TARNOPOL'SKIY, V.G.[Tarnopol's'kyi, V.H.]

Absolutely indefinite case for a difference operator with operator coefficients. Dop.AN URSR no.3:305-308 '60. (MIRA 13:7)

1. Kiyevskiy pedagogicheskiy institut im. O.M.Gor'kogo. Predstavleno akademikom AN USSR B.V.Gnedenko [B.V.Hniedenko].
(Operators(Mathematics))

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

88398

S/020/61/136/004/004/026
C111/C222

16.3900

AUTHOR: Tarnopol'skiy, V.G.

TITLE: The Dispersion Problem for Difference Equations

PERIODICAL: Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 4, pp. 779 - 782

TEXT: The author considers the difference equation

(1) $$1/2\,(u_{j+1} + u_{j-1}) + c_j u_j = \lambda u_j$$

where $u_j (-\infty < j < +\infty)$ is the sought sequence of complex numbers, $|\lambda| < 1$, $\mathrm{Im}\ \lambda = 0$. Let the c_j be real and $c_j = O(1/|j|^{1+\varepsilon})$, $\varepsilon > 0$, for $|j| \to \infty$.

Problem: Find a solution of (1) having the form

(2) $$u_j = e^{\nu i j \theta} + v_j^{(\nu)}(\lambda)$$

($\theta = \arccos \lambda$, $\nu = \pm 1$), where the $v_j^{(\nu)}(\lambda)$ satisfy the radiation conditions

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C111/C222

The Dispersion Problem for Difference Equations

$$v_{j+1}^{(\nu)}(\lambda) - e^{-i\vartheta} v_j^{(\nu)}(\lambda) = O(1) \quad \text{for } j \to +\infty$$

(3)

$$v_{j+1}^{(\nu)}(\lambda) - e^{i\vartheta} v_j^{(\nu)}(\lambda) = O(1) \quad \text{for } j \to -\infty$$

Theorem 1 asserts that the problem has a unique solution. Theorem 2 considers the inverted problem and states that if in two points $j = n$, $n+1$ $(n > n_0)$ for all λ, $|\lambda| < 1$, the scattered wave $v_j^{(1)}(\lambda)$ is known and if the jumps of the spectral matrix for $|\lambda| \geq 1$ are known then the equation (1) which corresponds to these data is uniquely determinable. Here in theorem 2 it is assumed that $c_j = 0$ for $|j| \geq n_0$.

Let H be a Hilbert space in which an involution is given. The author considers

(11) $\quad {}^1/_2(u_{j+1} + u_{j-1}) + c_j u_j = \lambda u_j$

The Dispersion Problem for Difference Equations

$(-\infty < j < +\infty)$, where $u_j \in H$, $|\lambda| < 1$ and C_j are bounded, selfadjoint and real (i.e. preserving the involution) operators in H. Let $C_j = 0$ for $|j| \geq n_0$.

Problem : For the given $x \in H$, $\|x\| = 1$, find a solution

(12) $$u_j = xe^{\nu ij\theta} + v_j^{(\nu)}(\lambda ; x)$$

of (11), where $\theta = \arg\cos\lambda$; $\nu = \pm 1$, and the sequence $v_j^{(\nu)}(\lambda, x) \in H$ satisfies the radiation conditions

(13) $$\|v_{j+1}^{(\nu)}(\lambda ; x) - e^{-i\theta} v_j^{(\nu)}(\lambda ; x)\| = o(1) \quad \text{for} \quad j \to +\infty$$
$$\|v_{j+1}^{(\nu)}(\lambda ; x) - e^{i\theta} v_j^{(\nu)}(\lambda ; x)\| = o(1) \quad \text{for} \quad j \to -\infty .$$

The theorems 3 and 4 contain the same assertions for (11) as the theorems 1 and 2 for (1).

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C111/C222

The Dispersion Problem for Difference Equations

The author thanks Yu.M. Berezanskiy for the theme and advices.
There are 7 references : 6 Soviet and 1 French.

ASSOCIATION: Krivorozhskiy gosudarstvennyy pedagogicheskiy institut
(Krivoy Rog State Pedagogical Institute)

PRESENTED: September 16, 1960, by S.L. Sobolev, Academician

SUBMITTED: September 14, 1960

Card 4/4

TARNOPOL'SKIY, V.G.

Sufficient conditions of the self-adjointness of difference operators with operator coefficients. Pribl.metod.resh.diff. urav. no.2:140-158 '64. (MIRA 18:4)

TARNOPOL'SKIY, YA.I.

TARNOPOL'SKIY, Ya.I.,

Conference on the prevention of occupational accidents in the lumbering industry in the Tatar A.S.S.R. Ortop.travm. i protez. no.2:85 Mr-Ap '55. (MLRA 8:10)
(TATAR A.S.S.R.--LUMBERING--SAFETY MEASURES)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Ya.I.; YAKUPOVA, N.S.

Results of rehabilitation therapy for veterans of World War II in Tatar A.S.S.R. (1945-54) Ortop.travm. i prtez. no.5:66-69 S-O '55. (MLRA 9:12)

1. Iz Kazanskogo nauchno-issledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii (dir. - zasluzhennyy deyatel' nauki TASSR prof. L.I.Shulutko)

(REHABILITATION
in Russia, veterans of World War II in Tatar ASSR)
(VETERANS
in Russia, rehabil. of veterans of World War II in Tatar ASSR)

TARNOPOL'SKIY, Ya.I. (Kazan')

Role of intermediate medical personnel in the prevention of injuries in the petroleum industry. Fel'd. i akush. 21 no.6:21-24 Je '56. (MIRA 9:9)

(PETROLEUM INDUSTRY--SAFETY MEASURES)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Ya.I., Cand Med Sci -- (diss) "Materials for the Study of Traumatism and Traumatological Aid in the city of Kazan'." Kazan', 1957. 20 pp.(Kazan' State Med Inst, Kazan' State Sci Res Inst of Rehabilitation Surgery and Orthopedics), 300 copies (KL, 49-57, 116)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Ya.I.

Classification of injuries. Ortop., travm. i protez. 18 no.2:16-20 Mr-Ap '57. (MLRA 10:8)

1. Iz organizatsionno-metodicheskogo sektora (zav. - Ya.I.Tarnopol'skiy) Kazanskogo nauchno-issledovatel'skogo instituta vosstanovitel'noy khirurgii i ortopedii (dir. - zasluzhennyy deyatel' nauki Tatarskoy ASSR prof. L.I.Shulutko)
(WOUNDS AND INJURIES
classif.)

