

AKOL'ZIN, L.Ye.; LISHBERGOV, V.D.; SHCHUKINA, G.F.; TSOY, D.; DUGIN,
Ye.V., otv.red.; DUKALOV, M.F., red.; BUBYR', V.A., red.; TYUTYUNIK,
Ya.I., red.; MONIN, M.I., red.; PANCHENKO, A.I., red.; VARSHAVSKIY,
I.N., red.; BELYAYEV, F.R., red.; RABINKOVA, L.K., red.izd-va;
KOROVENKOVA, Z.A., tekhn.red.

[Standard cross sections of mine workings] Tipovye sechenia gornykh
vyrabotok. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu.
Vol.1. [Cross section of timber-supported workings for 1, 2, and
3-ton cars] Sechenia vyrabotok, sakreplennykh derevom dlia 1, 2
i 3-tonnykh vagonetok. 1960. 345 p. (MIRA 13:11)

1. Moscow. Gosudarstvennyy proyektnyy institut Yuzhgiproshakht.
(Mining engineering)

AKOL'ZIN, L.Ye.; BEDILO, V.Ye.; BOROZDOV, I.A.; LISHBERGOV, V.D.; TSOY, D.;
DUGIN, Ye.V., otv.red.; DUKALOV, M.F., red.; BUBYR', V.A., red.;
TYUTYUNIK, Ya.I., red.; MONIN, M.I., red.; PANCHENKO, A.I., red.;
BELYAYEV, F.R., red.; RABINKOVA, L.K., red.izd-va; KOROVENKOVA,
Z.A., tekhn.red.

[Standard cross sections of mine workings] Tipovye sechenia
gornyykh vyrabotok. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
gornomu delu. Vol.3. [Cross section of workings lined with
concrete and artificial stone for 2 and 3-ton cars] Sechenia vy-
rabotok, zakreplennykh betonom i iskusstvennym kamnem, dlia 2- i
3-tonnykh vagonetok. 1960. 447 p. (MIRA 13:11)

1. Moscow. Gosudarstvennyy proyektnyy institut Tuzhgiproshakht.
(Mining engineering)

TSOY, D.M.

Utilization of Polosukhin's antishock solution in collapse in food poisoning. Terp. arkh. 30 no.12:64-66 D '58. (MIRA 12:1)

1. Iz kafedry infektsionnykh bolezney (zav. - prof. K.V. Bunin)
I Moskovskogo ordena Lenina Meditsinskogo instituta imeni I. M. Sechenova.

(SHOCK, etiol. & pathogen.

food pois., Polusukhin solution ther. (Rus))

(FOOD POISONING, compl.

shock, Polusukhin solution ther* (Rus))

(PLASMA SUBSTITUTE, ther. use,

Polusukhin solution in shock caused by food pois. (Rus))

2001-01-17

Drug for preventing the principle complications from measles under
rural conditions. Sov. Med. et Nov. 191-192 Ja '57. (MED 10:9)

1. Iz Atbasarskoy rayonnoy bol'nitsy Akmolinskoy oblasti Kazakhskoy
SSSR.

(SOLPOKANTISS) (KASLAK)

USSR, Cultivated Plants - Grains.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15530

Author : I.V. Tsoy, P.V. Petkilev

Inst :

Title : Supplemental Corn Pollination in the Transvolga Region.
(Dopolnitel'noye opyleniye kukuruzy v usloviyakh
Zavolzh'ya).

Orig Pub : S. kh. Povolzh'ya, 1957, No 6, 33-35

Abstract : On the dark chestnut soils of the Transvolga region the supplemental pollination applied three times during the period of the appearance of corn fibers in 75% of the plants increased the yield by 16%, the quantity of cobs with formed grains by 10% and the grain output by 6.5%. Supplemental pollinization is nearly twice as effective with deep plowing than with the ordinary tilling.

