

ACCESSION NR: AT4013964

cycle range. A network of fine fissures appeared on the surface of all specimens coated with fusible materials which produced lowered strength and ductility. No fissures formed on uncoated specimens even after 1000 cycles. Orig. art. has: 2 tables, 2 graphs, 1 illustration.

ASSOCIATION: Institut metallurgii AN SSSR (Institute of Metallurgy)

SUBMITTED: 00

DATE ACQ: 27Feb64

ENCL: 02

SUB CODE: ML

NO REF SOV: 015

OTHER: 001

Card 2/4

ACCESSION NR: AP4005833

S/0129/63/000/012/0043/0044

AUTHOR: Savchenko, H. V.; Novokreshchenova, P. D.

TITLE: Effect of low-melting metal coatings on metal thermal fatigue

SOURCE: Metalloved. i termich. obrab. metallov, no. 12, 1963, 43-44

TOPIC TAGS: thermal fatigue, metal, alloy, steel, metal coating, alloy coating, coating

ABSTRACT: The authors studied the effect of Sn, Bi, Zn and POS40 alloy coatings on the thermal fatigue of Ni (NP2), bronze, brass (162) and steel (1Kh18N9T) subjected to 1000 cycles in the temperature range 400-1300C. The thermal fatigue of the specimens was evaluated on the basis of a 5%, 10% and 20% decrease in ultimate strength and elasticity. The thermal fatigue of the basic metal was decreased by more than 30% when Ni was coated with Bi, while other metal coatings had no effect. Sn and POS40 alloy coatings strongly affected the thermal fatigue of bronze and brass; Zn, that of steel at higher temperatures. The increased thermal fatigue of steel with a Zn coating is explained by the low thermal strains produced by this metal. The decrease in thermal fatigue produced by active low-melting coatings is explained by the Rebinder effect. Orig. art. has: 4 graphs.

Card 1/1 ASSOCIATION: Vereshah Pedagogical Institute

L 23482-65 EWT(m)/EPF(c)/EWP(j)/T Po-4/Pr-4 DJ/RM

ACCESSION NR: AP5002336

S/0145/64/000/011/0035/0041

AUTHOR: Brandman, G.S., (Aspirant); Novokreshchenov, P.D.; Leonov, M.V. (Engineer)

TITLE: The wear resistance of ED-5 and ED-6 epoxy resins

25
23
B

SOURCE: IVUZ. Mashinostroyeniye, no. 11, 1964, 35-41

TOPIC TAGS: epoxy resin, epoxy resin wear, wear resistance, dry friction, dibutylphthalate, plasticizer, hexamethylenediamine

ABSTRACT: Epoxy resins are being used to a great extent in machine tool plants for the manufacture of stamp parts. The ED-5 and ED-6 epoxy resins, as well as ED-40 resin which is almost the same as ED-6, are generally used for casting these parts. One of the

depth of disc penetration was noted, as well as the change in weight during wear.

Card 1/3

L 23482-65

ACCESSION NR: AP5002336

temperature at the point of contact, and also the force of friction. All tests were made without lubricants at 8.5 m/min. and under loads varying from 1 to 20 kg. Each test took 3 hours. The samples were tested either with or without plasticizers, and the hardening agent was hexamethylenediamine. The mixture, consisting of 100 parts by weight of resin, 10 parts of dibutylphthalate (if present) and 20 parts of hexamethylene diamine, was thoroughly mixed. The samples were then cast and hardened at room temperature.

QUIET RECORDING OF THE TYPE OF SURFACE WEAR UNTIL THE ROAD SURFACE IS

of wear, recording the type of surface wear until the road surface is

Card 2/3

L 23482-65

ACCESSION NR: AP5002336

ASSOCIATION: Voronezhskiy gosudarstvennyy pedagogicheskiy institut (Voronezh state pedagogical institute)

SUBMITTED: 15Feb63

ENCL: 00

SUB CODE: MT

NO REF SOV: 007

OTHER: 001

Card 3/3

L 17119-63 EWP(q)/EWT(m)/BDS AFFTC/ASD Pad JD/JG
ACCESSION NR: AP3001708 s/0126/63/015/005/0798/0800

AUTHORS: Zubekhn, V. P.; Novokreshchenov, P. D.

TITLE: Lowering internal high temperature friction in Ni under the action of fusible metallic coatings

SOURCE: Fizika metalloy i metallovedeniye, v. 15, no. 5, 1963, 798-800

TOPIC TAGS: internal friction, Ni, lowering, fusible coating, Bi, Pb, Sn

ABSTRACT: The effect of hot coating with low-temperature melting metals (Bi, Pb, Sn) on the state of internal friction in Ni which develops at high temperatures (400-800C) has been studied. The best results in friction lowering were obtained with Bi coating; Pb was less active, and Sn had an insignificant effect. It is believed that the former explanation of this process, attributing it to the blocking of surface dislocation sources by the coating metal, is incomplete. The authors discuss various types of dislocation movements and present formulas for plastic deformation and shear modulus. The importance of the decrease in the length of a dislocation line under the action of melted coating is stressed and illustrated by the J. J. Gilman model for a helical dislocation. It is concluded that the effect of fusible coatings on the internal friction in Ni at high temperatures is

Card 1/2

I 17119-63

ACCESSION NR: AP3001708

explained by the Rebiner adsorption effect, by the blocking of surface dislocations, and by the decrease in the length of a dislocation line. Orig. art. has: 2 formulas and 2 figures.

ASSOCIATION: Voronezhskiy gosudarstvennyy pedagogicheskiy institut (Voronezh State Teachers Institute)

SUBMITTED: 10Nov62

DATE ACQ: 11Jul63

ENCL: 00

SUB CODE: ML

NO REF SOV: 007

OTHER: 007

Card 2/2

L 8556-65 EWT(m)/EWP(q)/EWP(b) Pad SSD/ASD(m)-3/AFWL MJW/JD/HW
ACCESSION NR: AR4044214 S/0137/64/000/006/1039/1039

SOURCE: Ref. zh. Metallurgiya, Abs. 61229 B

AUTHOR: Novokreshchenov, P. D.; Zubekhin, V. P.; Savchenko, N. V.

TITLE: Investigation of the influence of fusible coatings^A on the durability of
nickel after cyclical heat treatment by the method of internal friction C

^v CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurg-
izdat, 1963, 112-114

TOPIC TAGS: nickel, internal friction, heat treatment, fusible coating

TRANSLATION: Polycrystalline samples of brand NP-2^A nickel, 200 mm long and
1 mm in diameter, were preliminarily annealed at 700° for 5 hours and cooled from
that temperature. Then the samples were drawn through a melt of the

melting point. After a layer 0.04 mm thick had been applied, the sample was washed

Card 1/3

L 8556-65

ACCESSION NR: AR4044214

in running water and dried. Internal friction was measured with the help of a torsional pendulum (frequency of oscillations at room temperature is 1.6 cps). The maximum shear deformation on the surface of the sample did not exceed 10⁻⁶. Cyclical heat treatment was carried out by periodically heating the sample with d-c. Time of heating is 10 sec, cooling-15 sec, maximum temperature of cycle-800°, minimum-100°. The internal-frequency curve is recorded for the same sample after 0, 100, 500, and 100 thermal cyclings, after which the sample was tested on an MR-0.05 tensile testing machine. All types of coatings increase the internal friction of Ni (not subjected to cyclical heat treatment) in the interval 100-350° and essentially lower the high-temperature internal friction. In the low-temperature region, the maximum increase of internal friction is observed for samples coated with Sn; the minimum is observed for samples coated with Pb. In the region of high temperatures the influence of Sn and Pb on internal friction is of an opposite nature. All coatings also change the internal friction of Ni subjected to cyclical heat treatment. For Ni coated with Bi, with an increase in the number of cyclical heat treatment the low-temperature internal friction increases. With an

L 8556-65

ACCESSION NR: AR4044214

0

increase in the number of thermal cyclings the brittleness of a coated sample increases, while the strength decreases. The least influence on the mechanical properties and on the nature of the temperature curve of internal friction exerted by cyclical heat treatment of Ni coated with Sn. The increase of the internal friction of Ni under the influence of coatings in the region 100-350° is associated with the surface adsorption activity of fusible metals with respect to Ni. The increase in high-temperature internal friction (background) with increasing number of thermal cyclings is explained by the general increase in the defects in a metal as a result of the action of thermal stresses.

SUB CODE: MM, AS

ENCL: 00

Card 3/3

NOVOKRESHCHENOV, P.D.

