ULINA, G. V.

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UL'INA, V. A., KRITSKAYA, V. K.

UL'INA, V. A., KRITSKAYA, V. K.

Martensite

Causes of lowered intensity of X-ray interferences in martensite. Dokl, AN SSR 85, No. 4, 1952

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1. Nachal'nik vnutrishakhtnogo transporta shakhty No.33 Il'nitskogo shakhtoupravleniya.

(Transcarpathia—Coal mines and mining)

ULINICH, B.Ya.

[Special rooms for cultural, household and maintenance services in mass construction apartment houses] Vstroennye pomeshcheniia dlia kul'turno-bytovogo i khoziaistvennogo obsluzhivaniia v zhilykh domakh massovogo stroitel'stva. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 35 p. (MLRA 7:3)
(Apartment houses)

RUPPENEYT, Konstantin Vladimirovich; ULINICH, F.P., otvetstvennyy redaktor; RATNIKOVA, A.P., redaktor izdatel'stva; PEOZOROVSKAYA, V.L., tekhnicheskiy redaktor; ZAZYL'SKAYA, V.F., tekhnicheskiy redaktor

[Mechanical characteristics of rock] Mekhanicheskie svoistva gornykh porod. Moskva, Ugletekhizdat, 1956. 321 p. (MLRA 9:9)
(Mining engineering) (Coal) (Rocks)

ULINICH, F.P.

SHPRUT, F.[Spruth, F.]; SIRIN , G.Ye.[translator]; PAVLYUCHENKO, D.N., [translator]; ULINICH , F.P.[translator]; PANOV, A.D., kandidat tekhnicheskikh nauk, redaktor; DMITRIYEVA, L.N., redaktor izdatel'stva; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Metal supports in second mining. Translated from the German] Metallicheskoe kreplenie ochistnykh vyrabotok. Perevod s nemetskogo G.E. Sirina, D.N. Pavliuchenko, F.R. Ulinicha. Pod red. A.D. Panova. Moskva, Ugletekhizdat, 1956. 335 p. (MLRA 10:4)

(Mine timbering)

ULINICH, F.R.

BEYLINA, TS.O., inzhener; BLAGONADEZHDIN, V.Ye., inzhener; BOGUSLAVSKIY, P.Ye., kandidat tekhnicheskikh nauk; VORONKOV, I.M., professor, GITINA, L.Ya., inzhener; GROMAN, M.B., inzhener; GOROKHOV, N.V., doktor tekhnicheskikh nauk [deceased]; DENISYUK, I.N., kandidat tekhnicheskikh nauk; DOVZHIK, S.A., kandidat tekhnicheskikh nauk; DUKEL'SKIY, M.P., professor, doktor khimicheskikh nauk [deceased]; DYKHOVICHNYY, A.I., professor; ZHITKOV, D.G., professor, doktor tekhnicheskikh nauk; KOZLOVSKIY, N.S., inzhener; LAKHTIN, Yu.M., doktor tekhnicheskikh nauk; LEVENSON, L.B., professor, doktor tekhnicheskikh nauk [deceased]; LEVIN, B.Z., inzhener; LIPKAN, V.F., inzhener; MARTYNOV, M.V., kandidat tekhnicheskikh nauk; MOLEVA, T.I., inzhener; NOVIKOV, F.S., kandidat tekhnicheskikh nauk; OSETSKIY, V.M., kandidat tekhnicheskikh nauk; OSTROUMOV, G.A.; PONOMARENKO, Yu.F., kandidat tekhnicheskikh nauk; RAKOVSKIY, V.S., kandidat tekhnicheskikh nauk; REGIRER, Z.L., inzhener; SOKOLOV, A.N., inzhener; SOSUNOV, G.I., kandidat tekhnicheskikh nauk; STEPANOV, V.N., professor; SHEMAKHANOV, M.M., kandidat tekhnicheskikh nauk; EL'KIND, I.A., inzhener; YANUSHEVICH, L.V., kandidat tekhnicheskikh nauk; BOKSHITSKIY, Ya.M., inzhener, redaktor; BULATOV, S.B., inzhener, redaktor; GASHINSKIY, A.G., inzhener, redaktor; GRIGRO'YEV, V.S., inzhener, redaktor; YEGURNOV, G.P., kandidat tekhnicheskikh nauk, redaktor; ZHARKOV, D.V., dotsent, redaktor; ZAKHAROV, Yu.G., kandidat tekhnicheskikh nauk, redaktor; KAMINSKIY, V.S., kandidat tekhnicheskikh nauk, redaktor; KOMARKOV, Ye.F., professor, redaktor; KOSTYLEV, B.N., inzhener, redaktor; POVAROV, L.S., kandidat tekhnicheskikh nauk, redaktor; ULINICH, F.R., redaktor; KLORIK'YAN, S.Kh., otvetstvennyy redaktor; GLADILIN, L.V., redaktor;

(Continued on next card)

HEYLINA, TS.O. --- (continued) Card 2.
RUPPENEYT, K.V., redaktor; TERPIGOREV, A.M., glavnyy redaktor; BARABANOV, F.A., redaktor; BARANOV, A.I., redaktor; BUCHNEV, V.K., redaktor; GRAFOV, L.Ye., redaktor; DOKUKIN, A.V., redaktor; ZADEMIDKO, A.N., redaktor; ZASYAD'KO, A.F., redaktor; KRASNIKOVSKIY, G.V. redaktor; LETOV, N.A., redaktor; DISHIN, G.L., redaktor; MAN'KOVSKIY, G.I., redaktor; MEL'NIKOV, N.V., redaktor; ONIKA, D.G., redaktor; OSTROVSKIY, S.B., redaktor; POKROVSKIY, N.N., redaktor; POLSTYANOY, G.N., redaktor; SKOCHINSKIY, A.A., redaktor; SONIN, S.D., redaktor; SPIVAKOVSKIY, A.O., redaktor; STANCHENKO, I.K., redaktor; SUDOPLATOV, A.P., redaktor; TOPCHIYEV, A.V., redaktor; TROYANSKIY, S.V., redaktor; SHEVYAKOV, L.D., redaktor; BYKHOVSKAYA, S.N., redaktor izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor; PROZOROVSKAYA, V.L., tekhnicheskiy redaktor.

[Mining; an encuclopedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red. A.M. Terpigorev. Chleny glav.red. F.A. Barabanov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po ugol'noi promysh]. Vol.1. [General engineering] Obshchie inzhenernye svedeniia. Redkollegiia toma S.Kh.Klorik'ian i dr. 1957. 760 p.
(Mining engineering) (MLRA 10:10)

SOV/58-59-4-8267

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 4, p 133 (USSR)

AUTHOR: Ulinich, F.R.

TITLE: Some Problems in the Theory of Brittle Failure

PERIODICAL: Izv. vost. fil. AS USSR, 1957, Nr 6, pp 85 - 93

ABSTRACT: Placing himself within the framework of the phenomenological theory of strength, the author examines the condition under which a running crack will appear in the case of a place deformation: in the neighborhood of the point under examination on the boundary between the elastic region and the region of limiting conditions, the stressed state in the elastic region ought to be such that an infinitely small increase of the load will lead to the failure of the material on the finite section representing the continuation of the slip line that has already formed in the region of limiting conditions. The author submits the mathematical formulation of this condition. The theory is applied to the problem of testing, for a single shear, a prismatic sample of a brittle material (rock) which has been pressed between matrices in a press during testing. (Zap.-Sibirskiy fil. AS USSR).

A.N. Orlov

Card 1/1

ULINICH, F.R., Cand Phys Math Sci -- (diss) "Certain problems of the theory of friable disintegration ~~shattering~~." Novosibirsk, 1958, 9 pp (Tomsk State Univ im V.V. Kuybyshev) 120 copies

(KL, 27-58, 103)

SOV/56-34-5-32/61

AUTHORS: Pokrovskiy, V. L., Savvinykh, S. K., Ulinich, F. R.

TITLE: Superbarrier Reflection in Quasi-Classical Approximation (Nadbar'yernoye otrazheniye v kvaziklassicheskom priblizhenii)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol. 34, Nr 5, pp. 1272 - 1277 (USSR)

ABSTRACT: The purpose of this paper is the determination of an asymptotical expression for the coefficients of reflection in the case of short wave lengths. The authors restrict themselves to the one-dimensional case. The problem is represented by the solution of the Schroedinger (Shredinger) equation:

$$\alpha^2 \frac{d^2\psi}{d\xi^2} + k^2(\xi)\psi = 0$$

where $\alpha = \lambda\!\!\!^{-}/a$; $\xi = x/a$; $k^2(\xi) = 1 - U(\xi)/E$ holds. $\lambda\!\!\!^{-}$ denotes the De Broglie (De Broyl') wave length of the free particle. The main assumption is $\alpha \ll 1$. The authors everywhere restrict themselves to the case $E > U(\xi)$ on the whole ξ-axis.