SHULUTKO, L.I., prof.; TARNOPOL'SKIY, Ya.I., kand.med.nauk

Organization of measures to control agricultural injuries under the new conditions. Sov.med. 23 no.8:132-135 Ag '59. (MIRA 12:12)

1. Iz Kazanskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - prof. L.I. Shulutko).
(AGRICULTURAL WORKERS wounds & inj.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

SHULUTKO, L.I., prof.; TARNOPOL'SKIY, Ya.I., kand.med.nauk

Prevention of industrial accidents in the petroleum industry of the Tatar A.S.S.R. Kaz.med.zhur. no.5:74-77 S-O '60. (MIRA 13:11)

1. Iz Kazanskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii.
(TATAR A.S.S.R.--PETROLEUM INDUSTRY AND TRADE--ACCIDENTS)

TARNOPOL'SKIY, Ya.I. (Kazan')

Interprovince conference on accident prevention in the petroleum industry. Zdrav. Ros. Fedér. 4 no.7:43-44 Je '60. (MIRA 13:9)
(PETROLEUM INDUSTRY--ACCIDENTS)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

SHULUTKO, L.I., zasluzhennyy deyatel' nauki, prof.; TARNOPOL'SKIY, Ya.I., kand.meditsinskikh nauk

Basic principles in the prevention of agricultural injuries under new conditions. Ortop. travm. i protez, 21 no. 7:66-71 Jl '60. (MIRA 13:10)

1. Iz Kazanskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - prof. L.I. Shulutko).
(AGRICULTURE—ACCIDENTS)

TARNOPOL'SKIY, Yu.

Conference on elastic oscillation problems; a review. Vestis Latv ak no.2:201-202 '60. (EEAI 10:1)
(Oscillations) (Elasticity)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Yu.

Conference concerning the problems of elastic oscillations of mechanical systems. Vestis Latv ak no.9:177-180 '60.
(EEAI 10:9)

(Elasticity) (Oscillations) (Mechanics)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

24114
S/197/61/000/004/001/004
B101/B229

14.4200

AUTHOR: Tarnopol'skiy, Yu.

TITLE: Application of parametric methods to determine the fatigue limit of plastics

PERIODICAL: Izvestiya Akademii nauk Latviyskoy SSR, no. 4, 1961, 61-66

TEXT: The author treats the problem of the fatigue limit of plastics. The limit of the short-sided static strength is, as a result of its dependence on time and temperature, not sufficient to characterize the strength at constant stress with accuracy. Therefore, for the strength calculation of plastics, not only one curve, but a family of curves is required which, however, is not available at present for plastics used in machine construction, such as K-6 (K-6), AT-4B (AG-4V), AT-4C (AG-4S). In order to avoid a long-drawn-out experimental determination of these curves the parametric method according to F. R. Larson, J. Miller (Ref.15, see below), is recommended, which starts from the function: $\sigma = f(p)$. (σ = fatigue limit, p = parameter, a function of temperature T, and time τ). For this Larson-Miller parameter, it is indicated: $p = T(C + \log \tau) = Q(\sigma)$ ... (1). C is a

Card 1/3

Application of parametric ...

material constant, $Q(\sigma)$ is the activation energy depending on stress. With σ = const, p = const. Reference is made to the relative papers by S. Goldfein (Refs.10-12, see below), and W. E. Gloor (Ref.9, see below), and from a paper by S. N. Zhurkov (Ref.8: Zh. tekhn. fiziki, 1958, 28) the function is indicated $\tau = \tau_0 \exp (U_0 - \gamma\sigma)/RT$ (2), where τ_0, U_0, and γ are material constants. R is the Boltzmann constant. By taking the logarithm of (2), and substituting new marks, it can be shown that there is a connection between the Larson-Miller parameter and σ : $\sigma = a - kp$ (3). As a result of Eq. (3) it is possible to construct $a\sigma$, p diagram from short-termed strength tests, and to determine from this the carrying capacity of plastics dependent on time. There are 5 figures and 17 references: 8 Soviet-bloc and 9 non-Soviet-bloc. The 4 most important references to English-language publications read as follows: F. R. Larson, J. Miller, Transactions Am. Soc. Mech. Engrs.. 1952, v. 74, no. 765 - 777; S. Goldfein, Proceedings ASTM, 1957, v. 54; ASTM Bulletin 1957, No. 224, Sept, and No. 225 Oct.; W. E. Gloor, Modern Plastics, v. 36 (Oct. 1958).

ASSOCIATION: Institut avtomatiki i mekhaniki AN Latv. SSR (Institute of Automation and Mechanics, AS Latviyskaya SSR)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

24214
S/197/61/000/004/001/004
B101/B229

Application of parametric ...

SUBMITTED: December 23, 1960

Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Yu.I.; BELOV, V.N. [deceased]

Oxygen-containing heterocycles. Part 1: Alkenylation of furan with diene chlorides. Zhur.org.khim. 1 no.3:595-598 Mr '65. (MIRA 18:4)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

BELOV, V.N. [deceased]; TARNOPOL'SKIY, Yu.I.

Reaction of butyrolactone with organomagnesium compounds. Zhur. org. khim. 1 no.4:634-636 Ap '65. (MIRA 18:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Yu. M.

TARNOPOL'SKIY, Yu. M.: "The strength and rigidity of the basic connections on a velocipede." Min Higher Education USSR. Latvian State U. Riga, 1956. (Dissertation for the Degree of Candidate in Technical Sciences.)

Source: Knizhnaya letopis' No 40 1956 Moscow

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

SOV/124-58-2-2214

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 100 (USSR)

AUTHOR: Tarnopol'skiy, Yu. M.

TITLE: The Three-dimensional Working of a Curved Beam in a Generalized Elastic Medium (Prostranstvennaya rabota krivogo brusa v obobshchennoy uprugoy srede)

PERIODICAL: Izv. AN LatvSSR, 1957, Nr 1, pp 111-120

ABSTRACT: An examination of the problem of the bending and torsion of a plane circular beam contained in a continuous elastic medium. The latter is characterized by its property that the reaction forces and moments developed at each point of the axis of the beam are determined by the linear combination of the corresponding displacements in the direction of the binormal and the angle of rotation of the section relative to the tangent to the axis of the circular beam. A fundamental differential equation is obtained for the problem relative to a beam having a constant cross section and an elastic medium having constant elastic characteristics. The author examines the stress analysis of a bicycle-wheel rim, wherein the spokes are treated as a continuous generalized elastic footing.

D. V. Vaynberg

Card 1/1

TARNOPOL'SKIY, Yu. M.