Effect of fusible coating on the mechanical properties of metals following cyclic heat treatment. Dokl. AN SSSR 148 no.2:328-331 (MIRA 16:2)
Ja '63.

1. Voronezhskiy gosudarstvennyy pedagogicheskiy institut. Predstavleno akademikom P.A. Rebinderom.
(Metallic films) (Metals at high temperatures)

L 45091-65

ACCESSION NR: AR5019278

HR 0277/65/000/007/0018/0018

669.24: 539.67

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktivnyye raschet detaley mashin. Gidroprivod. Otdel'nyy vypusk, Abs. 7.48.125

AUTHOR: Zubekhin, V. P.; Novokreshchenov, P. D.

TITLE: Effect of low-melting metal coatings on internal friction in NP-2 nickel

CITED SOURCE: Izv. Voronezhsk. gos. ped. in-ta, v. 44, 1964, 129-133

TOPIC TAGS: nickel internal friction, low melting coating, internal friction formula, dislocational interpretation NP-2 nickel

TRANSLATION: The authors defined the effects of low-melting metal (Sn, Bi, Pb) coatings on the internal friction in NP-2 nickel at 100 — 300C. A hot coating method was used, i.e. the sample was drawn through molten low-melting metal, and the thickness of the coatings did not exceed 0.04 mm. Internal friction was calculated from

$$Q^{-1} = \frac{\ln A_{n+1}/A_n}{\pi n}$$

where A_{n+1} and A_n are the initial and final oscillation amplitudes, n is the number of oscillations from A_{n+1} to A_n . Bi and Sn increased the magnitude of Q^{-1} at 150 — 380C.

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45093-65

ACCESSION NR: AR5019278

Pb and Pb decreased it at 600 — 700C to about 40% of the original level. The effect of the coatings attenuated as temperature was raised to 800C. The results obtained are interpreted from a dislocational viewpoint. Bibl. with 13 titles.

SUB CODE: MM

ENCL: 00

L 16455-65 EMT(m)/EWP(w)/EMA(d)/EWP(t)/EWP(b) Pad IJP(c)/SSD/AFWL/ASD(m)-3/
AFETR MJW/JD/HW
ACCESSION NR: AP4042054 8/0126/64/017/006/0943/0944

AUTHOR: Zubekhin, V. P.; Novokreshchenov, P. D.

TITLE: The effects of low-melting metal coatings on the thermal fatigue of "NP-2" nickel

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 6, 1964, 943-944

TOPIC TAGS: Ni, heating cooling cycles, heat treatment, internal friction, Pb, Sn, Bi, hysteresis loss, thermal fatigue

ABSTRACT: The authors investigated the effects of low-melting 0.04 mm thick Bi, Pb and Sn coatings on Ni. The cases affected the peak of internal friction appreciably throughout the heat treatment inhibiting recrystallization and relaxation. The different phases of thermal fatigue were observed from the hysteresis losses in nickel measured by method of internal friction. The authors conclude that the higher the surface activity of the internal friction in relation to the base metal, the greater the drop of the peak of internal friction. Bi the reduced the friction more than the other tested layers, particularly, after 500 heating - cooling cycles. Metallographic analyses have shown it to penetrate much

Card 1/3

L 16455-65
ACCESSION NR: AP4042054

deeper into Ni than Pb and Sn. Orig. art. has: 1 figure.

ASSOCIATION: Voronzhskiy gosudarstvennyy pedagogicheskiy institut (Voronzh
State Pedagogical Institute

SUBMITTED: 01Apr63

ENCL: 01

SUB CODE: MM

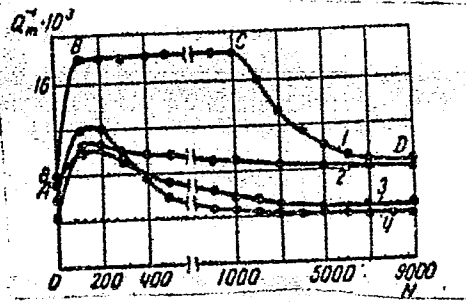
NO REF SOV: 004

OTHER: 002

Card 2/3

L 16455-65
ACCESSION NR: AP4042054

ENCLOSURE: 01



Caption: Maximum internal friction versus the number of heating - cooling cycles:
(1) Ni without a case; (2), (3) and (4) Pb, Sn and Bi-coated Ni

Card 3/3

ACCESSION NR: AF4034034

S/0020/64/155/006/1306/1309

AUTHOR: Zubekhin, V. P.; Novokreshchenov, P. D.

TITLE: Nature of thermal fatigue in nickel

SOURCE: AN SSSR. Doklady*, v. 155, no. 6, 1964, 1306-1309

TOPIC TAGS: thermal fatigue, nickel thermal fatigue, thermal fatigue mechanism, internal friction

ABSTRACT: The authors have investigated changes of the internal friction peaks caused by the changes in magneto-elastic hysteresis losses in nickel as a result of thermal fatigue. The connection between internal friction and the magnetic coercive force is given by Mishak's theory (Czech. J. Phys. 7, 233, 1957). The authors used a method torsion pendulum for the determination of maximal internal friction. They found that the friction first increases with the number of thermal cycles, then reaches a plateau, and drops after 1,000 thermal cycles. The authors interpret the thermal-fatigue mechanism from observed dependence in terms of formation and migration of dislocations. Orig. art. has: 4 figures, and 3 formulas.

Card 1/2

L 1325-66 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EWA(d)/EWP(t)/EWP(z)/EWP(b)/EWA(h)
ACCESSION NR: AP5023364 LJP(c) MJW/JD/WW/JG/WB UR/0020/65/164/001/0086/0089

AUTHOR: Novokreshchenov, P. D.; Ryazanskiy, V. P. 49
44, 5-7 40
B

TITLE: Effect of an ultrasonic field on the strength of metals and alloys in the presence of a liquid-metal medium 14

SOURCE: AN SSSR. Doklady, v. 164, no. 1, 1965, 86-89

TOPIC TAGS: metal, metal deterioration, mercury induced deterioration, ultrasound induced deterioration

ABSTRACT: The data presented in published literature on the effect of mercury on copper are conflicting: either they deny any appreciable adverse effect of mercury on the strength of copper or they point to a slight drop of strength and appreciable drop of ductility. Since ultrasonic fields and liquid-metal media have a similar destructive effect on the physical properties of metals, the authors investigated the strength of copper and brass L62 coated with a thin (0.3 to 1.0 μ) film of mercury and exposed to an ultrasonic field. It was found that the strength of Cu is somewhat reduced by the effect of mercury, and this reduction becomes much more pronounced when the effect of mercury is combined with that of the ultrasonic field. This may be interpreted as follows: the absorption of the vibration energy by a

Card 1/2

L 1325-66

ACCESSION NR: AP5023364

solid leads to a marked local heating (120C) of the specimen, which intensifies the processes of the penetration of mercury into the metal being deformed. This leads to the formation of cracks at earlier stages of plastic deformation and, in accordance with the theories of P. A. Rebinder, this is attributable to the decrease in surface energy at the solid metal-liquid metal interface in the presence of a surface-active medium. Orig. art. has: 4 figures and 3 tables. [16]

ASSOCIATION: Voronezhskiy pedagogicheskiy institut (Voronezh Teachers Institute)

SUBMITTED: 11Feb65

ENCL: 00

SUB CODE: MM, GP

NO REF SOV: 009

OTHER: 009

ATD PRESS: 4103

Card 2/2

L 14043-66 EWP(j)/EWT(m)/ETC(m)-6/T RM/WW/DJ

ACC NR: AR5020056

SOURCE CODE: UR/0081/65/000/012/S078/S078

AUTHOR: Brandman, G.S.; Novokreshchenov, P.D.; Leonov, M.V.

ORG: none

TITLE: Wear^{4.44} of polymer compounds with epoxy resin bases

SOURCE: Ref. zh. Khimiya, Abs. 12S508

REF SOURCE: Izv. Voronezhsk. gos. ped. in-ta, v. 44, 1964, 140-145

TOPIC TAGS: polymer, epoxy plastic, hardening

TRANSLATION: A study was made of the attrition of hardened ED-5¹⁵ and ED-6 epoxy resins and of compounds based on them with the addition of iron (Zh) powder fillings, currently used for coating the operational parts of plastic stamps, and also of FAED-13¹⁵ resin (a mixture of a furfuralacetone monomer FA with ED-6) and of EV-4¹⁵ (a mechanical mixture of ED-6 with monomer V-4). Tests on dry friction and wear were made on a Skoda-Savin machine at velocities of 8.5 m/min. and pressures of up to 80 kg/cm². A relation was established between the intensity of attrition and the load and pressure, disregarding the heating caused by dry friction. A study was made also of the effect of fillings on the character of the attrition. Research has shown that the FAED-13Zh compound had a lower wear resistance than EZh-1 and EV-4Zh. Yu. Zybin.

