

BREKHMEN, I.I.; OSKOTSKIY, L.I.; KHAKHAM, A.I.

Effect of certain preparations from plants of the Aralia family
on experimental radiation sickness. Med.rad. 5 no.2:33-36 P '60.
(MIRA 13:12)

(GINSENG) (RADIATION SICKNESS)

OSKOTSKIY, L.I., mayor meditsinskoy sluzhby

Possibilities of using a B-gamma-radiometer in medical institutions. Voen.-med. zhur. no. 6:37-39 Je '60. (MIRA 13:7)
(X RAYS—SAFETY MEASURES)

OSKOTSKIY, L.I.

Determination of the functional state of the thyroid gland in an
endemic goiter region with the aid of radioactive iodine. Probl.
endok. i gorm. 6 no.6:90-95 '60. (MIRA 14:2)
(THYROID GLAND) (GOITER)

USSR / Pharmacology, Toxicology. Analeptics. V

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85119.

Author : Brekhman, I. I., Khakham, A. I., Oskotskiy, I. I.
Inst : Not given.
Title : The Course and Outcome of Radiation Sickness in
White Mice Following Prophylactic and Therapeutic
Use of a Liquid Extract of Ginseng.

Orig Pub: In the collection: Materialy k izych. zhen'shenya
i limonika. No 3, Leningrad, 1958, 71-77.

Abstract: In experiments on mice, studies were made of the
influence of a liquid extract of the root of the
ginseng (G) on the course of radiation sickness.
The mice were irradiated with doses of X-ray and
with gamma-rays from Co⁶⁰. G, in a dose of 0.1
ml of a 10% solution, was given subcutaneously to
mice every other day. The animals were divided in-

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OSKOTSKIY, V. S.

81965

S/181/60/002/04/26/034
B002/B063

24.7200
AUTHOR:

Oskotskiy, V. S.

TITLE:

The Possibility of Investigating the Density Distribution of Phonons in a Noncubic Crystal With the Aid of Incoherent Neutron Scattering

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 4, pp. 701-703

TEXT: It had been shown in Ref. 1 that the differential cross section of incoherent inelastic neutron scattering from cubic crystals is proportional to the density distribution of phonons. For noncubic crystals, the differential cross section depends on the phonon polarization which is not known. It is shown in the paper under review that it is possible to eliminate the phonon polarization from the differential cross section by examining composite samples. In this case, the sample is made up of twelve lamellas in the following manner: If the first lamella is oriented according to the Cartesian coordinates XYZ, the second lamella is rotated by 120° around the central line of the coordinate trihedron, and the third lamella by 240°. The axes of the fourth, seventh, and tenth lamellas are rotated by

Card 1/2

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24.7100 1035 1043 1158 also 1103

S/181/61/003/002/041/050
B102/B201

AUTHORS: Oskotskiy, V. S. and Efros, A. L.

TITLE: Theory of the crystal lattice with peripheral interatomic interactions

PERIODICAL: Fizika tverdogo tela, v. 3, no. 2, 1961, 611-624

TEXT: This is an extensive theoretical work dealing with problems of the correspondence of the microscopic lattice theory and the elasticity theory. A most general expression is derived in harmonic approximation for the lattice energy density at a given field of displacement of the atoms from their position of equilibrium, describing peripheral interaction. The method of the homogeneous static deformation is then applied to express the elastic constants as functions of the parameters of the microscopic theory, and a condition is derived for the elimination of all components of the initial stress. It is shown that in the absence of initial stresses the elastic constants calculated by the method of homogeneous static deformation coincide with those calculated by the "method

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Theory of the crystal lattice ...

of the 'long wave' (Huang Kun) (in the presence of initial stresses the elastic constants cannot be calculated by the method of the long wave). A relation is found between the parameters determining the energy density and the dynamic matrices. It is shown by the example of simple cubic lattices, that the condition of the absence of all components of initial stresses leads, if only the closest neighbors undergo interaction, to a restriction of the form of dynamic matrices, that cannot be obtained from Born's theory. The paper consists of seven chapters. The problem is first outlined briefly, the method of the long waves and the applicability of the harmonic approximation being discussed next. In the said approximation the lattice energy is given by

$$U = \frac{1}{2} \sum_{ll'} \sum_{kk'} \Phi_{\alpha\beta}(l-kk') u_{\alpha}(l)_k u_{\beta}(l')_{k'} \quad (1)$$

where $\Phi_{\alpha\beta}(\dots)$ denotes the component of the dynamic matrix, $u_{\alpha}(l)_k$ the component of the displacement vector, l the number of the cell, k is the number of the atom in the cell. On a dislocation of the atoms from the

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Theory of the crystal lattice ...

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position of equilibrium

$$v(\Omega) = \frac{1}{V_c} \left\{ \sum_{ik} \sum_{l'k'} \sum_{\alpha} Q_{\alpha} \binom{l-l'}{kk'} u_{\alpha} \binom{l''}{kk'} - \right. \\ \left. - \frac{1}{4} \sum_{ik} \sum_{\substack{l'k' \\ l''k'' \\ l'''k'''}} \sum_{\alpha\beta} Q_{\alpha\beta} \binom{l-l' \ l-l'' \ l-l'''}{kk' \ kk'' \ kk'''} u_{\alpha} \binom{l''}{kk'} u_{\beta} \binom{l''''}{kk''''} \right\}. \quad (2)$$

the general representation of the energy density in the region Ω is then transformed and

$$v(\Omega) = \frac{1}{V_c} \left\{ \sum_{ik} \sum_{l'k'} \sum_{\alpha} Q_{\alpha} \binom{l-l'}{kk'} u_{\alpha} \binom{l''}{kk'} + \right. \\ \left. + \frac{1}{2} \sum_{ik} \sum_{\substack{l'k' \\ l''k''}} \sum_{\alpha\beta} Q_{\alpha\beta} \binom{l-l' \ l-l''}{kk' \ kk''} u_{\alpha} \binom{l''}{kk'} u_{\beta} \binom{l''''}{kk''''} \right\}. \quad (5)$$

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$$Q_{\alpha\beta} \binom{l-l' \ l-l''}{kk' \ kk''} = \sum_{l'''k'''} Q_{\alpha\beta} \binom{l-l' \ l-l'' \ l-l'''}{kk' \ kk'' \ kk'''}$$

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Theory of the crystal lattice ...

is obtained; furthermore

$$F_{\alpha}(l) = -\frac{\partial U}{\partial u_{\alpha}(l)} = -2 \sum_{l'k'} Q_{\alpha}(l-l') + \sum_{l'k'} \sum_{\beta} \Phi_{\alpha\beta}(l-l') u_{\beta}(l'k'), \quad (7)$$

где

$$\Phi_{\alpha\beta}(l-l') = \sum_{l''k''} [Q_{\alpha\beta}(l''-l \quad l''-l') - Q_{\alpha\beta}(l-l'' \quad l-l'')] \quad (8)$$

при $l \neq l', k \neq k'$.

are obtained for the force acting upon the atom lk , and it is shown that if

$\sum_{l'k'} Q_{\alpha}(l-l') = 0$, the matrices $\Phi_{\alpha\beta}(l-l')$ coincide with Born's dynamic matrices from formula (1). By

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Theory of the crystal lattice ...

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$$\Delta v(\Omega) = \frac{1}{V_c} \left\{ \sum_{l'} \sum_{l''} \sum_{k'} \left[Q_{\alpha\beta} \left(\begin{smallmatrix} l & -l' \\ & k k' \end{smallmatrix} \right) \omega_{\alpha} R_{\beta} \left(\begin{smallmatrix} l & -l' \\ & k k' \end{smallmatrix} \right) + \right. \\ \left. + Q_{\alpha\beta} \left(\begin{smallmatrix} l & -l' \\ & k k' \end{smallmatrix} \right) \omega_{\alpha} \overline{u_{\beta} \left(\begin{smallmatrix} l'' \\ k k' \end{smallmatrix} \right)} \right] + \\ \left. + \sum_{l'} \sum_{l''} \sum_{k''} Q_{\alpha\beta} \left(\begin{smallmatrix} l & -l' & l'' \\ k k' & k k'' \end{smallmatrix} \right) \overline{u_{\alpha} \left(\begin{smallmatrix} l'' \\ k k' \end{smallmatrix} \right)} \omega_{\beta} R_{\alpha} \left(\begin{smallmatrix} l & -l' \\ & k k'' \end{smallmatrix} \right) \right\}, \quad (13)$$

$$\text{rAc } R_{\alpha} \left(\begin{smallmatrix} l & -l' \\ & k k' \end{smallmatrix} \right) = R_{\alpha} \left(\begin{smallmatrix} l \\ k \end{smallmatrix} \right) - R_{\alpha} \left(\begin{smallmatrix} l' \\ k' \end{smallmatrix} \right).$$

the conditions to be imposed to the Q matrix are obtained

$$\sum_{l''} \sum_{k''} \left[Q_{\alpha\beta} \left(\begin{smallmatrix} l & -l' & l'' \\ k k' & k k'' \end{smallmatrix} \right) R_{\alpha} \left(\begin{smallmatrix} l & -l' \\ & k k'' \end{smallmatrix} \right) - \right. \\ \left. - Q_{\alpha\beta} \left(\begin{smallmatrix} l & -l' & l'' \\ k k' & k k'' \end{smallmatrix} \right) R_{\alpha} \left(\begin{smallmatrix} l & -l' \\ & k k' \end{smallmatrix} \right) \right] = 0, \quad (16a)$$

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S/181/61/003, 002/041/050
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Theory of the crystal lattice ...

$$\sum_{l k} \sum_{l' k'} [Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'} - Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'}] = 0. \quad (166)$$

$$\sum_{l k} \Phi_{..} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'} = \sum_{l k} \Phi_{..} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'}. \quad (17)$$

Кроме того, из (15) следуют соотношения

$$\sum_{l k} [Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'} - Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'}] = 0, \quad (18)$$

при $s \neq \alpha, s \neq \beta$;

$$\begin{aligned} & \sum_{l k} [Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'} - Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'}] = \\ & = \sum_{l k} [Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'} - Q_{..} \binom{l-l'}{k k'} \binom{l-l'}{k k'} R_s \binom{l-l'}{k k'}] \quad (19) \end{aligned}$$

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Theory of the crystal lattice ...