Card 1/1

30

1. TSOY, I. V.
2. USSR (600)
4. Wheat
7. Characteristics of the yield of different varieties of spring wheat and its variation. Sel. i sem. 20, No. 5, 1953.

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

SHAKIROV, A.Sh., kand.med.nauk, TSOY, L.A., mladshiy nauchnyy sotrudnik.

Boris Isaevich Berliner; on his 50th birthday. Ortop.travm. i protez.
19 no.3:80 My-Je '58 (MIRA 11:7)

(BERLINER, BORIS ISAEVICH, 1907-)

ARAKEL'YAN, G.V., inzh.; TSOY, L.G., inzh.

Timber carriers without ballast. Sudostroenie 27 no.11:8-10
N '61. (MIRA 15:1)

(Timber--Transportation)
(Freighters)

USSR/ Farm Animals. Small Horned Stock. Q

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40467.

Author : Tsoy, L. I., Sapargaliyev, G. S.

Inst : Not given.

Title : The Influence of Different Levels of Feeding on
the Productivity of the Fine-Wool Sheep.

Orig Pub: Ovtsevodstvo, 1957, No 8, 36-39.

Abstract: After weaning, 30 young rams of the Soviet Merino breed were divided into three groups of 10 heads each, and were subjected to differential feeding up to 2 years of age. During the whole period of experimentation, the young rams of the 1st group were fed an average of 155 kg. of concentrates, 116 kg. of hay, 78 kg. of silage, 251 kg. of mangel and 148 kg. of skimmilk. The animals of the 2nd group were fed (in kg.): 144, 156, 78, 254, and 133, respectively. The

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USSR/ Farm Animals. Small Horned Stock.

Abs. Jour: Ref Zhur-Biol., No 9, 1958, 40467.

Abstract: animals of the 3rd group (a control one) were each given 78 kg. of concentrates and 99 kg. of hay. At the age of 13 months, the animals of the 1st group had an average live weight of 87:1 kg., wool yield 8.41 kg., production of pure wool 3.60 kg., and wool length 8.88 cm. The 2nd group yielded 80.2, 8.30, 3.31, and 8.83, respectively. The yield of the 3rd group was: 66.8, 5.21, 2.24, and 8.05. The authors explain the higher wool yield in the 1st and 2nd groups by a considerable increase of the cutaneous area and of the density of wool under the influence of full-value rations.

Card 2/2

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GALIMZHANOV, K.G., inzh.; ZONDUNOV, A.M., inzh.; TSOY, N.D., inzh.

Multiple blasting with electric short-delay action detonators.
Bezop.truda v prom. 5 no.1:26-28 Ja '61. (MIRA 14:2)
(Blasting)

TSOY, N.D., gornyy inzh.; IVLIYEV, N.K., gornyy inzh.

Block blasting at the Bustrukha mine. Gor. zhur. no.6:48-52 Je '58.
(Mining engineering) (MIRA 11:6)

Tsoy N.D.

127-58-6-13/25

AUTHORS: Tsoy, N.D., and Ivliyev, N.K., Mining Engineers

TITLE: Mass Blasting of a Block in the Bystrushinsky Mine (Massovyy vzryv bloka na Bystrushinskom rudnike)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 6, pp 48-52 (USSR)

ABSTRACT: This is a detailed description of the mass blasting of a block in the Bystrushino mine. The authors present calculations for using explosives, electric current and also give the exact timing of all preparatory operations. There are 3 figures and 2 tables.

AVAILABLE: Library of Congress

Card 1/1 1. Explosives-Applications

TSOY, N. G.

TSOY, N. G.

"Free oscillations of systems of crossed girders taking into account torsion." Acad Sci Ukrainian SSR, Inst of Structural Mechanics. Kiev, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya letopis', No. 15, 1956. Moscow.

21030

S/058/61/000/005/048/050
A001/A101

24.1800

AUTHOR: Tsoy, P.I.

