODICAL: Prikladnaya matematika i mekhanika, v. 25, no. 6, 1961, 1138 - 1139

TEXT: It is established that the lifting force of many types of bodies (wedges, cones, etc.) is negative at hypersonic speeds for any values of Knudsen's number and for any angle of attack α ($0 < \alpha \leqslant \pi/2$). A very simple case is considered: Free-molecule flow past a wedge with semiangle δ; the flow velocity $V \gg c$, i.e. $S = V/c \gg 1$, where c is the most probable thermal velocity of the oncoming molecules. The lifting force of the wedge is

$$Y \approx \sin 2\alpha \cos 2\delta \text{ for } \delta > \alpha, \quad Y \approx \sin 2(\delta+\alpha) \text{ for } \delta \leqslant \alpha.$$

Then the case $S \ll 1$ is considered. The conclusion is reached that for any S, one can find values of δ, larger than some $\delta = \varphi$, for

Card 1/2

On the lifting force at ...

which the lifting force of an infinite wedge is negative. With $S > 2$, when the base pressure can be neglected, this conclusion is extended to an actual wedge of finite length. An exception to this rule are cylinder- and plate shaped bodies under angle of attack, for which $Y \geq 0$. In the case of hypersonic velocities, the above results are particularly noticeable at large values of the ratio of the temperature T_r of reflected molecules to the temperature T of the undisturbed flow. It can be readily shown that the conclusion arrived at, (i.e. negative lifting force for any α ($0 < \alpha \leq \leq \pi/2$)), is also valid for hypersonic flow of a continuous medium, when the pressure distribution over the body can be calculated by Newton's theory. In this connection, a simple example is considered: nonviscous hypersonic flow past a wedge. One arrives at the formula

$$Y \approx \alpha \sin \delta(2 - 3 \sin^2\delta) \text{ for } \delta > \alpha$$

for the lifting force. Hence it can be shown that $Y < 0$ for $0 < \alpha < \pi/2$, if $\sin \delta \geq \sqrt{2/3}$. The conclusion about the negative lifting force is valid for any type of reflection in free-molecule flow. There is 1 figure.

SUBMITTED: July 11, 1961 Card 2/2

BAZZHIN, A.P., (Moskva); GLADKOV, A.A. (Moskva)

Solution of the inverse problem by the series-expansion method.
Inzh. zhur. 3 no.3:517-518 '63. (MIRA 16:10)

(Series) (Aerodynamics)

ACCESSION NR: AP4022659 S/0207/64/000/001/0116/0117

AUTHOR: Gladkov, A. A. (Moscow)

TITLE: Effect of relaxation entropy layers

SOURCE: Zhurnal priklad. mekhan. i tekhn. fiz., no. 1, 1964, 116-117

TOPIC TAGS: shock wave, entropy layer, relaxation entropy layer, front critical point

ABSTRACT: Conditions in a hypersonic stream of a nonviscous, nonheat-conducting gas flowing around a blunt-nosed object are considered, assuming that relaxation processes occur in the gas directly behind the shock wave. If the characteristic relaxation time $t > \Delta k/u_\infty$, where $k = \rho_1/\rho_\infty$ is the ratio of gas densities (the index ∞ refers to conditions in front of the shock wave, the index 1 - behind) and Δ is the distance from the shock wave to the nose of the body, then a relaxation entropy layer develops in the entropy layer at the body. This layer has an essential influence on the boundary layer and on the process of heat exchange between the gas and the body. At the front critical point the thickness of the layer in which no relaxation takes place is given by $x_p = \Delta[1 - \exp(-tu_1/\Delta)]$. Hence, for large t the

Card 1/3

thickness of the relaxation entropy layer at the critical point is small. Then, considering the shock wave to have the form $y = cx^n$ and using the known equations for the entropy layer, estimates of the conditions in the relaxation entropy layer are found: the pressure differential across the layer,

$$\frac{\Delta p_{-}}{p} \leqslant \frac{\tau^2 \delta_c^{2+\nu}}{\Delta} c^{\frac{1+\nu}{n-1}};$$

the gas density in the layer,

$$\rho_{-} \sim k\rho_{\infty}\tau^{\frac{2}{\gamma}} \exp \frac{\Delta s_p}{c_v};$$

the gas velocity in the layer,

$$u_{-} = \left(u_{\infty}^2 - 2\delta - \frac{2\gamma}{\gamma - 1}\frac{p_{-}}{\rho_{-}}\right)^{1/2};$$

and the relative thickness of the layer,

$$\frac{\Delta y_{-}}{y} \sim \frac{\tau^{\Phi}}{k}\frac{u_{\infty}}{u_{-}}\frac{\delta^{2+\nu}}{\Delta} c^{\frac{1+\nu}{n-1}} \exp\left(-\frac{\Delta s_p}{c_v}\right).$$

In these relations,

ACCESSION NR: AP4022659

$$\tau \sim cx^{n-1}$$

$$k = \frac{\gamma + 1}{\gamma - 1}$$

$$\phi = \frac{n}{1-n}(1+\nu) - \frac{2}{\gamma}.$$

Δs_p is the entropy change as a result of the relaxation processes, e is the energy of the inert degrees of freedom, and the dimensions of the relaxation region are of the order δ_c. Orig. art. has: 26 equations.

ASSOCIATION: none

SUBMITTED: 27Nov62 DATE ACQ: 08Apr64 ENCL: 00

SUB CODE: PH NO REF SOV: 002 OTHER: 000

Card 3/3

GLADKOV, Aleksandr Aleksandrovich, kand. tekhn. nauk; SAMOYLOV, Vladimir Pavlovich, kand.tekhn. nauk; NIKIFOROV, I.A., kand.tekhn. nauk, nauchnyy red.

[Waterproofing]Gidroizoliatsionnye raboty. Moskva, Gosstroiizdat, 1962. 199 p. (MIRA 15:9)
(Waterproofing)

GLADKOV, A.A., professor.

History of the development of otorhinolaryngology in Moldavia.
Vest.oto-rin 17 no.4:61 Jl-Ag '55. (MLRA 8:10)

1. Iz kafedry bolezney ukha, gorla i nosa (zav.-prof. A.A. Gladkov) i iz kafedry organizatsii zdravookhraneniya (zav.--dotsent M.Ia. Gekhtman) Kishinevskogo meditsinskogo instituta.
(OTORHINOLARYNGOLOGY, history,
in Rumania)

GLADKOV, A.A., prof.

"Methods for mild otorhinolaryngological (diagnostic and therapeutic) measures" by V.I. Voiachek. Reviewed by A.A. Gladkov
Vest.oto-rin. 20 no.5:131-133 S-O '58 (MIRA 11:12)
(OTORHINOLARYNGOLOGY)

GLAIKOV, A.A.; FRIK, N., red.; BELOUSOVA, L., tekhn.red.

[Endophotocinematography in otorhinolaryngology] Endofoto-kinematografiia v otorinolaringologii. Kishinev, Gos.izd-vo "Karta Moldovenieske," 1959. 118 p. (MIRA 13:9)
(OTOLARYNGOLOGY) (PHOTOGRAPHY, MEDICAL)

KOLOMIYCHENKO, A.I.. prof., Laureat Leninskoy premii, zasl. deyatel' nauki, red .; LUKOVSKIY, L.A., prof., red.; ZARITSKIY, L.A., prof., zasl. deyatel' nauki, red.; PITENKO, N.F., prof., red.; GLADKOV, A.A., prof., red.; KURILIN, I.A., prof., red.; MOSTOVOY, S.I., doktor med. nauk, red.; BARLYAK, B.A., prof., red.; SHPARENKO, B.A., dots., red.; ROZENGAUZ, D.Ye., dots., red.; KHARSHAK, B.M., dots., red.; CHERNOVA, I.A., kand.med. nauk, red.