"Bending of Beams with Straight and Circular Axes on An Elasto-plastic Basis." Voprosy dinamiki i prochnosti (Problems of Dynamics and Strength), Riga, Izd-vo AN Latviyskoy SSR, 1958, 178 pp. (Sbornik Statey, Inst. Mashinovedeniya, AN Lat SSR, vyp. 5)

The book is a collection of ten research papers, prepared by members of Acad. Sci. Lat SSR, Latvian State University and the Riga Red Banner Higher Military School for Aeronautical Engineering im. K. E. Voroshilov.

PHASE I BOOK EXPLOITATION SOV/3927

Akademiya nauk Latviyskoy SSR. Institut mashinovedeniya

Voprosy dinamiki i prochnosti; sbornik statey; vyp. VI (Problems of Dynamics and Strength; Collection of Articles, No. 6) Riga, Izd-vo AN Latviyskoy SSR, 1959. 159 p. Errata slip inserted. 1,500 copies printed.

Ed.: A. Vengranovich; Tech. Ed.: A. Klyavinya; Editorial Board: Ya.G. Panovko, Corresponding Member, Academy of Sciences Latviyskaya SSR, Professor, Doctor of Technical Sciences (Resp. Ed.); S.B. Ayntinder, Docent, Candidate of Technical Sciences; and N.G. Kalinin, Docent, Candidate of Technical Sciences.

PURPOSE: This book is intended for mechanical engineers and technical workers.

COVERAGE: The book presents 10 articles on problems related to shock absorbers, railroad cars, thin shelled bars, crane structures, automatic balancing, oscillations, and the performance of mechanical presses. The authors are technical or scientific workers at the Institut mashinovedeniya Akademii nauk Latviyskoy SSR (Institute of Science of Machines of the Academy of Sciences Latviyskaya SSR), at the Rizhskiy politekhnicheskiy institut (Riga Polytechnic Institute), and at the Rizhskoye Krasnoznamennoye vyssheye aviatsionnoye voyennoye uchilishche imeni Leninskogo komsomola (Riga Red Banner Higher Military Aviation School imeni Leninskiy Komsomol). No personalities are mentioned. References are given following each article except one.

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AVAILABLE: Library of Congress

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(7)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

PHASE I BOOK EXPLOITATION SOV/5367

Mutsenek, Karl Yanovich, and Yuriy Matveyevich Tarnopol'skiy

Puti snizheniya vesa mashin i ekonomii metalla v mashinostroyenii (Ways of Decreasing the Weight of Machinery and Economizing on Metal in the Machine Industry) Riga, Izd-vo AN Latviyskoy SSR, 1960. 111 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Latviyskoy SSR. Institut mashinovedeniya.

Ed.: Ye. Savel'yeva; Tech. Ed.: Ye. Piladze.

PURPOSE: This book is intended for technical personnel and designers in the machine-building industry.

COVERAGE: Methods are discussed for economizing on metal in machine building by reducing the weight of machines. In this connection the designing of the machine, the proper selection of materials, and various manufacturing processes are taken into consideration.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

This booklet is an expanded and revised version of the authors' original work, published in Latvian in 1956. No personalities are mentioned. There are 25 references, all Soviet.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Yu.M.; AKUNTS, K.A.; PETROV, A.V.

Use of plastic materials in the construction of collectors of electrical machinery. Plast.massy no.10:44-46 '61. (MIRA 15:1)
(Electric machinery) (Plastics)

S/196/61/000/011/025/042
E194/E155

AUTHORS: Fish, A.Ya., Tarnopol'skiy, Yu.M., Petrov, A.V., and Akunts, K.A.

TITLE: Electrical machine commutators with plastic frames

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.11, 1961, 4, abstract 11I 29. (Vestn. elektroprom-sti, 32, no.4, 1961, 22-26)

TEXT: The article describes two new constructions of commutator with plastic frame and copper bars having both one and several V-pieces. A structural feature of the first type is that the V-pieces by which the bars are fixed to the plastic frame are formed in the cross-section of the copper bar over its entire width. When the bar is more than 4 - 5 mm thick the longitudinal V-piece is made continuous, and for small thicknesses discontinuous. Then the cut-away pieces in neighbouring bars are so arranged in honeycomb fashion as to avoid the possibility of contact between bars when pressing the commutator frame and to ensure that the jumpers are thick enough. A feature of the

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

Electrical machine commutators ... S/196/61/000/011/025/042
E194/E155

commutator with multiple V-pieces is that the part of the copper bar fixed in the plastic frame is made in the form of several V-pieces. In addition to the lugs at the end the copper bar may have one or several intermediate support elements. This construction of commutators on plastic frames gives an appreciable economy of copper and micanite without loss of structural strength. 5 illustrations. 8 literature references.

[Abstractor's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Yu.M.; PETROV, A.V.; AKUNTS, K.A.; Prinimali uchastiye: KAULINYA, R.P., mladshiy nauchnyy sotrudnik; KONSHEV, A.V., inzh.

Effect of compression parameters on the strength of the plastic AG-4. Plast.massy no.4:65-67 '62. (MIRA 15:4)
(Plastics--Molding)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

FISH, Aron Yakovlevich; TARNOPOL'SKIY, Yuriy Matveyevich; AKUNTS, Karlen Armenakovich; PETROV, Aleksandr Vasil'yevich; POPOV, K.K., red.; BUL'DYAYEV, N.A., tekhn. red.

[Collectors of electrical machines using plastic materials] Kollektory elektricheskikh mashin na plastmasse. [By]A.IA. Fish i dr. Moskva, Gosenergoizdat, 1963. 191 p. (MIRA 16:4)

(Electric machinery) (Plastics)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOPOL'SKIY, Yu.M.; PORTNOV, G.G.

Investigation of the process of compression molding of parts made of glass plastics. Plast. massy no.11:19-23 '63.
(MIRA 16:12)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

FISH, A.Ya., inzh.; TARNOPOL'SKIY, Yu.M., kand.tekhn.nauk

Choice of the height of the collector plate. Vest. elektroprom. 34 no.4:66-68 Ap '63. (MIRA 16:10)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

ACC NR: AP6013474 (A) SOURCE CODE: UR/0374/66/000/002/0278/0284

AUTHOR: Tarnopol'skiy, Yu. M.; Portnov, G. G.