Card 1/3

The solution of this Schroedinger equation is determined by the usual WKP (Wentzel-Kramers-Brillouin) method in the form $\psi = e^{S/\alpha}$, and S is expanded into a series according to powers of α. In the WKP approximation the quantum effect of the reflection in a potential barrier is completely missing. Therefore an other method must be employed for the determination of the reflected wave. By means of the transformation $\psi = y/\sqrt{k}$ the first mentioned equation takes the form $(d^2y/dt^2) + (1 + \alpha^2 q(\alpha t))y = 0$. To this equation the operation of the scattering in a continuous spectrum is formally applied. All terms of the scattering series have the same order with regard to α. The problem is the computation of the amplitude of the transition from the eigenstate of the Hamiltonian $H_o = d^2/dt^2$ with the momentum 1 to the state with the momentum -1. This amplitude is expressed by a well-known series from perturbation theory. Subsequently the terms occurring in this expression are examined separately. The process of computation is pursued step by step. In the case of

an arbitrary form of the potential for the main part of the reflection coefficient

$$R = -ie^{2i\tau_0/\alpha} = -i \exp\left\{\frac{2i}{\alpha}\int^{\xi_0} kd\right\}$$ is found.

The last paragraph investigates the limits of applicability of this formula. The authors investigated the restrictions of the domain of the parameters. There are 5 references, 4 of which are Soviet.

ASSOCIATION: Institut radiofiziki i elektroniki Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Radiophysics and Electronics at the Siberian Department of the AS USSR)

SUBMITTED: December 14, 1957 (initially), January 26, 1958 (after revision)

1. Wave analysis--Theory 2. Perturbation theory--Theory
3. Mathematics--Theory

SOV/56-34-6-33/51

AUTHORS: Pokrovskiy, V. L., Ulinich, F. R., Savvinykh, S. K.

TITLE: The Superbarrier Reflection in Quasiclassical Approximation. II (Nadbar'yernoye otrazheniye v kvaziklassicheskom priblizhenii)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol. 34, Nr 6, pp. 1629-1631 (USSR)

ABSTRACT: This paper obtains an asymptotic expression for the amplitude of the superbarrier reflection under the conditions $k_0 a \gg 1$ and $k_0 a(E - U_0)/U_0 \gg 1$. The denotations used in this paper were explained already in part I of this investigation (Ref 1). The form of this expression essentially depends on the type of the singularity of the potential. This paper investigates only two important special cases: the poles of the first and second order. The reflection amplitude is expanded into a series. L. I. Shiff (Ref 3) and D. S. Saxon (Sakson)(Ref 4) investigated the potential scattering of particles with high energies in the three-dimensional case under the conditions $\varkappa/\alpha \simeq 1$, $\alpha \ll 1$. According to the results of this paper the method of the above mentioned authors cannot be applied to

Card 1/2

The Superbarrier Reflection in Quasiclassical Approximation. II

the scattering into large angles. Their results are equal to the results of this paper only for small $\varkappa/\alpha$, that is, in the region where the perturbation theory can be applied. There are 4 references, 2 of which are Soviet.

ASSOCIATION: Institut radiofiziki i elektroniki (Institute of Radio Physics and Electronics) Sibirskiy filial Akademii nauk SSSR (Siberian Branch, AS USSR)

SUBMITTED: January 31, 1958

AUTHORS: Pokrovskiy, V., Ulinich, F.R., Savvinykh, S. SOV/20-120-3-18/67

TITLE: Local Reflection in Wave Guides of Variable Cross Section (Lokal'noye otrazheniye v volnovodakh peremennogo secheniya)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 3, pp. 504 - 506 (USSR)

ABSTRACT: This paper investigates the local reflection and the scattering of the following type: Scattering and reflection are caused by local "defects" of the shape of the wave guide (i.e.by angles, discontinuities of curvature, etc.) The cross sections of the wave guides are assumed as being constant at the ends, and they are further assumed to change slowly within the transition range. The authors, for reasons of greater simplicity, explain the method applied to the case of a plane wave guide with variable cross section. The z-axis is assumed to be directioned along the wave guide, and the field strength is not assumed to be dependent on the coordinate x. The method used here is a combination of the methods developed by Wentzel(Ventsel')-Kramers-Brillouin (Brillyuen)(WBK-method) and the usual perturbational method. The equation of zero-th approximation and an ansatz for its approxi-

Card 1/3

Local Reflection in Wave Guides of Variable Cross Section

SOV/20-120-3-18/67

mation are written down. In zero-th approximation the individual waves pass through the wave guide without any scattering or reflection. The calculation process is outlined. The results obtained show that the effects produced by reflection and scattering depend essentially on the smoothness of their connecting seam. The method developed here may easily be generalized for wave guides having similar cross sections, and it may also be used in the case of existing points of rotation (punkt povorota).

ASSOCIATION: Institut radiofiziki i elektroniki Zapadno-Sibirskogo filiala Akademii nauk SSSR(Institute of Radiophysics and Electronics, West-Siberian Branch,AS USSR)

PRESENTED: February 12, 1958, by M.A.Leontovich, Member, Academy of Sciences, USSR

SUBMITTED: February 8, 1958

Card 2/3

Local Reflection in Wave Guides of Variable Cross Section SOV/20-120-3-18/67

1. Waveguides--Performance

Card 3/3

SOV/109-59-4-2-2/27

AUTHORS: Pokrovskiy, V.L., Ulinich, F.R., and Savvinykh, S.K.

TITLE: The Theory of Waveguides of Variable Cross-Section (K teorii volnovodov peremennogo secheniya)

PERIODICAL: Radiotekhnika i Elektronika, 1959, Vol 4, Nr 2, pp 161-171 (USSR)

ABSTRACT: The article considers the propagation of the electromagnetic waves in "plane" metallic waveguides of variable cross-section, without taking into account the loss in the walls. It is assumed that at very large distances the cross-sections of the waveguide are constant, though they may be different at various ends of the system. It is also assumed that the walls of the guide are inclined to the axis at a comparatively small angle. The problems of this type were investigated by a number of authors (Ref.1, 2 and 3) who employed the method of the eigen functions of plane diaphragms. This method has a number of disadvantages and, therefore, the aim of this work was to find a more satisfactory method. For the purpose of analysis, it is assumed that the waveguide is excited at its left-hand side terminal

Card 1/5

The Theory of Waveguides of Variable Cross-Section

and that its cross-section increases monotonically. The axis of the waveguide is z and the fields are dependent on co-ordinates y and z. The boundaries of the waveguide are determined by:

$$y = \pm f(\alpha z) \qquad (1)$$

where α is a small parameter. New co-ordinates η and ζ are introduced so that the lines $\eta = \pm 1$ coincide with the boundaries of the waveguide while the lines ζ = const are orthogonal to the lines η = const. Therefore, y can be written as Eq (2) while the lines orthogonal to η = const are given by Eq (3). The parameter C of Eq (3) is expressed in terms of ζ by Eq (4). From Eq (3) and Eq (4), ζ is expressed by Eq (5). The inverse transformation can be done by means of Eq (6) which are accurate to within α^2. The Laplacian in η and ζ co-ordinates is in the form of Eq (9). The electromagnetic field can be expressed by a vector-potential $\vec{A}$ which satisfies Eq (10) and Eq (11) and the boundary conditions expressed by Eq (12). The field vectors can be found from Eq (13). The waves of the electric type

The Theory of Waveguides of Variable Cross-Section

can be determined from Eq (15) where U is a scalar potential given by Eq (16). Similarly, the waves of the magnetic type can be found from Eq (17). If a new variable $\xi = \alpha\zeta$ is introduced, the operators L_o and L_1 (see Eq (9)) are expressed by Eq (19). By employing the Wentzel-Kramers-Brillouin method (Ref 4) and the perturbation method, an expression in the form of Eq (20) is obtained, where β is a small parameter. This equation should satisfy the boundary conditions expressed by Eq (16) or Eq (18). The solution of the equation is in the form of Eq (21) so that Eq (20) leads to Eq (22). The zero approximation U_o of Eq (21) is in the form of Eq (23). The amplitudes U_{no} of Eq (23) can be found from Eq (24). The solution of this is given by Eq (26). For very large ξ, Eq (26) can be expressed by Eq (27). The function of the first approximation U_1 is given by Eq (29). The expressions for U_{n1} can be found from Eq (30) or Eq (34). The solution of these is in the form of Eq (35). For very large ξ, Eq (35) is either in the form of Eq (36) or Eq (37). The integrals in Eq (36)or

The Theory of Waveguides of Variable Cross-Section

Eq (37) are in the form of the function given by Eq (38) and can be expanded into a power series of α. If only one wave having an index 1 propagates from the left-hand side terminal of the waveguide, the transmission coefficient D_1, the reflection coefficient R_1 and the scatter coefficient S_{1n} are expressed by Eq (46). The formulae derived above are employed to analyse two special cases. If the waveguide is such that each boundary consists of three flat planes so that the function $f(\zeta)$ is given by Eq (47), the reflection coefficient is expressed by Eq (48), while the scatter coefficient is given by Eq (50). For a waveguide whose boundaries are determined by the function defined by Eq (51), the reflection and the scatter coefficients are expressed by Eq (52). The above analysis shows that only the changes of the phase are substantially dependent on the form of the waveguide. On the other hand, the amplitudes are primarily determined by the "irregularities" of the waveguide junctions. The authors express their

The Theory of Waveguides of Variable Cross-Section

gratitude to Yu.B.Rumer, V.A.Toponogov and A.I.Yel'kind for valuable discussion. There is an appendix and 4 references of which 2 are Soviet and 2 English.