[Current problems of clinical and experimental otolaryngology] Aktual'nye voprosy kliniko-eksperimental'noi otolaringologii. Kiev, Zdorov'ia, 1964. 350 p. (MIRA 18:2)

1. Nauchno-issledovatel'skiy institut otolaringologii. 2. Otdel profpatologii Nauchno-issledovatel'skogo instituta otolaringologii (for Pitenko).

GLADKOV, Aleksandr Aleksandrovich, KALINA, V.G., red.

[Diseases of the nose, throat and ear] Bolezni nosa, gorla i ukha. Moskva, Meditsina, 1965. 364 p.
(MIRA 18:3)

GLADKOV, A. D.

Dissertation: The Effect of Various Companion Plants on the Growth of Oak Trees." Cand Agr Sci, Inst of Forestry, Acad Sci USSR, 24 Jun 54. (Vechernyaya Moskva, Moscow, 15 Jun 54)

SO: SUM 318, 23 Dec 1954

GLADKOV, A.I.

Combined resections of the lung in tuberculosis. Probl. tub. 42 no.11:75-76 '64. (MIRA 18:8)

1. Legochno-khirurgicheskaya bol'nitsa (glavnyy vrach G.A.Vyadro) kurorta "Borovoye", Kokchetavskaya oblast'.

GLADKOV, A.M.

Water supply system with equalizing reservoirs. Vod. i san. tekh. no.4:3-5 Ap '58. (MIRA 11:4)
(Water-supply engineering)

GLADKOV, A.M.; YUNTSON, M.A.

Operation of clarifiers with reduced coagulation doses. Vod. i san. tekh. no. 7:31 Jl '58. (MIRA 11:7)
(Water--Purification)

AGRANONIK, Ye.Z., kand.tekhn.nauk; BELOV, A.N., dotsent; GLADKOV, A.M., inzh.; GLUSKIN, S.A., inzh.; IVANOV, L.V., dotsent, kand.tekhn. nauk; LIPKIN, Ye.V., kand.tekhn.nauk; NIKIFOROV, G.N., dotsent, kand.tekhn.nauk; PESENSON, I.B., inzh.; PREGER, Ye.A., dotsent, kand.tekhn.nauk; PYATOV, Ya.N., inzh.; ROKHCHIN, Ye.Z., inzh.; FEDOROV, N.F., prof., doktor tekhn.nauk; SHVARTS, K.B., inzh.; SHIGORIN, G.G., dotsent, kand.tekhn.nauk; SHIFRIN, S.M., prof., doktor tekhn.nauk; POPRUGIN, I.V., inzh., retsenzent; KATS, K.F., inzh., retsenzent; ROTENBERG, A.S., red.izd-va; VORONETSKAYA, L.V., tekhn.red.

[Manual of water-supply engineering and sewerage] Spravochnik po vodosnabzheniiu i kanalizatsii. Pod red. N.F.Fedorova. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 410 p. (MIRA 13:3)

1. Moscow. Gosudarstvennyy proyektnyy institut Vodokanalproyekt. Leningradskoye otdeleniye.
(Water-supply engineering) (Sewerage)

GLADKOV, A.M. (Leningrad)

Standard plans for water-supply pumping stations with a diurnal capacity of 5,000-80,000 m^3. Vod.i san.tekh. no.7:31-32 Jl '59.
(MIRA 12:9)

(Pumping stations)

AGRANONIK, Ye.Z., kand.tekhn.nauk; BELOV, A.N., dotsent; GLADKOV, A.M., inzh.; GLUSKIN, S.A., inzh.; IVANOV, L.V., dotsent, kand.tekhn. nauk; LIPKIN, Ye.V., kand.tekhn.nauk; NIKIFOROV, G.N., dotsent, kand.tekhn.nauk; PESENSON, I.B., inzh.; PREGER, Ye.A., dotsent, kand.tekhn.nauk; PYATOV, Ya.N., inzh.; ROKHCHIN, Ye.Z., inzh.; FEDOROV, N.F., prof., doktor tekhn.nauk; SHVARTS, R.B., inzh.; SHIGORIN, G.G., dotsent, kand.tekhn.nauk; SHIFRIN, S.M., prof., doktor tekhn.nauk; ROTENBERG, A.S., red.izd-va; VORONETSKAYA, L.V., tekhn.red.

[Water-supply and sewerage manual] Spravochnik po vodosnabzheniiu i kanalizatsii. Pod red. N.F.Fedorova. Izd.2., ispr. i dop. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 420 p. (MIRA 13:12)

1. Moscow. Vodokanalproyekt. Leningradskoye otdeleniye. (Water-supply engineering) (Sewerage)

GLADKOV, A.M. (Leningrad)

Water towers in city water-supply systems. Vod. i san. tekh. no.5:5-8 My '60. (MIRA 13:10)
(Water towers)

GLADKOV, A. T., Doc Agr Sci, "Cultivation of potatoes in Bashkiriya (Urals area, Trans-Urals, Southern Urals). Leningrad-Pushkin, 1961. (Min of Agr RSFSR. Leningrad Agr Inst). (KL-DV, 11-61, 224).

GLADKOV, A . V.

Haymaking machinery Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 94 p. (V pomoshch'kolkhoznikam, rabotnikam MTS i sovkhozov) (55-15500)

S695.G55

Category : USSR/Acoustics - Ultrasound J-4

Abs Jour : Ref Zhur Fizika, No 1, 1957, No 2132

Author : Gladkov, A.
Title : Determination of Velocity of Ultrasonic Waves in Solid Bodies, Using the Compound Piezo-Quartz Resonator Method.

Orig Pub : Primeneniye ul'traakustiki k issled. veshchestva. Vyp. 3, M., MOPI, 1956, 199-204

Abstract : Description of a compound piezoelectric quartz resonator with which it is possible, using the zero-beat method, to measure the dependence of the elastic properties of solid bodies on the temperature and on the chemical composition. The natural frequency (f_1) of the quartz oscillator is found first, after which the investigated specimen is attached to the resonator and the natural frequency (f) of the compound resonator is determined. Knowing f_1 and f, one determines the natural frequency of the specimen and the velocity of sound in the investigated substance is determined. The velocities of sound were measured in glass and in sodium metasilicate. The average velocity of sound in sodium metasilicate is 4877.21 m/sec, the temperature coefficient of the velocity of sound is 23.68×10^{-4} $m.sec^{-1}deg^{-1}$. Bibliography, 10 titles.

Card : 1/1

GLADKOV A.V.

112-1-2213

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 329, (USSR)

AUTHOR: Gladkov, A.V.

TITLE: Determination of the Ultrasound Velocity in Glass by the Method of the Compound Piezoquartzitic Rezonator (Opredeleniye skorosti ul'trazvuka v steklakh metodom sostavnogo p'yezokvartsevogo rezonatora)

PERIODICAL: Tr. Mosk. khim.-tekhnol. in-ta, 1956, Nr 21, pp.34-38

ABSTRACT: The methods and results of velocity measurements of ultrasound propagation in sodium-silicate glasses of various compositions at room temperature and temperature of liquid nitrogen are described. The values of the temperature coefficient of sound velocity are determined.