ORG: Institute of the Mechanics of Polymers, Academy of Sciences, Latvian SSR, Riga (Institut mekhaniki polimerov Akademii nauk Latviyskoy SSR)

TITLE: Change in winding tension during filament winding of glass reinforced plastic products

SOURCE: Mekhanika polimerov, no. 2, 1966, 278-284

TOPIC TAGS: filament winding, filament wound construction, glass reinforced plastic

ABSTRACT: A filament winding process for prestressed oriented reinforced plastics has been investigated. It was shown that the essential anisotropy of the properties of these materials is the cause of a change in the initially predetermined winding tension. Based on the assumption that the materials exhibit linear-elastic behavior, the distribution of winding tension was investigated for the case of the winding of a ring onto a rigid mandrel. A calculation method is proposed for determining the change in winding tension and the critical number of turns above which the pressure on the mandrel remains constant. Orig. art. has: 12 formulas and 6 figures. [SM]

SUB CODE: 11/ SUB DATE: 30Oct65/ ORIG REF: 007/ OTH REF: 003

Card 1/1 UDC: 678:539.370

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

L 02141-67 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6032716 SOURCE CODE: UR/0374/66/000/004/0535/0542

AUTHOR: Tarnopol'skiy, Yu. M.; Roze, A. V.

ORG: Institute of the Mechanics of Polymers, Academy of Sciences, LatSSR, Riga (Institut mekhaniki polimerov Akademii nauk LatSSR)

TITLE: Bending strength of oriented glass-reinforced plastics

SOURCE: Mekhanika polimerov, no. 4, 1966, 535-542

TOPIC TAGS: glass reinforced plastics, shear strength, shear resistance, stress distribution, bending failure, elasticity, glass coating, reinforced plastic/AG-4S plastic, 27-635 plastic, EF32-301 plastic

ABSTRACT: A study has been made of the effect of the low shear strength and shear resistance of oriented glass-reinforced plastics on stress distribution and type of bending failure. On the basis of relationships, derived in an earlier study [Tarnopol'skiy, Yu. M., A. V. Roze, and V. A. Polyakov. Mekh. polim., 1965, 2, 38] it was shown that the effect of shears on the magnitude and the distribution of normal and tangential stresses is essential only for very short beams made with materials having low shear resistance. Experimental study of the type of bending failure showed that the main cause of widening of the shear failure region of oriented glass-reinforced plastics is the low shear

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UDC: 678:539.41

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

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ACC NR: AP6032716

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strength of the material. The study has made it possible to establish the boundaries of this region for three brands of glass-reinforced plastics series produced in the Soviet Union (AG-4S, 27-63S, and EF32-301). Anisotropy of elastic properties was shown to produce a negligible effect on the type of the bending failure. Orig. art. has: 6 figures and 2 tables. [BO]

SUB CODE: 11/ SUBM DATE: 23Feb66/ ORIG REF: 008/ OTH REF: 002

Card 2/2

S/114/62/000/008/003/006
E194/E455

AUTHORS: Tarnopol'skiy, Yu.Ya., Engineer, Nemtsev, A.D., Engineer

TITLE: Model blades of plastic grade ACT-T (AST-T)

PERIODICAL: Energomashinostroyeniye, no.8, 1962, 26-27

TEXT: In 1959, the KhTGZ im. Kirova commenced making blades for turbine models of acrylic plastic grade AST-T (the initials denote acrylic, self-hardening, technical) for which the ratio of ultimate tensile strength to specific gravity equals 605 x 10^3 kgm/kg. The ultimate strength (kg/cm^2) is: in tension 600 to 800; in bending 800 to 1200; in shear 460. The impact strength, kgm/cm^2 equals 0.12 and the specific gravity 1.16 to 1.18 g/cm^3. The operating temperature is up to 60°C. The pattern blade is made of steel, duralumin or brass, the press mould of Woods metal. A 3:1 mixture of plastic polymer powder and fluid is pressed at 35 to 40°C for 10 min. One mould can make 100 blades. The scatter of blade thickness did not exceed 0.04 to 0.06 mm. The blade surfaces were polished after moulding. One of several examples mentioned is a compressor runner 200 mm

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diameter; the T-shaped roots of the plastic blades were secured in the slots with carbonyl adhesive. In overspeed tests the blades failed at 16000 rpm which corresponds to calculations. The blades ran for a total of four hours with a maximum peripheral speed of 168 m/sec. Moisture and dirt in the works compressed-air supply sometimes eroded the leading edges of the blades and in future it is proposed to clean the air. For a model compressor with an external diameter of 250 mm, blades made from plastic are about one tenth of the cost of blades made of steel grade 1X13 (1Kh13) by the usual works methods and cost between a half and a third that of blades cast of aluminium alloys. The saving is due to the simplicity of manufacture rather than the cheaper material. The only practical limitation is that the operating temperature should not exceed 60°C. There are 3 figures.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNORUDER, Yu.F.

Conference of young cybernetics. Priroda 54 no.9:120-121 S '65.
(MIRA 18:9)

1. Vneshtatnyy korrespondent zhurnala "Priroda", Kiyev.

MAJOR, Laszlo, dr.; BALOGH, Antal, dr.; S. TARNOTZKY, Klara, dr.; DEVECSERI, Beno, dr.

Group intoxication with methyl alcohol. Orv. hetil. 102 no.49:2327-2331 3 D '61.

1. Szabolcs-Szatmar Megyei Tanacs Korhaza, Nyiregyhaza, I es II Belgyogyaszat, Szemeszeti es Gyermekgyogyaszati Osztaly.

(ALCOHOL METHYL toxicol)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

ZEMPLENI, Bela; TARNOTZKY, Klara; EGYUD, Kamillo

Disorders of the eye in massive poisoning with methyl alcohol.
Szemeszet 98 no.3:136-140 S '61.

1. A Szabolcs-Szatmar Megyei Tanacs korhaza (igazgato foorvos: Lengyel Ferenc) szemeszeti osztalyanak (foorvos: Zempleni Bela) kozlemenye.

(ALCOHOL METHYL toxicol) (EYE pathol)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVA, L. V.

"Carp in Ili River Delta Reservoirs and Their Utilization." Cand Biol Sci, Inst of Zoology, Acad Sci Kazakh SSR, Alma-Ata, 1954. (RZhBiol, No 2, Jan 55

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum. 508, 29 Jul 55

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K.

YATSENKO, I.P., professor, redaktor; MEYSAKHOVICH, Ya.A., kandidat sel'skokhozyaystvennykh nauk, redaktor; PUSHIN, F.Ye., kandidat sel'skokhozyaystvennykh nauk, redaktor; TARNOVICH, N.K., inzhener, redaktor

[Use of machinery in the control of pests and diseases of agricultural crops; proceedings of the 21st plenum of the Plant Control Section] Mekhanizatsiia bor'by s vrediteliami i bolezniami sel'skokhoziaistvennykh kul'tur; trudy XXI plenuma Sektsii zashchity rastenii. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1953. 209 p. (MLRA 10:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina. Sektsiya zashchity rasteniy.
(Plant diseases) (Agricultural pests)
(Agricultural machinery)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K., inzhener-mekhanik; OSTROUMOV, G.M., inzhener-mekhanik.