SUBMITTED: 20th July 1957

Card 5/5

24(3),9(9)
AUTHORS: Pokrovskiy, V., Ulinich, F., Savvinykh, S.

SOV/20-124-2-17/71

TITLE: The Non-Local Reflection in Hollow Conductors of Variable Cross Sections (Nelokal'noye otrazheniye v volnovodakh peremennogo secheniya)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 2, pp 304-306 (USSR)

ABSTRACT: In a previous report the reflection and scattering of waves on the local defects of the shape of the hollow conductor was investigated. The present paper deals with the non-local reflection and scattering which are caused by the nonregularity of the shape of the hollow conductor as a whole. For reasons of simplicity plane hollow conductors are investigated. The authors determine the potential U in form of a series of successive approximations. In zero-th approximation the equation

$$\frac{1}{f}\frac{d}{d\xi}\left(f\frac{dU_{on}}{d\xi}\right) + k_n^2(\xi)\,U_{on} = 0, \quad k_n^2 = k^2 - \frac{\lambda_n^2}{f^2}$$

is obtained.

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The Non-Local Reflection in
Hollow Conductors of Variable Cross Sections

The system of denotation is the same as in the aforementioned previous paper. When solving this equation it is necessary to take not only the passing-through but also the reflected wave into account. The amplitude of the reflected wave is an exponentially small quantity of the type $e^{-A/\alpha}$ $(A > 0)$. For the case under investigation the amplitudes of reflection were determined already by some earlier papers. The equation of first approximation corresponding to the special case under investigation is written down; its solution is found by means of Green's function $G_n(\zeta, \zeta')$. The course of the calculation is followed step by step. In conclusion, the contribution made by the irregular shape of the hollow conductor to the amplitude of the reflected wave and also the interference terms are estimated. Calculations of the amplitude of the backwards scattered wave can be carried out in a similar manner.

SOV/20-124-2-17/71

The Non-Local Reflection in Hollow Conductors of Variable Cross Sections

According to the results obtained by the calculations discussed here, higher approximations make a contribution of a higher order with respect to α than the zero-th and the first approximation. There is 1 Soviet reference.

ASSOCIATION: Institut radiofiziki i elektroniki Sibirskogo otdeleniya Akademii nauk SSSR (Institute for Radiophysics and Electronics of the Siberian Department of the Academy of Sciences, USSR)

PRESENTED: September 25, 1958, by M. A. Leontovich, Academician

SUBMITTED: September 24, 1958

Card 3/3

3,1550 (1041, 1057, 1559)
3,2500

29493
S/035/61/000/009/018/036
A001/A101

AUTHORS: Zharkov, V.N., Ulinich, F.R.

TITLE: On the possibility of existence of the lunar magnetic field, maintained by hydromagnetic amplification

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 9, 1961, 34, abstract 9A266 ("Tr. In-ta fiz. Zemli. AN SSSR", 1960, no. 11 (178), 61 - 66)

TEXT: The authors show that the adiabatic gradient of temperature inside the Moon is of the same order as the gradient of melting temperature ($\sim 10^{-4}$ T km^{-1}). In case of $\Delta T_m > (\Delta T)_{ad}$, a finite temperature discontinuity should exist between the liquid core and the solid crust. The liquid core smelts, its radius increases, and temperature drops. Solidification time amounts to $\sim 10^9$ years. In case of $\Delta T_m < (\Delta T)_{ad}$, convection is absent and distribution of temperature is continuous. To maintain liquid core during 10^{17} sec, radiogenic heat sources with heat liberation of $10^{-15} - 10^{-16}$ cal/sec.cm^3 are sufficient. In a solid Moon the origination and maintenance of a magnetic field due to hydromagnetic amplification is impossible because of high viscosity of the substance.

Card 1/2

29453
S/035/61/000/009/018/036
A001/A101

On the possibility of existence ...

In a liquid core the condition for the possibility of hydromagnetic amplification mechanism is that the value of Reynolds' magnetic number $R_m \gg 1$. In case of silicate composition, characteristic speed $v \gtrsim 1$ cm/sec is necessary. Energy estimates lead the authors to the conclusion that the Moon could have a magnetic field of ~ 1 gauss, if it had a liquid core. The absence of the lunar magnetic field is an indirect indication of the absence of the liquid core. There are 12 references.

V. Safronov

[Abstracter's note: Complete translation]

Card 2/2

S/020/62/142/003/013/027
B112/B102

AUTHORS: Trubitsyn, V. P., and Ulinich, F. R.

TITLE: Transition to the metallic state of solid helium under high pressure

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 3, 1962, 578-580

TEXT: In order to find the energy states of high symmetry of a helium crystal, perturbation theory is applied to the Hartrie - Fock equation which reads in the given case:

$$\hat{\mathcal{H}}_1\psi_k(r_1)+\frac{4a}{\pi}\int\frac{\rho_1(r_2)}{|r_1-r_2|}\,d\tau_2\cdot\psi_k(r_1)-\frac{2a}{\pi}\int\frac{\rho_2(r_1,r_2)}{|r_1-r_2|}\,\psi_k(r_2)\,d\tau_2=\varepsilon(k)\,\psi_k(r_1). \quad (1)$$

where

$$-\hat{\mathcal{H}}_1=\Delta_1+\frac{4a}{\pi}V(r_1),\quad V(r_1)=\sum_n^N\frac{1}{|r_1-R_n|},\quad \rho_1(r_2)=\sum_{k'}^N|\psi_{k'}(r_2)|^2,$$
$$\varepsilon(k)=\frac{2a^2}{\pi^2}E(k),\quad \rho_2(r_1,r_2)=\sum_{k'}^N\bar{\psi}_{k'}(r_2)\,\psi_{k'}(r_1); \quad (2).$$

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Equ. 1 is solved for the ground state and for the weakly excited state. The pressure p at the transition point was found to be $3 \cdot 10^7$ atm.
B. I. Davydov is thanked for assistance. There are 3 references: 1 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: L. P. Bouckart, R. Smoluchowski, E. Wigner, Phys. Rev., 50, 58 (1936), C. A. Seldam, Proc. Phys. Soc., Sect. A, 70, p. 2, 97 (1957).

ASSOCIATION: Institut fiziki Zemli im. O. Yu. Shmidta Akademii nauk SSSR (Institute of Physics of the Earth imeni O. Yu. Shmidt of the Academy of Sciences USSR)

PRESENTED: October 3, 1961, by M. A. Leontovich, Academician

SUBMITTED: September 28, 196

TRUBITSYN, V.P.; ULINICH, F.R.

Metallic transition in lithium hydride. Izv. AN SSSR. Ser. geofiz. no.6:949-950 Je '63. (MIRA 16:7)

1. Institut fiziki Zemli AN SSSR.

(Lithium hydride)

ULINICH, R.B., kand. tekhn. nauk

Measuring equipment and the reliability of production. Standartizatsiia 29 no. 11:8-11 N '65 (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut standartizatsii, Moskva.

LINENBERG, Georgiy Grigor'yevich; ULINICH,R.B., redaktor; LARIONOV,G.Ye., tekhnicheskiy redaktor

[Vibrator condensers] Vibropreobrazovateli. Moskva, Gos. energ. izd-vo, 1955. 142 p. (MLRA 9:3)
(Vibration) (Condensers (Electricity))

L 45278-66 EWT(d)/EWT(1)/EEC(k)-2/EWP(c)/EWP(v)/T/EWP(k)/EWP(1) IJP(c)

ACC NR: AP6015960 (A) SOURCE CODE: UR/0028/65/000/011/0008/0011

29
B

AUTHOR: Ulinich, R. B. (Candidate of Technical Sciences)

ORG: VNIIS

25

TITLE: Problems and ideas. Measuring instruments and the reliability of products

14

SOURCE: Standartizatsiya, no. 11, 1965, 8-11

TOPIC TAGS: measuring instrument, production control, quality control, /E7-2 universal inductance meter

ABSTRACT: The author discusses the inportance of measuring instruments and units of reference, with particular emphasis on standards of general units of reference and units of reference for the various branches of industry. The author suggests that reliability of products be checked against established standards during the production process itself in contrast to "delayed feedback". If properly

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L 45279-66

ACC NR: AP6015960

integrated into the production cycle, such checks can result in better and more reliable products. For better efficiency, such quality control should be carried out with modern methods of mathematical computations. In most cases, precision requirements for measuring instruments refer not to a general, absolute standard but to a relative, initial standard of production. As an example the author uses the E7-2 universal inductance meter, which has a 0.2% margin of error, weighs 26 kg, costs 215 rubles, has 8 controlling devices, and requires a relatively skilled operator. A similar gage built with reference to a relative standard, with a 2-generator circuit, has a 0.05-0.01% margin of error, only two controlling devices, requires no highly skilled operator and costs only on-third to one-fourth the price of the former. [GC]

SUB CODE: 14, 13, 20/ SUBM DATE: none/

Card 2/2

L 44439-66 EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(l) IJP(c)

ACC NR: AP6022454 SOURCE CODE: UR/0422/66/000/001/0032/0034

AUTHOR: Ulinich, R. B.