Card 1/2 The nature of the method is the following: the resonant

Determination of the Ultrasound Velocity in Glass (Cont.)

frequencies of the compound rezonator, consisting of a piezoquartzitic core of square cross section of the X-shear and of a sound-transmitting rod made from melted quartz which is pasted at the end of the piezoquartzitic core, are measured by the method of zero beat; a sample core made from the investigated glass is glued at the end of the sound-transmitting rod and resonant frequencies of the 3-unit rezonator are measured; the values of resonant frequencies are utilized for calculating self-resonant frequencies of the sample core and for determining the sound velocity in it.

Card 2/2

L.M.L.

GLADKOV, A.V.

Compressibility of binary glass. Trudy MKHTI no.24:228-232 '57.
(Glass--Testing) (MIRA 11:6)

PA - 2793

AUTHOR: GLADKOV,A.V.

TITLE: Structure of a Glass Forming Frame and Ultrasound Velocity. (Struktura stekloobrazuyushchego karkasa i skorost' ultrazvuka, Russian)

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 4, pp 682 - 687 (U.S.S.R.)
Received: 5 / 1957 Reviewed: 6 / 1957

ABSTRACT: In the present paper the attempt is made to explain the role played by Na_2O in the process of destroying the continuous threedimensional lattice of silica. For this purpose the simple and exact ultrasonic method of the compound vibrator was applied. This method is based on the longitudinal vibrations of a piezoquartz oscillator. More than ten two-component sodium-silicate glass samples of different composition, which were produced in the laboratory from chemically pure substances were used. The principle of measuring the velocity of the propagation of the ultrasonic waves is described. On the occasion of this investigation the process of the "weakening" of the silica lattice was explained. The structure of the ramified glass forming frame gradually loses its ramified character with the increase of the content of the modificator, and it changes into an irregularly twisted anion-chain. This effect leads to an increase of the compressibility. The decrease of the ultrasonic velocity with a reduction of the silica-modulus in sodium-silicate glass unmistakably shows that the depolymerization of sodium-silicate glass ends with

Structure of a Glass Forming Frame and Ultrasound Velocity.

a sodium-monosilicate. In this case the ratio between the number of oxygen atoms to that of silicon atoms is equal to three.

It was found that it is always possible to find a technically valuable composition of silicate glass in which ultrasonic velocity is independent of temperature. It was shown that sodium-silicate glass with the composition $8Na_2O \cdot 92SiO_2$ possesses this property.

(2 tables, 5 illustrations, and 10 citations from Slav publications)

ASSOCAITION: Moscow Chemical-Technological Institute D.I.MENDELJEW of the Order of Lenin.

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress.

Card 2/2

GLADKOV, A. V., Candidate Chem Sci (diss) -- "Investigation of the polymeric structure of inorganic glass based on data concerning compressibility and the rate of ultrasound". Moscow, 1959. 16 pp (Min Higher Educ USSR, Moscow Order of Lenin Chem-Tech Inst im D. I. Mendeleyev), 150 copies (KL, No 23, 1959, 151)

GLADKOV, A.V.

[Study of the polymer structure of inorganic glasses based on the data of compressibility and velocity of ultrasound; author's abstract of his dissertation for the degree of candidate of chemistry] Issledovanie polimernogo stroeniia neorganicheskikh stekol po dannym szhimaemosti i skorosti ul'trazvuka; avtoreferat dissertatsii na soiskanie uchenoi stepeni kandidata khimicheskikh nauk. Nauchn.rukovoditel' V.V.Tarasov. Moskva, M-vo vysshego obrazovaniia SSSR. Mosk.khimiko-tekhnologicheskii in-t im. D.I. Mendeleeva, 1959. 15 p. (MIRA 13:3)
(Glass) (Ultrasonic waves)

APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005

GLADKOV, A.V.

AUTHOR: Syritskaya, Z. M.

S/072/60/000/03/021/023
B003/B008

TITLE: 3rd All-Union Conference on the Vitreous State

PERIODICAL: Steklo i keramika, 1960, Nr 3, pp 43-46 (USSR)

ABSTRACT: The 3rd All-Union Conference on the Vitreous State was held in Leningrad at the end of 1959. It was organized by the Institut khimii silikatov AN SSSR (Institute of the Chemistry of Silicates AS USSR), Vsesoyuznoye khimicheskoye obshchestvo imeni D. I. Mendeleyeva (All-Union Chemical Society imeni D. I. Mendeleyev) and Gosudarstvennyy opticheskiy institut imeni S. I. Vavilova (State Optical Institute imeni S. I. Vavilov). More than 100 reports on the structure of glass, investigation methods of the vitreous state, the mechanism of vitrification and physicochemical and technical properties of glasses were delivered. The Conference was opened by Academician A. A. Lebedev.

At the 7th meeting, 6 reports dealt with glasses as semiconductors, 9 with the coloring of glasses and the influence of radiation and 4 reports with technical properties of glasses. ... V. V. Vargin and T. I. Veynberg, "Coloring of Glasses in Connection With Their Structure". N. I. Vlasova, Ye. I. [illegible], A. A. Kefeli, "Absorption Spectrum of the Co[2+] Ion as Indicator for the Coordination of Boron and Aluminum in Glasses". V. P. [illegible] and N. V. Berbash reported on the change of the spectral absorption of glasses of simple composition under the influence of gamma rays. G. O. Karapetyan reported on the influence of the structure of glasses on spectral and chemical properties of the Cer-ions. N. F. [illegible] reported on the role of the admixtures and the crystalline state of the lattice in the coloring of quartz glass by gamma radiation. L. M. Blyumen and R. L. Shuster reported on the physicochemical nature of pore formation in silicate melts (foam glass, ceramsite). Ye. V. Yermolayeva reported on physico-chemical investigations of melts of refractory oxides in a state of equilibrium. I. F. P[illegible]rev, "The Importance of the Vitreous Phase in the Formation of the Ceramic Body and the Cement Clinker". V. A. Preznov reported on the physico-

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chemical fundamentals of the fusing of glass and metal. The 8th meeting dealt with physical chemistry and mechanical properties of glass. K. S. Yevstrop'yev, G. M. Bartenev and S. K. Dubrovo made comprehensive reports. A. A. Appen reported on the fundamental structural parameters which determine the properties of the glass. A. V. Gladkov, V. A. Patobyl'skaya, V. V. Tarasov reported on research results of the polymeric structure of inorganic glasses. L. I. Demkina reported on peculiarities of the expansion of oxides in silicate glasses. V. G. Slavyanskiy reported on the subject: "The Energy of Covalent Bonds in Glass and Their Role in the Process of the Viscous Flux". Z. M. Syritskaya reported on physico-chemical properties of alumophosphate glasses. Yu. A. Shmidt reported on the dependence of the properties of alkali silicate glasses on the composition. Z. N. Shchaglova reported on: "Investigation of the Dependence of the Optical Properties of Phosphate Glasses on the Composition". A. I. Yakhkind reported on the subject: "The Periodic System and the Optical Constants of Glass". M. S. Aslanova reported on: "Mechanical Properties of Glass Fibers". G. M. Bartenev, A. S. Yaremayeva made a report on the mechanical properties of inorganic glasses in the anomalous interval and on their structure. Ye. I. Kozlovskaya reported on the elastic properties of glasses and on the influence of the composition of the glasses on their mechanical

Card 7/8

properties. A. V. Abramyan reported on the subject: "Leaching of Molten Glasslike Basalts by Aqueous Solutions of Acids and the State of the Oxides in the Structure of Glass Basalts". S. N. Brekhovskikh and V. N. Sazorova reported on synthesis and investigation of hafnium silicate glasses. S. K. Dubrovo reported on physico-chemical properties of gallium silicate glasses. V. A. Dubrovskiy and T. S. Dubrovskaya reported on the surface film forming on calcium-sodium glass in the acidic, neutral and basic medium. The following persons reported at the final meeting: V. F. Kokorina on the influence of the alkaline earth oxides on the chemical stability of glasses in a humid atmosphere; L. Ya. Mazelev on vitrification and properties of borate glasses; B. P. Nikol'skiy, Ye. A. Materova and V. V. Moiseyev on the reaction of electrode glasses with solutions. Doctor Vogel and Roetger spoke as guests from Eastern Germany. Academician N. V. Belov, M. A. Bezborodov, I. I. Kitaygorodskiy, and E. K. Keler also spoke at the final meeting.