The determination of the elastic moduli of the crystal is then discussed by the method of the homogeneous static deformation, where the dislocation is expressed in the form

$$u_{\alpha}(k) = \sum_{\beta} \frac{\partial u_{\beta}}{\partial x_{\beta}} R_{\alpha\beta}(k) + u_{\alpha}(k);$$

here, the last term is the displacement component of the sublattice as a whole, consisting of k atoms, $\partial u_{\alpha}/\partial x_{\beta}$ the unsymmetrical deformation tensor.

$$v = \frac{1}{v_0} \left\{ \sum_{l'l''} \sum_{\alpha\gamma} Q_{\alpha\gamma}(l' - l'') \left[R_{\alpha\gamma}(l' - l'') \frac{\partial u_{\alpha}}{\partial x_{\gamma}} + u_{\alpha}(k) - u_{\alpha}(k') \right] + \right. \\ \left. + \frac{1}{2} \sum_{l'l''} \sum_{l''k''} \sum_{\alpha\beta\gamma} Q_{\alpha\beta\gamma}(l' - l'' \ l'' - l''') \left[R_{\alpha\beta\gamma}(l' - l'' \ l'' - l''') \frac{\partial u_{\alpha}}{\partial x_{\gamma}} + u_{\alpha}(k) - u_{\alpha}(k') \right] \times \right. \\ \left. \times \left[R_{\beta\gamma}(l' - l''') \frac{\partial u_{\beta}}{\partial x_{\gamma}} + u_{\beta}(k) - u_{\beta}(k'') \right] \right\}. \quad (23)$$

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Theory of the crystal lattice ...

holds, from which, eventually, using

$$\frac{\partial v}{\partial u_\alpha(k)} = - \sum_{l'k'} \sum_{\alpha'} \left\{ \sum_{\gamma} \Phi_{\alpha\gamma}(l'k') R_{\gamma}(l'k') \frac{\partial u_{\alpha'}}{\partial x_{\gamma}} + \Phi_{\alpha\beta}(l'k') u_{\beta}(k') \right\} = 0. \quad (26)$$

and

$$u_{\alpha}(k) = \sum_{l'k'} \sum_{\alpha'} \Gamma_{\alpha l'}(kk') \Phi_{l'\alpha}(l'k') R_{\alpha}(l'k') \frac{\partial u_{\alpha'}}{\partial x_{\alpha}}, \quad (27)$$

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Theory of the crystal lattice ...

$$v = \frac{1}{v_2} \sum_{ll'} \sum_{kk'} Q_{ll'}(kk') R_1(l, kk') \frac{\partial u_{\alpha}}{\partial x_1} + \frac{1}{2} \sum_{\alpha\beta\gamma\delta} (\alpha\gamma, \beta\delta) \frac{\partial u_{\alpha}}{\partial x_1} \frac{\partial u_{\beta}}{\partial x_1} + \dots + \sum_{\alpha\gamma\delta\epsilon} (\alpha\gamma, \beta\delta) \frac{\partial u_{\alpha}}{\partial x_1} \frac{\partial u_{\beta}}{\partial x_2}, \quad (28)$$

is obtained. After a comparison of results obtained by the method of the static deformation and by the method of long waves, the case of the central interaction is examined. Here one obtains by

$$v(\Omega) = \frac{1}{V_2} \sum_{ll'} \sum_{kk'} \sum_{\alpha} \left\{ Q_{ll'}(kk') u_{\alpha}(kk') + \dots + \frac{1}{2} \sum_{\beta} Q_{\alpha\beta}(kk', kk') u_{\alpha}(kk') u_{\beta}(kk') \right\}. \quad (45) \quad \times$$

$$\Phi_{\alpha\beta}(l, kk') = \frac{\partial^2 U}{\partial u_{\alpha}(l, k) \partial u_{\beta}(l', k')} = -2Q_{\alpha\beta}(l-l', l-l', kk'). \quad (46)$$

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Theory of the crystal lattice ...

$$Q_{\alpha\beta} \begin{pmatrix} l-l' & l-l' \\ kk' & kk' \end{pmatrix} = -\frac{1}{2} \Phi_{\alpha\beta} \begin{pmatrix} l-l' \\ kk' \end{pmatrix} \delta_{ll'} \delta_{kk'} \quad \text{при } l \neq l', k \neq k'. \quad (47)$$

$\{\alpha\gamma, \beta\delta\} = \{\beta\gamma, \alpha\delta\} = \{\alpha\delta, \beta\gamma\}$, while by the method of homogeneous static deformation the condition for the absence of initial stresses reads: $\{\alpha\gamma, \beta\delta\} = \{\gamma\alpha, \beta\delta\}$. Some simple examples are given, and interaction by the introduction of Q matrices is discussed for special cases. B. Ya. Moyzhes is thanked for his interest and advice. There are 6 references: 1 Soviet-bloc and 4 non-Soviet-bloc. X

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors of the AS USSR, Leningrad)

SUBMITTED: July 4, 1960

Card 10/10

29682
S/8/61/003/010/004/036
B102/B108

247560 (1144, 1484)

AUTHOR: Oskotekiy, V. S.

TITLE: Method of homogeneous static deformation for calculating the elastic, piezoelectric, and dielectric tensors of an ion crystal

PERIODICAL: Fizika tverdogo tela. v. 5, no. 10, 1961, 2918-2928

TEXT: The method of long waves by Born and Huang cannot be applied to all elastic properties of ion crystals. The author uses the method of homogeneous static deformation to study the elastic properties of piezoelectric materials. This method consists in determining the change in lattice site potential when the crystal is deformed and in finding the energy density of ions on this potential and the density of Coulomb energy of deformation. The ions are assumed to be rigid and Coulomb-interacting as point sources. The macroscopic field potential is separated by Ewald's method, so that it is not necessary to take boundary conditions into account. The non-Coulomb part of the deformation energy density is introduced in the same way as in a previous paper (FTT, III, 611, 1961). X

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29682

S/'81/c1/003/010/004/036

B102/B'08

Method of homogeneous statics.

The calculations are independent of the shape of the crystal which is assumed to possess no piezoelectric properties. The calculations partly are analogous to those in the book by Born and Huang. The respective results are compared with each other. The results were found to agree with those obtained by the long-wave method if no initial stresses are present. The author thanks A. L. Efros for discussions. There are 4 references: 2 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: K Huang, Phil. Mag. 40, 733 (1949); M Born, K Huang, Dinamicheskaya teoriya kristallicheskikh reshetok (Dynamical theory of crystal lattices), 1958

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad)

SUBMITTED: March 17, 1961

Card 2/2

S/056/62/043/006/049/067
B102/B186

AUTHORS: Zhurkov, I. S., Oskotskiy, V. S.

TITLE: Microscopic calculation of lattice distortions by impurities

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,
no. 6(12), 1962, 2261-2262

TEXT: The distortions of a NaCl lattice caused by Ag^+ , Br^- , Li^+ , K^+ , I^- , and Rb^+ ions are calculated on the basis of the rigid ion model. The calculations are carried out in analogy to those of J. R. Hardy (Phys. Chem. Solids, 15, 39, 1960), assuming electrostatic plus central interactions with a potential of the form $A \exp(-r/\rho)$ with $A = 2.26 \cdot 10^{-9}$ erg and $\rho = 0.217 \cdot 10^{-8}$ cm. The displacement ξ of the ions nearest to the impurity ion is calculated by Hardy's formula and with the values thus obtained the relative displacement $\epsilon_0 = \xi/r_0$ is determined; r_0 is the distance between the nearest neighbors in the NaCl lattice. The theoretical results are compared with experimental data obtained in nuclear paramagnetic resonance measurements (M. I. Kornfel'd, V. V. Lemanov, ZhETF, 43, 6, 2021, 1962) and calculations based on the elasticity theory. The values of n/ϵ_0 ,

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S/181/63/005/004/016/047
B102/B186AUTHOR: Oskotskiy, Y. S.

TITLE: Quasielastic scattering of cold neutrons in a fluid

PERIODICAL: Fizika tverdogo tela, v. 5, no. 4, 1963, 1082 - 1085

TEXT: Cold neutron scattering is analyzed on the basis of the quasicrystal model of a fluid when not only jumps of molecules from one oscillation center to another have to be taken into account but also continuous diffusion of the oscillation centers. The parameters of the theory are determined from experimental determination of the angular dependence of the width of the quasielastic neutron scattering peak for water at room temperature. The following results are obtained: $D = 2.66 \cdot 10^{-5} \text{ cm}^2 \text{ sec}^{-1}$;

$$\tau_0 = 1.7 \cdot 10^{-12} \text{ sec}; D_0 \tau_0 = 0.012 \cdot 10^{-16} \text{ cm}^2 \quad l_0 = \sqrt{6 D_0 \tau_0} = 0.31 \text{ \AA},$$

$l_1 = \sqrt{6(D_1 \tau_1 - D_0 \tau_0)} = 1.6 \text{ \AA}$. D is the total diffusion coefficient, D_0 (D_1) is the coefficient of continuous (jump-like) diffusion, $D(\tau_0 + \tau_1) = D_0 \tau_0$

+ $D_1 \tau_1$, τ_0 (τ_1) is the mean time a particle is in the oscillatory (jump-over) Card 1/2

Quasielastic scattering of cold...