37
B

ORG: none

14

TITLE: On the problem of a method of selecting reliability criteria

SOURCE: Standarty i kachestvo, no. 1, 1966, 32-34

TOPIC TAGS: reliability, scientific standard, durability, industrial personnel, artillery ammunition, specialized training

ABSTRACT: This paper gives a number of conditions, the combination of which can determine the rational selection of reliability criteria. Simple examples are given for various types of production. Manufactured articles are divided into two groups: unrenewable and renewable. The time conditions of active use are divided into four main groups: continuous, cyclic, random, and one-time. The types of maintenance are divided into two groups and subgroups: serviceable (by personnel without special preparation, by personnel with low qualifications, and by personnel with special preparation) and unserviceable (only under working conditions and under any operating conditions).

SUB CODE: 14/ SUBM DATE: none/ ORIG REF: 002

Card 1/1

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BC

A-1

Decomposition of zinc carbonate and the action of carbon dioxide on zinc oxide. Mechanism of reactions of the type $A_{sol} \rightleftharpoons B_{sol} + C_{gas}$. [illegible] ZAWADZKI and [illegible] Acad. [illegible] but the [illegible] depending [illegible] At low temp. the [illegible] The adsorption [illegible] of solid solution [illegible] $ZnCO_3$ [illegible] (1939, 800) [illegible] and in [illegible] or with [illegible] ZnO does not combine with X-ray observations. [illegible] At room temp. some CO_2, but [illegible] CO_2 is adsorbed [illegible] by ZnO, this being desorbed again at higher temp. There is also a strong activated adsorption at higher temp., equilibrium being reached after a definite amount of gas has been adsorbed. The solid so saturated with CO_2 can adsorb further amounts of gas to an extent which depends on the pressure, and gives a reversible equilibrium pressure. The results are attributed to the difficulty of formation of nuclei of a new phase.

J. W. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Ulinska Alina

POLAND/Inorganic Chemistry - Complex Compounds C.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4082

Author : Poninski Mared, Ulinska Alina

Title : Preparation on a Laboratory Scale of Anhydrous Ferric Chloride Free from Mn^{2+} and Cu^{2+}.

Orig Pub : Roczn. chem., 1956, 30, No 1, 311-314

Abstract : Description of a laboratory method for the preparation of $FeCl_3$ by the action of chlorine on "Armco" iron, at elevated temperature. The content of Mn^{2+} and Cu^{2+} in final products is < 0.005%.

Card 1/1

- 5 -

ULINSKA, Alina; KAMINSKA, Alina

Multimolecular quality of polyvinyl chloride and its mechanical properties. Rocz chemii 34 no.2:637-644 '60. (EEAI 10:1)

1. Katedra Chemii Ogolnej Uniwersytetu M.Kopernika, Torun.
(Chloroethylene) (Polymers and polymerization)

ULINSKA, Alina; STASZEWSKA, Danuta

Preparation of vinylsulphonate. Research on the efficiency and purification of salts. Rocz chemii 35 no.5:1495-1509 '61.

1. Department of General Chemistry, N. Copernicus University, Torun.

KAMINSKA, Alina; Ulinska, Alina

Fractioning polyvinyl chloride in the cyclohexanone-glycol system. Polimery tworz wielk 8 no.9:336-341 '63.

1. Katedra Chemii Ogolnej, Uniwersytet im. M. Kopernika, Torun.

BYCZKOWSKA, Zofia; GANCZARSKI, Alfred; ULINSKA, Irena

Mass food poisoning caused by consumption of pastry infected with Staphylococcus aureus. Polski tygod. lek. 11 no.43:1829-1832 22 Oct 56.

1. (Z III Kliniki Chorob Wewnetrznych A.M. w Lodzi; Kierownik: prof. dr. W. Markert; z Zakladu Bakteriologii A.M. w Lodzi; Kierownik: prof. dr. Z. Szymanowski; z Wojewodzkej Stacij Sanitarno-Epidemiologicznej w Kielcach I Instytutu Medycyny Pracy w Lodzi; Dyrektor: doc. J. Nofer) adres: Lodz: Zachodnia 80 m. 11.

(MICROCOCCAL INFECTIONS, case reports,
food pois. caused by consumption of infected pastry (Pol))
(FOOD POISONING, case reports,
micrococcal infect. caused by consumption of infected pastry (Pol))

ULINSKA, Irena; SZPIMAK, Jerzy

Studies on the sensitivity of Staphylococci and of other bacteria to various antibiotics including sygmamycin. Polski tygod.lek. 14 no.50:2182-2184 D '59.

1. Z Pracowni Analitycznej Panstwowego Szpitala Klinicznego nr 1 A.M. w Lodzi; kierownik; dr med. A.Wierzbowska i z III Kliniki Chrob Wewnetrznych, kierownik: prof. dr W.Markert.
(STAPHYLOCOCCUS pharmacol)
(ANTIBIOTICS pharmacol)

FRONTCZAK,Andrzej; TYDELSKA,Egida; ULINSKA,Irena

On the differences between bacterial floras of the oral cavity and the bronchial tree observed in cases of pneumo. ia. Polski tygod. lek. 15 no.18:657-659 2 My '60.

1. Z III Kliniki Chorob Wewnetrznych A.M. w Lodzi; kierownik prof. dr. med. W. Markert i z Zakladu Analityki Klinicznej; kierownik prof. dr. med. A. Wierzbowska.
(PNEUMONIA microbiol.)
(MOUTH microbiol.)
(BRONCHI microbiol.)

L 50540-65 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1) Pd-1

ACCESSION NR: AP5009171 UR/0376/65/000/001/0129/0131

AUTHOR: Ulinskas, R. (Ulinskas, R. V.); Slanciauskas, A. (Slanchyauskas, A. A.);

TITLE: Determination of the velocity of liquid flow at the wall of a channel

SOURCE: AN LitSSR Trudy. Seriya B. Fiziko-matematicheskiye, khimicheskiye, geologicheskiye i tekhnicheskiye nauki, no. 1, 1965, 129-131

TOPIC TAGS: liquid flow, velocity, channel flow, hydrodynamics

ABSTRACT: The velocities of a steady flow of glycerol at the wall of a channel were determined

the particle to traverse this [illegible] the wall of the channel were [illegible]

L 50540-65
ACCESSION NR: AP5009171

ASSOCIATION: Institut energetiki i elektrotekhniki Akademii nauk Litovskoy SSR (Institute of Power and Electrical Engineering, Academy of Sciences

SUBMITTED: 11Jul64 ENCL: 00 SUB CODE: ME

NO REF SOV: 001 OTHER: 001

Card 2/3

L 50540-65

ACCESSION NR: AP5009171 ENCLOSURE: 01

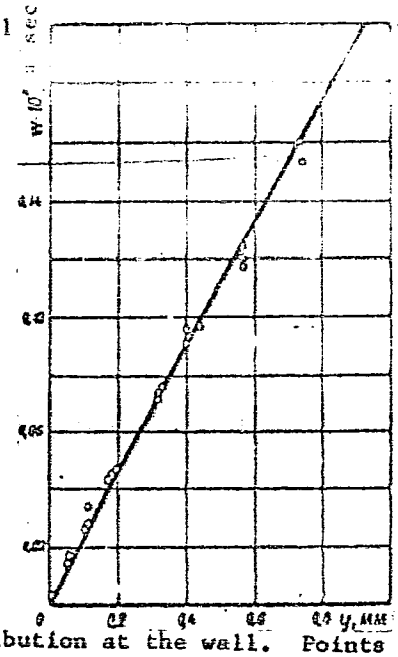

Fig. 1. Velocity distribution at the wall. Points correspond to experimental data; the curve shows the theoretical relationship according to Schlichting.

Card 3/3 me

SMOLYARENKO, D.A.; MATYUSHINA, N.V.; KAPLAN, A.S.; GORZHEVSKAYA, A.V.; Prinimali uchastiye: ULINSKAYA, Ye.I.; BARYSHEVA, I.V.; ROMAS, F.D.; AVRUTSKAYA, R.F., red.izd-va; ISLENT'YEVA, P.G., tekhn. red.