Card 8/8

38

IS 2120 IN2, 3109, 3309

AUTHORS: Blokov, A.Y., Israel', V.Y.

TITLE: An investigation of polymer structure of inorganic glasses

PERIODICAL: Referativnyy zhurnal. Fizika, no. 6, 1961, 22Zh, abstract 6Zh76 (V sb. "Stekloobrazn. sist. okislov" Moscow-Leningrad, AN SSSR, 1960, 314 - 318 Discus. 343 - 344)

TEXT: In order to [illegible] discretely that in spite, [illegible] necessary which is provided in silicate glasses by [illegible]. In this way a polymer skeleton of inorganic glasses is [illegible]. To investigate the problem of polymer structure of glass, the authors [illegible] possibility of silicate, borate and phosphate glasses [illegible]. The velocity of [illegible] waves in sodium-silicate glasses [illegible] Na_2O concentration, which is explained by depolymerizing effect [illegible]. The curve of [illegible] velocity in phosphate glasses has a [illegible] in which the [illegible] this corresponds to the [illegible]

Card 1/2

An investigation

Card 2 2

L 42204-66 EWP(e)/EWT(m)/EWP(k) WD/WB

ACC NR: AT6013185 SOURCE CODE: UR/0000/61/000/000/0361/0371

AUTHOR: Gladkov, A. V

40
B+1

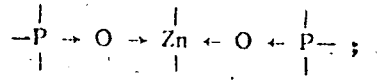
ORG: none

TITLE: Application of ultrasound in the study of the polymer structure of inorganic glasses

SOURCE: Moscow. Oblastnoy pedagogicheskiy institut. Primeneniye ul'traakustiki k issledovaniyu veshchestva, no. 14, 1961, 361-371

TOPIC TAGS: ultrasound, polymer structure, polymer cross linking, ultrasonic degeneration, borate glass, silicate glass, phosphate glass

ABSTRACT: The modifying effect of oxide additives on the flexibility of inorganic oxygen-containing glasses has been studied using an ultrasound resonator described by A. V. Gladkov in an earlier paper (Dissertatsiya, MKhTI, M., 1959). The work was undertaken to clarify the internal structural changes related to the phenomena of depolymerization as well as cross linking of the glass skeleton. It was established that the modifying oxide plays a double part: 1) it may copolymerize with the glass, as observed in (SiO_2-PbO), (B_2O_3-Na_2O), (P_2O_5-ZnO) glasses, and is illustrated by donor-acceptor interaction



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ACC NR: AT6013185

2) it may act as a depolymerizing agent, in which case the glass skeleton loses its branched character and the glass flexibility drops, as observed in (SiO_2-B_2O_3), (SiO_2-Na_2O) glasses. It was also found that the flexibility of sodium silicate glasses increases after annealing, which can be explained by the disruption of the bonds and, consequently, enhancement of the branching in the glass skeleton. Orig. art. has: 3 tables, 4 figures, and 3 formulas.

SUB CODE: 07, 20, 11/ SUBM DATE: 22Apr61/ ORIG REF: 011/ OTH REF: 009

S/058/62/000/002/022/05
A058/A101

15.2120

AUTHOR: Gladkov, A. V.

TITLE: Application of ultrasonic waves to the study of the polymer structure of inorganic glasses

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1962, 44, abstract 2G299 (V sb. "Primeniye ul'traakust. k issled. veshchestva", no. 13, Moscow, 361-371)

TEXT: The effect of addition of modifying oxides on the elasticity of inorganic oxygen glasses was investigated by the ultrasonic method of the composite resonator. The purpose of these measurements was to examine the phenomenon of internal structural changes in glasses, changes associated with depolymerization and with processes of the "cross-linking" of the glass frame under different conditions. It was established that modifying oxides play a double rôle. On the one hand, the modifying oxide may take part in the formation of the glass frame on an equal footing with the vitrifier. For this to happen, the modifying oxide must be capable of copolymerization with the vitrifier. In this process, donor-acceptor bonds play a great rôle. Copolymerization of the modifier is observed

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Application of ultrasonic waves ...

in the following glasses: (SiO_2 - PbO), (B_2O_3 - Na_2O) and (P_2O_5 - ZnO). On the other hand, the modifier may play a depolymerizing rôle with respect to the three-dimensionally branched polymer frame of glass formation. In this case, as the modifier content is increased, the frame of the vitrifier gradually loses its branched character and the elasticity of the glasses decreases. The purely depolymerizing rôle of the modifier is observed in the following glasses: (SiO_2 - B_2O_3), (SiO_2 - Na_2O), etc. It was found that annealing of sodium-silicate glasses is accompanied by an increase of elasticity. This effect is explained by the cross-linking of disturbed bonds and, consequently, by an increase of the branching of the frame of the vitrifier. There are 20 references.

[Abstracter's note: Complete translation]

Card 2/2

S/194/62/000/006/133/232
D256/D308

AUTHOR: Gladkov, A.V.

TITLE: Ultrasonic investigation of polymer structure of inorganic glasses

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-5-49 l (V sb. Primeneniye ul'traakust. k issled. veshchestva, no. 14, M., 1961, 361-371)

TEXT: The effect of an admixture of modifying oxides upon the elasticity of inorganic oxide glass was investigated by means of an ultrasonic method. Conclusions concerning the changes of elasticity were derived from measurements of the velocity of ultrasound. It was necessary to consider the processes of internal structural changes in the glass related to the depolarization as well as to the processes involved in 'joining' the glasses frame in various circumstances. 20 references. [Abstracter's note: Complete translation]

Card 1/1

GLADKOV, A.V.

Polymeric structure of inorganic glass. Trudy MKHTI no.37:58-63 '62. (MIRA 16:12)

GLADKOV, A.V.

Role of the donor-acceptor bond in the formation of borate and phosphate galsses. Zhur.fiz.khim. 37 no.2:272-279 F '63. (MIRA 16:5)

1. Khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva.
(Glass manufacture—Chemistry) (Ultrasonic testing)
(Chemical bonds)

SIL'VESTROVICH, S.I.; FIRSOV, V.M.; GLADKOV, A.V.

Change in the structural and physical state of glass hardened in molten metal. Dokl. AN SSSR 162 no.3:552-555 My '65. (MIRA 18:5)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I.Mendeleyeva. Submitted December 11, 1964.

L 13570-66 EWP(e)/EWT(m)/EWP(b) WH

ACC NR: AR6000267 UR/0081/65/000/014/B076/B076
14B503

22
B1

SOURCE: Ref. zh. Khimiya, Abs. 14B503

AUTHOR: Gladkov, A.V.