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B102/B186

state; l_0 is the mean distance a particle travels in the period between two jumps, and l_1 is the mean distance of a jump. There is 1 figure.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad)

SUBMITTED: October 29, 1962

Card 2/2

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AUTHOR: Shkotskiy, V. S.

TITLE: The exclusion of coherent scattering of neutrons from the analysis of scattering of slow neutrons by crystals

PERIODICAL: Journal of Applied Physics, theoretical section, vol. 41, no. 2, 1975, pp. 1-7

TEXT: A method of excluding the coherent scattering of neutrons in single lattice diffraction scattering experiments. It consists in evaluating the neutron energy-versus-angle curves for energy gain and loss, and the energy-versus-angle curves. Coherent scattering is possible at the points of intersection of curves. Pure coherent scattering will therefore occur at the condition $\cos^2 \theta_{\text{coh}} > \frac{1}{2} \cos^2 \theta_{\text{incoh}}$, i.e., $v < v_{\text{coh}}$, where v is the velocity of the incident neutron, v_{coh} is the change in neutron velocity during scattering. This can be used for determining the potential energy function in the crystal. To avoid experimental difficulties, use Card 1/2

The exclusion of coherent ...

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... scattering cross-section should be measured near these ...
... elastic scattering is possible. The chief ...
... scattering experiments ...
... There is a figure.

CCP: P. M.: Institut polyp. vuzovsk. uchen. ts. Akad. Nauk SSSR
Semi-directors of the Academy of Sciences USSR

1961 August 1, 1961

Card 2/2

ACCESSION NR: APL034904

S/0181/64/006/005/1294/1302

AUTHOR: Oskotskiy, V. S.

TITLE: On the negative coefficient of thermal expansion in germanium

SOURCE: Fizika tverdogo tela, v. 6, no. 5, 1964, 1294-1302

TOPIC TAGS: negative thermal expansion, vibration spectrum, Debye region, Einstein region, Gruneisen constant, elastic oscillation, neutron diffraction, isothermal compressibility, Brillouin zone, Planck constant, Boltzman constant

ABSTRACT: The dependence of the coefficient of thermal expansion of germanium on temperature was theoretically derived in this work. From data obtained on neutron diffraction a model was developed for the vibration spectrum, consisting of two parts: the Debye region (at the beginning of the spectrum), and the Einstein region (at the end). The longitudinal oscillation was also considered to be in two parts. The Gruneisen constants for the elastic part of the longitudinal and transverse modes were determined from experimental data on the relation between the elastic constants and pressure. The Gruneisen constants for the Einstein region of transverse oscillations and for the other part of the longitu-

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ACCESSION NR: AP4034904

dinal mode were obtained by a comparison of the theoretical and experimental dependences of the coefficient of thermal expansion (β) on temperatures at which β did not yet become negative. According to the theory, β reaches a minimum, at lower temperatures, and subsequently at about 15K again becomes zero. It again reaches a maximum and then decreases, tending to zero as T^3 . For low temperatures, an expression was derived for β containing two undetermined parameters. These were evaluated by comparing the theoretical values and the experimental values obtained for β at 100K and for T_0 , the temperature at which β became zero. For this purpose the results of S. I. Novikova (FTT, 2, 43, 1960) and of R. D. McCammon and G. K. White (Phys. Rev. Lett. 10, 234, 1963) were used. The final form of the expression for β for low temperatures was

$$\beta = +\alpha \frac{2\pi^2 k^4}{15h^3} \left(\frac{\gamma_t}{v_t^3} + 2 \frac{\gamma_l}{v_l^3} \right) T^3,$$

where α is the isothermal compressibility, γ Gruneisen constant, and v the velocity of sound. The subscripts t and l stand for transverse and longitudinal oscillations respectively. The value of the parameter

$$\frac{\frac{\gamma_t}{v_t^3} + 2 \frac{\gamma_l}{v_l^3}}{\frac{1}{v_t^3} + \frac{2}{v_l^3}}$$

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ACCESSION NR: AP4034904

as T tended to zero was found to be 0.43, and was in agreement with the value obtained by W. B. Daniels (Phys. Rev. Lett., 8, 3, 1962). An expression was also derived for β at large temperatures, and the value of β for germanium was computed to be 14.5×10^{-6} per degree. The difference between this value and the formerly obtained ones was caused by the fact that the theory did not take into account the optical mode which becomes significant at high temperatures. The expression obtained for the contribution from this mode was $\beta_{OPT} = \frac{12 \times T \gamma_{OPT}}{a^3}$, where a^3 is the density of crystals. Assuming that the difference between the theoretical and experimental values came from the optical mode, β_{OPT} had to be about 3.6×10^{-6} per degree. The corresponding value for γ_{OPT} was calculated to be equal to 0.3. Orig. art. has: 26 formulas, 2 figures, and 2 tables.

ASSOCIATION: Institut poluprovodnikov, AN SSSR, Leningrad (Institute of Semiconductors, AN SSSR)

SUBMITTED: 07Oct63

DATE ACQ: 20May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 009

OTHER: 007

Card 3/3

L 9610-66 ENT(l)/ENT(m)/EPF(n)-2/EWP(t)/EWP(h)/EWA(l) IIP(o) ID/WH
ACC NR: AP5025378 SOURCE CODE: UR/0181/65/007/010/3003/3007

AUTHOR: ^{44,55} Mirlin, D. M.; ^{44,55} Okotskiy, V. S.; ^{44,55} Rashina, I. I.; ^{44,55} Sairnov, I. A.; ^{44,55} Tikhonov, V. V.; ^{44,55} Zhurkov, I. S. 8/1
21

ORG: ^{44,55} Institute of Semiconductors AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR) B

TITLE: Possibilities for quasi-localizable vibrations in infrared absorption and thermal conductivity in KCl-H crystals

SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3003-3007

TOPIC TAGS: potassium chloride, ^{21,44,55} absorption spectrum, IR absorption, ^{21,44,55} thermal conduction, phonon interaction

ABSTRACT: The authors study the sidebands in the absorption spectrum on a localizable vibration as a function of temperature in potassium chloride crystals with a hydrogen ion impurity. A hypothesis is proposed that these bands are due to combined absorption on localizable and quasi-localizable vibrations. These quasi-localizable vibrations are assumed to be caused by attenuation of force constants when the hydrogen ion replaces the chlorine ion. The curve for thermal conductivity as a function of temperature in the 90-300°K range also shows the effect of quasi-localizable vibrations. The additional thermal resistance caused by hydrogen impurity ions is

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2

MIRLIN, D.N.; OSKOTSKIY, V.S.; RESHINA, I.I.; SMIRNOV, I.A.; TIKHONOV, V.V.;
ZHURKOV, I.S.

Possible appearance of quasi-local vibrations in the infrared
absorption and heat conductivity in KCl-H crystals. Fiz. tver.
tela 7 no.10:3003-3007 O '65. (MIRA 1811)

1. Institut poluprovodnikov AN SSSR, Leningrad.

USSR / Forestry. Forest Biology and Typology

K-1

Abs Jour: Ref. Ser. List., No. 10, 1958, 40112

Author: Oskretsov, N. Ia.

Inst: Bryansk Forest Management Institute

Title: The Effect of Different Degrees of Light on the
Reproduction of Pine and Spruce

Orig. Pub: Tr. Bryanskogo Leskhoz. Inst., 1957, 3, 117-118

Abstract: The purpose of this study was to verify Prof. V. G. Nesterov's conviction that spruce, pine, oak, and probably other varieties not only tolerate but live shade during the beginning of their existence. The study was conducted at the Bryansk Institute of Forestry and covered an investigation of the

Card 1/3

USSR / Forestry. Forest Biology and Typology

K-2

Tr. Zhurn. Detskaya-191., 1910, 1911, 1912

light requirements of pine and spruce shoots raised in growing vessels both under the cover of the forest and in the clearings (the method of the experiment is described). It was determined that the best growth of the pine and spruce shoots take place in full light. The absence of direct sun radiation (slight shading) noticeably depressed the development of the root system in the spruce and greatly weakened the growth of the roots in the pine. Intense shading during the vegetative period leads to the loss of the pine shoots and it also leads to a distinct weakening of the spruce. Under the conditions of strong shading (under the canopy) the shoots are etiolated and become susceptible to diseases (fusarium infection, etc.). There are very few shoots under the tree canopy and in clear-

card 2/2

... / Forestry. Forest Biology and Typology

1-1

... Journ: Ref. Ser.-Biol., No. 10, 1955, 4391

ings with a thick litter of leaves even when there
is a large quantity of seeds sown. -- L. V.
Nesmelov

Seed 1/3

1/4

POLAND/Chemical Technology. Chemical Products and Their
Application. Ceramics. Glass. Binders. Concrete.

F-13

Abs Jour: Ref Zhur-Khin., No 13, 1958, 44148.

Author : Lecznar Franciszek, Oskroba Stefan.