[List of specifications in effect for products of ferrous metallurgy] Perechen' deistvuiushchikh tekhnicheskikh uslovii na produktsiiu chernoi metallurgii; po sostoianiiu na 1 ianvaria 1959 g. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 115 p. (MIRA 13:2)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. 2. Laboratoriya standartizatsii TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (for Smolyarenko, Matyushina, Kaplan, Gorzhevskaya). 3. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut (for Ulinskaya). 4. Nauchno-issledovatel'skiy institut metiznoy promyshlennosti (for Barysheva). 5. Ukrainskiy institut metallov (for Romas).
(Iron--Specifications) (Steel--Specifications)

BALAKINA, I.A.; BOCHKAREVA, A.I.; GORZHEVSKAYA, A.V.; KAPLAN, A.S.; SMOLYARENKO, D.A., kand. tekhn.nauk; TERENT'YEV, Ye.A.; SOTS, G.A.; TREMBITSKIY, Ya.V.; ULINSKAYA, Ye.I.; KHUTORSKAYA, Ye.S., red. izd-va; KLEYNMAN, M.R., tekhn. red.

[Technical specifications in effect on products of ferrous metallurgy; list as of October 1, 1961] Deistvuiushchie tekhnicheskie usloviia na produktsiiu chernoi metallurgii; perechen' po sostoianiiu na 1 oktiabria 1961 g. Moskva, Metallurgizdat, 1962. 141 p. (MIRA 15:5)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
(Iron industry--Tables and ready-reckoners)
(Steel industry--Tables and ready-reckoners)

ULINSKI, G.; JACKOWSKA, I.; NAPIORKOWSKA, E.

Reaction of certain species of barley and oats to precipitation deviciency under the climatic and soil conditions of the Gorzow Wielkopolski Region. Rocz nauk roln rosl 85 no.4:605-636. '62.

1. Pracownia Uprawy Zboz, Instytut Uprawy, Nawozenia i Gleboznawstwa, Gorzow Wielkopolski.

ULINSKI, S.

4036

Uliński S. Permissible Velocity and Axial Load. 625.14 : 625.151

„Dopuszczalne szybkości i nacisk na oś". Przegląd Kolejowy. No. 4, 1955, pp. 130—133, 1 fig., 2 tabs.

A critical survey of the „Tables of permissible axial load for railway rolling stock" — a publication which appeared at the end of 1951 and is based on a simplified Zimmerman formula for bending moments. The values of moments calculated by means of this formula are exaggerated, and the resulting stresses in the rails come out much higher than they are in reality. The author proposes to admit, for practical use, a considerably higher coefficient C than is at present used for the bending (4 kg/cm²); this would authorize much higher velocities and axial loads. This modification would save many tons of new rails used today for constant replacements arising from the low coefficient C applied in calculations.

ULIRZH, Z.

Semicontinuous and continuous dyeing of cotton fabrics in Czechoslovakia. Tekstilna prom 11 no.6:17-18 '62.

1. N. I. institut za tekstilno oblagorodiavane, ChSSR.

ULISCHENKO, V.G.

PHASE I BOOK EXPLOITATION SOV/5452

Donskoy, Ya. Ye., G.I. Kardash, and I.P. Lyalyuk, eds.

Mekhanizatsiya i avtomatizatsiya; sbornik statey ob opyte vnedreniya mekhanizatsii i avtomatizatsii na khar'kovskikh mashinostroitel'nykh zavodakh (Mechanization and Automation; Collection of Articles on the Introduction of Mechanization and Automation in Khar'kov Machinery-Manufacturing Plants) [Khar'kov] Khar'kovskoye knizhnoye izd-vo, 1960. 373 p. 5,900 copies printed.

Editorial Board: S.A. Vorob'yev, Candidate of Technical Sciences; Chairman of the Editorial Board: P.I. Zmaga, Engineer; A.A. Kotlov, Engineer, V.I. Kozubov, Engineer, A. Ye. Leonov, Docent, A.I. Tupitsyn, Candidate of Technical Sciences, and S.M. Khmara, Candidate of Technical Sciences; Eds.: Ya. Ye. Donskoy, G.I. Kardash, and I.P. Lyalyuk; Tech. Ed.: M.I. Limanova.

PURPOSE: This collection of articles is intended for technical and scientific personnel, outstanding workers, and shock workers of communist labor.

COVERAGE: The multifaceted experience of Khar'kov enterprises in the mechanization, automation, and improvement of manufacturing processes is generalized. The development of new machines, instruments, and production methods is considered and attention is given to newly established enterprises, and to the introduction of telemechanics in the Khar'kov gas-system management. By including concrete examples and facts, the authors of the various articles attempt to demonstrate the achievements of the Khar'kov industrial complex in fulfilling the resolutions of the June (1959) and July (1960) Plenums of the Central Committee of the Communist Party of the Soviet Union. No personalities are mentioned. There are no references.

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Shubenko-Shubin, L.A. [Corresponding Member of the Academy of Sciences of the UkrSSR, Chief Designer of the Khar'kovskiy turbinnyy zavod -- Khar'kov Turbine Plant]. The Development of Steam-Turbine Building at the Khar'kov Turbine Plant imeni Kirov 79

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Card 1/8

Mechanization and Automation (Cont.) SOV/5452

Radchenko, S.G. [Chief Engineer of the Khar'kovskiy velosipednyy zavod--Khar'kov Bicycle Plant]. Mechanization and Automation in Bicycle Manufacturing 207

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Trinchenko, P.S. [Director of the "Krasnyy Oktyabr'" Plant]. We Are Improving Machine Quality 232

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Ivashchenko, V.I., I.F. Marov, D.F. Gramotenko, and M.A. Duel' [Engineers]. Technological Progress in the Khar'kov Power System 340

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Venediktov, N.A. [Chief Engineer for the Upravleniye gazovogo khozyaystva -- Administration of the Gas Supply Service]. The Application of Telemechanics in the Khar'kov Gas Supply Service 368

Mechanization and Automation (Cont.) SOV/5452

Tumanov, A.G. [Chief of the Administration of the Gas Industry of the Khar'kov Sovnarkhoz]. The Introduction of New Technology and Processes in Gas Production 371

AVAILABLE: Library of Congress (TJ1160.K59)

TIMAKOV, V.D., prof., red.; ULISKO, A.M., prof., red.

[Variability of micro-organisms and immunity] Izmenchivost' mikroorganizmov i immunitet. Pod red. V.D.Timakova. Moskva, 1959. 280 p. (MIRA 13:1)

1. Moscow. Vtoroy Moskovskiy meditsinskiy institut. 2. Deystvitel'nyy chlen AMN SSSR (for Timakov).
(BACTERIA) (IMMUNITY)

KOKHANOVSKAYA, T.M.; POPOVA, G.O.; ULISKO, I.N.

Sensitivity of freshly-isolated strains of typhoid bacilli to various antibiotics and their combinations. Antibiotiki 6 no.9: 73-79 S '61. (MIRA 15:2)

1. Kafedra mikrobiologii (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey i Moskovskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya (glavnyy vrach M.S.Sokolovskiy).
(EBERTHELLA TYPHOSA) (ANTIBIOTICS)

ULISOV, L.A.

Unit for loading motor-vehicle frames. Avt.prom. 29 no.3:42 Mr '63. (MIRA 16:3)

1. Ul'yanovskiy avtozavod.
(Ul'yanovsk—Loading and unloading)

ULISOV, L.A.

Unit for displacing, lifting and turning motor-vehicle frames.
Avt. prom. 29 no.11:40-41 N '63. (MIRA 16:12)

1. Ul'yanovskiy avtozavod.

ULISOV, L.A.

Telescopic hoist. Avt. prom. 30 no.9:42-43 S '64.

1. Ul'yanovskiy avtomobil'nyy zavod. (MIRA 17:10)

ULISOV, L.A.

High-speed catch for containers. Avt. prom. 30 no.12:39 D '64. (MIRA 18:2)

1. Ul'yanovskiy avtomobil'nyy zavod.

ULISOV, L.A.

Catch with automatic release for loading automobile frames into motortrucks. Avt. prom. 31 no.1:42 Ja '64. (MIRA 18:3)

1. Ul'yanovskiy avtozavod.

ULISOV, L.A.

Equipment for removing scrap from a forge shop. Avt.prom. 31 no.4:43-44 Ap '65. (MIRA 18:5)

1. Ul'yanovskiy avtozavod.

ILISSOVA, I.N.; BUTKEVICH, G.V., doktor tekhn. nauk, prof., red.; ASHKENAZI, E.L., red.; SHKLYAR, S.Ya., tekhn.red.

[International electrotechnical vocabulary] Mezhdunarodnyi elektrotekhnicheskii slovar'. Moskva, Fizmatgiz. Group 15. [Switchgear (distribution boards and devices for commutation, regulation and control)] Kommutatsionnaia apparatura (raspredelitel'nye shchity i apparaty dlia kommunikatsii, upravleniia i regulirovaniia. 1963. 163 p. (MIRA 17:3)

1. International Electrotechnical Commission.

ULISSOVA, T.N.

The brown pigment lipofuscin in health and pathology. Trudy Un. druzh. nar. 7. Vop. med. no.1:140-157 '64. (MIRA 18:9)

1. Kafedra obshchey biologii Universiteta Druzhby Narodov imeni Patrisa Lumumby, Moskva.

ULISSOVA, T. N.