TITLE: The effect of the donor-acceptor bond in the formation of boron and phosphate glasses

CITED SOURCE: Sb. Stekloobrazn. sostoyaniye. T. 3. Vyp. 4. Minsk, 1965, 124-129

TOPIC TAGS: glass, borate glass, phosphate glass, glass properties

TRANSLATION: The strengthening of boron glass 15,44 by adding the modifying oxide (Na_2O or PbO) results from the copolymerization of boric anhydride chains, based on donor-acceptor bonds of B and O atoms. In this case, the oxygen of the modifier acts as a bridge between the B atoms in two contiguous anhydride chains. Contrary to this, in phosphate glass the donor-acceptor bond hinders the copolymerization of the chains which comprise the phosphoric anhydride structure, and which in the process of modifying the phosphoric anhydride chain are transformed gradually into metaphosphate chains, which are consequently divided in smaller parts.

Author's summary

SUB CODE: 07, 11
JW

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L 04093-67 EWP(k)/EWT(l)/EWT(m)/T/EWP(e) WH

ACC NR: AR6023280 SOURCE CODE: UR/0058/66/000/003/E009/E010

AUTHOR: Gladkov, A. V.; Tarasov, V. V.; Yunitskiy, G. A.

TITLE: Velocity of ultrasound and compressibility in lead-borosilicate glasses

SOURCE: Ref zh. Fizika, Abs. 3E68

REF SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20, M., 1964, 181-185

TOPIC TAGS: glass property, ultrasonic velocity, silicate glass, borate glass

ABSTRACT: Measurements were made of the velocity of ultrasonic waves by the resonance method at frequency ~136 kcs. The velocity of sound in lead-borosilicate glasses first decreases with increasing content of B_2O_3, i.e., the structure of the lead-borate component becomes stronger and joining together of the silicon-oxygen frame develops, after which the velocity decreases as a result of the transition of the boron atoms from the triple coordination into the quadrupole coordination. The compressibility of borate glasses as a function of the B_2O_3 concentration passes through a minimum, and that of lead-silicate glass increases smoothly with increasing of lead oxide in it. P. Bokin. [Translation of abstract]

SUB CODE: 11

kh

Card 1/1

GLADKOV, A. Z.

PHASE X TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 745 - X

Call No.: AF333606

BOOK
Author: GLADKOV, A. Z., Engineer
Full Title: PRODUCTION OF ELECTRICAL INSULATING VARNISHES
Transliterated Title: Proizvodstvo elektroizolyatsionnykh lakov
PUBLISHING DATA
Originating Agency: None
Publishing House: State Power Engineering Publishing House ("Gosenergoizdat")
Date: 1951 No. pp.: 171 No. of copies: 4,000
Editorial Staff: Shishkin, S. V., Editor
PURPOSE AND EVALUATION: This monograph is intended for technicians and foremen working in industries which produce or use electrical insulation varnishes. The book is based on the work of Soviet scientists and may be interesting to American chemists and electrical engineers because special attention is given to descriptions of electrical insulation varnishes widely used in the Soviet Union and produced by the plants of the Ministries of the Electrical and Chemical Industries, USSR. All-Union Standards (GOST and OST) are frequently cited with specifications, as well as various trademarks. The book is clearly written and well illustrated.
TEXT DATA
Coverage: According to the author, this is the first Soviet

monograph dealing with all problems related to the production of electrical insulation varnishes. Soviet experience in this manufacture and use was represented only by articles in periodicals, by catalogs, or by some data in manuals on electrical materials in general. This is an attempt to gather as completely as possible, all information on the manufacturing of electrical insulation varnishes. Their processing is characterized by special features and differs from the production of other kinds of varnishes. The author gives a classification of electrical insulation varnishes and explains their purpose and methods of use. Raw materials, equipment, industrial flow sheets, the control of production and the questions of industrial safety are discussed. The book is provided with many illustrations, tables and diagrams.

Table of Contents

No. of References: 25 (All Russian, 1938-1950)
Facilities: Prof. K. A. Andrianov, Laureate of Stalin Prize, and other scientists are mentioned in the text. Plants of the Ministries of Electrical and Chemical Industries, USSR.

GLAUZ[illegible], elin. nauk

[illegible]truction in rural areas. Zhil. stroi. no.7:3-6 '65.
(MIRA 18:8)

ANNAGIYEV, A.A., kand. veter. nauk; VINOGRADOV, V.Ya., [illegible] sotrudnik; GLADKOV, B.A., aspirant

Problems of listeriosis. Veterinariia 41 no.1:42-43 Ja '64.
(MIRA 17:3)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy veterinarnyy institut (for Annagiyev). 2. TSelinogradskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Vinogradov). 3. Voronezhskiy sel'skokhozyaystvennyy institut (for Gladkov).

GLADKOV, B.

35312. Chudo-Stanki. (Agregatnye Stanki Po Obrabotke Detaley). Ill. M. Simakov. Znanie-Sila, 1949, No 10, S. 27-28

SO: Letopis'Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

GLADKOV, Boris Aleksandrovich; NOSKIN, P.A., red.; SUKHARINA, R.A., tekhn. red.

[Modernization of lathes] Modernizatsiia tokarnykh stankov. Moskva, Mosk. dom nauchno-tekhn. propagandy im. F.E. Dzerzhinskogo, 1957. 29 p. (Peredovoi opyt proizvodstva. Ser. "Mashinostroenie," no.11). (MIRA 11:10)
(Lathes)

GLADKOV, B.A.; KASATKIN, A.G.; KUDINOV, V.A.; PROKOPOVICH, A.Ye., red.; SHEMSHURINA, Ye.A., red.izd-va; EL'KIND, V.D., tekhn.red.

[Modernization of single-spindle multicutter lathes; instructions] Modernizatsiia odnoshpindel'nykh tokarnykh mnogoreztsovykh stenkov; rukovodiashchie materialy. Pod red. A.E.Prokopovicha. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 118 p. (MIRA 11:2)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.
(Lathes)

GLADKOV, Boris Vladimirovich. KARLSEN, G.G., professor, doktor tekhnicheskikh nauk, redaktor; NIKOLAYEV, Yu.V., kandidat tekhnicheskikh nauk, nauchnyy redaktor; KOTIK, B.A., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Prefabricated wooden houses; methods of general research] Derevianyi zhiloi dom zavodskogo izgotovleniia; metod kompleksnogo issledovaniia. Pod red. G.G.Karlsena. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. 243 p. (MLRA 10:8)
(Buildings, Prefabricated)

.25 (1,7) PHASE I BOOK EXPLOITATION SOV/1688

Gladkov, B. A., V.N. Alekseyev, A.N. Totskiy, V.A. Kudinov, and G.M. Azarevich

Modernizatsiya universal'nykh sverlil'nykh stankov; rukovodyashchiye materialy (Modernization of Universal Drilling Machines; Instructions) Moscow, Mashgiz, 1958. 214 p. 5,000 copies printed.

Sponsoring Agency: Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

Ed.: A.Ye. Prokopovich; Ed.of Publishing House: N.A. Ivanova; Tech. Eds.: Ye.S. Gerasimova, and A.F. Uvarova; Managing Ed. for Literature on Metal Working and Tool Making: R.D. Beyzel'man, Engineer.

PURPOSE: This book is intended for mechanics and designers engaged in modernizing machine tools.