SUB CODE: 07 714

Card 1/1 20

L 25840-66 EWT(m)/EWA(d)/EWP(t) LJP(c) JD

ACC NR: AR5019275

SOURCE CODE: UR/0277/65/000/007/0011/0011

AUTHOR: Savchenko, N. V.; Novokreshchenov, P. D.; Maksimov, V. P.

ORG: none

18 18
 TITLE: Effect of low-melting metal plating on the mechanical properties of metals affected by high, quick-change temperatures

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruksii i raschet detaley mashin. Gidroprivod. Otdel'nyy vypusk, Abs. 7.48.73

REF SOURCE: Izv. Voronezhsk. gos. ped. in-ta, v. 44, 1964, 146-149

TOPIC TAGS: steel, metal ^{plating} ~~coating~~, bismuth, tin, cadmium, zinc, lead alloy, ~~metal~~
~~physical property~~ ^{solid mechanical property}, ^{metallurgic testing machine}

TRANSLATION: A study was made of low-melting platings (Bi, Sn, Cd, Zn and a 40% Sn + 60% Pb alloy) with regard to changes in the mechanical properties of 1 x 18H9T and B1 steels, after cyclonic thermal processings (maximum temperatures were 300, 500, 1000 and 800°, with a minimum of 100°). After a certain number of temperature changes (100 and more), the samples were tested on a tensile impact testing machine of the MR-0,05 type. The effect of plating was judged by the relative decreases in the strength and ductility of the plated and non-plated samples. In all cases, plating was detrimental to the mechanical properties of 1 x 18H9T steel; B1 steel, plated with Bi and Sn, m

Card 1/2

UDC: 669.14.018.8

L 25840-66

ACC NR: AR5019275

become stronger after 100 changes in temperature, whereas POS-40 solder did not affect the mechanical properties of steel.

SUB CODE: 11, 13 / SUBM DATE: none

Card 2/2 *LL*

L 02979-67 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6032453

SOURCE CODE: UR/0129/66/000/009/0016/0017

AUTHOR: Novokreshchenov, P. D.; Ryazanskiy, V. P.

45
43
B

ORG: Voronezh Pedagogical Institute (Voronezhskiy pedagogicheskiy institut)

TITLE: Strength of bismuth-coated nickel in an ultrasonic field

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1966, 16-17

TOPIC TAGS: nickel, bismuth, ~~coated nickel~~, ultrasonic effect, ultrasound, irradiated nickel, ~~coated nickel strength~~ *metal coating*

ABSTRACT: The effect of a surface-active medium and ultrasound on the strength of nickel has been investigated. Specimens of nickel wire 1 mm in diameter, annealed at 760C, were coated with bismuth and subjected to tensile tests at 20-600C with simultaneous application of ultrasound. It was found that at temperatures up to 500C the effect of bismuth alone is insignificant, but at higher temperatures the atoms of the coating begin to migrate along the defects caused by deformation and stimulate crack formation. As a result, at 600C the metals strength decreases by 30-35%. With simultaneous application of ultrasound and a surface-active coating, the cracks form very rapidly and under low stresses. It appears that atoms of coating and ultrasound support each other in the formation of cracks, and that the ultrasound-induced heat brings about an additional activation of atoms of the coating. The tensile strength of strain-hardened nickel is affected much less by ultrasound because

Card 1/2

UDC: 669.24:621.789

L 02979-67

ACC NR: AP6032453

16 2
the number of barriers which hinder the dislocation migration increases, and part of the ultrasound energy is spent to overcome these barriers. The sharp drop in strength of coated specimens caused by ultrasound is apparently associated with a rapid penetration of coating atoms into defects. At the same time, a sharp decrease of metal ductility was observed; the elongation dropped from 20% to 1-2%. Orig. art. has: 2 figures.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002/ ATD PRESS: 5099

Card

2/2 *egh*

L 07795-67 EWT(m)/EWP(t)/ETI IJP(o) JD/HW/WB
ACC NR: AP6034190 SOURCE CODE: UR/0369/66/002/005/0515/0517

1/5
1/3
B

AUTHOR: Novokreshchenov, P. D.; Kustova, Yu. Ye.

ORG: Pedagogical Institute, Voronezh (Pedagogicheskiy institut)

TITLE: Investigation of the effect of low-melting metal coatings on nickel recrystallized at various temperatures

SOURCE: ²¹ Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 5, 1966, 515-517

TOPIC TAGS: nickel, bismuth, ~~coated nickel~~, cadmium, ~~coated nickel~~, zinc, ~~coated nickel structure~~, ~~coated nickel~~ internal friction, *metal coating*

ABSTRACT: The effect of low-melting metal coatings on the structure and internal friction of nickel has been investigated. NP-2 nickel specimens 1 mm in diameter annealed at 650, 750 or 850C to obtain a respective grain size of 0.03, 0.20 and 0.30 mm were coated with bismuth, cadmium or zinc by dipping. The thickness of the coating did not exceed 30-35 μ. The tensile strength of specimens annealed at 650, 750 and 850C was 42.2, 37.1, and 39.2 kg/mm², respectively, and the elongation was 26.6, 20.4, and 20.7%. All three metals were found to have a significant effect on the internal friction of nickel (see Fig. 1).

Card 1/2

L 07795-67

ACC NR: AP6034190

2

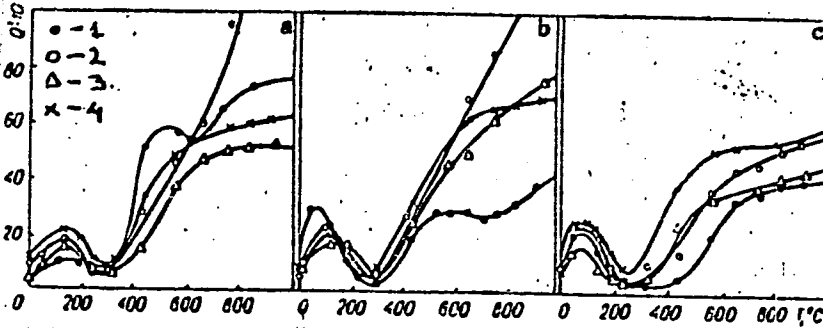


Fig. 1. Internal friction of nickel annealed at 650 (a), 750 (b), and 850C (c) and uncoated (1) or coated with bismuth (2), cadmium (3), or zinc (4).

The effect was especially pronounced in nickel annealed at 750C, in which the grain size amounts to 20% of the specimen diameter. The penetration of surface-active metals into nickel proceeds primarily along grain boundaries and structure defects. Annealing at 850C forms a structure with a small number of grain-boundary defects and dislocations. As a result, the increase of internal friction is insignificant. Orig. art. has: 2 figures.

SUB CODE: 11, 14/ SUBM DATE: 15Mar66/ ORIG REF: 012/ OTH REF: 001
 ATD PRESS: 5101

Card 2/2 *hs*

L-14167-66 EWP(j)/EWP(k)/EWT(d)/ETC(m)-6/EWP(w)/EWP(v)/EWP(t)/E/EWT(m)

ACC NR: AP6003942

SOURCE CODE: UR/0374/65/000/005/0078/0084

JD/NN/HM/EM/RM

AUTHOR: Freydin, A. S. (Moscow); Novokreshchenov, P. P. (Moscow); Ziger-Korn, V. N. (Moscow)

63
B
4155
51

ORG: none

TITLE: Dispersion of strength properties and reliability of adhesive joints

SOURCE: Mekhanika polimerov, no. 5, 1965, 78-84

TOPIC TAGS: aluminum alloy, adhesive, ~~dispersion hardening~~, ~~cold hardening~~, ~~heat stress~~, epoxy plastic, *filler*, *ultimate strength*, *actual mechanical property*

ABSTRACT: The dispersion of strength properties of adhesive joints of an aluminum alloy with the cold setting epoxy adhesive (EPTs-1) has been investigated. It was found by mathematical and statistical methods that the presence of a filler and the size of its particles, as well as an additional heat treatment after glueing, exert a strong effect on the dispersion of strength properties of the adhesive joints. In consideration of these findings, it is possible to reduce the dispersion of strength properties and to improve the reliability of the adhesive joints. ¹⁶ Orig. art. has: 3 figures and 3 tables. [Based on author's abstract].