TITLE: Scattering of plane sonic waves by a spherical obstacle (for short wavelengths)

PERIODICAL: Referativnyy zhurnal. Fizika, no 5, 1961, 415, abstract 5Zh703 ("Nauchn. tr. Tul'sk. gorn. in-t", 1958, v 1, 193 - 205)

TEXT: The author gives the asymptotic solution of the problem on diffraction of plane sonic wave on a solid sphere, when the wavelength is small in comparison with the sphere radius. The known solution of the problem, in the form of a series in spherical functions, is transformed to the form of the function varying according to an exponential law $e^{-\gamma(\cdot)}$. The rapid convergence of the series obtained is shown by investigating this function.

Yu. Konenkov

[Abstracter's note: Complete translation.]

Card 1/1

Cand. Physicomath Sci.

TSOY, P. I.

Dissertation: "Propagation of Sound in the Presence of an Obstacle."

21/22/50

Sci. Res. Inst. of Mechanics and Mathematics,
Moscow Order of Lenin State U. imeni.

M. V. Lomonsov.

SO Vecheryaya Moskva
Sum 71

BARTOSHEVICH, Ye.N.; TSUKER, M.B.; LESHCHINSKAYA, Ye.V.; SOKOLOVA, I.S.;
MARTYENKO, I.N.; ANDREYEVA, L.S.; ASEMARINA, Ye.Ye.

Poliomyelitislike paralytic diseases in children inoculated
with live Sabin vaccine. Vest. AMN SSSR 18 no.6:16-21 '63.
(MIRA 17:1)

BUDNITSKIY, A.B.; VENIKOV, V.A.; GIZILA, Ye.P.; GREBEN', I.I.;
IYERUSALIMOV, M.Ye.; KALNIBOLOTSKIY, M.L.; KONDRA, B.N.;
LOYEV, Ye.G.; NESTERENKO, A.D.; PAVLOV, V.M.; POSTNIKOV, I.M.;
POBEGAYLO, K.M.; RADCHENKO, L.A.; SVECHNIKOV, L.V.; SYROMYATNIKOV,
I.A.; FEDOSEYEV, A.M.; FEDCHENKO, I.K.; KHODOROV, S.Ye.;
CHIZHENKO, I.M.; TSUKERNIK, L.V.

Professor Vasilii Grigor'evich, 1904 -; on his 60th birthday.
Elektrichestvo no.4:93-94 Ap '64. (MIRA 17:4)

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21777
S/170/61/004/004/008/014
B113/B214

AUTHOR:

Tsoy, P. V.

TITLE:

Boundary value problem for a generalized system of energy-
and mass transport equations

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 4, no. 4, 1961, 69-74

TEXT: In this paper, a solution is sought for a general system of energy-
and mass transport equations.

$$\left. \begin{aligned} \frac{\partial u_1}{\partial t} &= a_{11}^2 \nabla^2 u_1 + a_{12}^2 \nabla^2 u_2 + \theta_1(x, y, z, t) \\ \frac{\partial u_2}{\partial t} &= a_{21}^2 \nabla^2 u_1 + a_{22}^2 \nabla^2 u_2 + \theta_2(x, y, z, t) \end{aligned} \right\} \quad (1^*) \quad (1^{**})$$

for semibound three dimensional media with boundary conditions of the

second kind $u_k(x, y, z, 0) = f_k(x, y, z)$ and $\frac{\partial u_k}{\partial x} \Big|_{x=0} = \varphi_k(y, z, t);$

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Boundary value problem for a ...