Experimental examination of the operation of plungers of pumps used in spraying. Sel'khozmashina no.12:18-21 D '53.
(MLRA 6:12)

1. Vsesoyuznyy institut zashchity rasteniy (for Tarnovich).
2. Zavod im. Libknekhta (for Ostroumov).
(Spraying and dusting equipment)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K., inzhener-mekhanik.

Wear of plungers of sprayer pumps. Sel'khozmashina no.1:18-21 Ja '55. (MLRA 8:3)

1. Vsesoyuznyy institut zashchity rasteniy.
(Pumping machinery)(Spraying and dusting equipment)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K.

TARNOVICH, N.K., kandidat sel'skokhozyaystvennykh nauk

Research on the process of chemical control of weeds in grain crops. Sel'khozmashina no.5:14-17 My '55. (MLRA 8:6)

1. Vsesoyuznyy institut zashchity rasteniy.
(Spraying and dusting equipment) (Weed control)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K., kandidat sel'skokhozyaystvennykh nauk.

Truck-mounted sprayer. Sel'khozmashina no.11:8-9 N '55.

1.Vsesoyuznyy institut zashchity rasteniy.
(Spraying and dusting equipment)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

VOYEVODIN, A.V.; TARNOVICH, M.K.

Increasing the effectiveness of chemical weed control in grain fields. Dokl.Akad.sel'khoz.21 no.6:18-21 '56. (MLRA 9:9)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy. Predstavlena sektsiyey zashchity rasteniy Vsesoyuznoy ordena Lenina akademii sel'skokhozyystvennykh nauk imeni V.I.Lenina.
(Weed control) (Spraying and dusting)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, M.K., kand.tekhn.nauk.

Investigating the jet of high-capacity nozzles. Sel'khozmashina no.7:25-28 Jl '57. (MIRA 11:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy.

(Spraying and dusting equipment)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K.

Stages of the development of mechanization. Zashch. rast. ot vred. i bol. 2 no.6:34-36 N-D '57. (MIRA 16:1)
(Agricultural machinery) (Plants, Protection of)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K.

Some problems of the mechanization of plant protection in the seven-year plan. Zashch. rast. ot vred. i bol. 4 no.5:17-18 S-O '59. (MIRA 16:1)

1. Zaveduyushchiy laboratoriyey mekhanizatsii Vsesoyuznogo instituta zashchity rasteniy.
(Plants, Protection of)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K.

New machines. Zashch.rast.ot vred.i bol. 4 no.6:19-21 N-D '59.
(MIRA 15:11)

1. Zaveduyushchiy laboratoriyey mekhanizatsii Vsesoyuznogo instituta zashchity rasteniy.
(Spraying and dusting equipment)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N. K.

Improve the working out of specifications for agricultural machinery. Zashch. rast. ot vred. i bol. 5 no.11:20-21 N '60. (MIRA 16:1)

(Spraying and dusting equipment)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

CHIGAREV, G. A.; TARNOVICH, N. K.; STAROSTIN, S. P.; BONCH, E. I.

Disinfecting seeds with atomized suspensions. Zashch. rast. ot vred. i bol. 5 no.6:15-16 Je '60. (MIRA 16:1)

(Seeds—Disinfection)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K.; OSTROUMOV, G.M.

Study of spray nozzles. Trakt. i sel'khozmash. 32 no.5:33-35 My '62. (MIRA 15:5)

1. Vsesoyuznyy institut zashchity rasteniy.
(Spraying and dusting equipment)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, N.K.

Present state of mechanization in chemical plant protection.
Trudy VIZR no.17:378-391 '63. (MIRA 18:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVICH, Nikolay Konstantinovich; ZOTOVA, L.A., red.

[Mechanization of the chemical protection of plants] Mekhanizatsiia khimicheskoi zashchity rastenii. Moskva, Znanie, 1964. 32 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.22) (MIRA 17:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKA, K.

The plant tip and its role in carotin biosynthesis of tomato leaves. Doklady BAN 15 no.5:555-557 '62.

1. Submitted by Academician A. Popoff [Popov, A.].

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

ACCESSION NR: AP4043559 S/0146/64/007/004/0009/0015

AUTHOR: Kapustina, T. P.; Porokhova, T. G.; Tarnovskaya, L. V.

TITLE: Structure of the surface layer of silicon and germanium ground plates

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 4, 1964, 9-15

TOPIC TAGS: semiconductor, semiconductor surface, semiconductor crystal, germanium surface, silicon surface

ABSTRACT: The surface layer with a disturbed (by grinding) crystal structure comprises three zones: (1) an outer relief zone consisting of randomly arranged ridges and valleys; (2) the thickest zone with single chips and deep cracks; and (3) a single-crystal zone without mechanical faults but with elastic deformations. Two first zones were experimentally investigated; both probe-type profilometers and interferention microprofilometers (design suggested by A. N. Zakhar'yevskiy) were used for studying the first zone; finer studies were made by optical and

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ACCESSION NR: AP4043559

electron microscopes. The depth of each zone was determined by successively polishing off the surface and accurately weighing the specimen. Some results of grinding by carborundum, boron carbide, quartz, artificial corundum, glass, and polyvinyl chloride are reported. The thickness values of the first and second zones obtained by grinding with M14—M5 abrasives are tabulated. Orig. art. has: 5 figures and 3 tables.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Fine Mechanics and Optics)

SUBMITTED: 07Feb64 ENCL: 00

SUB CODE: EC NO REF SOV: 005 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

L 08954-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/GG

ACC NR: AP6009185 SOURCE CODE: UR/0146/65/008/005/0152/0157

AUTHOR: Kapustina, T. P.; Porokhova, T. G.; Tarnovskaya, L. V.