Card 1/2

UDC: 678:688.395.744:669:717:620.176.24

2

L 14167-66

ACC NR: AP6003942

SUB CODE: 11/ 01/ SUBM DATE: 09Mar65/ ORIG REF: 007/ OTH REF: 002

Card 2/2

MEYDIN, A.S.; NOVOKRESHCHENOV, P.P.

Creeping of adhesive materials under a lasting load. Stroif.
mat. 11 no. 12:26-27 D '65. (MIRA 18:12)

124-57-1-753

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 98 (USSR)

AUTHOR: Novokreshchenov, S. V.

TITLE: Hydrogeological Calculation Method for Single, Imperfect (Partial), Dug Wells on the Principle of the Representation of the Ground Water Table Curve (Metodika gidrogeologicheskogo rascheta odinochnykh nesovershennykh (nepolnykh) gruntovykh kolodtsev na printsipe otobrazheniya krivoi depressii)

PERIODICAL: Tr. Sredneaz. politekhn. in-ta, Tashkent, Gosizdat UzSSR, 1955, pp 239-251

ABSTRACT: The well-known hydraulic methods for the determination of the discharge into an imperfect well are expounded. The author employs Dupuy's formula, but he writes it incorrectly; instead of the depth of the water in the well he takes the depth at the wall of the well (ref. Charnyy, I. A., Dokl. AN SSSR, 1951, Vol 79, Nr 6). For the case of a deeply embedded water-retaining structure the author makes the arbitrary assumption that the bottom of the active zone of the aquifer is limited by a curve that is a specular image of the ground water table.

Card 1/1

Bibliography: 5 references

M.M. Semchinova

1. Water wells--Evaluation
2. Water--Availability--Ground water factors
3. Water wells--Capacity--Mathematical analysis
4. Hydrology--USSR

124-58-9-10122

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 101 (USSR)

AUTHOR: Novokreshchenov, S. V.

TITLE: Method for the Hydraulic Calculation of the Seepage Through a Dam Made of Homogeneous Soil and Built on an Impervious Foundation (For any Operating Condition) [Gidravlicheskiy metod rascheta fil'tratsii cherez plotiny iz odnorodnogo grunta na vodoneproni-tsayemom osnovanii (dlya lyubogo rezhima)]

PERIODICAL: Tr. Sredneaz. politekh. in-ta, 1957, Nr 4, pp 250-266

ABSTRACT: The author generalized the hydraulic method of N. N. Pavlovskiy, originally proposed by P. for the Calculation of Darcy-type seepage through earth dams on an impervious foundation, in its application to a generic exponential filtration function of the type of $v=kl^{1/m}$. In this manner, while utilizing in full N. N. Pavlovskiy's method of fragments, the author obtains a set of generalized seepage equations. For $m=1$ the equations proposed by the author reduce to the system of N. N. Pavlovskiy filtration equations. The system of equations obtained by the author is solved by the trial-and-error method. Bibliography: 8 references.

Card 1/1

1. Dams--USSR 2. Mathematics--Applications M. M. Semchinova

NOVOKRESHCHENOVA, A.P.

Rapid method for determining the water saturation of cores and their recovery. Nauch. tekhn. sbor. po dob. nefiti no.27:87-90 '65. (MIRA 18:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

NOVOKRISHCHENOVA, K.P.

Surgical intervention in cardiac wounds. Vest.khir. 73 no.5:58 S-0 '53.
(MIRA 6:11)

1. Ramenskaya gorodskaya bol'nitsa. (Heart--Wounds and injuries)

BYKOVA, Ye.S., kandidat meditsinskikh nauk (Tashkent); NOVOKRESHCHENOVA,
H.A., (Tashkent)

A case of dissecting aneurysm of the abdominal aorta. Klin.
med. 35 no.2:146-147 P '57 (MLRA 10:4)

1. Iz mediko-sanitarnoy chasti (nach. I.N. Daitriyeva) Tashkentskogo
tekstil'nogo kombinata.

(AORTIC ANEURYSM, case reports
dissecting of abdom. aorta)

NOVOKRESHCHENOVA, N. S. and FEDDER, M. L.

"Flea Repellant Preparations."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Central Scientific Research Institute for Disinfection (Moscow), and the State Scientific Research Institute of Microbiology and Epidemiology of the Southeast Part of the USSR (Saratov).

TILICHENKO, M.N.; ABRAMOVA, M.A.; YEGOROVA, M.Ye.; NOVOKRESHCHENOVA, N.S.;
SUSHKO, L.I.

New insecticides against fleas. Med.paras.i paras.bol. no.5:614-
616 '61. (MIRA 14:10)

1. Iz laboratoriya organicheskoy khimii Saratovskogo gosudarstvennogo
universiteta imeni N.G. Chernyshevskogo, kafedry biokhimii Sara-
tovskogo meditsinskogo instituta i Nauchno-issledovatel'skogo insti-
tuta "Mikrob."

(INSECTICIDES)

(FLEAS)

(ACRIDINE)

NOVOKRESHCHENOVA, N.S.; SOLDATEIN, I.S.; DENISENKO, L.K.; MARTENS, L.A.

Use of radioactive carbon for tagging fleas. Med.paraz.iparaz.
bol. 30 no.1:72-76 Ja '61. (MIRA 14r3)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta
mikrobiologii i epidemiologii Yugo-Vostoka SSSR ("Mikrob")
(dir. instituta D.G. Savostin).
(FLEAS) (CARBON—ISOTOPES) (INSECTS, MARKING OF)

SOLDATKIN, I.S.; NOVOKRESHCHENOVA, N.S.; RUDENCHIK, Yu.V.; OSTROVSKIY, I.B.;
LEVOSHINA, A.I.

Study of the feeding activity of fleas of the greater gerbil under
natural conditions by the use of radioactive indicators. Zool.
zhur. 40 no.11:1647-1650 N '61. (MIRA 14:11)

1. All-Union Research Institute "Mikrob", Saratov and Anti-Plague
Station of Nukus.

(Fleas) (Insects--Food)

NOVOKRESHCHENOVA, N.S.; SOLDATKIN, I.S.; LEVOSHINA, A.I.

Method of radioactive indicators used for determining the comparative frequency of feeding of various species of fleas under laboratory conditions. Vop. ekol. 4:135-137 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut "Mikrob", Saratov.
(Fleas) (Insects--Food) (Radioactive tracers)

SOLDATKIN, I.S.; NOVOKRESHCHENOVA, N.S.; RUDENCHIK, Yu.V.;
OSTROVSKIY, I.B.; LEVOSHINA, A.I.

Use of radioactive carbon in studying the intensity of the exchange
of fleas between *Rhombomys optimus* and *Meriones meridianus*.
Dokl. AN SSSR 146 no.6:1462-1463 0 '62. (MIRA 15:10)

1. Predstavleno akademikom Ye.N. Pavlovskim.
(Parasites—Gerbils) (Fleas) (Radioactive tracers)

NOVOKRESHCHENOVA, N. S.

Dissertation defended at the Zoological Institute for the academic degree of Candidate of Biological Sciences:

"Ecological Basis for Controlling Fleas in the Burrows of the Small Marmot and the Large Sand Bel."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

NOVEMBER 1965

Change in the abundance index of fleas as related to the number of investigated objects. Zool. zhur. 44 no.3:403-410 '65.

(MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy protivozhumnyy institut
"Mikrot", Saratov.

NOVOKRESHCHENOVA, N.S.; KUZNETSOVA, G.S.

Characteristics of the flea ecology of greater gerbils in
places with chronic plague epizooty. Zool. zhur. 43 no.11:
1638-1648 '64. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy protivechumnyy
institut "Mikrob", Saratov.

ACC NR: AP6018111 SOURCE CODE: UR/0298/65/018/009/0102/0106

AUTHOR: Avetisyan, G. A.; Novokreshchenova, N. S.; Yundin, Ye. V.; Markaryan, L. G.

