SHEVEL'MOV, V. L. "Determination of the Temperature Field in an Isotropic Medium in Front of a Moving Source of Heat," Zhur. Tekh. Fiz., 16, No.2, 1946; Mbr., Chair of Physics, Moscow Technological Inst. Food Industry, -1945-.

APPROVED FOR RELEASE: 08/09/2001

"APPROVED FOR RELEASE: 08/09/2001	CIA-RDP86-00513R001549320004-3
SHEVEL'KOV, V.L., DOCENT	DOC TECH SCI
Dissertation: "Methods for Determination of the Based on Nonstationary Thermal (e Thermophysical Properties of Metals Conditions."
26 May 49 Moscow ^C hemico-technological Inst of Meat 1	Industry.
SO Vecheryaya Moskva Sum 71	
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Shevel Kor, V.L D-4 Category : USSR/Atomic and Molecular Physics - Heat Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3503 : <u>Shevel'kov, V.L.</u> : Methods of Analytical Determination of the Temperature of Isotropic Author Title Materials Orig Pub : Tr. Mosk. tekhnol. in-ta myas. i moloch. prom-sti, 1956, vyp. 6, 151-155 Abstract : No abstract : 1/1 Card

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SHEVELIEGY, V.I., prefessor.

All-Union Scientific and Technical conference on intensification of processes and isproving the quality of materials in drying. (MLHA 10:6) Prort energy 12 ne 25 57 My 57.

1. Zamestitel' predsedatelya Komitete po sushke pri Vsesoyuznom sovete nauchas-tekinisheakikh obehchesty. (Moncow-Drying--Congresses)

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> PHASE I BOOK EXPLOITATION 1095

Shevel'kov, Vasiliy Leont'yevich

Teplofizicheskiye kharakteristiki izolyatsionnykh materialov (Thermophysical Characteristics of Insulating Materials) Moscow, Gos-energoizdat, 1958. 95 p. 6,450 copies printed.

Ed.: Sinel'nikova, L.N.; Tech. Ed.: Voronin, K.P.

This book is intended for technical workers, heat engi-PURPOSE: neers and heat-engineering students.

COVERAGE: The author examines the most important characteristics of heat-insulating materials and methods for experimental determination of their thermophysical coefficients. The book is based on the contemporary theory of heat and mass transfer processes of bound matter in capillary and porous bodies. No personalities are mentioned. There are 293 references of which 220 are Soviet, 46 English, 19 German, 5 French, and 3 Italian.

Card 1/4

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SHIFRIN, M.A., kand.tekhn.nauk (g.Moskva); SHAPOVALOV, I.S., inzh.; KUROCHKIN, M.; YERSHOV, A.V., starshiy nauchnyy sotrudnik; SHEVEL'KOV, V.L., prof., doktor tekhn.nauk

Heat engineering standards and regulations in construction should be revised. Inzh.-fiz. zhur. 4 no.9:120-126 S '61. (MIRA 14:8)

1. Issledovatel'skiy institut eksperimental'nogo proyektirovaniya Akademii stroitel'stva i arkhitektury SSSR (for Shapovalov). 2. TSentral'nyy institut nauchnoy informatsii po stroitel'stvu i arkhitekture Akademii stroitel'stva i arkhitektury SSSR (for Kurochkin). 3. Nauchno-issledovatel'skiy institut po stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR, g. Tashkent (for Yershov). 4. MKhTIMP (for Shevel'kc").

(Building laws) (Heat engineering)

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AKULOV, N.S., akademik; GINZBURG, A.S., doktor tekhn.nauk, prof.; KOSTERIN, S.I., doktor tekhn.nauk, prof.; LYKOV, A.V., akademik; POMERANTSEV, A.A., doktor fiziko-matematicheskikh nauk, prof.; SIROTA, N.N., akademik; SHEVEL'KOV, V.L., doktor tekhn.mpak, prof.

Aleksandr Savvich Predvoditelev; on his 70th birthday. Inz.-fiz. zhur. 4 no.12:106:108 D '61. (MIRA 14:11)

1. Akademiya nauk BSSR (for Akulov, Lykov, Sirota). (Predvoditelev, Aleksandr Savvich, 1891-)

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> LYKOV, A.V.; SHEVEL'KOV, V.L.; NESTERENKO, A.V.; LEBEDEV, P.D.; MAKSIMOV, G.A.; NIKITINA, L.M. IUrii Leonidovich Kavkazov; cn his 70th birthday. Inzh.-fiz. 2hur. 8 no.l;124-125 Ja '65. (MIRA 18 (MIRA 18:3)



246.VE	L'KOV, V.L. Thermal properties of the outside walls of buildings. Inzhfiz. (MIRA 18:5) zhur. 8 no.2:250-254 F '65. 1. Vsesoyuznyy zaochnyy inzhenerno-stroitel'nyy institut, Moskva.	
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KUZNETSOV, S.M.; SHEVEL'KOVA, L.I.