($k = 1, 2, x \gg 0, -\infty < y < \infty, -\infty < z < \infty$). By applying to this system of equations the two-sided Fourier transform with respect to y, z , the cosine Fourier transform with respect to x , and the one-sided Laplace transform with respect to t , one obtains

$$\left. \begin{aligned} (p + a_{21}^2 \rho^2) \bar{U}_1^*(\xi, \eta, \zeta, p) + a_{12}^2 \rho^2 \bar{U}_2^*(\xi, \eta, \zeta, p) = \\ = -\sqrt{\frac{2}{\pi}} [a_{11}^2 \bar{\Phi}_1(\eta, \zeta, p) + a_{12}^2 \bar{\Phi}_2(\eta, \zeta, p)] + \\ + \bar{U}_1^*(\xi, \eta, \zeta, p) + F_1^*(\xi, \eta, \zeta) \\ a_{21}^2 \rho^2 \bar{U}_1^*(\xi, \eta, \zeta, p) + (p + a_{22}^2 \rho^2) \bar{U}_2^*(\xi, \eta, \zeta, p) = \\ = -\sqrt{\frac{2}{\pi}} [a_{21}^2 \bar{\Phi}_1(\eta, \zeta, p) + a_{22}^2 \bar{\Phi}_2(\eta, \zeta, p)] + \\ + \bar{U}_2^*(\xi, \eta, \zeta, p) + F_2^*(\xi, \eta, \zeta) \end{aligned} \right\} \begin{array}{l} (1^{*-}) \\ (1^{**}) \end{array}$$

where $\bar{U}_k^*(\xi, \eta, \zeta, p) = u_k(x, y, z, t)$; $\bar{\Theta}_k^*(\xi, \eta, \zeta, p) = \Theta_k(x, y, z, t)$;

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Boundary value problem for a ...

$F_k^*(\xi, \eta, \zeta) = f_k(x, y, z); \bar{\Phi}_k(\eta, \zeta, p) = \varphi_k(y, z, t), \rho^2 = \xi^2 + \eta^2 + \zeta^2.$

The principal determinant of the system (1*) is of the form

$D(\xi, \eta, \zeta, p) = p^2 + p(a_{11}^2 + a_{22}^2)p^2 + (a_{11}^2 a_{22}^2 - a_{21}^2 a_{12}^2)p^4.$ Eq. (1*) also

gives $U_k^*(\xi, \eta, \zeta, p) = \frac{D_k(\xi, \eta, \zeta, p)}{D(\xi, \eta, \zeta, p)}$. For the determination of $u_1(x, y, z, t)$

a start is made from

$$\bar{U}_1(\xi, \eta, \zeta, p) = \frac{-\sqrt{\frac{2}{\pi}} [(p^2 + a_{22}^2 \rho^2) \bar{\Phi}_1(\eta, \zeta, p) - a_{12}^2 \rho^2 \bar{\Phi}_2(\eta, \zeta, p)]}{D(\xi, \eta, \zeta, p)} +$$

$$\begin{aligned} &+ \frac{(p + a_{22}^2 \rho^2) \bar{U}_1(\xi, \eta, \zeta, p) - a_{12}^2 \rho^2 \bar{U}_2(\xi, \eta, \zeta, p)}{D(\xi, \eta, \zeta, p)} + \\ &+ \frac{F_1(\xi, \eta, \zeta) (p + a_{22}^2 \rho^2) - a_{12}^2 \rho^2 F_2(\xi, \eta, \zeta)}{D(\xi, \eta, \zeta, p)}. \end{aligned} \quad (A)$$

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where $\bar{\Phi}_i^*(\eta, \xi, p) = a_{i1}^2 \bar{\Phi}_1(\eta, \xi, p) + a_{i2}^2 \bar{\Phi}_2(\eta, \xi, p)$ ($i = 1, 2$). Taking into account

$$\frac{Q_m(p)}{R_m(p)} = \sum_{k=1}^n \frac{Q_m(p_k)}{R_n(p_k)} \exp(p_k t), \quad (4)$$

for rational functions with poles of the first order, and by applying the inverse Fourier transform with respect to η, ξ , the inverse cosine transform with respect to ξ , and the inverse Laplace transform with respect to p , and making use of the convolution theorem for Fourier transforms, one obtains the solution of