ORG: Armanian Anti-Plague Station (Armyanskaya protivochumnaya stantsiya); All-Union Scientific Research Anti-Plague Institute "Mikrob" (Vsesoyuznyy nauchno-issledovatel'skiy protivochumnyy institut "Mikrob"); Stavropol' Branch, Institute "Mikrob" (Stavropol'skiy filial instituta "Mikrob")

TITLE: Experiments to study the feeding of fleas of the common vole in high-altitude conditions of Armenia with radioactive isotopes

SOURCE: AN ArmSSR. Izvestiya. Seriya biologicheskikh nauk, v. 18, no. 9, 1965, 102-106

TOPIC TAGS: entomology, epidemiology, isotope, sulfur

ABSTRACT: Voles were caught, radioactive sulfur was placed in their stomachs and they were released. From one to five days later, they and those within a radius of 10 meters from where they were released were caught again, and the number of labelled fleas was recorded. The index for feeding activity was taken to be the time required for a majority of the fleas in the colony to become labelled. The experiment was conducted in two habitats (altitudes: 2,300 and 1,750 meters) where epizootics of plague had occurred, and at the time of the experiment (July 1964) the predominant species of fleas were *Ctenophthalmus wladimiri*, *Amphipsylla rossica*, and *Ceratophyllus consimilis*. All three species showed high feeding activity, in that over half of the fleas became labelled in 24 hours. When the time of the experiment was

Card 1/2

L 36122-66 EWT(m)/EWP(t)/ETI IJP(c) WW/JD/JG/GD

ACC NR: AT6014761

SOURCE CODE: UR/0000/65/000/000/0118/0119

AUTHORS: Kurganov, G. B.; Baranov, I. A. (Candidate of technical sciences); Karasik, V. R.; Sviridonov, M. N.; Shmulevich, R. S.; Novokreshchenova, V. B.; Sentyurina, N.N.

ORG: none

TITLE: Device for investigating the critical current in superconductors and its application for studying the effect of iron impurity on the superconducting properties of niobium-zirconium alloy

SOURCE: Soveshchaniye po metallovedeniyu i metallofizike sverkhprovodnikov, 1964, 1964. Metallovedeniye i metallofizika sverkhprovodnikov (Metallography and physics of metals in superconductors); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 118-119

NPIC TAGS: superconductivity, critical magnetic field, superconducting alloy, niobium alloy, zirconium containing alloy, iron containing alloy, solenoid, *physics*

Laboratory instrument
 ABSTRACT: A device is described for measuring the critical current of short wire samples as a function of the external transverse magnetic field (range 0--40 koe) (see Fig. 1). The magnetic field is created by a solenoid with windings of niobium-zirconium wire, whose construction was described in the preceding article (V. R. Karasik, G. B. Kurganov, V. G. Yershov, I. Yu. Shebalin, B. D. Kopylovskiy, and V. S. Ivanov. Present compilation, p. 101). The device was used for investigating the properties of 0.2-mm diameter wire of Nb - 26% Zr alloy alloyed with iron (0.5, 0.4, .

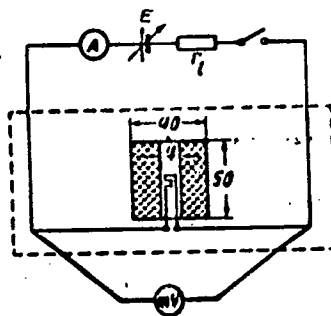
Card 1/2

L 36122-66

ACC NR: AT6014761

2

Fig. 1. Schematic of device for investigating the critical current in superconductors. Dotted line indicates volume at $T = 4.2K$, cross-hatched area indicates solenoid creating magnetic field (dimensions in mm).



0.2, and 0.008% Fe). In general, an increase in Fe content decreased the magnitudes of both the critical current and the critical field. The authors thank B. M. Vuk, corresponding member AN SSSR, and M. B. Golant, doctor of technical sciences, for interest in the work and valuable advice. Orig. art. has: 2 diagrams.

SUB CODE: 20/01/SUBM DATE: 23Dec65/ ORIG REF: 001

Card 2/2 *lll*

L 02960-67 FSS-2/EWT(1)/T/EWP(k) WR

ACC NR: AP6032926

SOURCE CODE: UR/0142/66/009/003/0362/0364

AUTHOR: Novokshany, M. N.

60
B

ORG: none

TITLE: On the simulation of operation of the coherent radar using ultrasound

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 3, 1966, 362-364

TOPIC TAGS: coherent radar, radar signal, reflected signal, rf signal

ABSTRACT: Simulation of operation of pulsed coherent radar through the use of ultrasonics was investigated. The experimental set-up consisted of a transmitter, an ultrasonic device which converts radio signals into ultrasound and back, and water in which the ultrasound propagates. The conservation of the signal's coherence during propagation in the water was studied in a tank equipped with a motion simulator. The dimensions and shape of the tank prevented penetration by signals reflected from the inner surfaces of the tank to the ultrasonic device. The ultrasonic device moved rectilinearly in respect to the permanently fixed target. The ultrasonic pulses emitted from the piezoelectric element propagated through the water and reached the target, from which it was reflected back to the ultrasonic device. Here the signal was converted into an rf signal which is applied to the input of a radar receiver with a phase detector at its output. The amplitude of video pulses

Card 1/2

UDC: 621.396.962

Card 2/2 LC

NOVOKSHANOVA, Z.K., aspirant.

Halley's comet. Nauka i zhizn' 23 no.10:63 0 '56. (MLBA 9:11)

1. Institut istorii estestvoznaniya i tekhniki AN SSSR.
(Comet, Halley's)

NOVOKSHANOVA, Z.K. Cand Tech Sci -- (diss) "Geodesy in Russia
from the 19th ~~century~~ to the beginning of the 20th Century."
Mos, 1957. 20 pp 20 cm. (Acad Sci USSR. Inst of History of Natural
Science and Technology). (KL, 23-57, 113)
~~Engineering~~

3(4)

PHASE I BOOK EXPLOITATION SOV/1477

Novokshanova, Zinaida Kuz'minichna

Karl Ivanovich Tenner, voyenny geodezist (Karl Ivanovich Tenner, Military Geodesist) Moscow, Geodezizdat, 1957. 99 p. 1,500 copies printed.

Ed.: G.F. Gapochko; Tech. Ed.: V.V. Romanova; Ed. of Publishing House: T.A. Shamarova

PURPOSE: This booklet is intended for the general reader.

COVERAGE: This is a biography of one of the earliest Russian military geodesists, Karl I. Tenner, who directed the Russian operations during the Russian-Scandinavian joint geodetic survey. The book describes the first organized geodetic surveys in Russia. The text contains 6 diagrams. There are no references given.

Card 1/4

Karl Ivanovich Tenner. SOV/1477

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3.	Surveys in the Kurland, Grodno and Minsk Guberniyas	55
4.	Surveys in the Volyn', Podol'sk and Kiyev Guberniyas and the Belostok oblast'	59
5.	Surveys in Poland	60
6.	Tying-in Russian with Austrian and Prussian triangulations	65
7.	Trigonometric surveys in Bessarabia	69
8.	Leveling between the Black and Baltic seas	70
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Ch. V.	K.I. Tenner's Participation in Training Geodetic and Topographic Teams and the Importance of His Work on the Future Development of the Geodetic and Topographic Sciences in Russia	88
	Card 3/4	

NOVOKSHANOVA, Z.K.

3(1) PHASE I BOOK EXPLOITATION SOV/1379

Istoriko-astronomicheskiye issledovaniya, vyp. 3 (Studies in the History of Astronomy, Nr 3) Moscow, Gostekhizdat, 1957. 706 p. 2,000 copies printed.

Resp. Ed.: Kulikovskiy, P.G., Docent; Eds.: Rakhlin, I.Ye. and Reznikovskiy, P.T.; Tech. Ed.: Akhlamov, S.N.; Editorial Board of Series: Vorontsov-Vel'yaminov, B.A., Professor, Kukarkin, B.V., Professor, Kulikovskiy, P.G., Docent (Chairman, Committee of the History of Astronomy, Astronomical Council, USSR Academy of Sciences) and Perel', Yu.G. (Scientific Secretary, Committee on the History of Astronomy, Astronomical Council, USSR Academy of Sciences)

PURPOSE: This book is intended for both the specialist and the general reader interested in the development of astronomy in Russia.

COVERAGE: This volume, a collection of articles by different authors, is the third in a series on the history of the development of astronomy in Russia. Volume 3 deals with the development of the astronomical sciences in the USSR from earliest times to the present day. The articles describe such early observatories as the first astronomical observatory of the St. Petersburg Academy of Sciences

Card 1/4

Studies in the History (Cont.)