COVERAGE: A brief description is given of modern universal drilling machines and machines of obsolete design which predominate in the operating stock. Their utilization is analyzed and on the basis of the analysis, the basic requirements for modernizing this type of machine tools are developed. Recommendations and concrete design solutions concerning increase of speed, feed power,

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rigidity, vibration-stability, and life of drilling machines in the operating stock are presented. Special attention is given to problems of reducing auxiliary time. Equipping universal drilling machines with various attachments and auxiliary devices in order to widen their applicability is also described. No personalities are mentioned. There are 42 references of which 38 are Soviet, 3 English, and 1 German.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress (TJ1260.M65)

GO/hcr
6-17-59

25 (1,7) PHASE I BOOK EXPLOITATION SOV/1687

Gladkov, B. A., L.N. Grachev, P.M. Shpigel'shteyn, V.A. Kudinov, A.S. Lapidus, G.M. Azarevich, Yu. A. Leshchenko

Modernizatsiya tokarnykh stankov; rukovodyashchiye materialy (Modernization of Lathes; Instructions) Moscow, Mashgiz, 1958. 286 p. 6,800 copies printed.

Sponsoring Agency: Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

Ed.: A.Ye. Prokopovich; Ed. of Publishing House: N.A. Ivanova; Tech. Ed.: Ye. N. Matveyeva; Managing Ed. for Literature on Metal Working and Tool Making: R.D. Beyzel'man, Engineer.

PURPOSE: This book is intended for manufacturing personnel dealing with the operation of machine tools, and for designers in plant machine-shops, and engineer-technologists.

Card 1/5

Modernization of Lathes; Instructions SOV/1687

COVERAGE: The book presents an analysis of the existing operating stock of lathes and establishes basic trends in modernization. It includes examples of designing and design solutions related to modernization of the main drive and feed drive, classification and description of various attachments for reducing auxiliary time and easing the work of an operator, description of various devices for widening the range applicability of machine tools, examples of modernizing the basic tool types of the engine-lathe group, and discusses problems concerning improvement of vibration-stability and reliability in the operation of machine tools and how to prolong their life. No personalities are mentioned. There are 35 references, all Soviet.

TABLE OF CONTENTS:

Modernization of Lathes; Instructions SOV/1687

AVAILABLE: Library of Congress (TJ1218.M657)

Card 5/5

GO/jmr
6-8-59

PHASE I BOOK EXPLOITATION 1136

Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov

Modernizatsiya tokarno-karusel'nykh stankov (Modernization of Vertical Turning Lathes) Moscow, Mashgiz, 1958. 265 p. 6,000 copies printed.

Authors: Gladkov, B.A., Grachev, L.N., Levit, G.A., Lapidus, A.S., Leshchenko, Yu.A., and Kudinov, V.A.; Ed.: Prokopovich, A.Ye.; Ed. of Publishing House: Ivanova, I.A.; Tech. Ed.: Tikhanov, A.Ya.; Managing Ed. for Literature on Metal Working and Tool Making (Mashgiz): Beyzel'man, R.D., Engineer.

PURPOSE: This book is intended for production personnel employing machine tool equipment, for designers of engineering departments, engineers and technicians.

COVERAGE: Vertical turning lathes in an actual operation are reviewed and basic trends and methods of modernizing them are discussed. Design examples and solutions of various design problems in

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modernizing the main drive, feed drives, table rests, and spindles are presented, and various devices for reducing the auxiliary operation time and increasing the versatility of operations are described. The problems of vibration stability of machines and safety measures are also discussed. No personalities are mentioned. There are 69 references, 66 of which are Soviet and 3 English.

TABLE OF CONTENTS:

GO/nah
2-20-59

Card 6/6

GLADKOV, B.A.; GRACHEV, L.N.; SHPIGEL'SHTEYN, P.M.; KUDINOV, V.A.; LAPIDUS, A.S.; AZAREVICH, G.M.; LESHCHENKO, Yu.A.; PROKOPOVICH, A.Ye.; IVANOVA, N.A., red. izd-va; MATVEYEVA, Ye.N., tekhn. red.

[Modernization of latnes; instructions] Modernizatsiia tokarnykh stankov; rukovodiashchie materialy. Pod red. A.E. Prokopovicha. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 286 p. (MIRA 11:7)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.
(Lathes)

S/121/61/000/008/001/006
D041/D113

AUTHORS: Gladkov, B.A.; Mayorova, E.A.; Shilkin, O.D.; Shiferson, M.M.

TITLE: The use of plastics for manufacturing large-size components of machine-tools

PERIODICAL: Stanki i instrument, no. 8, 1961, 1-4

TEXT: The article describes experimental investigations carried out with plastics in order to determine the extent to which they may be used for manufacturing large-size components of metal cutting machine-tools. These components can be manufactured by casting or by contact molding, the latter producing better mechanical properties in the components. The hardness of large-size components manufactured by the casting method can be raised by improving the properties of the binding and fiber fillers. As glass fibers in the form of cloth etc. can be used as fillers, the use of glass plastics for making lathe components was considered. Since there was practically no data on the stability of glass plastics, their swelling-up and creep characteristics were investigated in detail. The swelling-up of the specimens was tested in water-cooling liquids and mineral oil at a high relative hu-

The use of plastics...

midity (95±5%) and temperature (50±5°C). The creep characteristics were investigated by loading the specimens so as to produce bending, i.e. by applying a concentrated force to the center of the specimen which was placed on two supports. Plastic specimens obtained by contact molding from ПН-1 (PN-1) polyester gum and Т (T) glass cloth, and by hot pressing from КАСТВ (KAST V) glass textolite, АГ-4С (AG-4S) glass plastics and RA glass textolite (CSR brand), were tested. The creep of plastics made of epoxy resin and a metal filler by mold casting, was also investigated. The specimens were covered either by a protective layer or by "924" nitro-enamel. They were weighed on an analytical balance with an accuracy of up to 0.0004 g. The following results were obtained: KAST V glass textolite showed the largest change in weight (1.26%), the saturation point being reached after 19 days; glass plastics made of PN-1 polyester gum showed a weight increase of 0.6% and did not attain the saturation point after 83 days; AG-4S glass plastics had the least change in weight (0.19% after 83 days), and RA glass textolite attained a maximum water absorption (0.77%) after 6 days. Tests in the humidity chamber showed that KAST V glass textolite had the largest humidity absorption, while AG-4S and glass plastics obtained by contact

The use of plastics...

molding showed the lowest hygroscopicity. The nitro-enamel layer did not protect the specimens from humidity and the oil cooling liquids. Linear changes in the plastics depended on the medium in which they were placed, on the method of their manufacture, on their machining, and on the type and quantity of the binding agent. Cooling liquids and a high relative air humidity reduced the mechanical properties by 1.5-2 times. Creep tests were carried out at room temperatures using the ПК-2 (PK-2) device designed by ENIMS. This device permitted deformations during bending at constant load to be measured. KAST V glass textolite served as a reference specimen. The results show that AG-4S and RA have the lowest creep, while cast specimens of epoxy resins with a metal filler have the highest (15-20 times higher than the reference specimen's creep at a bending stress of 100-200 kG/cm^2), and cannot be used for making high-duty components of metal-cutting machine-tools. It is concluded that glass plastics can be used only for large-size machine-tool components. ENIMS and NIIP have manufactured a series of large-size components for the 1К62 (1K62) screw-cutting lathe in order to validate the obtained results. The zavod "Stankokonstruktsiya" ("Stanko-konstruktsiya" Plant) has manufactured the following parts for the 1K62

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D041/D113

The use of plastics...

lathe from glass plastics: front and rear legs, rear leg inserts, tray, gearbox and feeding box covers, and housings. Test runs gave good results. There are 4 figures.