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$$\begin{aligned}
 u_1(x, y, z, t) = & \sum_{k=1}^2 \frac{1}{(2c_k \sqrt{\pi})^3} \times \\
 & \times \left\{ - \int_0^t \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{[\lambda_k \varphi_1(\beta, \gamma, \tau) - \mu_k \varphi_2(\beta, \gamma, \tau)]}{\sqrt{(t-\tau)^3}} \times \right. \\
 & \times E_k(x, y, z, t; 0, \beta, \gamma, \tau) d\tau d\beta d\gamma + \\
 & + \int_0^t \int_0^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{[\lambda_k \theta_1(\alpha, \beta, \gamma, \tau) - \mu_k \theta_2(\alpha, \beta, \gamma, \tau)]}{\sqrt{(t-\tau)^3}} \times \\
 & \times E_k(x, y, z, t; \alpha, \beta, \gamma, \tau) d\tau d\alpha d\beta d\gamma + \\
 & + \frac{1}{\sqrt{t^3}} \int_0^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} [\lambda_k f_1(\alpha, \beta, \gamma) - \mu_k f_2(\alpha, \beta, \gamma)] \times \\
 & \times E_k(x, y, z, t; \alpha, \beta, \gamma, 0) d\alpha d\beta d\gamma \left. \right\}, \tag{5}
 \end{aligned}$$

where

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Boundary value problem for a ...

$$E_k(x, y, z, t; \alpha, \beta, \gamma, \tau) = \exp \left[+ \frac{(x-\alpha)^2 + (y-\beta)^2 + (z-\gamma)^2}{4c_k^2(t-\tau)} \right] \left[1 + \exp \left(- \frac{\alpha x}{c_k^2(t-\tau)} \right) \right];$$

$$\lambda_k = \frac{a_{22}^2 - c_k^2}{a_{11}^2 + a_{22}^2 - 2c_k^2}; \quad \mu_k = \frac{a_{12}^2}{a_{11}^2 + a_{22}^2 - 2c_k^2};$$

$$\varphi_i(\beta, \gamma, \tau) \doteq \bar{\Phi}_i(\eta, \zeta, \rho). \quad \text{Eq. (B)} \quad (B)$$

holds. In an analogous manner

$$u_2(x, y, z, t) = \sum_{k=1}^2 \frac{1}{(2c_k \sqrt{\pi})^3} \times$$

$$\times \left\{ \sim \int_0^t \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{[v_k \varphi_2(\beta, \gamma, \tau) - \lambda_k \varphi_1(\beta, \gamma, \tau)]}{V(t-\tau)^3} \times \right.$$

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Boundary value problem for a ...

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$$\begin{aligned}
 & \times E_k(x, y, z, t; 0, \beta, \gamma, \tau) d\beta d\gamma d\tau + \\
 & + \int_0^t \int_0^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{[\nu_k \theta_2(\alpha, \beta, \gamma, \tau) - \chi_k \theta_1(\alpha, \beta, \gamma, \tau)]}{V(t-\tau)^3} \times \\
 & \times E_k(x, y, z, t; \alpha, \beta, \gamma, \tau) d\tau d\alpha d\beta d\gamma + \\
 & + \frac{1}{Vt^3} \int_0^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} [\nu_k f_2(\alpha, \beta, \gamma) - \chi_k f_1(\alpha, \beta, \gamma)] \times \\
 & \times E_k(x, y, z, t; \alpha, \beta, \gamma, 0) d\alpha d\beta d\gamma \Big\}. \tag{6}
 \end{aligned}$$

is obtained for u_2 . If the superposition effects are not considered in the theory of heat and mass transport of a medium, $a_{12}^2 = a_{21}^2 = 0$ in the