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Contraction of the second

Effect of deformations in grinding and polishing tools on the precision of surface configurations of machined optical parts. Opt.-mekh.prom. 25 no.6:33-37 Je '58. (MIRA 11:10) (Grinding and polishing)

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83903

s/020/60/134/003/017/020 11.1210 B004/B067 5.3200 Antonovskiy, V. L., Berezin, I. V., and Shevel'kova AUTHORS: The Relative Reactivity of the C-H and C-T Bonds of TITLE: n-Heptane, Benzene, Toluene, Ethylbenzene, and Cyclohexane in the Interaction With CH3. in the Liquid Phase Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 3, PERIODICAL: pp. 621-624 The authors determined the rate constants k of the reactions of the TEXT: C-H and C-T bonds on the following assumptions: In a system consisting of two organic compounds A and B, A has the number r of types of reactive C-H bonds, the bond of type j being tagged with tritium. Compound B is not tagged and has p types of C-H bonds. The total number of C-H bonds is assumed to be n. In this system, free methyl radicals are produced by thermal decomposition of benzoyl peroxide at 55° or 85°C. Equation (1) is written down for the composition $[CH_4]/[CH_3T]$ of methane which was formed according to the reaction equation $RH(\tilde{T}) + CH_3 \longrightarrow R^\circ + CH_4(CH_3T)$. Card 1/4

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The Relative Reactivity of the C-H and C-T Bonds 5/020/60/134/003/017/020of n-Heptane, Benzene, Toluene, Ethylbenzene, and B004/B067 Cyclohexane in the Interaction With CH₃° in the Liquid Phase The equation $I_A/I_M = k_{GA}^H/k_{jA}^T + (k_{GB}^H/k_{jA}^T) \cdot ([B]/[A])$ (2) served for an experimental determination of the rate constant k, where I_A , I_M denote the activities of substance A and methane; $k_{GA}^H = \sum_{i=1}^{n} n_i k_i^H$; $k_{GB}^H = \sum_{i=1}^{D} n_i k_i^H$. The authors determined (1) k_{GA}^H/k_{jA}^T , where CH₃° was generated only in A; (2) k_{GB}^H/k_{GA}^H by generating CH₃° in a mixture of A and B; (3) k_{GB}^H/k_{jA}^T , where a concentration ratio $[A] \ll [B]$ was chosen for a high activity of A. First, the authors carried out the reaction between non-tagged n-heptane, benzene, and toluene on the one hand, and tagged cyclohexane on the other.

The values for the reaction of $n-C_7H_{14}$ with C_6H_{12} are given in Table 1. For saturated hydrocarbons $k_{hept}^H/k_{cyc.hex}^H$ is independent of the composition of the mixture. In the systems $C_6H_6 - C_6H_{12}$ and C_6H_5 . $CH_3 - C_6H_{12}$ it was found that the quotients of k depended largely on the composition of the mixture (Figs. 1,2). Hence, a second experimental series was

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83903 The Relative Reactivity of the C-H and C-T Bonds 5/020/60/134/003/017/020 of n-Heptane, Benzene, Toluene, Ethylbenzene, and B004/B067 Cyclohexane in the Interaction With CH3. in the Liquid Phase carried out to eliminate this specific effect of the aromatic cycle. C6H5CH3 and C6H5CH2CH3 were tagged with tritium in their CH3 group, dissolved in small concentrations (0.134 - 4.00 wt%) in non-tagged $^{C}6^{H}_{12}$, and reacted with CH₃. Under these experimental conditions the relative rate constants for the tearing off of tritium did no longer depend on the composition (Tables 2,3). The following ratio was obtained for 85° C: k_{hept}^{T} : $k_{eth,benz.}^{T}$: $k_{tol}^{T} = 1$: 14.5: 28. Thus, the phenyl group has a strongly activating effect on the hydrogen atoms of the CH3 group in toluene as well as in ethylbenzene. The high mobility of the primary hydrogen atoms in $C_6H_5C_2H_5$ might indicate a still unknown mechanism. There are 2 figures, 3 tables, and 8 references: 5 Soviet and 3 US. Moskovskiy gosudarstvennyy universitet im.M.V. Lomonosova (Moscow State University imeni M. V. Lomonoscy) ASSOCIATION: Card 3/4

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经经济利益 化物学 化化物学 化化物学 化化物学 83903 The Relative Reactivity of the C-H and C-T Bonds S/020/60/134/003/017/020 of n-Heptane, Benzene, Toluene, Ethylbenzene, and BOO4/BO67 Cyclohexane in the Interaction With CH₃ in the Liquid Phase April 27, 1960, by N. N. Semenov, Academician PRESENTED: March 28, 1960 SUBMITTED:

Card 4/4

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5/195/61/002/004/607/004 W150/8585 Brodsky V.M., Kalinenko, H.Y., Levrevsky K.P. principles of the decomnosition of methanol at high 5.4300 and shevel koro 1. V PERFODICAL Kinetika i kataliz, v 2. no 4. 1901. 555-561 AUTHORS Previous investigations of the decomposition of TEXT: Previous investigations of the decomposition of interview C_0 to C_0 postulated an approximately first-order alcohols from C_0 to C_0 postulated of C-R bonds but the yields reaction, involving rupture of C-C or C-R bonds by about 50% and mass balances of C-R and O bave described by about 50% and TIPLE reaction: involving rupture of C-C of C-H bonds ont the yields and mass balances of C. H. and O have disagreed by about 50% and the activation energy for reaction velocity has been many times and mass balences of C. H. and Q have disagreed by about Sur and the activation energy for reaction velocity has been many times smaller than that for pressure decreases in the eveter decreases. the activation energy for reaction vetority has been many times smaller than that for pressure decrease in the system (per 6 tion of methanol wave considered by C i v klotcher (per 6 smaller than that for pressure decrease in the system (Ref. b) Lion of methanol was considered by C J M Fletcher (Ref. b) Pref. Not Sof (147 110 1034) to be the stare $CH_{2}OH \rightarrow CH_{2}O + H_{2}$ Box 200 The present work studied the reaction proc $_{\mathrm{CH}_{2}0} \rightarrow^{\mathrm{CO}}$ · $^{\mathrm{H}_{2}}$ with similar discrepancies Card 1/4

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Principles of the Cocomposition

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at temperatures from 630 to 900°C and at pressures of 25 and 45 mm Hg with quarty and corundum as here carriers. The pressure was maintained constant by a special valve and the output of H_2 CO and CH, were measured by adsorption on everted active ebercoal while the heaven to see yore measured not only by condensation but also by set sequent chromatographic analysis over a charcoal column using hydrogen as carrier gas. The concentration of CH₅OH varied with the form; $(CH_3OH)_0 / (CH_3OH) = 1$ by where x is the time of reaction. (CH_OH) - the concentration the surront concentration CH_3OH in the initial mexture (CH_3OH) of the strobule so the coefficient of velope change of the gas as a result of the cracking there is clusty a first-order system but is is bet requirents, having an actival on energy of 14 2 head/moto from 644 807 C and to keat/mate up to gut t vorify the hypothesis that surface heat conduction dominated at lower remperatures powdered commun was arreduced into the quart reaction & much higher activation currey tas found and the current of the case increased tour fold and that we all hydrocarbon Card 2/4

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CIA-RDP86-00513R001549320004-3

Principles of the decomposition .