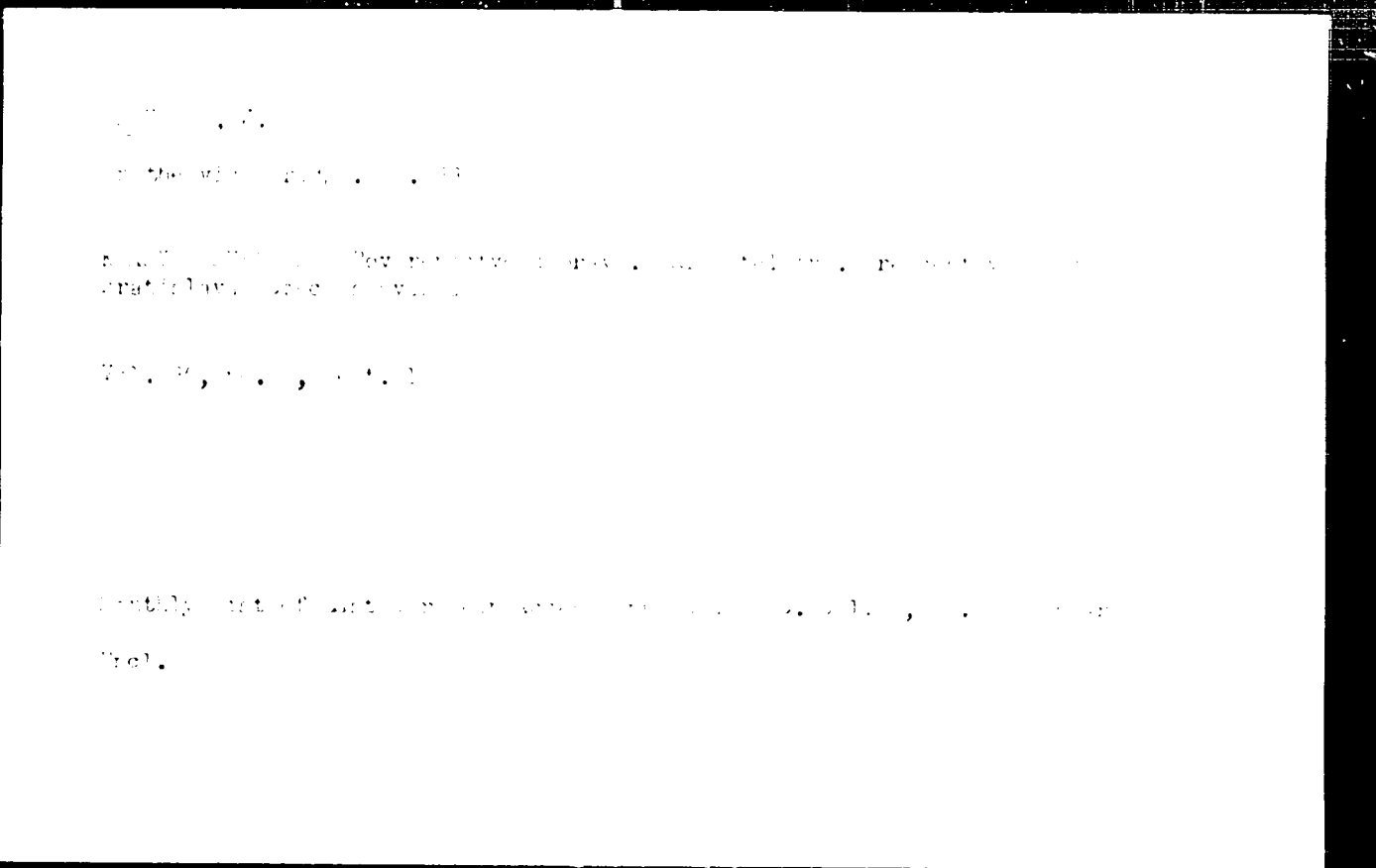
Inst :

Title : Compact Concrete as a Material for the Construction
of Storage Containers for Petroleum and Gasoline.

Orig Pub: Nafta (Polska), 1957, 13, No 7-8, 197-204.

Abstract: Concrete and mortars impermeable to petroleum and gasoline can be prepared from Polish portland cement of grade "350" with a water/cement ratio not exceeding 0.20-0.25. Mortars are made with basalt flour (1:1), and concrete -- with basalt, limestone, and in part with porphyry aggregate, 2-12 mm particle size. The primary prerequisite of impermeability of

Card : 1/2



OSLEJSEK, Jiri, inz.

Pipe laying without trench excavation. Vodni hosp 14 no.7:
269-271 '64

1. Chair of Sanitary Engineering, Higher School of Technology,
Brno.

OSLEJSEK, Oldrich, inz.

Notes on cooling the smaller asynchronous squirrel-cage motors.
El tech obzor 52 no.2:73-79 F '63.

L 33685-66 SCTB DD

ACC NR: AP6024252

SOURCE CODE: CZ/0032/65/015/008/0582/0588

AUTHOR: Vasulin, M. (Doctor of medicine; Brno) Oslejsek, O. (Engineer; Candidate of sciences; Brno)

ORG: none

TITLE: Heat exchanger for deep hypothermy

SOURCE: Strojirenstvi, v. 15, no. 8, 1965, 582-588

TOPIC TAGS: heat exchanger, blood, surgery, hypothermia

ABSTRACT: The article describes a new type of heat exchanger developed for cooling blood during operations carried out in a state of deep hypothermy. The exchanger is outstanding for its small size and high efficiency and is easy to clean and sterilize. Hydraulic and thermal properties of the exchanger are discussed in detail. This paper was presented by Engineer J. Schneller. Orig. art. has: 11 figures, 10 formulas and 2 tables. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 13, 06 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 017

Cord 1/1

PE

UDC: 536.24:536.48

0915

1903

STEJSKAL, J.; BOZDECHOVA, N.; OSLEJSKOVA, M.

Presence of atypical lymphocytes in clinically healthy children
and in some infections during childhood. Cesk. pediat. 19 no.2:
157-160 F'64.

1. Infekčni oddelení fakultní detske nemocnice v Brne; vedouci:
doc.dr. Vl.Kluska.

*

I 20861-66 EWP(t) IJP(c) JD

ACC NR: AP6011083

SOURCE CODE: CZ/0017/65/054/011/0527/0537

AUTHOR: Oslejsek, Oldrich (Engineer; Candidate of sciences)

ORG: none

TITLE: Analysis of the cooling of enclosed induction motors ^{2, 7, 4}

SOURCE: Elektrotechnicky obzor, v. 54, no. 11, 1965, 527-537

TOPIC TAGS: electric motor, heat resistance, hydraulic resistance

ABSTRACT: Prototypes of enclosed induction motors with an outer diameter of the stator winding of 500 mm and an output of 200 kw (2p = 4) and 100 kw (2p = 8) were subjected to ventilating and thermal tests. Suitable hydraulic and thermal resistances were obtained for the machines after mutual adjustment of the calculated and measured values. The influences of changes in thermal resistances and losses upon the rise in temperature of the winding was examined, and the expediency of modifications in the further development of the machines judged according to those changes. Orig. art. has: 10 figures, 5 formulas, and 5 tables. [JPRS]

SUB CODE: 09, 20 / SUEN DATE: 15Jun65 / ORIG REF: 017 / OTH REF: 005

SOV REF: 001

Cord 1/1 *goc*

UDC: 621.313.333.017.72

50
B

2

STEJSKAL, J.; OSLEJSKOVA, M.; GREGOROVA, Y.

Liver disorders in influenza in childhood. Scr. med. fac.
med. Brunensis 36 no.3:139-145 '63.

1. Infekcni oddeleni Fakultni detske nemocnice v Brne, Cerna
pole Vedouci doc. MUDr. V. Kluska Biochemicke oddeleni
Fakultni detske nemocnice v Brne, Cerna pole Vedouci MUDr.
O. Teyschl.

(INFLUENZA) (AMINOTRANSFERASES)
(ALANINE AMINOTRANSFERASE)
(ASPARTATE AMINOTRANSFERASE)

OSLIKOVSKAYA, Ye.S.

Innovators of farm mechanization . Nauka i pered. op. v sel'khoz.
7 no.10:5-9 0 '57. (MLEA 10:11)
(Agricultural machinery)

OSLIKOVSKAYA, Yelena Sergeyevna; KRAVCHENKO, Z.I., red.; SMIRNOVA, Ye.A.,
takhn.red.

[Methods of promoting scientific achievements and advanced
practices] Metodika propagandy nauchnykh dostizhenii i
peredovogo opyta. Izd.2., perer. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1958. 230 p. (MIRA 12:7)
(Agricultural extension work)

OSLIKOVSKAYA, Ye.S., kandidat ekonomicheskikh nauk.

Mass drive of leading workers for high grain yields. Nauka i pered.op.v
sel'khoz. 7 no.7:35-38 J1 '57. (MLRA 10:8)
(Grain)

OSLIKOVSKAYA, E.S., kandidat ekonomicheskikh nauk.

The training of specialists should meet present requirements. Nauka
i pered.op.v sel'khoz.7 no.1:4-6 Ja '57. (MLBA 10:2)
(Agriculture--Study and teaching)

CONFIDENTIAL, ...

Col. [Name] [Rank] [Branch] [Location] [Date]

(S) [Name] [Rank] [Branch] [Location] [Date]

OSTRENKO, V.Y., kand.tekhn.nauk; HOBRAKOV, I.D., inzh.; Primalni uchastiyee:
ROZENFEL'D, N.B.; OSLAMENKO, I.S.; TSERETELI, P.A.; MINDLIN, I.D.;
KUPERSHTEYN, Ye.A., TOPAL, V.A.