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system of equations (1*), and this system is decomposed into independent inhomogeneous equations of the type of heat conduction equations. If $c_1^2 = a_{22}^2$, $c_2^2 = a_{11}^2$ are substituted in the Eqs. (5) and (6), one obtains after some transforms the solution

$$\begin{aligned}
 u_j(x, y, z, t) = & \frac{1}{(2\sqrt{\pi t} a_{jj})^3} \int_0^t \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f_j(\alpha, \beta, \gamma) E_j(x, y, z, t; \alpha, \beta, \gamma, \tau) d\alpha d\beta d\gamma + \\
 & + \frac{1}{(2\sqrt{\pi} a_{jj})^3} \int_0^t \int_0^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{q_j(\alpha, \beta, \gamma, \tau)}{\sqrt{(t-\tau)^3}} E_j(x, y, z, t; \alpha, \beta, \gamma, \tau) d\tau d\alpha d\beta d\gamma - \\
 & - \frac{1}{(2\sqrt{\pi})^3 a_{jj}} \int_0^t \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\varphi_j(\beta, \gamma, \tau)}{\sqrt{(t-\tau)^3}} E_j(x, y, z, t; 0, \beta, \gamma, \tau) d\tau d\beta d\gamma, \quad (9) \quad (9)
 \end{aligned}$$

$$\begin{aligned}
 E_j(x, y, z, t; \alpha, \beta, \gamma, \tau) = \\
 = \exp \left[-\frac{(x-\alpha)^2 + (y-\beta)^2 + (z-\gamma)^2}{4a_{jj}^2(t-\tau)} \right] \left[1 + \exp \left(-\frac{\alpha x}{a_{jj}^2(t-\tau)} \right) \right].
 \end{aligned}$$

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of the inhomogeneous differential equation of heat conduction with the boundary conditions given by Eqs. (2) and (3). Academician A. V. Lykov is thanked for his valuable advice. S. L. Sobolev is mentioned. There are 2 Soviet-bloc references.

ASSOCIATION: Politekhnikheskiy institut, g. Stalinabad (Polytechnic Institute, Stalinabad)

SUBMITTED: October 8, 1960

Card 9/9

TSOY, P. V.

"Analytical solutions of a system of heat- and mass-transfer equations for a semi-bounded medium under various boundary conditions."

Report presented at the 1st All-Union Conference on Heat- and Mass-Exchange, Minsk, BSSR, 5-9 June 1961.

Tsoy, R. I.

5(2)

Редкая Земля Элементы

Abdankya mark 8888. Institut geokhimiya i analiticheskiy khimii
Sobremennyye elementy polucheniya, analiza, primeneniya (Rare Earth
Elements) Extraction, Analysis and Application) Moscow, Izd-vo AN SSSR,
1976. 311 p. 2,200 copies printed.

Red. Ed.: D. I. Ryabokholov, Professor; Editorial Board: I. P. Alimardov,
Corresponding Member, USSR Academy of Sciences, I. E. Kozerskiy, Doctor
of Chemical Sciences, R. V. Koglyayev, Candidate of Technical Sciences,
V. I. Kuznetsov, Doctor of Chemical Sciences, K. M. Sergeev, Candidate of
Chemical Sciences, and Yu. S. Shlyanbo, Candidate of Chemical Sciences;
Eds. of Publishing House: D. E. Zifonov and T. O. Izvi; Tech. Ed.: S. O.
Markovitch.

FOREWORD: This book is intended for scientists, chemists, teachers and students
of higher educational institutions, chemical and industrial engineers and
other persons concerned with the extraction, preparation, major study of
rare earth elements.

CONTENTS: This collection contains reports presented at the June 1956 Conference
on Rare Earth Elements at the Institute of Geochemistry and Analytical Chem-
istry (Inst. V. I. Vernadskiy of the Academy of Sciences USSR). The articles
treat chemical methods of separating rare earth mixtures, the chemical
rare earth ores, ion exchange chromatography, chemical analysis and some in-
dustrial applications of the rare earths. Aside from contributions, the
editors mention the following Soviet scientists who are studying rare earth
elements, rare earth deposits, extraction methods, and the preparation of oxides
and salts: Martynov, Melnik, Krut'ko, Kuznetsov, Kuznetsov, Kuznetsov, the
Kuznetsov, Balousov, Zolotarev, and especially, E. A. Gulyayev who first obtained the
majority of rare earth elements in the pure state, separated many complex
molecular compounds of these elements, and determined their specific properties.
References are given at the end of each article.