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In oll cases the reaction products and signifi signifying extensive free radical formation CH₃CHO. CH₃COCH₃ etc Moreover, thermodynamic data on the decomposition or methanol predict reaction velocities some two or three orders of magnitude less than observed, so one must be dealing in practice with the formation of free radicals by a highly developed chain reaction. To support this, high concentrations of ethylene were found (20-50% of ethane) and it is known that in the 654-734°C region there is insignificant cracking of methane: the only alternative plausible source is from recombination of CH_ radicals. in this field Acknowledgments are expressed to N.N.Naymushin for his assistance. There are 3 figures, 6 tables and 16 references 5 Soviet-bloc and 11 non-Soviet-bloc. The four latest Englishlanguage references read as follows: Ref.1: J.A.Barnard, H.W.D. Hughes, Trans Faraday Soc. 56 55, 1960; Ref.2: Ibid. 56. 64, 1960; Ref.3: J & Barnard, Thid 56 79 1960; Ref 5: 1010, 55, 947. Card 3/4

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	• •	S/020/62/144/00 B101/B138	04/018/024	
AUTHORS:	Brodskiy, A. M., Kalinenko, Corresponding Member AS USSR	R. A., Lavrovskiy, K. , and Shevel'kova, L	P.,	
TITLS:	Mechanism of by-product form cracking of ethane			
PERIODICAL:	Akademiya nauk SSSR. Doklad	y, v. 144, no. 4, 19	62, 817-820	
CH ₄ , C ₂ H ₂ , C ₃ H	ng previous papers and using 11 (1959); ibid., 34, no. $18, C_3^{H}6, C_4^{H}10, C_4^{H}8$, and C_4^{H}	H_{\leq} (1960)) the format:	ion of Ng of ethana	
was examined.	corundum or ground quartz was cts were separated by chromat	nal 0.45% of ethylene	e tagged by C ¹ rrier. The	4
is formed main	ly from C ₂ H ₄ of low activity	and from transformat	ion products	
thereof. Abou	t one-half of the CH_4 is form	ed without the parti	cipation of	
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Mechanism of by-product formation ...

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temperature it is produced from highly active, unsaturated hydrocarbons. At lower temperatures the coke was much less active, implying that this is the point at which the interaction of unsaturated and condensed hydrocarbons with weakly active alkyl radicals begins to predominate. There are 2 tables. The English-language reference is: C. G. Danby, B. C. Spall et al., Proc. Roy. Soc., A218, no. 1135, 450 (1953).

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petrochemical Synthesis of the Academy of Sciences USSR)

SUBMITTED: February 27, 1962

Card 3/3

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L 1363-66 _____EWT(m)/EPF(c)/EWP(j)/EWA(c) RP WW/RM ACCESSION NR: AP5020833 UR/0020/65/163/004/0920/0923 AUTHOR: Brodskiv, A. M.; Kalinenko, R Shevel'kova Yampol'sk Yu. P.; Lavrovskiy, K. P. MS TITLE: Mechanisms of the conversions of ethylene and acetylene during hydrocarbon pyrolysis / SOURCE: AN SSSR Doklady, v. 163, no. 4, 1965, 920-923 TOPIC TAGS: pyrolysis, acetylene, ethylene, temperature conversion, excited state, hydrocarbon ABSTRACT: An explanation of the course and mechanism of acetylene conversion under ethylene pyrolysis conditions was sought in this study of pyrolysis in the 800-1000 C range of mixtures of ethylene and tagged acetylene. Acetylene conversion was determined from the distribution of radioactivity in the pyrolysis products. At the lower temperatures none of the pyrolysis products except coke was formed from acetylene, and formation of coke and methane was minimum at 900 C. Participation of acetylene in the formation of other gaseous products increased with temperature. The energy of activation is about 10 kcal/mol. It was concluded that benzene was formed equally by reactions involving no acetylene Card 1/2

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L 1363-66 ACCESSION NR: AP5020833 and reactions in which only acetylene and its conversion products took part. Traces of cyclohexane formed below 900 C disappeared at elevated temperatures, and apparently it is intermediate in the formation of untagged benzene. Very little acetylene was used to form methane and divinyl. The coke deposited at the lower temperature was primarily formed directly from the acetylene. At 950-1000 C the coke was formed as a result of the conversion of ethylene and other hydrocarbons having low specific radioactivity. The energy of activation for these reactions is about 80 kcal/mol. The acetylene added initially to the ethylene decomposed much faster than acetylene formed during the course of pyrolysis. This may be associated with the formation of the excited triplet state in acetylene but needs further investigation. Orig. art. has: 3 figures, 11 equations, and 1 table ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva AN SSSR (Institute of Petrochemical Synthesis AN SSSR) SUBMITTED: 16Oct64 ENCL: 00 SUB CODE: GC NR REF SOV: 004 **OTHER: 004** Card