Organizing the rolling of large-diameter thin-walled pipes on the
heavy-duty automatic unit at the Zakavkazskiy Metallurgical Plant.
Biul.nauch.-tekh.inform.VNITI no.4/5:17-23 '58. (MIRA 19:1)
(Tiflis--Pipe mills)

1. OSLIKONSHAYA, N. S.
2. USSR (600)
4. Agriculture - Study and Teaching
7. Raising qualifications for agricultural specialists. Sov. agron., 19, No. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. OSLIKOVSKAYA, F.
2. USSR (600)
4. Agriculture - Ukraine
7. Pamphlets on progressive practice in agriculture, Sots.sel'khoz. Zh. no. 1, 1953.

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

1. OSLIKOVSKAYA, YE.
2. USSR (600)
4. Ukraine--Agriculture
7. Pamphlets on progressive practice in agriculture, Sots. sel'khoz, 24, No. 4, 1953.

9. Monthly List of Russian Accessions. Library of Congress, April, 1953, 2nd.

OSLIKOVSKAYA, Ye., kand.ekon.nauk

Great shortcomings in the "Agriculture" Pavilion of the Exhibition of Achievements of the Soviet National Economy. Nauka i pred.op.v sel'khoz. 9 no.9:53-56 S '59. (MIRA 13:2)
(Moscow--Agricultural exhibitions)

KOLDOBSKIY, A.G.; MEDVEDEV, S.I.; PISKOPPEL', F.G.; YAKOBSON, M.G. Primalni uchastnye: BERKHIN, I.B.; OSLIKOVSKAYA, Ye.S.; PEREKISLOVA, A.M.; LITVIN, V.M.; PARKHOMENKO, Ye.V.; STOTIK, A.M.; SHAPIRO, T.I.; STRUMILIN, S.G., akad., glav. red.; ALEKSENKO, G.V., red.; ANISIMOV, N.I., red.; VOLODARSKIY, L.M., red.; GERSHBERG, S.R., redaktor; red.; PETROV, A.I., red.; POSVYANSKIY, S.S., red.; BAZAROVA, G.V., kand. ekonom. nauk, starshiy nauchnyy red.; KISEL'MAN, S.M., starshiy nauchnyy red.; LIVANSKAYA, F.V., kand. ekonom. nauk, starshiy nauchnyy red.; GLAGOLEV, V.S., nauchnyy red.; NEDBAYEV, V.I., nauchnyy red.; TUMANOVA, N.L., nauchnyy red.; TOVMASYAN, M.E., red.; BLAGODARSKAYA, Ye.V., mladshiy red.; SHUSTROVA, V.M., mladshiy red.; ZENTSEL'SKAYA, Ch.A., tekhn. red.

[The economic life of the U.S.S.R.; chronicle of events and facts, 1917-1959] Ekonomicheskaya zhizn' SSSR; khronika sobytii i faktov 1917-1959. Glav. red. S.G.Strumilin. Chleny red. kollegii: Aleksenko i dr. Moskva, Gos. nauchn.izd-vo "Sovetskaya entsiklopediya," 1961. 779 p. (MIRA 14:10)

1. Tsentral'naya nauchnaya sel'skokhozyaystvennaya biblioteka Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. Lenina (for Litvin, Parkhomenko, STOTIK, Shapiro).

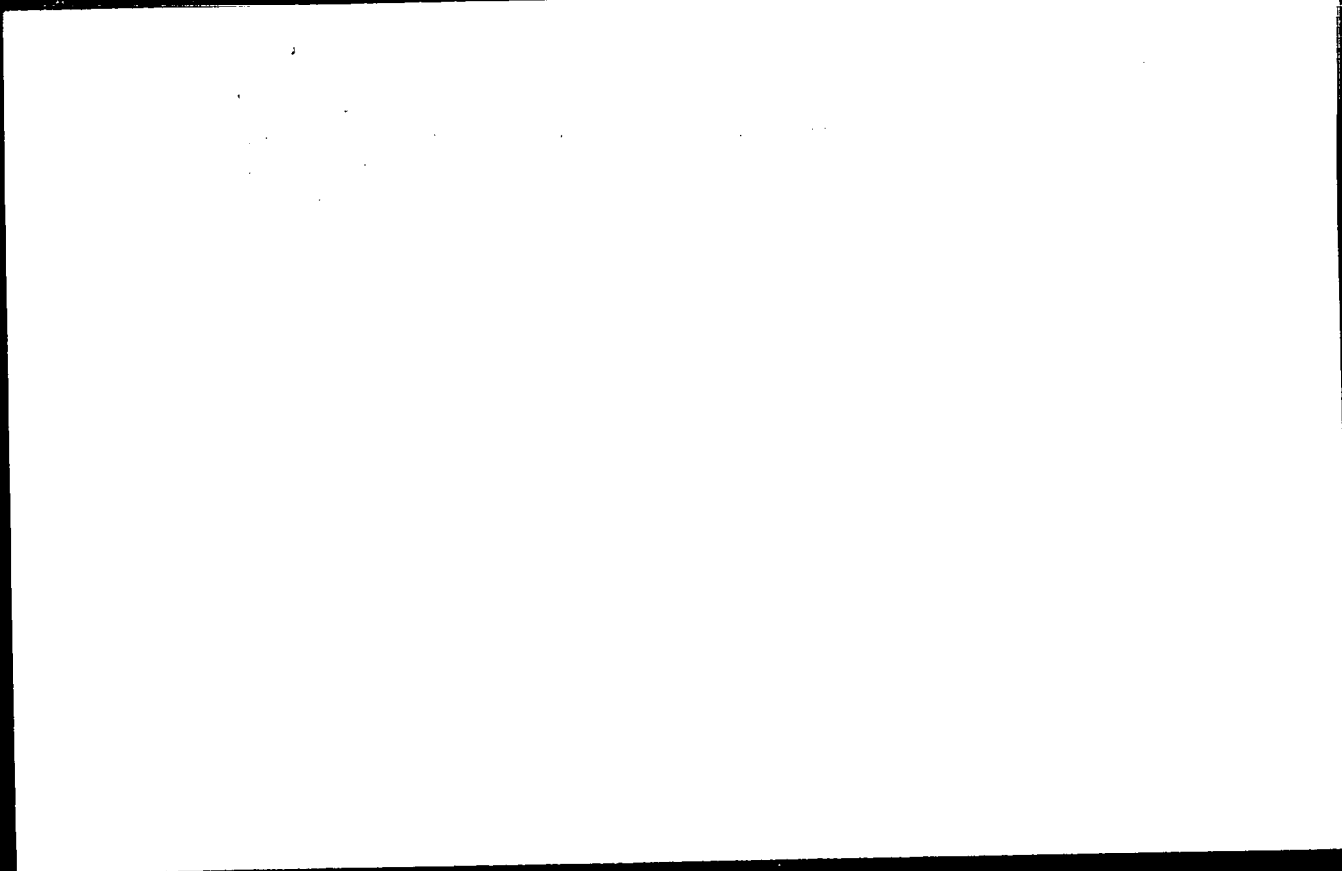
(Russia--Economic conditions)

VADIKOVSKAYA, Lyudmila Mikhaylovna; DONSKAYA, Galina Kupriyanovna;
OSLIKOVSKAYA, Ye.S., kand.ekon.nauk, nauchnyy red.; SEMENOVA,
V.A., red.; SUSHKO, A.O., red.; KHOVANSKIY, I.P., tekhn.red.

[Agriculture] Sel'skoe khoziaistvo. Moskva. (Biblioteka samo-
obrazovaniia) Vol.1. [The economics and organization of
socialist agriculture in the U.S.S.R.; a bibliography] Ekonomika
i organizatsiia sotsialisticheskogo sel'skogo khoziaistva v SSSR;
rekomendatel'nyi ukazatel' literatury. Nauchnaia red. E.S. Oali-
kovskoi. 1957. 102 p. (MIRA 12:4)
(Bibliography---Agriculture)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

OSLIKOVSKAYA, Ye.S.

Those who prepared the way for the upswing in dairy husbandry.
Nauka i pered.op.v sel'khoz. 7 no.9-2-4 S '57. (MIRA 10:10)
(Dairying)

CSLIKOVSKA, Ye. S.

Farm Management

Survey of articles received at "Soviet Agency's" editorial office. Includes agriculturalist Ye. S. Cslikovska's article "Training and placing agricultural specialists." Sov. agrop. 10 no. 7, 1955.

9. Monthly List of Russian Accessions. Library of Congress, Quarterly 1955. 2

OSLIKOVSKAYA, YF. S.

Stock and Stockbreeding

Zootechnical knowledge for all farm workers. Sots. zhiv. 14 no. 3, 1967

9. Monthly List of Russian Accessions. Library of Congress, June 1952 Uncl.

P/006/60/008/002/003/0
A222/A026AUTHOR: Osliński, ZbigniewTITLE: On Motion Alternation at a Certain Non-Linear Damping

PERIODICAL: Rozprawy Inżynierskie, 1960, Vol. 8, No. 2, pp. 167-175

TEXT: The author is concerned with the investigation of the motion described by the equation

$$\ddot{x} + R(x) + \omega^2 x = 0 \quad (1.1)$$

where $\omega^2 = \text{const}$ and $R(x)$ is a non-linear function of speed. For damping characteristics satisfying the condition $R(x)\dot{x} > 0$ in a certain finite or infinite interval $(-V, V)$. He establishes some of the oscillatory characteristics of the motion. Making use of (Ref. 1,2) and supplementing them with his own considerations, he finds that the oscillatory nature of the motion depends only on the coefficient of the first power of the power expansion of the function $R(x)$. The notion of the critical line is introduced. The oscillatory character of the motion is determined by the mutual position of the critical line and the damping characteristic $R(x)$. It is also shown that in the non-alternating case a motion is possible for which the deflection has at most one

Card 1/2

OSLOBEANU, M., ing.; ALEXANDRESCU, I., ing.