Card 4/4

GLADKOV, B.A.; MAYOROVA, E.A.; SHILKIN, O.D.; SHIFERSON, M.M.

Using plastics in manufacturing large machine-tool parts.
Stan.i instr. 32 no.8:1-4 Ag '61. (MIRA 14:8)
(Machine-tool industry) (Plastics)

AYZENSHTADT, L.A.; PEN'KOV, P.M.; GLADKOV, B.A.; LIKHT, L.O.; KRIMMER, T.Ye.; KASHEPAV, M.Ya., kand. tekhn. nauk; MERPERT, M.P., kand. tekhn. nauk; KOPERBAKH, B.L.; CHERNIKOV, S.S., kand. tekhn.nauk; BELOV, V.S.; ZHURIN, B.F.; MONAKHOV, G.A., kand.tekhn.nauk; MOROZOV, I.I.; MUSHTAYEV, A.F.; OGNEV, N.N.; PALEY, M.B., kand. tekhn. nauk; FURMAN, D.B.; LIVSHITS, A.L., kand.tekhn.nauk;MECHETNER, B.Kh.;SOSENKO,A.B;AVDULOV, A.N.; LEVIN, A.A., kand.tekhn. nauk; YAKOBSON, M.O., doktor tekhn.nauk; MAYOROVA, E.A., kand.tekhn.nauk; MOROZOVA, Ye.M.; ZUSMAN, V.G., kand.tekhn. nauk; NAYDIS, V.A., kand.tekhn.nauk; VLADZIYEVSKIY, A.P., prof., doktor tekhn. nauk, red.; BELOGUR-YASNOVSKAYA, K.I., red.; CHIGAREVA, E.I., red.; ASVAL'DOV, M.Ya., red.; KOGAN, F.L., tekhn. red.

[Machine-tool industry in capitalist countries] Stankostroenie v kapitalisticheskikh stranakh. Pod red. i s predisl. A.P.Vladzievskogo. Moskva, 1962. 822 p. (MIRA 15:7)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii mashinostroyeniya. 2. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov (for Vladziyevskiy, Belogur-Yasnovskaya, Chigareva, Asval'dov, Kogan).

(Machine-tool industry)

GLADKOV, B.A.; YUKHVID, M.Ye.; LARIONOVA, V.M.

Effect of structural components of a lathe and cutting conditions on the precision of shape and roughness of machined surface in fine turning. Stan.i instr. 34 no.4:7-11 Ap '63. (MIRA 16:3)
(Lathes) (Turning)

GLADKOV, B.A.; ETIN, A.O.; SHUMYATSKIY, B.L.

Determining the parameters of lathes. Stan. i instr. 35
no.3:27-33 Mr'64. (MIRA 17:5)

GLADKOV, B.A., aspirant

Pathomorphology of influenza in ducklings. Veterinariia 41 no.4:41-43 Ap '65. (MIRA 18:6)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

GLADKOV B N

MURASHEV, V.A., prof., doktor tekhn.nauk; MIRONOV, S.A., prof., doktor tekhn.nauk; ALEKSANDROVSKIY, S.V., kand.tekhn.nauk; TAL', K.Z., kand.tekhn.nauk; DMITRIYEV, S.A., kand.tekhn.nauk; MULIN, N.M., kand.tekhn.nauk; SIGALOV, E.Ye., kand.tekhn.nauk; NEMIROVSKIY, Ya.M., kand.tekhn.nauk; TABENKIN, N.L., inzh. [deceased]; KALATUROV, B.A., kand.tekhn.nauk; BRAUDE, Z.I., inzh.; KRYLOV, S.M., kand.tekhn.nauk; FOKIN, K.F., doktor tekhn.nauk; GUSEV, N.M., prof., doktor tekhn.nauk; YAKOVLEV, A.I., inzh.; KORENEV, B.G., prof., doktor tekhn.nauk; DERESHKEVICH, Yu.V., inzh.; MOSKVIN, V.M.; LUR'YE, L.L., inzh.; MAKARICHEV, V.V., kand.tekhn.nauk; SHEVCHENKO, V.A., inzh.; VASIL'YEV, B.F., inzh.; KOSTYUKOVSKIY, [illegible] M.G., kand.tekhn.nauk; [illegible], I.L., inzh.; [illegible], inzh.; LARIKOV, A.F., inzh.; STULOV, T.T., inzh.; TRUSOV, L.P., inzh.; LYUDKOVSKIY, I.G., kand.tekhn.nauk; POPOV, A.N., kand.tekhn. nauk; VINOGRADOV, N.M., inzh.; USHAKOV, N.A., kand.tekhn.nauk; SVERDLOV, P.M., inzh.; TER-OVANESOV, G.S., inzh.; GLADKOV, B.N., kand.tekhn.nauk; KOSTOCHKINA, G.V., arkh.; KUREK, N.M.; OSTROVSKIY, M.V., kand.tekhn.nauk; PEREL'SHTEYN, Z.M., inzh.; BUKSHTEYN, D.I., inzh.;

(Continued on next card)

MURASHEV, V.A.---(continued) Card 2.
MIKHAYLOV, V.G., kand.tekhn.nauk; SIGALOV, E.Ye., kand.tekhn.nauk; GVOZDEV, A.A., prof., retsenzent; MIKHAYLOV, V.V., prof., retsenzent; PASTERNAK, P.L., prof., retsenzent; SHUBIN, K.A., inzh., retsenzent; TEMKIN, L.Ye., inzh., nauchnyy red.; KOTIK, B.A., red. izd-va; GORYACHEVA, T.V., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.

[Handbook for designers] Spravochnik proektirovshchika. Pod obshchei red. V.I.Murasheva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Vol.5. [Precast reinforced concrete construction elements] Sbornye zhelezobetonnye konstruktsii. 1959. 603 p. (MIRA 12:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut betona i zhelezobetona, Perovo. 2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Murashev, Gvozdev, Mikhaylov,V.V., Pasternak, Shubin). 3. Chlen-korresp. Akademii stroitel'stva i arkhitektury SSSR (for Mironov, Gusev, Moskvin, Kurek).

(Precast concrete construction).

[redacted], kand.tekhn.nauk; SEMENOV, B.N., kand.tekhn.nauk

Standardization of large-panel wall elements of heated industrial buildings. Prom. zdan. no.1:36-51 '59. (MIRA 13:8)
(Factories--Design and construction) (Walls)

S/052/61/006/004/004/005
C111/C222

AUTHORS: Bol'shev, L.N., Gladkov, B.V., Shcheglova, M.V.