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ACC NR: AP6026822 SOURCE CODE: CE/0065/66/231/03-/0173/	0182
AUTHOR: Kalinenko, Ruth Abramova (Doctor); Brodski, Anatol Koiseevitsch (Professe Doctor); Shevelkova, Ludmila Vladimirovna (Doctor)	or;
ORG: Institute for Petrochemical Syntheses, AN SSSR, Moscow	
TITLE: Laws governing the <u>thermal cracking</u> of low hydrocarbons (This paper was presented at the Annual Meeting of the <u>Chemical Society of the DDR</u> , held in Leipzi in 1964.	
SOURCE: Zeitschrift fur physikalische Chemie, v. 231, no. 3-4, 1966, 173-182	
TOPIC TAGS: hydrocarbon, chemistry technique, petrochemistry	
AESTRACT: In his lecture delivered at the 1964 general Meeting of the East German Chemical Society (Chemische Gesellschaft in der Deutschen Demokra- tischen Republik) in Leipzig, the author described attempts to develop a scheme for the sequence in which the various thermal cracking products form and to determine quantitatively the most important velocity constants of the individual processes and process combinations involved in the thermal cracking of low hydrocarbons. Twenty-five equations were derived and dis- cussed. Orig. art. has: 25 formulas. [JPRS: 36,464]	
SUB CODE: 07 / SUEM DATE: 16Nov64 / ORIG REF: 002 / OTH REF: 004	
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CIA-RDP86-00513R001549320004-3

28681 s/021/60/000/007/004/009 D211 D305 13,2540 Shevelo, V.M., and Shtelik, V.H. AUTHORS: On the motion of a pendulum of variable length TITLE: and mass Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 7, PERIODICAL: 1960, 884 - 887 TEXT: The aim of the paper is to consider the motion of a pendu-lum with variable mass and length and to determine the initial values, for which the motion is an oscillation or a rotation. The equation of motion of such a pendulum - using the law of conserva-tion of momentum - could be described by the following equation $\ddot{\theta} + (\frac{\dot{m}}{m} + \frac{\dot{\ell}}{l} + \mathbf{m}) \dot{\theta} + \frac{g}{l}(\sin \theta - \sin \theta_p) = \frac{\dot{m}}{ml} u$ (1)where m(t) is a mass, l(t) is a length, $\theta_p(t)$ - angle of deflection from the positions of stable equilibrium, u(t) - projection Card 1/2

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On the motion of a pendulum ...

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of velocity on the tangent \bigoplus the trajectory of the pendulum. By the oscillatory motion of a pendulum described by Eq. (1) in the interval of time $t_0 \leqslant t \leqslant t_0 + T$. It is understood such motion that $\theta(t)$ has not less than one turning point, i.e. $\dot{\theta}(t_j) = 0$, $t_j t_0$, \mathcal{H} $t_{o} + T$], (j = 1, ..., s), s > 1; θ_{o} , $\theta_{p}(t_{o}) / < \pi$; $-\pi < \theta(t_{j}) - \pi$ $-\theta_p(t_j) < \pi$. $-\pi < \theta(t_0 + T) - \theta_p(t_0 + T) < \pi$. The motion of pendulum when $\dot{\theta}(t)$ is different from $\hat{\Phi}$ in the time interval $t_0 < t$ $< t_0 + T$ and $\theta(t_0 + T) > \pi - \theta_p(t_0 + T)$ or $\theta(t_0 + T) \leq -\pi + \theta_p$ $(t_0 + T)$ is called the rotational motion. The set of conditions for θ_0 , $\dot{\theta}_0$ which guarantee the oscillating motion are then called the regimen of oscillation. The region of rotation could be defined in the same way. The author then possiders the case $\theta_{1} = 0$, u = 0. ASSOCIATION: Instytut matematyky AN USSR (Institute of mathematics PRESENTED: by Y.Z. Shtokalo, Academician AS UkrSSR SUBMITTED: July 17, 1959 CARD

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320004-3 $\begin{array}{l} S/021/60/000/008/001/011 \\ D210/D305 \end{array}$ then $\alpha = R\overline{F}$, $\beta = \int_{t_0}^{t} R'\overline{F}dt$; b) If $R' \leq 0$ then $\alpha = R\overline{F}$, $\beta = -\int_{t_0}^{t} R'\overline{F}dt$; c) If R' changes the sign then $\alpha = R\overline{F}$, $\beta = (t - t_0)R'\overline{F}$. Theorem: If $R^2 < 1$ for $t_0 < t \leq t_1$ and if $\int_{t_0}^{t_1} \sqrt{Q(1 - k^2)}dt > b + /y_0/$ then the solutions for initial conditions, for which $k^2 < 1$ will be non-oscillating during $t_0 \leq t \leq t_1$. If $k^2 > 1$ for $t_0 \leq t \leq t_2$ and $\int_{t_0}^{t_2} \sqrt{Q} dt < b - /y_0/$ then the solutions for the initial conditions for which $k^2 > 1$ could be oscillating. This could be provided directly using Eqs. (4) and (5). There is 1 Soviet-bloc reference. Card 4/5

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APPROVED FOR RELEASE: 08/09/2001

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320004-3 S/021/62/000/010/006/008 On the relativistic mechanism of ... D251/D308 and the external force F is assumed of the form F = r(t)f(x). Theorems are proved defining the conditions for uniform oscillation, stability in Lyapunov's sense and the behavior of the amplitude. The stability of the equilibrium position in the case when m(t) is a monotonic function is considered, and the problem of a relativistic pendulum is discussed as an example. ASSOCIATIONS: Instytut matematyky AN URSR (Institute of Mathematics of the AS UkrSSR) (V.M. Shevelo); Instytut kiberneti-ky AN URSR (Institute of Cybernetics of the AS UkrSSR) (V.M. Shtelik) by Yu.O. Mytropol's'kyy, Academician PRESENTED: SUBMITTED: January 2, 1962 Card 2/2

APPROVED FOR RELEASE: 08/09/2001

SHEVELO, V. N.