Ulissova, T. N.

"Age changes in the lipofuscin in the human cardiac muscles." First Moscow Order of Lenin Medical Inst imeni I..M. Sechenov. Moscow, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 25, 1956

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65034

Author : Ulissova T.N.
Inst : -

Title : Age Differences in the Content of Lipofuscin in Human Cardiac Muscle

Orig Pub : Byul. eksperim. biol. i meditsiny, 1957, 43, No 5, 118-121

Abstract : The hearts of 100 bodies of individuals from 28 weeks (embryonic period) to 82 years of age were examined. In order to determine the amount of pigment in the myocardium, use was made of the method of planimetric measurements of sketches of the contours of thenuclei with the pigment lying adjacent to them, which were made from sections stained with sudan III and hematoxylin. It was established that the amount of lipofuscin in the myocardium increases with age, reaching a maximum in old age. The most intensive accumulation of lipofuscin occurs in the first years after it makes its appearance (between the ages of 10 and 19); as

USSR/Human and Animal Physiology. Metabolism

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65034

old age is approached the intensity of lipofuscin accumulation declines, a fact which attests against the notion of lipofuscin as an "aging pigment". -- L.A. Kashchevskaya

Card : 2/2

OSIPOVSKIY, Aleksandr Ivanovich; ULISSOVA, Tat'yana Nikolayevna; BOGORAD, V.B., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Textbook of biology] Uchebnik biologii. Moskva, Medgiz, 1962. 298 p. (MIRA 15:11)
(BIOLOGY)

GOLUBEVA, I.V.; PEKHLETSKAYA, V.Ya. [deceased]; GUSEVA, Yu.I.; ULISKO, I.N.; RAGINSKAYA, V.P.; SMIRNOVA, T.V.; BARATS, M.M.; ABROSIMOVA, N.A.; POGOREL'SKAYA, S.A.; PROKOPOVICH, A.V.; ALEKSEYEVA, R.A.

Accelerated and simplified method of laboratory diagnosis of intestinal coli infections with the use of liquids containing specific serum media. Zhur.mikrobiol., epid. i immun. 42 no.2:21-26 F '65. (MIRA 18:6)

1. Moskovskiy institut vaktsin i syvorotok, Ufimskiy institut vaktsin i syvorotok, Dnepropetrovskiy institut epidemiologii, mikrobiologii i gigiyeny, Gor'kovskiy institut epidemiologii, mikrobiologii i gigiyeny, Moskovskiy pediatricheskiy nauchno-issledovatel'skiy institut i Leningradskiy pediatricheskiy meditsinskiy institut imeni Kirova.

POYEMNYY, F.A.; ULIT, O.R.

Tissue therapy in nervous disorders. Zhur.nevr.i psikh. 53 no.10:802-803 O '53. (MLRA 6:10)

1. Kafedra nevropatologii Gor'kovskogo meditsinskogo instituta. 2. Kafedra nevropatologii TSentral'nogo instituta travmatologii i ortopedii.
(Nervous system--Diseases) (Tissue extracts)

L

COUNTRY : USSR
CATEGORY : MEADOW CULTIVATION

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15537

AUTHOR : Ulitchev, I.S.

TITLE : Experiments in the Improvement of Dry Savannah and Pastures in the Conditions of Dry Steppes. [illegible] Don Zonal Sci. Res. Inst. of Agric.

ORIG. PUB. : Byul. nauchno-tekhn. inform. Donsk. zonal'n. n.-i. in-ta s. kh., 1957, 1, 16-18

ABSTRACT : Experiments to study methods of soil cultivation and subsequent sowing of perennial fodder grasses in natural hay fields and pastures in the conditions of semi steppes were conducted in 1952 at the North Caucasus branch of the Scientific Research Institute of Fodders. It was determined that deep plowing (to 25 - 27 cm.) is the best method of preparing soil tillage in soils of average capacity. Thick spike wheatgrass proved the

CARD: 1/2

USSR/Meadow Cultivation. L

Abs Jour : Ref Zhur Biol., No 14, 1958, 63261

Author : Ter-Daniyelyan, V.M., Ulitchev, I.S.
Inst : -
Title : The Creation of Highly Productive Hay Harvests and Pastures on Arid Steppes.

Orig Pub : Ovtsevodstvo, 1957, No 12, 31-32

Abstract : Conducted investigations have indicated the feasibility of an accelerated creation of highly productive hay harvests and pastures in the arid steppes of south-western RSFSR and nrothwestern Kazakh SSR. Moreover, the best method of pre-sowing treatment of the soil is deep plowing and the use of a more suitable culture -- the broad-spiked wheatgrass.

Card 1/1

ULITCHEV, I.S., kand. sel'skokhozyaystvennykh nauk; TER-DANIYELYAN, V.M., kand. sel'skokhozyaystvennykh nauk.

Harvesting alfalfa and esparto seed plants. Zemledelie 6 no.6:12-13 Je '58. (MIRA 11:6)

(Alfalfa--Harvesting)
(Esparto--Harvesting)

ULiTcHevA, A.V.

USSR/Zooparasitology - Acarina and Insect-Vectors and Disease Pathogens. G-3

Abs Jour : Ref Zhur - Biol., No 6, 1958, 24409

Author : Ulitcheva, A.V.
Inst :
Title : Disanophelization of Rice Fields by Agrotechnical Measures

Orig Pub : Med. parazitol. i parazitarn. bolezni, 1957, 26, No 1, 11-17.

Abstract : The chief factors preventing formation of anopheles larvae of different species on Uzbekistan rice fields are heating of the water to 37-38°, sprinkling with turbud water with a large quantity of mineral particles, and strong shading of water surface (which prevents development of submerged growth). Development of larvae on rice fields is totally impossible when the period of strong shading of the water surface coincides with the period of their intensive development. In early sowings

Card 1/3

Abs Jour : Ref Zhur - Biol., No 6, 1958, 24409

of seeds with high germination, and correct attention to sowings. All the measures leading to limitation and total elimination of anopheles larvae on rice fields are part of the complex of agrotechnical measures which secure a large harvest.

B1-5 Ferrous Metallurgy

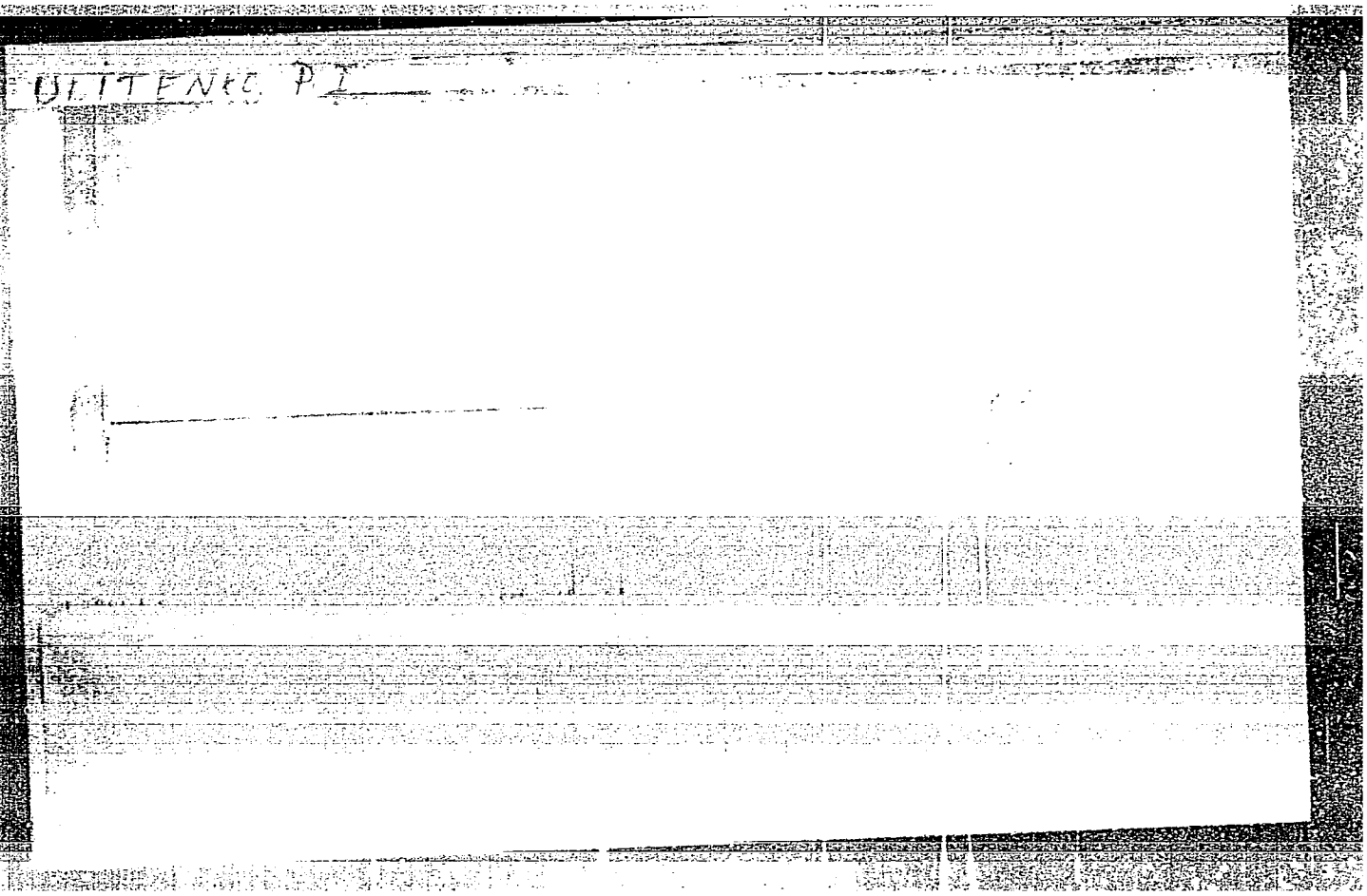
Br. Ch.