ORG: Leningrad Institute of Fine Mechanics and Optics (Leningradskiy institut tochnoy mekhaniki i optiki)

TITLE: Structure of surface layer of polished silicon slabs

SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 5, 1965, 152-157

TOPIC TAGS: crystalline silicon, silicon single crystal, metal polishing

ABSTRACT: The tentative results are reported of a study of the Si-slab surface relief after the surface has been mechanically polished; "polirit," crocus, and oxides of Th, Ce, Cr, Al, Ti were used as polishing materials. The surface microroughness was measured by a multibeam interferometer; a minimum surface irregularity of 100 Å could be detected. The best polishing results were

Card 1/2 UDC: 621.315.592

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

L 08954-67

ACC NR: AP6009185 O

obtained with a very fine chromium oxide. The deepest (300--1000 Å) microchecks were formed when the Si surface was polished by a coarse chromium oxide. Polishing wheels made from pitch-colophony, butylmethacrylate, polyvinyl chloride, and caprone netting were tested; the polyvinyl-chloride and pitch-colophony wheels left deeper scratches (up to 430 Å) on the Si surface than other wheel materials. The absence of Si-crystal destruction at depths of 500-1000 Å was proven by etching off the polished surface layer and examining the crystal on a 40000x electron microscope. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 20 / SUBM DATE: 24Sep64 / ORIG REF: 001 / OTH REF: 007

Card 2/2 not

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

KAPUSTINA, T.P.; POROKHOVA, T.G.; TARNOVSKAYA, L.V.

Structure of the surface layer of polished silicon plates.
Izv. vys. ucheb. zav.; prib. 8 no.5:152-157 '65.
(MIRA 18:10)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy teorii opticheskikh priborov.

Tarasov Skaya, T. P.

28(0); 10(2); 25(2) PHASE I BOOK EXPLOITATION SOV/2036

Moscow. Vysshaye tekhnicheskoye uchilishche imeni N. E. Baumana

Mekhanika; sbornik statey (Mechanics; Collection of Articles) Moscow, Oborongiz, 1959. 119 p. (Series: Its: Trudy vyp. 92) 3,400 copies printed. Errata slip inserted.

Ed. (Title page): V. V. Dobronravov, Doctor of Physical and Mathematical Sciences, Professor; Ed. (Inside book): Ye. V. Latynin, Engineer; Ed. of Publishing House: L. I. Sheynfeyn; Tech. Ed.: V. P. Rezchik; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for scientific and research personnel, engineers, and students of advanced courses at instrument-making and machine design vuzes.

COVERAGE: This volume deals with problems frequently encountered in modern instrument making and in designing specialized machines and includes general theory of automatic control, vibrations, theoretical and applied gyroscopy, stability of motion, etc. Abstracts of the individual articles are given in the Table of Contents.

AVAILABLE: Library of Congress

Card 6/6

IS/lsb
8-11-59

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKAYA, M.P., assistant

Determining the minimum size of a cam mechanism with a rotating cam and a rocking rod. [Trudy] MVTU no.92:108-113 '59.
(MIRA 12:10)

(Cams)

TARNOVSKAYA, M.P., assistant

Designing the optimum profile of the cam of a cam mechanism with a rotating cam and an advancing rod. [Trudy] MVTU no.92:114-118 '59. (MIRA 12:10)

(Cams)

TARNOVSKIY, A.; FEDOSOV, A.I., dotsent, nauchnyy rukovoditel'

Polarization of a conductive cylinder in a homogenous electric field. Uch.zap.Kuib.gos.ped.inst. no.37:3-9 '62. (MIRA 16:1)

(Electric fields) (Polarization (Electricity))

TARNOVSKIY, A.I., inzh.; SHUKHMAN, D.I., inzh.

Manufacture of peat semibriquets in White Russia. Torf. prom. 36 no.7:16-18 '59. (MIRA 13:3)

1.Sovnarkhoz BSSR.
(White Russia--Peat)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, A.I.

Peat industry of the Economic Council of the White Russian S. S. R. and the 22d Congress of the CPSU. Torf. prom. 38 no.6: 1-5 '61. (MIRA 14:9)

1. Upravleniye torfyanoy promyshlennosti soveta narodnogo khozyaystva BSSR.

(White Russia--Peat industry)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

ACC NR: AP6018012 (N) SOURCE CODE: UR/0413/66/000/010/0126/0126

INVENTORS: Lyubavskiy, K. V.; L'vova, Ye. P.; Sukhov, L. V.; Yarovinskiy, L. M.; Tarnovskiy, A. I.; Ryabchenkov, A. V.; Gerasimov, V. I.; Iodkovskiy, S. A.

ORG: none

TITLE: Welding electrode. Class 49, No. 181968 [announced by Scientific Research Institute of Technology and Machine Construction (Nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 126

TOPIC TAGS: welding, welding electrode, austenite steel, carbon, silicon, manganese, chromium, nickel, molybdenum, niobium, sulfur, phosphorus

ABSTRACT: This Author Certificate presents a welding electrode for welding austenite steels containing carbon, silicon, manganese, chromium, nickel, molybdenum, niobium, sulfur, and phosphorus. To increase the resistance of welded seam to corrosion, the electrode composition is taken in the following percent relationship: carbon—not over 0.05; silicon—not over 0.45; manganese 2—10; chromium 19—25; nickel 33—50; niobium 0.8—1.2; molybdenum 2.5—7.5; sulfur or phosphorus—not over 0.02 of each.

SUB CODE: 13/ SUBM DATE: 29Apr65

Card 1/1 UDC: 621.791.042.2

GORBUTOVICH, G.D., inzh.; PAREMSKIY, B.D., inzh.; TARNOVSKIY, A.I., inzh.

Manufacture and use of peat-mineral-ammonium fertilizers in the White Russian S.S.R. during 1961. Torf.prom. 39 no.3:11-14 '62. (MIRA 15:4)

1. Gosplan BSSR (for Gorbutovich). 2. Gosudarstvennyy komitet Sovet Ministrov BSSR po koordinatsii nauchno-issledovatel'skikh rabot (for Paremskiy). 3. Sovnarkhoz BSSR (for Tarnovskiy).
(White Russia--Fertilizers and manure) (Peat)

PHASE I BOOK EXPLOITATION SOV/5053

Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh. 3d, 1958.

Iznos i iznosostoykost'. Antifriktsionnyye materialy (Wear and Wear Resistance. Antifriction Materials) Moscow, Izd-vo AN SSSR, 1960. 273 p. Errata slip inserted. 3,500 copies printed. (Series: Its: Trudy, v. 1)

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya.
Resp. Ed.: M. M. Khrushchov, Professor; Eds. of Publishing House: M. Ya. Klebanov, and S. L. Orpik; Tech. Ed.: T. V. Polyakova.

PURPOSE: This collection of articles is intended for practicing engineers and research scientists.