Dissertation: "The Oscillations of a Not Perfectly Elastic Thread (Cable) of Variable Length With a Load at Its End." Cand Phys-Math Sci, Inst of Mathematics, Acad Sci Ukrainian SSR, KIEV, 1953. (Referativnyy Zhurnal--Matematika, Moscow, Aug 54)

SO: SUM 393, 28 Feb 1955

APPROVED FOR RELEASE: 08/09/2001

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SAVIN, G.N.; SHEVELO, V.N. Dynamic tensions in hoisting cables used in shallow mine shafts (load (MIRA 8:4) lift). Dop. AN URSR no.2:136-139 '54. 1. Deystvitel'nyy chlen Akademii nauk USSR (for Savin). 2.Institut matematiki AN URSR. (Cables) (Elasticity)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320004-3"

N. SHEVELO, V.M.; KUZHIY, A.I.

> Using the asymptotic method in solving equations of the motion of a load on a partially elastic rope of variable length. Dop.AN URSR no.6:402-406 154. (MIRA 9:9)

1. Institut matematiki AN URSR, Kiivs'kiy pedagegichniy institut imeni O.M.Ger'kege. Predstaviv diysniy chlen AN URSR G.M.Savin. (Motion) (Wire repe)

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CIA-RDP86-00513R001549320004-3

SAVIN, OTM.; SHEVELO, V.H. Effect of imperfect elasticity on the vibration of a cord of changing length in lowering a load. Dop. AN URSR no.3:227-230 '55. (MIRA 8:11) 1. Diysniy chlen Akademii nauk URSR (for Savin) 2. Institut matematiki Akademii nauk URSR. (Elasticity) (Vibration)

APPROVED FOR RELEASE: 08/09/2001

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APPROVED FOR RELEASE: 08/09/2001





CIA-RDP86-00513R001549320004-3

Shamanskiy, V.Ye. and Shevelo, V.N. 21-58-5-7/28 AUTHORS: On Equations for the Oscillations of a Rope of Variable Length TITLE: (Ob uravneniyakh kolebaniy niti (kanata) peremennoy dliny) Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 5, pp 498-PERIODICAL: 501 (USSR) Oscillations of a rope of variable length with allowance for **ABSTRACT:** energy dissipation are described by a system of differential equations with partial derivatives obtained by Savin $_$ Ref 1_7, integration of which presents considerable mathematical difficulties. Making an assumption that displacements of the elements of the rope due to inertia forces are distributed along its length according to the same law as in a case of a ponderable rope stretched by the load Q, the author looks for the solution of the differential equations in the form: $\mu(x,t) = (Q + \frac{qx}{z})\frac{x}{kg}\bar{\phi}(t)$ where u is absolute lengthening of the section of the rope having a length = x; q is the weight of 1 m of the rope; K is a coefficient which characterizes the stiffness of the rope; and the function $\dot{\phi}$ (t) is determined with the aid of Galer-Card 1/2

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 On Druchter	21-58-5-7/28
. On Equations	for the Oscillations of a Rope of Variable Length kin's method by means of an ordinary differential equation of the second order with variable coefficients. In the case of a trapezoidal tachogram of lifting, the problem is re- duced to the integration of a homogenuous equation. A cri-
ASSOCIATION:	terion is obtained for the damping of forces in a ponderable elastic-viscous rope of variable length during lifting and lowering a load suspended by it. There are 6 Soviet references. Institut matematiki AN UkrSSR (Institute of Mathematics of
PRESENTED: SUBMITTED: NOTE:	AS UkrSSR) By Member of the AS UkrSSR, G.N. Savin October 11, 1957 Russian title and Russian names of individuals and institu- tions appearing in this article have been used in the trans- literation.
	1. OscillationsMathematical analysis
Card 2/2	

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CIA-RDP86-00513R001549320004-3

SHEVILO, V.M.; MOSKALYUK, O.V. General results of the work of conferences and the session of the Department of Physico-mathematical sciences of the Academy of Sciences of the Ukrainian S.S.R. Visnyk AN URSR 29 no. 6:49-52 (MIRA 11:7) Je '58, (Academy of Sciences of the Ukrainian S.S.R.)

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CIA-RDP86-00513R001549320004-3

sov/179-59-3-10/45 AUTHORS: Shamanskiy, V. Ye. and Shevelo, V. N. (Kiyev) Longitudinal Vibrations of an Elastic Filament (Cable) of Variable Length (O prodol'nykh kolebaniyakh uprugoy PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh TITLE: nauk, Mekhanika i mashinostroyeniye, 1959, Nr 3, ABSTRACT: The paper is a continuation of previous work (Ref 4). The longitudinal vibrations of a cable of variable length and carrying a load at the end are of interest in connection with lifting gear in mine shafts, and are known (Refs 1 and 2) to be governed by a second order differential equation if the internal friction in the rope is neglected, and by a third order equation if the internal friction is of the viscous type. However, for shafts of up to 500 m in depth, the longitudinal motion of the cable is described to sufficient accuracy by an ordinary second order differential equation. This equation has been derived by Ishlinskiy (Ref 3) and by Savin and Shevelo (Ref 4). The equation leads to Card 1/2 appreciable errors for deep shafts (e.g. to errors of

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SOV/179-59-3-10/45 Longitudinal Vibrations of an Elastic Filament (Cable) of Variable Length

> 15-20% for shafts 1000 to 1200 m deep). Savin (Ref 5) and Sokolov (Ref 6) have improved the result by deriving two second order ordinary differential equations describing the dynamics of the cable for deep shafts. The effective solution of these equations with variable coefficients is, however, very difficult and in the present paper refinements are introduced into the ordinary second order differential equation which are applicable to the case of a cable of large initial length (a deep shaft). For this purpose, the equations of motion, including an internal friction term are set up and simplified by suitable approximations. The approximate equations are solved for the case of a trapezoidal hoisting tachogram (velocity plotted against The resulting solution is evaluated for a special time). case and the results shown graphically (Fig 3).