TITLE: Tables for calculation of B and Z-distribution functions

PERIODICAL: Teoriya veroyatnostey i yeye primeneniye, v. 6, no. 4, 1961, 446 - 455

TEXT: Tables I and II for the determination of the B and Z - distribution functions $I_x(p,q)$ and $F_{2p,2q}(z)$ are given on four pages. The tables complement the tables given by K. Pearson (Ref. 3 : Tables of the Incomplete Beta-function, Biometric Laboratory, London, 1934). The figure

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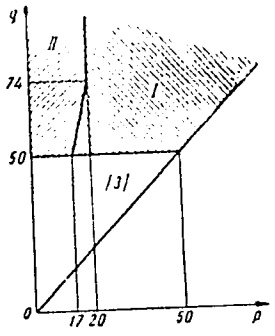
Tables for calculation of B ...



shows the regions of the (p,q) - plane in which tables I,II and those of (Ref. 3), respectively, are to be used. Table I gives the values of $10^5 \varphi_1(u,v)$ and $10^5 \varphi_2(u,v)$, where φ_1 and φ_2 are the correction terms

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Tables for calculation of B

in the formula

$$I_x(p,q) = F_{2p,2q}(z) = \phi(u) + \varphi_1(u,v) + w^2\varphi_2(u,v) + O\left(\sqrt{v^8 + w^8}\right) \qquad (1)$$

of J. Wishart. An approximate formula for the cumulative z-distribution. Ann. Math. Statistics, 28, 2 (1957), 504-510). Table II gives the values of $\gamma(y,p)$ in the formula

$$I_x(p,q) = F_{2p,2q}(z) = I(y,p) + \frac{1}{6(2q+p-1)}\gamma(y,p) + O(q^{-4}) \qquad (6)$$

of L.N. Bol'shev (ref. 10 : Ob otsenkakh veroyatnostey (On estimates of probabilities). Teoriya veroyat. i yeye primen., V. 4 (1960), 453-457).

The error resulting from using the tables is not larger than $5 \cdot 10^{-5}$. The possibility of using the tables to calculate the binomial distribution is mentioned.

Mentioned : A.N. Kolmogorov, Academician.

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Tables for calculation of B . . S/052/61/006/004/004/005
C111/C222

There are 2 tables, 1 figure, 5 Soviet-bloc and 6 non-Soviet bloc references. The references to English language publications read as follows: K. Pearson, Tables of the Incomplete Beta function, Biometrika Laboratory, London, 1934 ; Tables of the Binomial Probability Distribution, National Bureau of Standards, Applied Mathematics Series, 6, Washington, 1950 ; H.G. Romig, 50-100 Binomial Tables, New York, John Wiley & Sons, Inc., London, Chapman & Hall, Limited, 1953 ; J. Wishart, An approximate formula for the cumulative z-distribution, Ann. Math Statistics, 28, 2 (1957), 504-510.

SUBMITTED: June 28, 1960

Card 4/4

GEL'BERG, L.A.; FEDOROV, G.I.; ZAL'TSMAN, A.A.; KAPUSTYAN, Ye.D.; BAYAR, O.G.; DELLE, V.I.; SHEKENTSIS, A.A.; MAKLAKOVA, T.G.; [illegible], Yu.B.; KOLOTILKIN, [illegible]; GLADKOV, B.V.; GAVRILOV, O.V., red.; GOLOVKINA, A.A., tekhn. red.

[Housing construction in the U.S.S.R.; present state and prospects for development] Zhilishchnoe stroitel'stvo v SSSR; sostoianie i perspektivy razvitiia. Moskva, Gosstroiizdat, 1962. 202 p. (MIRA 15:11)
(Apartment houses) (Construction industry)

BOL'SHEV, L.N.; GLADKOV, B.V.; SHCHEGLOVA, M.V. (Moscow)

Tables for calculating P ... ibution functions. Teor. veroiat. i ee prim. 6 ... 446 455 ... (MIRA 14:11)
(Probabilities- ... es. etc.)

Transactions of the 6th Conf. on Probability Theory and Mathematical Statistics and of the Symposium on Distributions in Infinite-Dimensional Spaces held in Vil'nyus, 5-10 Sep '60. Vil'nyus Gospolitizdat Lit SSR, 1962. 493 p. 2500 copies printed

L 7013-66

ACC NR: AP5026796 SOURCE CODE: UR/0286/65/000/017/0077/0077

AUTHOR: Gladkov, B. V.

ORG: none

TITLE: A piezoelectric transducer. Class 42, No. 174392

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 77

TOPIC TAGS: piezoelectric transducer, pressure transducer

ABSTRACT: This Author's Certificate introduces a piezoelectric transducer made in the form of a hollow cylinder mounted on a cylindrical support rod with one end rigidly fastened to a fixed base. The frequency response is made more uniform by connecting the support rod to the walls of the internal cavity along its entire length, while the free end of the rod is connected to the source of mechanical oscillations which excites the transducer. Dampers in the form of cylindrical sleeves are mounted on the transducer.

UDC: 681.84.081.47

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L 7013-66
ACC NR: AP5026796

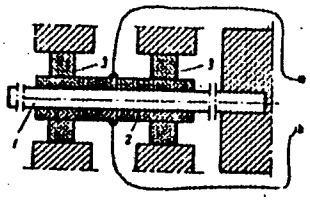

Fig. 1. 1--support rod; 2--transducer; 3--dampers

SUB CODE: EC,EM/ SUBM DATE: 28Jul64/ ORIG REF: 000/ OTH REF: 000

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GRADSKY D

21(0); 1(0); 2(10) PHASE I BOOK EXPLOITATION SOV/2210

Atomnaya energiya v aviatsii i raketnoy tekhnike; sbornik statey (Atomic Energy in Aviation and Rocket Engineering; Collection of Articles) Moscow, Voyen. Izd-vo M-va obor. SSSR, 1959. 500 p. (Series: Nauchno-populyarnaya biblioteka) No. of copies printed not given.

Ed. - Compiler: P.T. Astashenkov, Engineer, Lt.-Col; Ed.: Ya.M. Kader; Tech. Ed.: A.M. Gavrilova.

PURPOSE: This book is intended for officers of the Soviet Armed Forces, members of DOSAAF, and the general reader interested in the uses of atomic engergy and in the development of aviation and rocket engineering.

COVERAGE: This collection of 46 articles, compiled by 28 Soviet scientists and based chiefly on non-Soviet materials, discusses various aspects of the use of atomic engergy in rocketry and aviation. The book surveys the development of atomic and thermonuclear

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weapons and weapon carriers, lays down the principles of anti-atomic defense, and evaluates the application of nuclear engergy in aviation and rocketry. Fuel and construction materials, as well as actual physical and technological processes involved, are treated briefly. Fundamentals of atomic warfare and combat tactics are discussed at some length. The book is divided into four parts, of which the last consists chiefly of anti-Western propaganda. Section I is devoted to nuclear weapons and their use in aviation. Section II is on anti-atomic defense, especially the defense and decontamination of airfields and aircraft, and defense against radiation. Section III is on the use of nuclear energy in modern aricraft and rocket technology and flight techniques, including some speculations on space travel and on the energy of the future. There are 126 figures and 35 non-Soviet references (some in Russian Translation).

TABLE OF CONTENTS:

APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005

AUTHOR: Gladkov, L., Master of the School SOV/27-5[illegible]-1-26/31

TITLE: With the Mechanizers of Stavropol' (U mekhanizatorov Stavropol'ya)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 1, p 1[illegible] (USSR)

ABSTRACT: The author outlines the range and activities of the Blagodarnenskoye uchilishche mekhanizatsii sel'skogo khozyaystva (Blagodarnoye Agricultural Mechanization School) in the Stavropol' area. Up to now, the school has been attended by 1[illegible] 000 students trained as combine mechanics, all-round tractor mechanics, drivers and various other agricultural professions. The school is equipped with 1? various-type tractors. There is one photo.

ASSOCIATION: Blagodarnenskoye uchilishche mekhanizatsii sel'skogo khozyaystva (Blagodarnoye Agricultural Mechanization School)

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