SOV/1379

and those founded in Central Asia in the XIII century; they further describe the life and contributions of such outstanding Russian astronomers as A.D. Krasil'nikov, S.K. Kostinskiy, G.A. Shayn, N.A. Tachalov, S.P. Glazenap, and I.M. Rabinovich. One of the more important articles, by Prof. O.A. Mel'nikov, Soviet astrophysicist, treats the development of astrospectroscopy in pre-revolutionary and modern Russia. The editorial staff expresses its thanks to G.A. Tikhov, Corresponding Member of the AN SSSR, Professors P.M. Gorshkov, N.N. Neuymina, Ye.S. Berezanskaya and N.M. Shtaude for their suggestions and assistance in reviewing the material. The articles are accompanied by numerous photographs, diagrams, and extensive bibliographies.

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ARTICLES AND REPORTS

- Chenakal, V.L. Observatories of the Petersburg Academy of Sciences in the 18th Century 261
- Chenakal, V.L. Design, Construction and Installation of Instruments in the First Astronomical Observatory of the Petersburg Academy of Sciences 429
- Nevskaya, N.I. A.D. Krasil'nikov - The First Russian Astronomer 453
- Novokshanova, Z.K. Pulkovo Technicians - Creators of Astronomical and Geodetic Instruments 485
- Mamedbeyli, G.D. The Maraga and Peking Observatories in the XIII Century 517
- Korytnikov, S.N. S.K. Kostinskiy and Engel'gardt Astronomical Observatory 531

Card 3/4

NOVOKSHANOVA, Z. K.

MANDEL'VICH, G.A.; NOVOKSHANOVA, Z. K.

New materials on Fedorov's universal stand for microscopes. Top.
ist. est. i tekhn. no. 3:225-228 '57. (MIRA 11:1)
(Fedorov, Evgraf Stepanovich, 1853-1919)
(Microscope--Attachments)

NOVOKSHANOVA, Z.K.

Mechanics at the Pulkovo Observatory as designers of astronomical and
geodesic instruments. Ist.-astron. isal. no.3:485-516 '57.
(Pulkovo Astronomical Observatory--Mechanics (Parsons)) (MIRA 11:3)
(Astronomical instruments) (Surveying--Instruments)

NOVOKSHANOVA, Z. K.

"Astronomical Observatory of the General Staff Military Topography Department"

Studies in the History of Astronomy, No. 4, Moscow, Fizmatgiz, 1958, 592pp.

NOVOKSHANOVA, Z.K.

~~Astronomical~~ observatory of the Military Topography Department
of the General Staff. Ist.-astron.issl. no.4:491-497 '58. (MIRA 11:10)

(Astronomical observatories)

SOV-25-56-10-35/48
AUTHOR: Novokshanova, Z.K., Candidate of Technical Sciences
TITLE: Knowledge for the Masses (Znaniye - v massy)
PERIODICAL: Nauka i zhizn', 1958, Nr 10, pp 73 - 74 (USSR)
ABSTRACT: Thirteen new leaflets of a scientific popular series published by the publishing house "Sovetskaya Rossiya" are listed with short descriptions of each. There are 4 photographs.

1. Bibliography--USSR

Card 1/1

NOVOKESHANOVA, Zinaida Kuz'minichna; BOL'SHAKOV, N.M., red.; KOMAR'KOVA,
L.M., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Ieronim Ivanovich Stebnitskii - military geodesist, geographer,
scientist] Ieronim Ivanovich Stebnitskii - voennyi geodesist,
geograf, uchenyi. Moskva, Izd-vo geodes.lit-ry, 1960. 91 p.
(MIRA 13:5)

(Stebnitskii, Ieronim Ivanovich, 1832-1897)

NOVOKSHANOVA, Z.K.

K.P.Tenner; on the centennial of his death. Vop.ist.est.1 tek.
no.10:109-114 '60. (MIRA 14:3)
(Tenner, Karl Ivanovich, 1783-1859)

NOVOKSHANOVA, Z.K.; BOL'SHAKOV, N.N., red.; KOMAR'KOVA, L.M., red. izd-va;
~~PREYS, E.M., tekhn. red.~~

[Aleksi Andreevich Tillo; cartographer, geodesist, geographer]
Aleksi Andreevich Tillo; kartograf, geodezist, geograf. Moskva,
Izd-vo geodez. lit-ry, 1961. 118 p. (MIRA 14:11)
(Tillo, Aleksi Andreevich, 1839-1899)

NOVOKSHANOVA, Z.K.

In the Section of the History of Geography and Geology of the
Soviet Association of the Historians of Natural Sciences and
Technology. Vop.ist.est. i tekhn. no.11:189 '61. (MIRA 14:11)
(Geography) (Geology)

NOVOKSHANOVA, Z.K.

E.I. Forsh and his contribution to the Russian geodesy. Trudy
Inst.ist.est.i tekhn. 37:290-301 '61. (MIRA 14:10)
(Forsh, Eduard Ivanovich, 1828-1896)

NOVOKSHANOVA, Z.K.

Machine shop at the General Staff. Ist.-astron.issl. no.8:331-360
'62. (MIRA 16:3)
(Astronomical instruments)

NOVOKSHANOVA, Zinaida Kuz'minichna; MIKHAYLOV, A.I., akademik,
otv. red.

Vasilii Iakovlevich Struve. Moskva, Nauka, 1964. 294 p.
(MIRA 18:3)

NOVOKSHENOV, V. S.

Cand Tech Sci - (diss) "Study of asynchronous brushless frequency converter." Tomsk, Pub. Tomsk Univ, 1961. 14 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Tomsk Order of Labor Red Banner Polytechnic Inst imeni S. M. Kirov); 150 copies; price not given; (KL, 7-61 sup, 242)

NOVOKSHONOV, G.M. (Veterinary Doctor, Scientific-Production Veterinary
Laboratory of the Udmurt Republic). (Abstracted by NOSKOV, A. I.)

"Treatment of herpes tonsurans in calves with petroleum from the Kama [River]"..
Veterinariya, vol. 39, no. 3, March 1962 pp. 30

NOVOKSHONOV, P.

High destination. Sov. profsolyuzy 19 no.11:8-9 Je '63.
(MIRA 16:8)
(Achinsk—Flour mills) (Achinsk—Trade unions—Officers)

HOVOKSHONOV, P.A.

Snow on the Barguzin Range. Priroda 45 no.12:112-113 D '56.
(MLRA 10:2)

1. Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo
filiala Akademii nauk SSSR.
(Barguzin Range--Snow)

NOVOKSHONOVA, L.A.; TSVETKOVA, V.I.; CHIRKOV, N.M.

Termination and initiation reactions of the polymeric chain in the
polymerization of propylene on $VCl_3 - Al(i\text{-}C_4H_9)_3$. *Vysokom. soed.*
7 no.5:898-901 My '65. (MIRA 18:9)

1. Institut khimicheskoy fiziki AN SSSR.

AVDEYEVA, T.I.; NOVOLODSKAYA, A.A.

Interaction of potassium hydroaluminosilicate with alkali aluminate
solutions. TSvet. met. 37 no.10:36-39 O '64. (MIRA 18:7)

AVDEYEVA, T.I.; NOVOLODSKAYA, A.A.

Phase composition of the reaction products of sodium and potassium aluminosilicates with calcium carbonate at sintering points. Izv. AN SSSR. Neorg. mat. 1 no.2:266-271 F '65. (MIRA 18:7)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR.

ABDULIN, A.; ALEKSEYEV, I.; BANTLE, O.; BOBROV, L.; BOZHANOV, B.;
BOYKO, V.; BONDAREV, K.; BORZOV, V.; VERKHOVSKIY, N.; GUBAREV, V.;
GUSHCHEV, S.; DEBAGOV, V.; DIKS, R.; DMITRIYEV, A.; ZHIGAREV, A.;
ZEL'DOVICH, Ya.; ZUBKOV, B.; IRININ, A.; IORDANSKIY, A.;
KITAYGORODSKIY, P.; KLYUYEV, Ye.; KLYACHKO, V.; KOVALEVSKIY, V.;
KNORRE, Ye.; KONSTANTINOVSKIY, M.; LADIN, V.; LITVIN-SEDOY, M.;
MALEVANCHIK, B.; MANICHEV, G.; MEDVEDEV, Yu.; MEL'NIKOV, I.;
MUSLIN, Ye.; NATARIUS Ya.; NEYFAKH, A.; NIKOLAYEV, G.; NOVOMEYSKIY, A.;
OL'SHANSKIY, N.; OS'MIN, S.; PODOL'NIY, R.; RAKHMANOV, N.; REPIN, L.;
RESHETOV, Yu.; RYBCHINSKIY, Yu.; SVOREN', R.; SIFOROV, V.; SOKOL'SKIY, A.;
SPITSYN, V.; TEREKHOV, V.; TEPLOV, L.; KHAR'KOVSKIY, A.; CHERNYAYEV, I.;
SHAROL', L.; SHIBANOV, A.; SHIBNEV, V.; SHUYKIN, N.; SHCHUKIN, O.;
EL'SHANSKIY, I.; YUR'YEV, A.; IVANOV, N.; LIVANOV, A.; FEDCHENKO, V.;
DANIN, D., red.