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There are 3 figures and 7 Soviet references.

SUBMITTED: September 19, 1958 Card 2/2

APPROVED FOR RELEASE: 08/09/2001



16(1)SOV/41-11-1-9/12 AUTHOR: Shevelc , V.N. (Kiyev) Some Remarks on the Motion of an Oscillator With a Variable Mass TITLE: PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 1, pp 105-108 (USSR) If $m(t) \dot{\phi} + K \dot{\phi} = 0$, then AFSTRACT: $\varphi = A \sqrt[4]{\frac{m(t)}{m(0)}} \sin \left[\int \sqrt{\frac{K}{m(t)}} dt + \beta \right].$ If m(t) increases intermittently, then there appears a damping; if m(t) decreases intermittently, then there appears a swinging upwards. The author mentions Yu.A.Mitropol'skiy, I.V.Meshcherskiy, M.Ya.Leonov, and G.N.Savin, Academician. There are 6 Soviet references. 1. Lestration SUFMICTED: September 18, 1958 Card 1/1

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16(1),3(1),2 AUTHORS:	OFMN AS Ukr SSR, and Moskalyuk, A., OFMN AS Ukr SSR, and Moskalyuk, A., Worker-Consultant
rit le :	Plenary Meeting of the Section of the Physical-Mathematical Sciences of the Academy of Sciences of the Ukrainian SSR
PERIODICAL:	Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 3,
<u>a</u> bstract:	 pp 530-336 (050K) For the coordination of the problems of research in the sense of the XXI^{SU}Party Conference, on April 22-24, 1959 a plenary meeting of the section of the physical-mathematical sciences of the Academy of Sciences of the Ukr.SSR took place. There were the Academy of Sciences of the Ukr.SSR took place. There were the academy of the section, representatives of the Academy, collaborators of the section, representatives of the high schools and factories. The following questions were discussed: 1. Problems of research (V.N.Gridnev, corresponding member AS Ukr SSR) 2. Investigations on numerical mathematics and calculating technics (B.N.Malinovskiy) 3. Analytical methods of the quantum field theory (0.S.Parasyuk, corresponding member)
Card $1/3$	

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sov/41-11-3-15/16 Plenary Meeting of the Section of the Physical-Mathematical Sciences of the Academy of Sciences of the Ukrainian SSR 4. Investigations on probability theory and statistics (B.V. Gnedenko, Academician) 5. Theory of electronic processes in dielectrica and semi-6. Metal physical investigations and vacuum methods (V.Ye.Ivanov) 7. Investigations of radio astronomy (S.Ya.Braude, corresponding 8. Solar investigations in the GAO AS Ukr SSR (Ye.A.Gurtovenko) 9. Investigations during the geophysical year in the Poltava Gravimetric Observatory (Z.N.Aksent'yeva, corresponding member AS UKT SSR) 10. Prospects of the research in 1959-1965. The academicians N.P.Barabashov, A.G.Gol'dman, A.P.Komar, D.G. Lazarev, and I.Z.Shtokalo, and the corresponding members Z.N. Aksent'yeva, A.I.Akhiyezer, Yu.A.Mitropol'skiy, N.D.Morgulis, M.V.Pasechnik, A.Ya.Usikov, and A.A.Yakovkin had a share in the The meeting passed a series of resolutions, especially the Card 2/3

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.	Plenary Mee Mathematica of the Ukra	ting of the Section of the Physical- SOV/41-11-3-15/16 l Sciences of the Academy of Sciences inian SSR	
·		following domains shall be the most important fields of resear Nuclear physics, accelerators of charged particles, physics of the rigid body, physics of semiconductors, physics of low temperatures, radio physics and electronics, radio astronomy, numerical mathematics and computing technics, mathematical physics, theory of probability, mechanics of the rigid body, astronomy, and astrophysics.	'ch:
	SUBMITTED:	May 12, 1959	
	Card 3/3		

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549320004-3"

SHI	SHEVELO, V.N. [Shevelo, V.M.]; SHTELIK, V.G. [Shtelik, V.H.] On the motion of a pendulum of variable length and mass. Dop.AN (MIRA 13:8)									
~	On the motion of a per URSR no.7:884-887 460.	DULUM OI VALIAULO	10464H	(MIRA 13:						
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	I.Z.Shtokalo.	(Pendulum)								
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SHEVELO, V.N. [Shevelo, V.M.]; SHTELIK, V.G. [Shtelik, V.H.]

Conditions of the oscillation (nonoscillation) of solutions of nonlinear differential equations of the second order with variable coefficients. Dop.AN URSE no.8:1007-1010 160. (MIRA 13:9)

1. Institut matematiki AN USSR. Predstavleno akademikom AN USSR I.Z.Shtokalo.

(Differential equations)

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43390 s/041/62/014/004/002/007 21.4100 B172/B112 Shevelo, V. N., Shtelik, V. C. (Kiyev) **AUTHORS**: Theory of the non-autonomous mathematical pendulum TITLE: Ukrainskiy matematicheskiy zhurnal, v. 14, no. 4, 1962, PERIODICAL: 372 - 382 The equation of the non-autonomous mathematical pendulum TEXT: $(ml^2x')' + mglf(x) = 0$ is studied for the approximations a) $f(x) \sim x$, \tilde{h}) f(x) = x - $\frac{x^3}{3!}$, c) f(x) = x - $\frac{x^3}{3!} + \frac{x^5}{5!}$ and for d) $f(x) = \sin x$ on the following assumptions: (1) m(t) and $\hat{l}(t)$ are continuously differentiable for all $t \gg t_0 \gg 0$; (2) m(t) and l(t) are either limited and positive or $0 < l_1 \leq l(t) \leq l_2 \leq \infty$, $m(t)l^2(t) = \exp(\int d(t) dt)$, $|dt| \leq d_2 < \infty$. A number of theorems supply conditions under which the pendulum describes a rotary, oscillatory or damped motion. The following main results are obtained: if $s(t) = m^2/1^3$ is monotonic then x = 0 is a stable equilibrium position Card 1/2

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Theory of the non-autonomous r...