Casting (steel) in moulds with cement-sand cores. P. I. Ulitenko. (Stal, 1946, No. 3, 204—207; J. Iron Steel Inst., 1948, 160, 330).—A 1 : 10 core mixture of sand and Portland cement containing 8% of H_2O was used for the production of hollow steel castings weighing up to 5-5 tons. The prep. of the moulds and cores, the composition and properties of the sand, cement, and mix, and the properties of the castings are described. The drying of sand, mould, and core is avoided by the use of cement-sand mixtures, resulting in considerable economy, ramming and finishing are simpler, and the castings are cleaner, more free from blowholes, and stronger than those produced with the usual materials. R. B. CLARKE.

ULITENKO, P. I. (Engr)

ULITENKO, P. I. (Engr) -- " Investigation of the Properties and Methods of Manufacturing Cement-Block Molds for Large Steel Castings." Sub 27 Mar 52, Moscow Order of Labor Red Banner Inst of Steel imeni I.V. Stalin. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: VECHERNAYA MOSKVA, January-December 1952



OSIPOV, Yu.A.; SYSUYEV, V.A.; KOLEVATOV, P.A.; ZHANDAROV, O.V.; DOBRYNIN, A.V.; ULITENOK, V.P.

Mining a seam subject to bumps using the method of water injection into the seam. Ugol' 39 no.8:65-67 Ag '64.
(MIRA 17:10)

1. Permskiy nauchno-issledovatel'skiy ugol'nyy institut (for Osipov, Sysuyev, Kolevatov). 2. Shakhta im. Kalinina kombinata Kizelugol' (for Zhandarov, Dobrynin, Ulitenok).

ULITIN, A.I., inzhener.

Geodetic work for the determination of displacements in hydro-technical structures. Gidr.stroi.23 no.1:31-35 '54. (MLRA 7:2)
(Hydraulic engineering) (Dams)

ULITIN, A.I.

AID P - 3373

Subject	:	USSR/Hydr Eng
Card 1/1		Pub. 35 - 4/16
Author	:	Ulitin, A. I., Eng.
Title	:	Observing the rising of the foundation pit bottom
Periodical	:	Gidr. stroi., 24 6, 11-13, Je 1955
Abstract	:	Observations made at the construction of an unnamed power plant on the rise of the bottom of the excavated pit are reported in detail and the measuring markers are described with tables. The author emphasizes the importance of correct estimation of settling and rise of pit bottoms. Three diagrams.
Institution	:	None
Submitted	:	No date

ULITIN, A.I., inzh.. Prinimali uchastiye: ROZA, S.A., doktor tekhn.nauk; FILONENKO, A.S., prof.; BELIKOV, Ye.F., dotsent. DURNEV, A.I., prof., doktor tekhn.nauk, red.; SOBOLEVA, Ye.M., tekhn.red.

[Instructions for observing the settling and horizontal displacements of hydraulic structures by geodetic methods] Nastavlenie po nabliudeniiam za osadkami i gorizontal'nymi smeshcheniiami gidrotekhnicheskikh sooruzhenii geodezicheskimi metodami. Moskva, Gos.energ.izd-vo, 1958. 111 p. (MIRA 13:6)

1. Gidroenergoproyekt, trust, Moscow. 2. Konsul'tant instituta "Gidroenergoproyekt" (for Filonenko).
(Hydraulic engineering) (Surveying)

SOV/154-58-4-11/18

AUTHOR: Ulitin, A. I., Engineer

TITLE: On Improvements in Organization and Method of Recording Horizontal Shift of Concrete Structures (Ob uluchshenii organizatsii i metodiki nablyudeniy za gorizontal'nymi smeshcheniyami betonnykh sooruzheniy)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 4, pp 97 - 111 (USSR)

ABSTRACT: Until the last few years horizontal shift records were kept only at a few water power developments (Dzora development, Canal imeni V.I.Lenin). No effort has been made in other places to start such records in time. The "Specifications for the Equipment of Water Power Developments With Control Apparatus and Installations" shed some light on the question but these specifications were not everywhere complied with. In the water power developments of Tsimlyanskiy, Kakhovka, Kuybyshev and in other places these records were only started after instead of before the reservoir had been filled. In the planning of the organization of the observations the planning of the surveying-, water power engineers and geologists must

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collaborate. Two methods have emerged in practical surveying work of recording horizontal shifts of water power development structures: The range line method and the combination method. The application of intersecting is limited to observations on plant accessories. Table 1 contains recommendations of error limits not to be exceeded in determinations of the horizontal shift of the offset control point from the nearest stations of the range line. Table 2 contains the tolerances of water power engineering triangulation work. It is recommended to establish an interdepartmental scientific-technical coordination council at the MIIGAiK or at the Ministry of Power Stations of the USSR which would coordinate the design and handling of the diverse types of control equipment produced in different enterprises. In the second section of this paper the results of the observations in the Kegums (Lithuania) water power development are presented. This power station was constructed from 1936-1939, it was blown up in 1944 and was again put into operation in 1947. Already in the first years after 1947 underscoring

On Improvements in Organization and Method of Recording Horizontal Shift of Concrete Structures

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was discovered in the tailrace of the dam. In 1949 the records of the conditions of these structures were continued. This paper includes a description of this work. During the observations in 1952 the initial position of the framework net and of the range-line was determined with the purpose of further observations of the horizontal shifts of structures under pressure load and in connection with possible underscoring in the tailrace and modifications of the operational conditions of the water power development. There are 6 figures and 12 tables.

ASSOCIATION: Leningradskoye otdeleniye Gidroenergoproyekta (Leningrad Branch of the Gidroenergoproyekt)

Card 3/4

AUTHOR: Ulitin, A. I. SOV/154-58-4-15/18

TITLE: Organization of Records of Bottom Rise of Excavation Pits in the Narva Water Power Development During Construction (Organizatsiya nablyudeniy za pod"yemom dna kotlovana Narvskoy GES v period stroitel'stva)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 4, pp 143 - 151 (USSR)

ABSTRACT: The bottom of the excavation pit of the Narva water power development is designed to lie 7 m above the Cambrium loam stratum. The foundation material immediately below the substructure of the power house is composed of alternating sandstone and loam strata. For the record observations of bottom rise in the excavation pit of the power house 14 depth bench marks were established in three profiles at the pit edges. 12 of these bench marks were driven to a point 0,5 m below the projected pit bottom marks and two bench marks were located at the Cambrium loam stratum. The power house measures 42 by 61 m and with a depth of 30 - 35 m. As there arose

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the necessity of placing the bench marks at such a depth a special design of the bench marks, a method of placing them and a leveling method was worked out. The results of the record yielded the following conclusions: 1) the method, the design of the bench marks, of the instruments and devices used in the leveling have proved to be well suited for obtaining the necessary data, which provide the information for a determination of the modifications in the foundation material of the power house after excavation. 2) The procedure of calculating the settling of the power house foundation proved to be in accordance with the character of the depth bench mark movements (the bench marks being placed at different depths). For a further improvement of the records it is demanded: 1) that repeated levelings are to be carried out during excavation work until concrete pouring begins. 2) That the excavation bench marks are to be closely guarded against injurious damage and that they must be attentively watched. 3) In order to prevent an obliteration of the depth bench marks

excavation work is to be stopped when a soil layer of at least 1 m remains above the marks. 4) The grade and the deviation of the drill hole axis of the drill holes into which the excavation bench marks are placed must be measured by special instruments while drilling is in progress. Such equipment includes the inclinometer by Polyakov. 5) Part of the depth bench marks is to be located at places where there is no danger of obliteration and where they can be watched during construction- and post-construction work. 6) The establishment of a elevation and location reference net is a prerequisite of the commencement of the work of placing the depth bench marks. This net must comply with the requirements placed upon water power engineering surveys. There are 9 figures and 3 tables.