[Eureka] Evrika. Moskva, Molodaia gvardia, 1964. 278 p.
(MIRA 18:3)

NOVOLODSKIY, L.P.

Removal of the fatty ball of Bichat simulating a tumor. Khirurgia
no.12:70 D' 55. (MIRA 9:7)
(FACE--TUMORS)

NOVOLODSKIY, L.P. (Slutsk, Minskoy obl. v/gospital' 1139)

Inguinal hernia with homolateral orchiopey. Vest.khir. 77 no.4:
103-104 Ap '56. (MLRA 9:8)
(HERNIA) (TESTICLE--ABNORMALITIES AND DEFORMITIES)

NOVOLODSKIY, L.P.

Repeated operations for appendicitis. Khirurgia 32 no.2:78 F '56.
(MIRA 9:7)

(APPENDICITIS)

NOVOLODSKIY, L.P.; PANEVA, L.A.

Clinical importance of the determination of hemoglobin in urine
during strong hematuria. Lab. delo 3 no.1:17 Ja-F '57
(MLBA 10:4)

(HEMOGLOBIN) (HEMATURIA)

NOVOLODSKIY, L.P., podpolkovnik med.sluzhby

Injuries to the menisci of the knee and their treatment. Voen.
med.zhur. no.12:78-79 1957 (MIRA 11:5)
(KNEE--WOUNDS AND INJURIES)

NOVOLODSKIY, L.P.

X-ray symptoms of a meniscus injury of the knee joint in contrast
arthrography. Vest.rent. 1 rad. № no.3:71-73 My-Je '59.
(MIRA 12:10)

(KNEE, wds. & inj.
meniscus inj., contrast arthrography (Rus))

NOVOLODSKIY, L.P.; PATLAN, B.D.

Treatment of chronic insufficiency by Fleschi's operation. Zdrav.
Bel. 7 no.10:38-39 0 '61. (MIRA 14:11)

(CORONARY HEART DISEASE)
(CORONARY VESSELS—SURGERY)

137-58-6-11830

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 92 (USSR)

AUTHOR: Novolodskiy, P.I.

TITLE: Technical and Economic Indices for Top and Bottom Pouring of Steel (Tekhniko-ekonomicheskiye pokazateli razlivki stali sverkhu i sifonom)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 383-386

ABSTRACT: A compilation is made of the results of production of rail, tube, and wheel ingots in the shops of the Novo-Tagil metallurgical plant (NT) with top and bottom pouring. It is noted that top-poured metal is significantly freer of nonmetallic inclusions, as compared with bottom-poured, but its poorer surface requires an intermediate conditioning process. Cost factors indicate that top pouring is more profitable for tube and rail steels. A detailed analysis of metal losses and expenses shows that in top pouring under the conditions existing at the NT the cost of one ton of steel increases by more than the cost of 12 rubles/ton. However, in terms of the metal consumed per ton of rolled product passing inspection, top pouring is desirable

Card 1/2

137-58-6-11830

Technical and Economic Indices for Top and Bottom Pouring of Steel
for wheel metal, and also for rimmed metal for beams.

I.G.

1. Steel--Production
2. Steel--Quality control
3. Steel--Properties
4. Steel--Economic aspects

Card 2/2

PLANE I BOOK REPRODUCTION 307/4501

- Koordinatorya avreshchaniya po priznaniyu Maloroda na metallurgicheskikh zavodakh Urala. Sverdlovsk, 1976
- Primeneniye Maloroda na metallurgicheskikh predpriyatiyakh Urala; Materialy koordinatsionnogo avreshchaniya (Use of Oxygen in Metallurgical Plants of the Urals; Materials of the Coordination Conference) Sverdlovsk, 1980. 152 p. Errata sily izvestny. 1,000 copies printed.
- Sponsoring Agencies: Izdatel'skaya firma SSSR. Ural'skiy filial. Institut metalurgicheskogo predpriyatiya mambno-tekhnicheskikh obshchestv Chernyye i Serbiyskiy metallurgii.
- Supp. No. 1. P.D. Luchalskiy, Candidate of Technical Sciences; Tech. Ed.: N.F. Serezhkin.
- NOTE: This collection of papers is intended for scientific research and technical personnel in the field of metallurgy.
- CONTENTS: The use of oxygen in ferrous and nonferrous metallurgy of the Urals is discussed. A list of experimental use of oxygen in some metallurgical plants in the USSR is given. During the Conference, held December 20 and 21, 1979, the following persons (in addition to the authors) took part in the discussion: V.V. Bilov, V.V. Kibrikov, P.A. Korobin, A.A. Pavlovskiy, A.M. Krasovskiy (Nizhnyaya Sverdlovskaya Metallurgicheskaya Fabrika), A.M. Krasovskiy (Nizhnyaya Sverdlovskaya Metallurgicheskaya Fabrika), N.F. Koshkin (Nizhnyaya Sverdlovskaya Metallurgicheskaya Fabrika), Ural'skiy Institut Chernykh Metallov - Ural Institute of Ferrous Metals, N.Ye. Kharitonov (Chelyabinskaya Metallurgicheskaya Fabrika - Chelyabinsk Metallurgical Plant), O.Y. Demin (Krasnoyarskiy metalurgicheskiy zavod - Krasnoyarsk Copper Smelting Plant), V.A. Aglibitskiy (Institut Uspromeniye - Uspromeniye Institute). Some of the papers are followed by references, both Soviet and non-Soviet.
- 1. Krasovskiy, A.M. [Sverdlovsk Metallurgical Combine]. Experimental Use of Oxygen in Open-Hearth Furnaces 43
- 2. Krasovskiy, A.M. [Ural Scientific Research Institute of Ferrous Metals]. Use of Oxygen in Open-Hearth Furnaces 57
- 3. Malozemov, S.F., and P.D. Luchalskiy. [Institute of Metallurgy of the Ural Branch of the Academy of Sciences USSR]. The Use of Oxygen in the "Malozemovskiy Zavod". Experimental Use of Oxygen in the "Malozemovskiy Zavod" 65
- 4. Korobin, P.A. [Ural'skiy politekhnicheskiy Institut Imeni S.M. Kirova - Ural Polytechnical Institute Imeni S.M. Kirov]. Some Characteristics of the Features of Slag-Handling Technique in Steel Making With the Use of Oxygen 75
- 5. Korobin, P.A. [Nizhnyaya Sverdlovskaya Metallurgicheskaya Fabrika - Ural State Institute for the Study and Planning of Metallurgical Plants]. Steel Making in Converters With the Use of Oxygen 87
- 6. Kharitonov, N.Ye. [Izvesnyy nauchno-issledovatel'skiy Institut metallurgicheskoy tekhnikicheskoy (All-Union Scientific Research Institute of Metallurgical Plant Engineering)]. Operation of Gas Generators in the [Sverdlovsk Open-Hearth Plant, Using Oxygen-Enriched Blast 91
- The following cooperated in this investigation: A.M. Polunov, A.V. Baidakov, N.Ye. Tarbina, N.D. Zimin, all staff members of the Sverdlovsk Metallurgical Plant, and G.M. Suvayev, P.F. Gusev, A.F. Bozoyev, A.A. Kuznetsov, V.D. Murav'yev, and S.I. Bogoyev, all staff members of the Institute.
- 7. Kharitonov, N.Ye. [Sverdlovsk Metallurgicheskaya Fabrika - Sverdlovsk Metallurgical Plant]. On the Effectiveness of Supplying Oxygen to Open-Hearth Furnaces Forged and to Gas Generators 103
- 8. Korobin, P.A. [Ural Polytechnical Institute Imeni S.M. Kirov]. Expert-Opinion on the Use of Oxygen in Ferrous Metallurgy 107
- 9. Demin, O.Ye. [Nizhnyaya Sverdlovskaya Metallurgicheskaya Fabrika - Ural State Institute for the Study and Planning of Metallurgical Plants]. Short-Pulse Smelting of Oxidized High-Alloy Cast Iron With Oxygen-Enriched Blast 111
- 10. Luchalskiy, P.D. [Sverdlovsk Metallurgicheskaya Fabrika - Ural State Institute for the Study and Planning of Metallurgical Plants]. Short-Pulse Smelting of Oxidized High-Alloy Cast Iron With Oxygen-Enriched Blast 117
- 11. Koshkin, N.F., P.D. Luchalskiy, I.M. Kharitonov, O.Ye. Demin, P.D. Korobin, and O.A. Bilovskiy. The Making of Copper With the Use of Oxygen-Enriched Blast 129
- Dimensions 135
- Resolution 140

NOVOLODSKIY, P.I.