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and the amplitudes of uniformly oscillating motions of the pendulum are monotonic; a dependence exists between the changes in the mass m and the length 1 at which the non-autonomous pendulum describes the same form of motion as an autonomous pendulum; the equation of motion for the third approximation c) gives a poorer description of the pendulum dynamics than that for the second approximation; a non-autonomous pendulum may describe oscillatory motions which are impossible for an autonomous pendulum.

SUBMITTED: April 20, 1962

Card 2/2

APPROVED FOR RELEASE: 08/09/2001

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s/020/63/149/002/006/028 B112/B180 Shevelo, V. N., Shtelik, V. G. AUTHORS: Certain problems concerning the oscillation of solutions to non-linear non-autonomous second-order equations TITLE: PERIODIČAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 276-279 TEXT: For the equation (1) $(k(t)x^{i})^{i} + f(x,x^{i},t) = 0$ the following fundamental problems are investigated: (1) To find out conditions for k(t) and f(x,x',t) under which all solutions of Eq. (1) are non-oscillatory, rotational, or oscillatory, respectively. (2) To determine the regions of non-oscillatory, rotational, and oscillatory solutions to Eq. (1) for fixed k(t) and f(x,x',t). (3) To derive a law of variation of the coefficients of Eq-(1) under a given set of initial conditions, such as would guarantee a given character of oscillation for the solutions. Card 1/2

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SHEVELOVA, Ye. M.

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"Change in the Protein Content and Absolute Hemoglobin Content of the Blood in Acute Parenchymatous Hepatitis," Sbornik Nauchnykh Trudov Kirgizskogo Gosudarstvennogo Meditsinskogo Instituta, Frunze, Vol 7, 1951, pp 179-184.

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SHEVELUKHA, V.S., agronom.

2月11日1月1日日

Causes of clover failure during its first year of growth. Agrobiologiia no.1:130-131 Ja-F '58. (MIRA 11:2)

1. Uchebno-opytnoye khozyaystvo "Batrachka" Moskovskoy sel'skokhozvaystvennoy akademii imeni K.A. Timiryazeva. (Ryazantsevo District--Clover) (Starch)

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LVA, A.P., glavnyy vrach; SYRKINA, D.G. Source of dysentery infection of infant 37-39 S 153.	ts. Zhur.mikrobiol.e	pid.i immun. no.9: (MIRA 6:11)
1. Tashkentskaya gorodskaya infektsion	naya bol'nitsa.	(Dysentery)