COVERAGE: The collection, published by the Institut mashinovedeniya, AN SSSR (Institute of Science of Machines, Academy of Sciences USSR) contains papers presented at the III Vsesoyuznaya Konferentsiya po treniyu i iznosu v mashinakh (Third All-Union Conference on Friction and Wear in Machines) which was held April 9-15, 1958. Problems discussed were in 5 main areas: 1) Hydrodynamic Theory of Lubrication and Friction Bearings (Chairmen: Ye. M. Gut'yar, Doctor of Technical Sciences, and A. K. D'yachkov, Doctor of Technical Sciences); 2) Lubrication and Lubricant Materials (Chairman: G. V. Vinogradov, Doctor of Chemical Sciences); 3) Dry and Boundary Friction (Chairmen: B. V. Deryagin, Corresponding Member of the Academy of Sciences USSR, and I. V. Kragel'skiy, Doctor of Technical Sciences); 4) Wear and Wear Resistance (Chairman: M. M. Krushchov, Doctor of Technical Sciences); and 5) Friction and Antifriction Materials (Chairmen: I. V. Kragel'skiy, Doctor of Technical Sciences, and M. M. Krushchov, Doctor of Technical Sciences). Chairman of the general assembly (on the first and last day of the conference) was Academician A. A. Blagonravov. L. Yu. Prunhanskiy, Candidate of Technical Sciences, was scientific secretary. The transactions of the conference were published in 3 volumes, of which the present volume is the first. This volume contains articles concerning the wear and wear resistance of antifriction materials. Among the topics covered are: modern developments in the theory and experimental science of wear resistance of materials, specific data on the wear resistance of various combinations of materials, methods for increasing the wear resistance of certain materials, the effects of friction and wear on the structure of materials, the mechanism of the seizing of metals, the effect of various types of lubricating materials on seizing, abrasive wear of a wide variety of materials and components under many different conditions, modern developments in antifriction materials, and the effects of finish machining on wear resistance. Many personalities are mentioned in the text. References accompany most of the articles.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, A.S.

Comment on E.S.Kaplan's article "On the preferential use of the International System of Units (SI) in teaching a course in electricity." Izv. vys. ucheb. zav.; fiz. 8 no.3:154 '65.
(MIRA 18:9)

1. Kuybyshevskiy pedagogicheskiy institut.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

OSTROVSKIY, F., inzh.; TARNOVSKIY, E., inzh.

Pressure vessel used for antiseptic compositions. Stroitel' no.6:30 Je '58. (MIRA 11:7)
(Pressure vessels)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

ACCESSION NR: AR4027924 S/0137/64/000/002/B006/B006

SOURCE: RZh. Metallurgiya, Abs. 2B38

AUTHOR: Kaybicheva, M. N.; Tarnovskiy, G. A.

TITLE: Refractories used for making crucibles for high-frequency vacuum induction furnaces and causes of their wear

CITED SOURCE: Tr. Vost. in-ta ogneuporov, vy*p. 4, 1963, 106-126

TOPIC TAGS: refractory, crucible, magnesite, synthetic corundum

TRANSLATION: Results are given for an investigation of the causes of intensive wear of refractories under vacuum-melting conditions in high-frequency induction furnaces 6900 mm high and 2900 mm in diameter with a vacuum down to 10^{-7} mm Hg. The crucibles were rammed out of 70-75% fused magnesite and 30-25% synthetic corundum No 100 containing 1-2% CaF_2 and 3% moisture. The ramming was in layers (20 to 55 mm). The thickness of the crucible walls was 60-65 mm at the top, and 75-80 mm at the bottom. The crucibles were studied during the period of development and operation. The temperature of the metal was 1500-1700°, and the latter remained in the crucibles for 2 to 5 hr. The life of the crucibles amounted to 19 meltings.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

ACCESSION NR: AR4027924

The chief cause of wear were transverse cracks, which are attributed to the increase in the size of crucibles during the first wash heatings and to the healing of the cracks. It is recommended that corundum be added in amounts not exceeding 15%, that ramming in layers and repressing be forsaken in making the crucibles, that the addition of CaF_2 be excluded from the charge, that the moisture of the mass be reduced to ~ 1.5-2%, and that the crucibles be dried with air heated to 110-120° for 3 to 3.5 hr; the vertical temperature of the crucibles should be constant, and no abrupt cooling should be allowed. This will make it possible to extend the life to 17 meltings. N. Molchanov

DATE ACQ: 19Mar64 SUB CODE: ML ENCL: 00

Card 2/2

SEMENENKO, P.P.; BARYSHNIKOV, G.I.; FILATOV, V.P.; BAS'YAS, I.P.; FREYDENBERG, A.S.; GUDOV, V.I.; TARNOVSKIY, G.A.

Ramming the upper working layer of open-hearth furnace hearths. Metallurg 10 no.4:14 Ap '65. (MIRA 18:7)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, G.N.

Heulandite from pegmatites. Zap.Vost.-Sib.otd.Vses.min. ob-va no.1:97-100 '59. (MIRA 14:7)

1. Institut geologii Vostochno-Sibirskogo filiala AN SSSR.
(Heulandite) (Pegmatites)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

MOGAROVSKIY, V.V.; TARNOVSKIY, G.N.; VASIL'YEV, Ye.K.

Hypogene hydrozincite. Dokl. AN SSSR 161 no.4:929-931 Ap '65.
(MIRA 18:5)

1. Institut geologii, Dushanbe. Submitted December 19, 1964.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

LOGACHEV, N.A., red.; MINEYEV, I.K., red.; ODINTSOV, M.M., red.; POGODIN, Yu.V., red.; TARNOVSKIY, G.N., red.; TUMOL'SKIY, L.M., red.; PERLOVICH, B.F., red.; KARAS', V.D., tekhn. red.

[Summaries of the reports of the Conference on Mineral Resources and the Geology of the Siberian Platform]Tezisy dokladov Soveshchaniia po geologicheskomu stroeniiu i mineral'nym resursam Sibirskoi platformy. Irkutsk, Akad. nauk SSSR, Sibirskoe otd-nie. No.4. 1960. 138 p. (MIRA 15:11)

1. Soveshchaniye po geologicheskomu stroyeniyu i mineral'nym resursam Sibirskoy platformy.
(Siberian Platform--Geology)
(Siberian Platform--Mines and mineral resources)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, G.N.; VASIL'YEV, Ye.K.