Cultivation of grapevines on terraces. St si Teh Buc
14 no.12:16-17 D'62.

1. Experiment Station, Dobruja.

OSLOBEANU, M., ing.; ALEXANDRESCU, I., ing.

Cultivation of grapevines on terraces, an important means
of making hillside soils valuable. St si Teh Buc 14 no.12:
16-17 D'62.

1. Statiunea experimentală Dobruja.

OSLOEANU, M.; MUJDABA, F.

Grapevine varieties for red wines in the Murfatlar Vineyard.
Comunicarile AR 13 no.8:733-742 Ag'63.

1. Comunicare prezentata de academician Gh.Constartinescu.

OSION, A.B., inzhener. (g.Zlatoust)

On measuring ground resistances. Elektichestvo no.2:56-58 F '57.
(MLRA 10:3)

(Electric currents--Grounding)

OSLOH, A.B., insh.

Calculating several types of complex ground electrodes. Elektrische-
stvo no.4:58-61 Ap '58. (MIRA 11:5)
(Electric current--Grounding)

OSLON, A.B.

Method of mean potentials. Nauch.dokl.vys.shkoly; energ.
no.2:79-82 '59. (MIRA 13:1)

1. Rekomendovana kafedroy TVN Moskovskogo energeticheskogo
instituta.
(Electric conductors)

8(2)

AUTHOR: Oslon, A. B., Engineer

SOV/105-59-7-21/30

TITLE: Calculation of Rectangular Grounding Circuits (Raschet pry-
amougol'nykh zazemlyayushchikh konturov)

PERIODICAL: Elektrichestvo, 1959, Nr 7, pp 79 - 81 (USSR)

ABSTRACT: A rather exact and simple method of calculating earthing-re-
sistances of rectangular grounding circuits with internal grid
wiring and without vertical elements is given. Such grounding
circuits have been calculated by E. T. B. Gross and R. S.
Hollitch (Ref 2) on an electronic computer. The method employed
by these authors does not make it possible to carry out cal-
culations of an arbitrary ground circuit without having to
solve a large number of linear equations. Formula (12) is de-
duced for the resistance of the ground circuit (Fig 3). Table 2
shows the results obtained by means of the described method
as well as those obtained by Gross and Hollitch. In most
cases the results obtained here for the same grounding circuits
are about 5% higher than those obtained by the two Americans.
As, when calculating grounding, an accuracy of 10% is con-
sidered to be sufficient, the results may be considered to

Card 1/2

Calculation of Rectangular Grounding Circuits

SOV/105-33-7-21/30

be satisfactory. The method described permits the calculation of earthing ground circuits of any configuration and to obtain the results as formulas for any values of l (length of the element) and d (diameter of its cross section), without having to use electronic computers. There are 4 figures, 2 tables, and 3 references, 2 of which are Soviet.

SUBMITTED: August 4, 1958

Card 2/2

AUTHOR: Colon, A. B., Engineer

105-58-4-13/57

TITLE: Calculating Several Types of Complex Ground Electrodes
(Raschet nekotorykh vidov slozhnykh zazealiteley)

PERIODICAL: Elektrichestvo, 1958, Nr 4, pp. 58 - 61 (USSR)

ABSTRACT: In the calculation of complex ground electrode installations usually the factors of utilization are used. In many cases, however, a calculation can be carried out according to more simple formulae without using these factors. Such a calculation is shown here for a ground electrode installation consisting of n elements. The problem consists in the determination of the proper and mutual (reciprocal) potential factors and the current distribution between the ground electrode elements. The proper factors are usually essentially greater than the reciprocal ones. Therefore the latter need not be determined exactly. In linear ground electrode installations the latitudinal dimensions of which are small compared to longitudinal measurements the proper and reciprocal factors can most easily be calculated by the method of the mean potentials (Ref 1). By the method of calculation given here

Card 1/1

Calculating Several Types of Complex Ground Electrodes

105-58-4-13/37

the ground electrode resistances can be calculated for the following ground electrode installations: fourmembered star right angle (formed by two horizontal beams) threemembered star, sixmembered star, square, rectangle. There are 5 figures, 1 table, and 4 Soviet references.

SUBMITTED: April 18, 1957

AVAILABLE: Library of Congress

1. Electrodes-Theoretical analysis

Card 2/2

OSLOV, A.B., inzh. (Perm')

Design of deep grounding rods for electric power transmission line
towers. Elektrichestvo no.12:59-63 D '61. (MIRA 14-14,
(Electric lines--Overhead) (Electric currents--Grounding)

OSLON, A.B., 1952. (No. 4)

Dependence of the grounding resistance on the dimensions of the
grounding device. *Elektricheskaya tekhnika*, 1952, No. 104.

(MIRA 1952)

OS. N. A. S. 1961.

Concerning the design of electrical grounding devices for rural power distribution networks. Eksp. stat. 1961. 17/18.

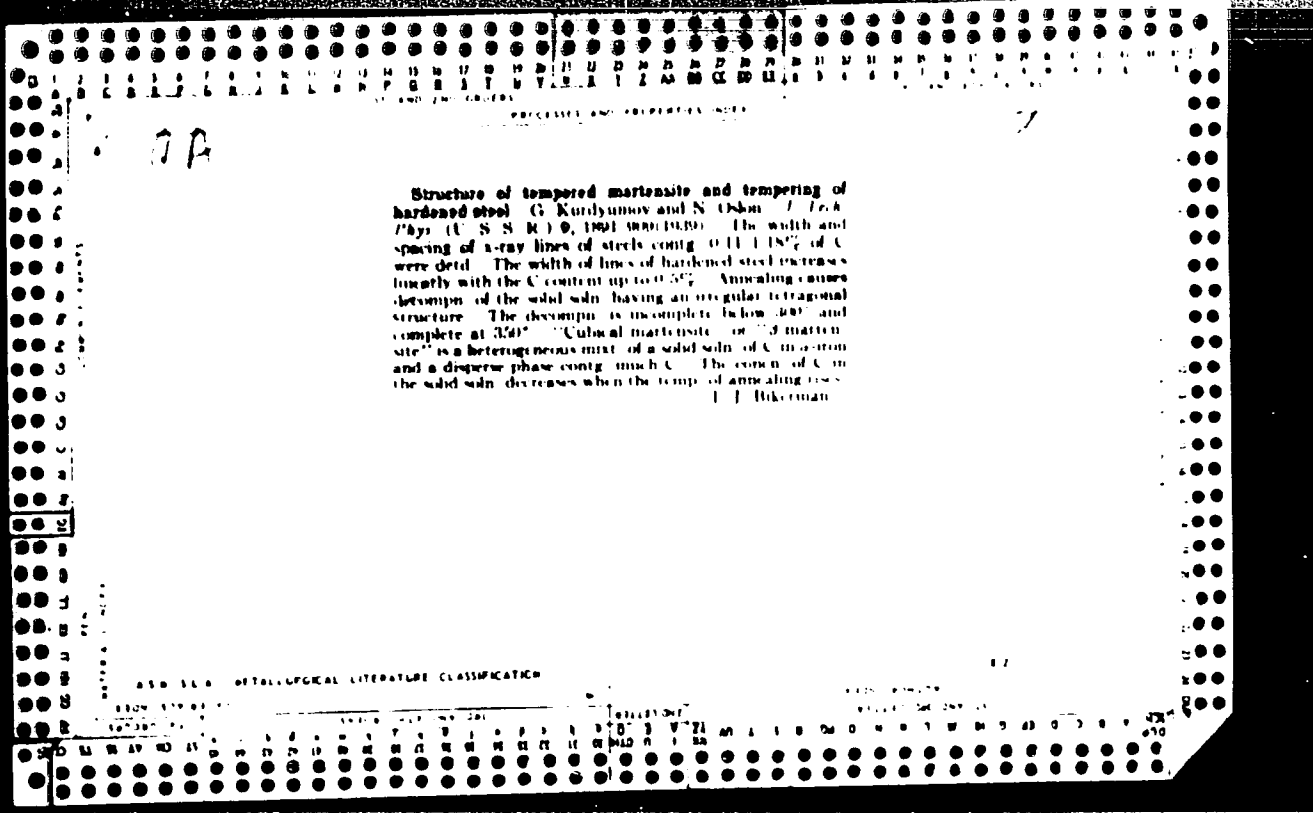
OSLON, I.

The artels of Dnepropetrovsk utilize progressive experience.

Prom.koop. no.11:47-49 N '55.

(MLBA 9:5)

1. Predsedatel' pravleniya Dnepropetrovskogo oblmetallopromsoyuza.
(Dnepropetrovsk--Metalwork)



OSTRENKO, V.Ya.; YUFEROV, V.M.; GEYKO, I.K.; TYR, V.R.; OSLOK, N.A.;
CHEMEFINSKAYA, E.I.; VIL'YAMS, O.S.; LAGUTINA, E.V.

Pipe production from new heat-resistant ferritic-martensitic
steels. Stal' 23 no. 3:258-263 Mr '64. (MIRA 17:6)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut,
Per-voural'skiy novotrubnyy zavod i Nikopol'skiy yuzhnotrubnyy
zavod.

ACCESSION NR: AP4019481

S/0133/64/000/003/0258/0263

AUTHOR: Ostrenko, V. Ya.; Yuferov, V. M.; Gayko, I. K.; Ty*r, V. P.;
Osion, N. A.; Chererinskaya, R. I.; Vil'yams, O. S.; Lagutina, R. V.