ASSOCIATION: Leningradskoye otdeleniye Gidroenergoproyekta (Leningrad Branch of the Gidroenergoproyekt)

BELIKOV, Yevgeniy Fedorovich, dotsent; VORONIN, Viktor Aleksandrovich, inzh.; GLOTOV, Georgiy Fedorovich, dotsent; ZELENKOV, Yuriy Vladimirovich, inzh.; IVANOV, Leonid Fedorovich, inzh.; KORENEV, Gleb Sergeyevich, inzh. [deceased]; MASLENNIKOV, Anatoliy Stepanovich, inzh.; SIROTKIN, Mikhail Pavlovich, dotsent; ULITIN, Andrey Il'ich, inzh.; URUSOV, Nikita Yur'yevich, inzh.; FLOROVSKIY, Yuriy Sergeyevich, inzh.; SHAKHIDZHANYAN, Grand Aleksandrovich, inzh.; EGLIT, Vitaliy Ivanovich, inzh.; VASIL'YEVA, V.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Guidebook on principles of engineering geodesy used in planning and building hydroelectric power stations] Spravochnoe rukovodstvo po inzhenerno-geodezicheskim izyskaniiam pri proektirovanii i stroitel'stve gidroelektrostantsii. Pod obshchei red. E.F.Belikova. Moskva, Izd-vo geodez.lit-ry, 1960. 447 p. (MIRA 13:11)
(Hydroelectric power stations) (Geodesy)

ULITIN, A. P., MIN. ENG.

Manganese Ores.

Modernizing the mining system at a manganese mine, Gor. zhur., no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953/2 Uncl.

ULITIN, M. N., Engineer Cand. Tech. Sci.

Dissertation: "Electric Spark Sharpening of Cutters With Hard Alloy Tips and Investigation of their Cutting Properties."

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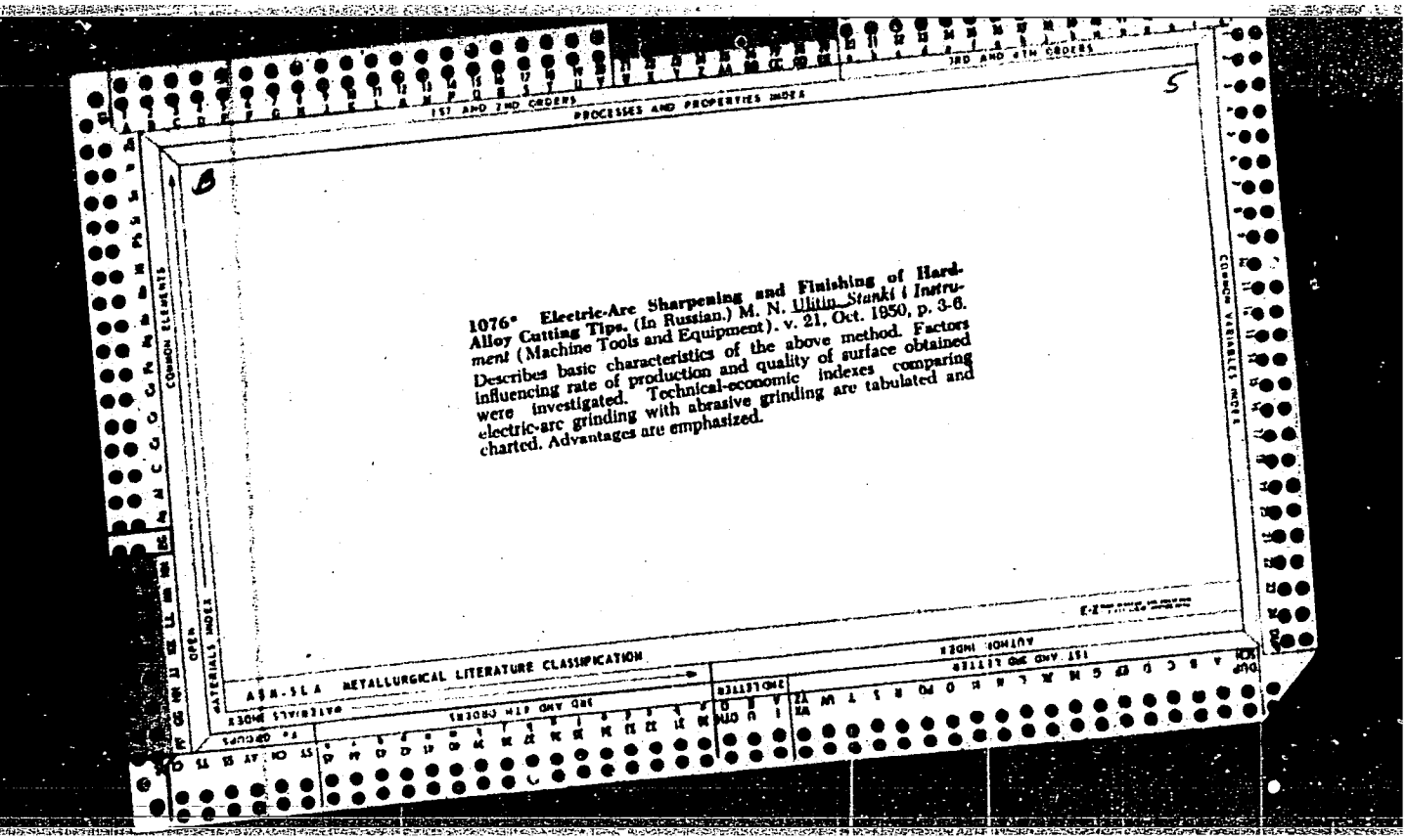

1076* **Electric-Arc Sharpening and Finishing of Hard-Alloy Cutting Tips.** (In Russian.) M. N. Ulitin. *Stanki i Instrument* (Machine Tools and Equipment). v. 21, Oct. 1950, p. 3-6. Describes basic characteristics of the above method. Factors influencing rate of production and quality of surface obtained were investigated. Technical-economic indexes comparing electric-arc grinding with abrasive grinding are tabulated and charted. Advantages are emphasized.

ULITIN, M. N.

Elektroiskrovaia obrabotka metallov. Stenogramma nauchno-populiarnoi lektsii, prochitannoi v Moskve. Moskva (Pravda) 1950. 27 (3) p. illus.

Bibliography: p. 29.

Electric spark technique in metal working.

DLC: TS213.U4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

1. ULITIN, M.N.; BIRYUKOV, A.A.

2. USSR (6CO)

4. Dies (Metal-Working)

7. Electric spark method for readying and repairing forging dies, M.N. Ulitin, Eng. A. A. Biryukov, Sel'khozmashina no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

ULITIN, M.N., kandidat tekhnicheskikh nauk.

Work practice of the TSITM laboratory of electrical methods for working metals. Sel'khozmashina no.5:31-32 My '54. (MLRA 7:5)
(Metal working machinery)

ULITIN, M.N., kandidat tekhnicheskikh nauk.

Relation between the size of the electrode contact area and the productivity of electric spark working of metals. Sel'khozmashina no.7:32-3 of cover Jl '54. (MLRA 7:7)
(Metalwork)

ULITIN, M.N., kandidat tekhnicheskikh nauk; KURITSYN, I.G.

Vibration boring of small-diameter holes. Avt. i trakt.prom. no.1: 36-38 Ja '56. (MLRA 9:6)

1.Moskovskiy avtomekhanicheskiy institut i Nauchno-issledovatel'skiy institut Traktorosel'khozmash.
(Drilling and boring)

ULITIN, M.N., kandidat tekhnicheskikh nauk.

Abrasionless sharpening of hard-alloy cutting instruments. Sel'khoz-mashina no.10:27-32 O '56. (MLRA 9:12)
(Cutting tools) (Metalworking machinery) (Metal cutting)

8(0) SOV/112-59-1-1048

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 1, p 139 (USSR)

AUTHOR: Illisin, M. N., and Deyev, Ye. A.

TITLE: An Electromagnetic-Vibration Machine for Drilling Small Holes

PERIODICAL: Traktory i sel'khozmashiny, 1958, Nr 3, pp 40-43

ABSTRACT: A machine is described for drilling 0.2-0.6-mm holes in metal parts; the machine uses electromagnetic vibration and has an automatic cycle. The machine spindle is driven by a type N-90, 0.2-kw, 18,000-rpm motor; the feed is driven by a type UMT, 0.049-kw, 3,000-rpm motor; an electromagnetic spindle vibrator uses 0.050 kw at 60 v. The vibrator frequency is 100 cps; its amplitude is adjustable within 15-140 microns. Vibrating the spindle improves the drilling conditions and increases the cutting speed several times. Drilling on the new machine is several times cheaper than the previously-used spark puncturing. Drawings, photographs, and an electric diagram of the machine are presented.

L. Ya. L.

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ULITIN, M.N., kand.tekhn.nauk; DEYEV, Ye.A., kand.tekhn.nauk

Using current-conducting abrasives in grinding hard-alloy parts for automatized plants producing steel-bushed roller chains. Trakt. i sel'khozmash. no.11:40-45 N '58. (MIRA 11:11)
(Electric metal cutting) (Grinding and polishing)