ACC NR: AP6029684 (N) SOURCE CODE: UR/0369/66/002/004/0437/0440	-	
AUTHOR: Karlashov, A. V.; Shevelya, V. V.		
ORG: Kiev Institute of Civil Aviation Engineers (Kiyevskiy institut inzhenerov grazhdanskoy aviatsii)		
TITLE: Some problems of surface phenomena and corrosion fatigue		
SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 4, 1966, 437-440 ·		
TOPIC TAGS: metal surface, surface property, corrosion rate, corrosion resistant metal		
ABSTRACT: A brief review is given of the relationship between surface phenomena and corrosion fatigue of metals. Results are presented on a study of the influence of cyclic loading in media of various activity on the criteria of static strength of Dif AT alloy and on its electrical conductivity, which is a structurally sensitive char- acteristic. Factors are analyzed which may have an effect in inforcing electro- chemical heteorogeneity of the metal surface when it is placed under a repeated strat with changes of sign. Flat specimens of DI6 AT Duraluminum were tested for fatigue 3 air and in a 3% aqueous NaCl solution. The influence of the corrosive medium which was discovered in the case of cyclical loading on the strength and plasticity prop- erties, plus the absence of any corrosive medium effect in the case of static exten- sion, show that specific surface processes take place in the case of fatigue, allowing	5 in in	
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structural defect of the defect str with large volume	dium to interact with con ts which are formed by th ructure provides a locati es of metal, which is the asticity, and wear resist	ne fatigue loading. Ion for contact of a cause of the infl	The surface in the active extended the solution of this relationships the second secon	localization ernal medium medium on	
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L 00903-67 EWT(d)/EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/WB/EM	
ACC NR: AP6020912 AUTHORS: Kostetskiy, B. I.; Karlashov, A. V.; Shevelya, V. V. ORG: Kiev Institute of Civil Aviation Engineers (Kievgkiy institut inzhenerov	
grazhdanskoy aviatsii) TITLE: A radiographic study of the fatigue of DI6AT alloy in connection with the action of media	
SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 2, 1966, 162-166 TOPIC TAGS: fatigue strength, fatigue test, aluminum alloy, x ray diffraction camera, radiography, metal stress, metal deformation / D16AT aluminum alloy, <u>URS-50IM</u> x ray diffraction camera	
ABSTRACT: The results of a radiographic study of the fatigue of Dl6AT alloy are given. The alloy was studied in the annealed state (350C, 1 hr) and in the hardened state with subsequent aging. A URS-50IM diffractometer with copper K ₀ radiation was used. The hardened samples were tested under a load of 10 dyne/mm ² ; the an-	
nealed, 7 dyne/mm ² . In all cases, there was no change in the line (200) width with vcyclic loading (see Fig. 1). A certain increase in microstresses was observed in testing DI6AT alloy above the fatigue limit. Third-order distortions (more clearly expressed for the hardened state) were observed in the fatigue tests. Fatigue was	· · · · · · ·
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USSR/General Problems of Pathology. Immunity	U-1		
Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60968			
 Author : Shevelyev A.S. Inst : Sholensk Medical Institute The Effect of a Splenactomy and of a "Blockade", on the Post-Vaccination Anti-Toxic Immunity of White Mice to Sp Typhus. 	potted		
Orig Pub : Tr. Smolenskogo med. in-ta, 1957, 7, 222-226			
Abstract : Mice, who had a splenectomy performed on then 24-48 hour fore they were immunized with spotted typhus vaccine, or ceived subcutanous injections of a 0.5 percent trypan b solution (I:0.05 milligrams per gram) 2 hours prior to cim tion, showed that the formation of a post-vaccinati munity in them was completely suppressed. The splenect formed on immune mice at the maximum peak of immunity (days after vaccination), 24-48 hours before the immunit somewhat decreased it. When blockade of RES by trypan made 2 hours before a test for immunity, no changes wer	lue vac- on im- omy per- 12-14 by test, blue was	•	
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80V/4148 HASE I BOOK EXPLOITATION Teoreticheskiye osnovy proyektirovaniya zhidkostnykh raketnykh dvigateley Shevelyuk, Mikhail Ivanovich (Theoretical Bases for the Design of Liquid-Fuel Rochst Engines). Moscow, Oborongiz, 1960. 684 p. Errata slip inserted. 9,500 copies printed. Reviewer: A.V. Kvasnikov, Doctor of Technical Sciences, Professor; Ed.: I.L. Yanovskiy, Engineer; Ed. of Publishing House: N.F. Bogomolovs; Tech. Ed.: N.A. Pukhlikova; Managing Ed.: S.D. Krasil'nikov, Engineer. PURPOSE: This textbook is intended for students of higher technical schools taking courses in rocket propulsion and related subjects, and may also be useful to engineers and technicians in this field. COVERAGE: In this book the theoretical principles for designing liquid-fuel rocket engines are presented. Engine and thrust chamber processes and characteristics, and operating conditions of liquid-fuel rocket engines are studied. The design and calculation of injection systems, liquid-propellant feed systems, and the characteristics of rocket propellants are also investigated. Problems of thrust characteristics of former propertation and testing of liquid-fuel rocket engines Card 1/11

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SOV, 91-59-9-21/33 8(6), 9(2) Shevenko, L.I., Engineer AUTHÓR: Potentiometer Transducers TITLE: (USSR) Energetik, 1959, Nr 9, pp 28-30 PERIODICAL: The author describes potentiometer transducers for ABSTRACT: recording pressure and mechanical displacements and a power supply unit, which were developed at the power engineering laboratory of Lenenergo. When testing and adjusting turbine speed governors, numerous processes must be recorded by magnitude and in time: pressure changes in the governor system, nonlinear and angular displacements of single mechanisms, rpm number changes, temperature changes at different points, etc. Frequently, such processes must be recorded by oscillographs within short periods. Sometimes, recording during a longer period of time is required, whereby automatic potentiometers or other recording instruments are used. Therefore, it is desireable to have such primary transducers which may be connected to oscillographs, automatic potentiometers or other Card 1/3

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Potentiometer Transducers

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recording instruments. In some cases a direct visual observation is required, either at the transducer itself, or at some measuring instrument connected to the transducer outlet. The method of using potentiometer transducers found wide-spread application in the USSR and abroad. The disadvantages of this method are that considerable mechanical moments must be available at the primary instrument and the necessity of providing a stabilized dc power supply. The best results were obtained with potentiometer transducers when they were used in combination with pressure gages and instrument measuring mechanical displacements. In these cases, a fork is used for connecting the potentiometer slide with the needle of the primary indicator, which may be achieved without any excessive play. The author describes briefly a transducer of mechanical displacements of 0-7 mm based on a KI dial indicator as shown in Figure 1. A transducer for linear displacements of 0-750 mm is shown in Figure 2. The author states that the connection of

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Potentiometer Transducers

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potentiometer transducers to dial indicators, pressure gages, etc does not influence their measuring accuracy. The arrangement of the measuring circuit is shown in Figure 3. The circuit diagram of the power supply unit is shown in Figure 4. The power supply unit consists of a SN220/12 volt ferroresonance stabilizer, rectifier VG, a potentiometer, a voltmeter and two batteries each consisting of three NKN-10 cells. The outlet voltage is 3.8 volts. The batteries are charged by the rectifiers. Current pulsation of the rectifiers will not appear on the oscillogram. Such a power supply unit may be designed for a greater number of transducers. However, the best results were achieved with six transducers. Experimental models of potentiometer transducers and power units functioned without failures during tests. Since their error does not exceed 1%, they produce sufficiently accurate oscillograms and recordings on the tape of the EPP-09 electronic potentiometer. There are 2 photographs and 2 circuit diagrams.

Card 3/3

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SHEVENKO, L.I., inzh. Water level relay with an electrode pickup. Inergetik 8 no.2:18-20 F '60. (MIRA 13:6) (Automatic control) (Liquid level indicators) ; 1 4

SHEVENKO, L. I., inzh.

Raising the resetting ratio of intermediate relays. Energetik 8 no.4:25-26 Ap '60. (Electric relays) (MIRA 13:8) (Automatic control)

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