Bavenite from the pegmatites of Eastern Siberia. Zap. Vses. min. ob-va 93 no.1:29-36 '64 (MIRA 18:2)

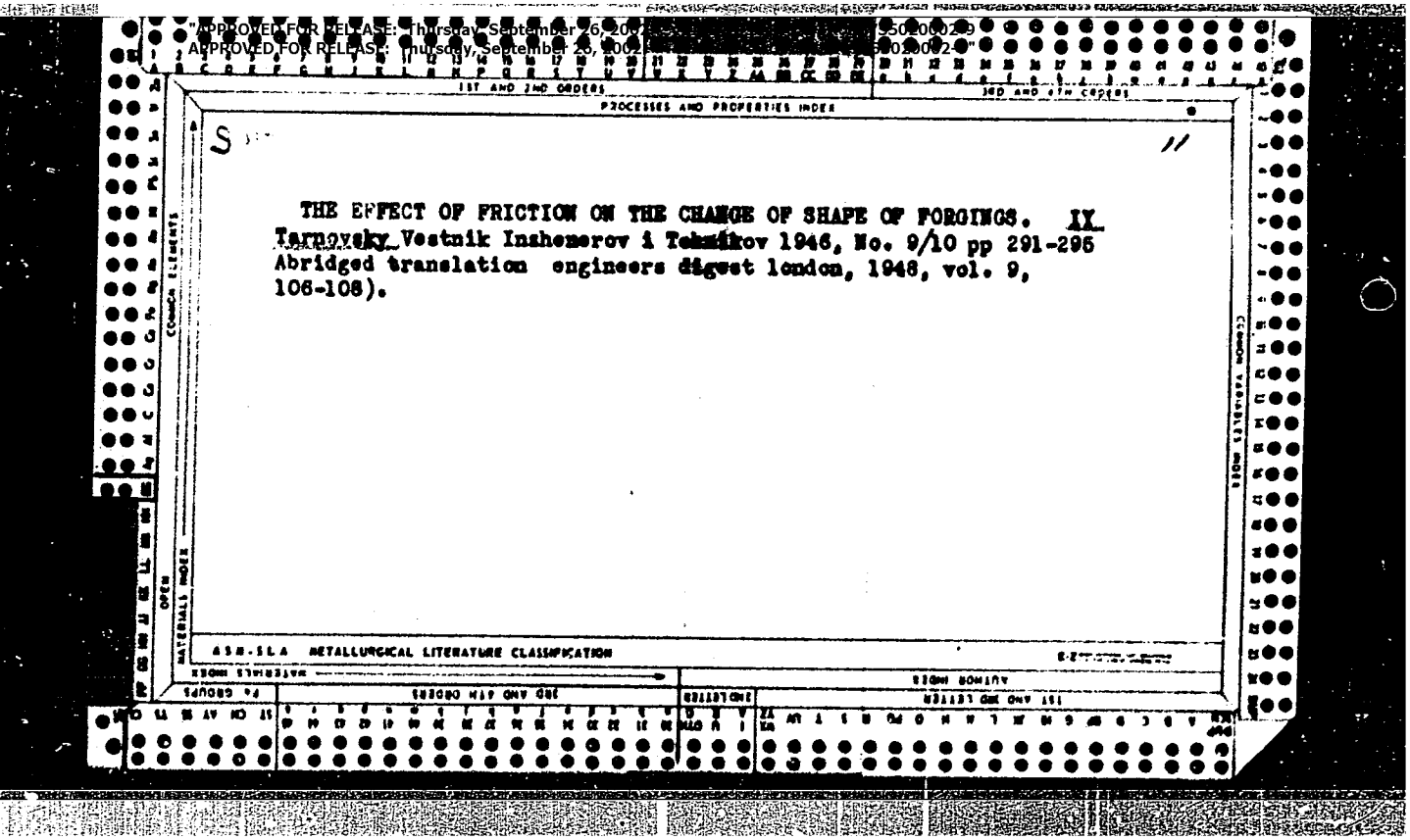
1. Vostochno-Sibirskiy geologicheskiy institut Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, I., sele Kolesovka, Omskoy oblasti.

[redacted]

A receiver whivh can use battery or electric line power is needed.
Radio no.8:26 Ag '56. (MIRA 9:10)
(Radio--Receivers and reception)



THE EFFECT OF FRICTION ON THE CHANGE OF SHAPE OF FORGINGS. IX
Tarnovsky Vestnik Inzhenerov i Tekhnikov 1946, No. 9/10 pp 291-295
Abridged translation engineers digest london, 1948, vol. 9,
106-108).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, I. YA., Docent

"Widening in Forging and Rolling." Sub 27 Feb 47, Moscow Order of the Labor Red Banner Inst of Steel imeni I. V. Stalin

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

S

12

THE CALCULATION OF MEAN REDUCTION IN PASS ROLLING. I. Ya. Tarnovskiy. (Iron and Steel Institute, 1949, Translation Series, No. 372). This is an English translation of a paper which appeared in Stal, 1948, No. 3, pp. 232-240. (See Journ. I. and S.I., 1948, vol. 159, July p. 334).

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3RD AND 4TH ORDERS

B

5

The Effect of Friction on the Change of Shape of Forgings. I. Y. Tarnovsky. *Engineers' Digest* (American Edition), v. 5, Mar.-Apr. 1948, p. 142-144. Translated and condensed from *Vestnik Inzhenerov i Tekhnikov* (Bulletin of Engineering and Technology), nos. 9-10, 1946, p. 291-295.

A theoretical, mathematical development.

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TARNOVSKIY, I. YA.

Oct 48

USSR/Engineering
Metallurgy
Rolling

"Orovan's Work on the Theory of Rolling," I. Ya. Tarnovskiy, Cand Tech Sci, Ural Polytech Inst, K. N. Shevchenko, Cand Tech Sci, Inst of Mech, Acad Sci USSR, 3½ pp

"Stal'" No 10

Attacks work of E. Orovan, English metallurgist, making frequent reference to achievements of Soviet scientists in this field.

19/49T50

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, I.Ya., doktor tekhnicheskikh nauk, professor.

[redacted]

Equilibrium of forces during rolling with lateral spreading. Trudy Ural.politekh.inst. no.45:97-120 '53. (MLRA 9:11)
(Rolling (Metalwork))

GANAGO, O.A., kandidat tekhnicheskikh nauk; TARNOVSKIY I.Ya., professor, doktor tekhnicheskikh nauk; KRASOVSKIY, N.N., inzhener.

Designing optimum blank shapes for forging gear-type products. Trudy Ural.politekh.inst. no.45:137-151 '53. (MLRA 9:11)
(Forging)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020002-9"

TARNOVSKIY, I.Ya., professor, doktor tekhnicheskikh nauk.

Distribution of spreading along the length of the deformation focus. Sbor.st.Ural.politekh.inst. no.48:64-82 '53. (MLRA 9:3)
(Rolling (Metalwork))(Deformations (Mechanics))