TITLE: Manufacture of tubes from new ferritic martensitic heat
resistant steels

SOURCE: Stal', no. 3, 1964, 258-263

TOPIC TAGS: heat resistant steel, steel tube, ferritic martensitic
steel, tube rolling

ABSTRACT: The authors report on techniques developed in recent years
by the Ukrainskiy n.-i. trubny*y institut (Ukrainian Tube Research
Institute) in cooperation with tube factories in Pervoural'sk and
Nikopol for hot rolling and heat treating of tubes made from 9 new types
of steel, all of which contain 10—14% Cr and additions of V, Mo, Nb,
and W. The AC temperature was in the range of 810—830C; ferrite
grain growth was noted above 1100C; piercing temperatures varied from
1090 to 1200C. Ductility at high temperatures was found to depend on
the content of free ferrite, and piercing of tube billets presented no

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ACCESSION NR: AP4019481

difficulties at a content of 50%. At 15—20% ferrite hot tears, cracks, and laps were formed. Annealing of hot-rolled and reduced tubes at 770—780C imparts a structure of granular pearlite and the mechanical properties needed for further cold reduction. Metal consumption for almost all steels, including machining, proved no higher than those for similar pipes of stainless steels in current production practice. "Engineers N. S. Kirvalidze, R. A. Prudkova, N. N. Pil'nikova, L. S. Rakhnovetskiy, I. S. Pechennikova, and others took part in the work." Orig. art. has: 8 figures and 2 tables.

ASSOCIATION: Ukrainskiy n.-i. trubnyy institut (Ukrainian Tube Research Institute); Pervoural'skiy novotrubnyy zavod (Pervoural'sk New Tube Plant); Nikopol'skiy yuzhnotrubbyy zavod (Nikopol' Southern Tube Plant)

SUBMITTED: 00

ATD PRESS: 3045

ENCL: 00

SUB CODE: MM,IE

NO REF SOV: 010

OTHER: 000

Card 2/2

PLYATSKOVSKIY, O.A., kand.tekhn.nauk; Prinimali uchastiye: OSLON, N.D.;
NODEV, E.O.; DEYATISIL'NIY, V.I.; SULTINSKIY, A.N.; SHANIN, F.K.;
KUKARSKIY, V.I.; RAKHOVETSKIY, L.Y.; DUYEV, V.N.

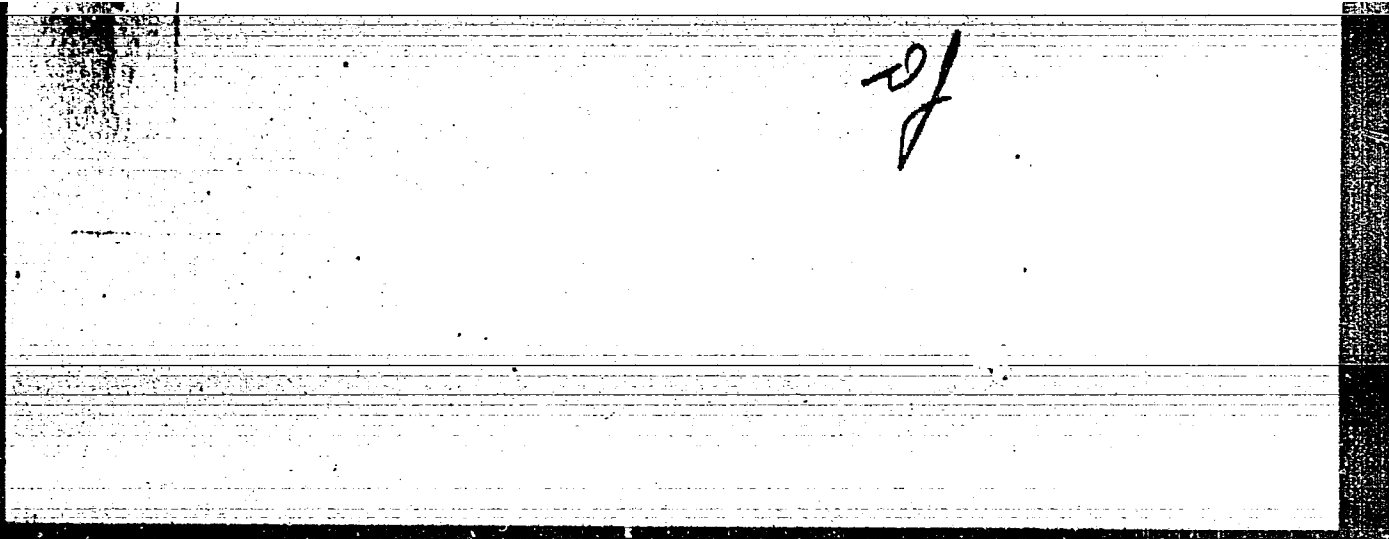
New technological processes used in rolling 102-170 mm. diameter
pipes of stainless steel 1Kh18N9T. Biul.nauch.-tekh.inform.VNITI
no.4/5:24-30 '58. (MIRA 15:1)

(Pipe mills)

OSLOB, N.L., inzhener; GLEIBERG, A.Z., inzhener; CHEMERINSKAYA, R.I., inzhener

Effect of the length of skelp heating time on the quality of pipe.
Stal' 15 no.6:537-540 Je '55. (MLRA 8:8)

1. Pervoural'skiy Novotrubnyy zavod. (Rolling (Metalwork))
(Pipe, Steel)



PLATSKOVSKIY, O.A., kand. tekhn. nauk; OSLOV, N.L., kand. tekhn. nauk;
NODEV, E.O., inzh.

Rolling medium-diameter pipes of stainless steel with high deformation ratios. Obr. met. davl. no.5:129-142 '59. (MIRA 13:3)

1.Vsesoyuznyy nauchno-issledovatel'skiy trubnyy institut (for Plyatskovskiy). 2.Novotrubnyy zavod (for Oslov, Nodev)
(Rolling (Metalwork)) (Steel, Stainless)

OSLON, V.L.

25(1) **WELLS : PIPE EXPANSION** NOV/1977

Chemical welding (autogeny) Soviet Union, 779, 5 (Soviet Patent) Collection of Articles, No. 5 Moscow, Metallizdat, 1979, 137 p., 3,000 copies printed.

Scientists M.A. L.Du. Alshverdy, Candidate of Technical Sciences; M.A. of Publishing House: E.A. Valov; Tech. M.A. A.I. Druzer.

PURPOSE: This collection of articles is intended for technical personnel and scientific workers in the metallurgical and machinery-construction industries.

CONTENTS: This collection of articles deals with problems of rolling and tube expansion. Results of research done on roll design and new methods of forming tubes manufacturing parameters in the production of tubes and other rolled shapes are presented. Methods of analyzing the kinematics of processes in ball and roller mills and rolling mills by means of motion pictures are discussed. Also discussed are several phenomena associated with tube rolling. In generalization are mentioned. References follow several of the articles.

Physchemists, B.A. (Candidate of Technical Sciences, Vsesoyuznyy nauchno-issledovatel'skiy Institut (All-Union Scientific Research Institute for Pipe)). Investigation of Kinematics of Processes in Ball and Roller Mills by Means of Motion Pictures and Other Methods. 113

This article deals with industrial and laboratory tests of a method of investigating kinematic processes in rolling by means of motion pictures. The mechanism of the process is discussed. Experiments on piercing and three-high mills are described. Results are shown in tables and diagrams.

Physchemists, B.A., E.A. (Candidates of Technical Sciences) and E.O. (Doctor of Engineering) (Soviet Army) (Soviet Army Plant)). Rolling Multi-Metered Pipes with Increased Rate of Information 119

This article deals with an experimental investigation of the use of stainless steel with a high deformation coefficient in piercing processes. Results show an increase in the rate of production and greater economy of materials.

Vakha, Ya. (Candidate of Technical Sciences), A.A. Shcherbatskiy (Doctor of Technical Sciences) and I.B. Dvornik (Soviet Army, and Ya. (Candidate of Technical Sciences) and All-Union Scientific Research Institute for Pipe). Investigation of Tube Rolling in Continuous Mill with Long Mandrel 125

Results of experimental investigations of tube rolling for a continuous tube-rolling mill are presented. Causes of such tube defects as nonuniformity of wall thickness and defective ends are discussed. Investigations in press design, mandrel withdrawal, and roll pressure adjustments are suggested to remediate.

Stepanovich, S.A. (Candidate of Technical Sciences), and P.P. Levay (Engineer, Metallurg). Force During Tube Rolling in a Continuous Four-stand Mill 129

An empirical method for determining the force during tube rolling without a mandrel.

Stepanovich, S.A. (Engineer, All-Union Scientific Research Institute for Pipe). Changes in Wall Thickness of Small-Diameter Tubes During Drawing 179

A formula is derived for determining changes in wall thickness of a mandrel. Computer, moment of reduction, approach angle of the rolls, coefficient of friction, and ultimate strength of the material. Another formula for determining initial wall thickness is presented. The formulas are confirmed by experimental data.

STASEVICH, P.K.; FREYBERG, M.A.; OSLOM, N.L.; CHEMERINSKAYA, R.I.;
KOKHMAN, L.V.; MOSKALENKO, V.I.

Drawing unannealed carbon steel tubes without mandrels.

Stal' 21 no.8:725-727 Ag '61.

(MIRA 14:9)

1. Pervoural'skiy novotrubnyy zavod.
(Deep drawing (Metalwork)) (Pipe, Steel)

OSLON, N.L., KOKHMAN, V.V.; OSHCHINIKOVA, G.I.; RUDANOVA, M.I.; TRIN, V.A.