NOVOLODSKIY, P.I.; SHISHARIN, B.N.

Improving the performance of open-hearth furnace plants.
Metallurg 5 no.8:12 Ag '60. (MIRA 13:7)

1. Nishne-Tagil'skiy metallurgicheskiy kombinat.
(Open-hearth furnaces--Maintenance and repair)

STRUGOVSHCHIKOV, Dmitriy Pavlovich; NOVOLODSKIY, P.I., retsenzent; CHAPAYKINA, F.K., red.isd-va; TURKINA, Ye.D., tekhn. red.

[Steel casting; textbook for the training of qualified production workers] Razlivka stali; uchebnoe posobie dlia podgotovki kvalifitsirovannykh rabochikh na proizvodstve. Izd.2., ispr. i dop. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1961. 176 p. (MIRA 14:7)
(Steel castings)

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By means of research. NTO 3 no.4:38-40 Ap '61. (MIRA 14:3)

1. Zamestitel' predsedatelya soveta Nauchno-tekhnicheskogo obshchestva Nizhne-Tagil'skogo metallurgicheskogo kombinata. (Nizhniy Tagil'—Steelworks—Technological innovations)

ARNAUTOV, V.T.; BARANOV, V.M.; DONSKOY, S.A.; PASTUKHOV, A.I.; SMIRNOV, L.A.; TORSHILOV, Yu.V.; TRET'YAKOV, M.A.; UDOVENKO, V.G.; FREYDENZON, Ye.Z.; SHCHEKALEV, Yu.S.; Priruchni uchastiye: MAKAYEV, S.V.; KOMPANIYETS, G.M.; NAGOVITSYN, D.F.; NOVOLODSKIY, P.I.; VARSHAVSKIY, V.L.; KOROGODSKIY, V.G.; KLIBANOV, Ye.L.; MEDVEDEVSKIKH, Yu.; TALANTSEVA, T.I.; DUBROV, N.F.; DZEMYAN, S.K.; TOPYCHKANOV, B.I.; CHARUSHNIKOV, O.A.; KHARITONOV, Yu.A.

Developing and mastering the technology of converting vanadium cast iron in oxygen-blown converters with a 100 ton (Mg) capacity. Stal' 25 no.6:504-508 Je '65. (MIRA 18:6)

1. Nizhne-Tagi'skiy metallurgicheskiy kombinat (for Makayev, kompaniyets, Nagovitsyn, Novolodskiy, Varshavskiy, Korogodskiy, Klibanov, Medvedevskikh, Talantseva). 2. Ural'skiy nauchno-issledovatel'skiy institut chenykh metallov (for Dubrov, Dzemyan, Topychkanov, Charushnikov, Kharitonov).

NOVOLTEL'NOVA, N.F.; ANGELEVICH, A.I.

Essential oil from certain domestic varieties of lavenders.
Trudy VNIISNDV no.5:68-70 '61. (MIRA 14:10)
(Lavender oil)

NOVOMBERGSKIY, N.Ya.; GOL'DENBERG, L.A.; TIKHOMIROV, V.V.

Data on the history of mineral prospecting in the Russian State of
the 17th century from the documents of the Siberian Command. Ozh. po
ist. geol. znan. no.8:3-63 '59. (MIRA 13:3)
(Prospecting)

NOVA, M.; HUBAC, M.; NOVOMESKA, Z.; ZAHORSKY, J.

Pulmonary ventilation, oxygen requirement and oxygen utilization in adolescents during physical exertion. Pracovní lek. 14 no.8:379-382
0 '62.

1. Ústav hygieny práce a chorob z povolania v Bratislave, riaditeľ
MUDr. I. Klucik.

(RESPIRATION)

(EXERTION)

NOVA, Magdalena; NOVOMESKA, Zuzana

Absenteeism caused by occupational disability in relation to the work load in women. Prac. lek. 16 no.4:152-155 My '64

1. Ustav hygieny prace a chorob z povolania v Bratislave (riaditel: prof. dr. M. Nosar).

BORSKY, Imrich; HUBAC, Miloslav; Technicka spolupraca: NOVOMESKA, Zuzana

Change in the eosinophil count in the peripheral blood following static and dynamic work loads. Prac. lek. 16 no.5:193-197 JI '64.

1. Ustav hygieny prace a chorob z povolania v Bratislave (riaditel prof. dr. M. Nosal).

42939

S/137/62/000/011/039/045
A006/A101

12390

AUTHORS: Horváth, Stefan, Novomestský, Miloslav

TITLE: Coated welding electrode or filler wire with a compact or tubular rod with a filling producing iron-chrome-nickel base built-up metal

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 33, abstract 11E188 P (Czechoslovak. Patent no. 101246 of October 15, 1961)

TEXT: For the hardfacing of valves in power engineering an electrode is proposed which contains besides Fe (in %): C 0.05 - 1, Mn 0.20 - 0.60, Si 1.2 - 9, Cr 24 - 40, Ni 4 - 15, Mo 0.2 - 5 and which may also contain V < 2, W < 2, Nb + Ta < 1.5, Co < 2. The coating or filling of electrode should contain as much Si that $\geq 0.3\%$ of the total Si, required in the built-up metal, be supplied from the electrode coating or filling, and that the total Si content would be $\leq 2\%$ of the charge weight. In the same manner, not less than half of the Cr content must be supplied to the built-up metal from the coating or filling. As an example electrode or steel wire is proposed containing (in %): C < 0.2, Mn < 2.5, Si < 1.5, Cr 23 - 26, Ni 18 - 21, P ≤ 0.035 , S ≤ 0.035 . The coating

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Coated welding electrode or filler wire with...

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or filling of this electrode must contain: (in %) Fe-Si 2.5 - 4, Fe-Mn 2.5 - 3.5, Fe-Cr 62 - 66, Fe-Mo 0.5 - 1.5, fluorspar 14 - 18, rutile or limestone 14 - 18, caolin or Na fluosilicate or their mixture 3 - 9, and a binder, 18 - 30% of the charge weight. Moreover, the coating or filling of the electrodes may contain such alloying admixtures as V, W, Mo, Co, and Nb or Nb+Ta, in a total amount up to 35% of the basic charge weight. The diameter of the coated electrode must be larger than the diameter of its rod by 2 - 2.3 times. Metal built-up from these electrodes can be well strengthened by dispersion hardening. As an example hardness numbers of built-up metal are given: H_v 350 after welding; 840 after 3-hour-annealing at 800°C; 800 after 10-hour annealing at 800°C, 820 after 24-hour annealing. X

Ye. Greyl'

[Abstracter's note: Complete translation]

Card 2/2

NOVOMEYSKI, Zygmunt [Nowomiasjaki, Zygmunt]

Active power, reactive power, and distortion power in electrical systems with periodic nanosecond processes. Izv. vys. uceb. zav.; elektromekh. 7 no.6:657-664 '64. (MIRA 17:7)

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Color and light perception by the touch. Tekh.mol. 31 no.4:7-8
'63. (MIRA 16:6)

1. Nizhne-tagil'skiy pedagogicheskiy institut.
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NOVOMEYSKIY, A.S.

Class experiments during psychology lectures. Vop.psikhol.2 no.5:152-
158 S-O '56. (MIRA 10:1)

(Psychology--Study and teaching)

NOVOMYXSKY, A.S.

MIRONOSITSKAYA, R.V.; NOVOMYSKIY, A.S.

Industrial work practice of students in a metallurgical plant.
Politekh. obuch. no.9:11-17 S '57. (MLRA 10:9)

1. Srednyaya shkola No.74, Sverdlovsk.
(Education, Cooperative)