Investigating the effect of the metal density on the quality of internal pipe surfaces made of 100% steel. *Stal' 24* no. 4:29-30, Je '64.

1. Permskiy politekhnicheskii Institut i Pervdural'skiy Zavod.

LIPCHIN, N.N.; KRYUKOVA, T.G.; OSION, N.I.

Effect of the rate of heating on the phase recrystallization
of hardened 60C2 steel. Metalloved. i term. obr. met. no. 8
5-8 Ag '64. (MIRA 1964)

i. Permskiy politekhnicheskiy institut.

LIPCHIN, N.N. (Perm'); OSLOM, N.L. (Perm'); SHUBIN, V.N. (Perm');
KHUDEN'KIKH, V.P. (Perm')

Effect of vanadium on the phase recrystallization of steel. Izv. AN
SSSR. Mat. no.3:140-145 My-Je '65. (MIRA 18:7)

OSLOPOV, K.A.

Pullout platform for mine elevators. Rats. i izobr. predl.v stroi.
no.119:23-24 '55. (MLRA 9:7)
(Elevators)

IVANOV, A.G., insh.; OSLOPOV, O.I., insh.; RUTENBERG, B.G.; GRACHEV,
Yu.B., insh.

Grinding and burning lignite from the Areyk deposit. Eiek. sta.
36 no.2:16-18 r '69. (MIRA 18:4)

L 1786C-63

EWT(m)/BDS AFFTC/ASD

S/0048/63/027/007/0965/0865

58
57

ACCESSION NR: AP3003687

AUTHOR: Akkerman, A.F.; Kochetkov, V.L.; Chekanov, V.N.; Osloповskikh, G.V.
Suvorov, V.A.; Shtol'ts, A.K.

TITLE: Lifetime of the first excited state of Ti^{48} / Report of the Thirteenth
Annual Conference on Nuclear Spectroscopy held in Kiev from 25 January to 2 Feb-
ruary 1963/

SOURCE: AN SSSR Izv. Seriya fizicheskaya, v.27, no.7, 1963, 865

TOPIC TAGS: lifetime level, resonance scattering, Mossbauer effect Ti^{48}

ABSTRACT: The lifetime of the 990 keV 2^+ state of Ti^{48} has been determined by the method of Coulomb excitation as 9.7×10^{-12} sec and 4.2×10^{-12} sec, respectively, by G.M.Temmer and N.P.Heydenburg (Phys.Rev., 104, 967, 1956) and D.Andreyev and others (Nuc.Phys., 19, 400, 1960) and by the method of resonance scattering by V.Knapp (Proc.Phys.Soc., A70, 194, 1957) who obtained $T = 4.2 \times 10^{-12}$ sec. But Knapp did not take into account the possible influence of molecular bonds, although the density of his source was such that this influence could be significant. Hence the authors carried out resonance absorption experiments aimed at determining the lifetime of the 990 keV state of Ti^{48} . The source was V^{48} produced by deuteron

Card 1/2

L 17860-63
ACCESSION NR: AP3003687

bombardment in the internal beam of the Sverdlovsk Polytechnic Institute cyclotron of natural Ti and then converted to VCl_3 . The $400^\circ C$ reaction temperature employed prevented chlorination of the Sc^{46} , which was also present in the target. Measurements on the double scintillation spectrometer set-up with Ti and Fe scatterers yielded a value of 0.072 ± 0.022 for the attenuation factor R. Calculations based on this value yield $(9.47 \pm 2.89) \times 10^{-5}$ eV for the level width and, finally, $T = (4.92 \pm 1.52) \times 10^{-12}$ sec for the lifetime of the 2^7 state. Orig. art. has: 1 formula.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: NS

NO REF SOV: 002

OTHER: 003

Card 2/2

RUDKEVICH, M.Ya.; OSLOPOVSKIY, A.P.

Nature of Paleogene displacements in the Poluy River basin in
the lower Ob' Valley. Trudy SNIIGGIMS no.14:15-20 '61.

(MIRA 15:8)

(Poluy Valley (Tyumen' Province)--Geology, Structural)

OSLOPOVSKIY, A.P.

Hot mineral waters in the Crimea. Sov.geol. 2 no.1:147-149
Ja '59. (MIRA 12:4)

1. Kryansftegazrazvedka.
(Crimea--Mineral waters)

OSLOPOVSKIY, A.P.

New level of artesian fresh waters in the Crimea. Priroda 46 no.3:113
Mg '57. (MLRA 10:3)

1. Krymneftegazrazvedka (Feodosiya)
(Crimea--Artesian wells)

L 40991-06 EXP(j)/EWT(m)/T/ENP(t)/ETI IJP(c) RM/JD/WB

ACC NR: AP6022870 (N) SOURCE CODE: UR/0303/66/000/002/0044/0046

31
E

AUTHOR: Oslopovskiy, B. A.; Pugachev, Yu. B.; Medvedeva, T. I.

ORG: none

TITLE: Testing of paint-and-varnish coatings for protection of equipment from corrosion

SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 2, 1966, 44-46

TOPIC TAGS: paint, varnish, protective coating, sea water corrosion

ABSTRACT: The feasibility of using paint-and-varnish protective coatings in units where water is boiled at reduced pressure at 45-50°C was studied by testing a series of paint-and-varnish coating systems in a vacuum boiler containing sea water. At the pressure in the evaporator (40 mm Hg), sea water boiled at 45°C. A large number of paint-and-varnish materials were tested by being deposited on St. 3 steel specimens which were placed in sea water in the evaporator, and kept there for 2700 hr (some of them for 300 hr in boiling water). The highest resistance was exhibited by coatings based on "liquid" Nairit, hot- and cold-cured epoxy coatings deposited on a zinc epoxy protective primer, and also coatings consisting of a mixture of epoxy resins and Kuzbass varnish or coal pitch. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 011

1/1

UDC: 667.657.27

OSLOVSKIY, A. B., PROF

PA38/49T18

USSR/Electricity
Electricity - Training

Mar 49

"The Training of Electrical Engineers in the
Kiev Polytechnical Institute," Prof A. D.
Mosterenko, Dr Tech Sci, Prof A. B. Oslovskiy,
1 1/2 pp

"Elektrichestvo" No 3

Kiev Polytech Inst, oldest technical VUZ of
Ukrainian SSR, was founded 50 years ago. During
30 years of Soviet regime, 10,500 specialists
were trained. At present more than 3,300
students attend classes. There are ten faculties,
and 32 specialties are taught. 38/49T18
WDR

OSLOVSKIĭ, N.

O novoi sisteme sortirovki pochtovoi korrespondentsii. (On the new system
of mail sorting). (Vestnik sviazi. Pochta, 1946, no. 11-12, p. 13).

DLC: HE7.VI44

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress
Reference Department, Washington, 1952, Unclassified.

ACCESSION NR: AR4036028

S/0299/64/000/006/0005/0005

SOURCE: Referativnyy zhurnal. Biologiya, Abs. 6626

AUTHOR: Osipova, O. P.; Ashur, N. I.

TITLE: Photostability and function of the photosynthetic apparatus of plants

CITED SOURCE: Sb. Probl. ekol. i fiziol. lesn. rast. L., 1963, 33-45

TOPIC TAGS: photosynthesis, plant physiology, photostability, chlorophyll, chloroplast, carotenoid

ABSTRACT: In this work, an attempt is made to determine the connection between the photostability of chlorophyll and the photosynthetic ability of leaves, as well as the role of carotenoids in the photostability of chlorophyll; 15-16 day-old leaves of corn, beans and cucumbers were used. Luminescence curves of photosynthetic intensity were determined with the use of C^{14} by the method of Zelenskiy, while the photostability of chlorophyll was determined from the gradual fading after illumination of a suspension of isolated chloroplasts with red light (600-700 m μ). Colloidal suspensions of chlorophyll had considerably more photostability than molecular ones. Therefore, aggregation of molecules serves to protect chlorophyll against

Card 1/2

OSIYAEV, A. (Ashkhabad).

Fire train in action. Pozh. delo 3 no. 2:15 11 1977. (MIRA 1-2)
(Fire extinction)

OSMACHEK, A., general-mayor aviatsii, voyenny letchik pervogo klassa;
BERKOVCHENKO, A., inzhener-podpolkovnik, kand. tekhn. nauk;
DARMOGRAY, V., podpolkovnik; GAKH, A., inzhener-podpolkovnik

On ground target. Av. i kosm. 45 no.6:45-49 '62.
(MIRA 15:10)

(Bombing, Aerial)

OSMACHKIN, B.P. (g. Voroshilovgrad).

Apparatus for the subject "Electromagnetic oscillations." Fiz. v shkole
13 no.3:65-67 My-Je '53. (MLBA 6:6)

(Oscillators, Electric)

OSMACHKIN, B.P., inzh.

Using gamma defectoscopy for checking the condition of conveyer
belts. Ugol' Ukr. 7 no.11:46 N '63. (MIRA 17:4)

OSMACHKIN, B.P.; RUDANOVSKIY, A.A., 1981.

[Work experience of the Lugansk plant on the way to
the introduction of automatic control in the
industrial enterprises of Lugansk Province] (part 1) [by
Luganskoi' inzheneri' i' nauchny' i' issledovatel'skiy
topnykh priborov na promyshlennykh predpriyatiakh ob-
lasti. Moskva, Atomizdat, 1981. 11 p. (MIRA 18:1)]

SECRET

CONFIDENTIAL

OSMACHKIN, B.I., 1966.

Radioactive reagents for measuring the level of
free-flowing water in the soil. (MIRA 18 10)