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(17)

Tsoy, R.I.

USSR/Chemical Technology. Chemical Products and their Application.
Glass. Ceramics. Building Materials.

J-12

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27634

Author : Yu. A. Brodskiy. Yu. M. Tyurin, R.I. Tsoy.

Inst :

Title : Experiment of Application of Polirite to Polishing Glass
on Conveyers.

Orig Pub: Steklo i keramika, 1956, No 7, 8-11.

Abstract: The new polishing material - polirite (P) - has a polishing capacity 2 to 2.5 times greater than the ordinary crocus. The chemical composition of a batch of P is (in %): CeO_2 - 47.35; oxides of other rare earth metals (lanthanum, praseodymium, neodymium etc.) 47.27; SiO_2 - 0.16; Al_2O_3 - 2.21; Fe_2O_3 - 0.77; CaO - 0.42; MgO - 0.17; loss on ignition - 1.2. The main polishing component of P is CeO_2 , the content of which in P should be $\leq 40\%$. The presence of CaO in the amount of above 1% decreases the polishing ca-

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USSR/Chemical Technology. Chemical Products and their Application.
Glass. Ceramics. Building Materials.

J-12

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27634

capacity considerably. The temperature of roasting of P is of an essential importance to its polishing capacity, the optimum temperature being 1100° . The test of P was carried out on a conveyor ShS-500, the speed of the band having been 2.42 m/min, and the initial ground glass surface had unevennesses $U_{\max} = 3.0$ to 3.5μ ; the polishing capacity of P was 0.3148 g. The pressure on the polisher in 49 polishing benches was 73 g/sq. cm, and it was from 33 to 73 g/sq.cm in other 6 benches. The total glass polishing amounted to 10.4μ . Under the same conditions of polishing, but at the band speed of 2.20 m/min, the polishing of glass with crocus, the polishing capacity of which was 0.1916 g, was 10.5μ . The substitution of crocus with P under the same conditions of polishing results in a considerable raise of the yield of commercial 1st grade plate glass without any noticeable increase of the thickness of the polished layer

Card : 2/3

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USSR/Chemical Technology. Chemical Products and their Application.
Glass. Ceramics. Building Materials.

J-12

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27634

of glass. Profile graphs of the glass surface are attached; these graphs show the glass surface at various stages of polishing, starting from a surface with a relief layer 3.0 to 3.5 μ thick and ending with a completely polished surface. The profile graphs were made with a diamond needle, the vertical magnification being 10,000 to 100,000 times. The conclusion that P works in the last stages of glass polishing more intensively than crocus is arrived at on the basis of the profile graphs.

Card : 3/3

-35-

1509, K. 4.

5(2) **PHASE I BOOK EXPLOITATION** 20V/2002
Andersya nach SSSR. Institut goskhrani i analiticheskoy khimii
Pobozhenskiy elementy) polucheniye, analiza, primeneniye (Rare Earth Elements)
Production, Analysis, and Use) Moscow, Izd-vo AN SSSR, 1979. 331 p.
5,000 copies printed.

Prof. M. I. D. Ryabchikov, Professor; Eds. of Publishing House: D. N. Tricover
and T. O. Levit; Tech. Eds.: S. O. Markovitch; Editorial Board: I. P. Alimov,
Corresponding Member, USSR Academy of Sciences, I. V. Zhuravskiy, Doctor of
Chemical Sciences, S. V. Kostikov, Candidate of Chemical Sciences, V. I.
Ruzantsev, Doctor of Chemical Sciences, M. N. Sergeev, Candidate of Chemical
Sciences, and Yu. S. Shlyavskoy, Candidate of Chemical Sciences.

NOTE: This book is intended for chemists in general and for geochemists and
analytical chemists in particular.

CONTENTS: This collection of articles consists of reports presented at the Rare
Earth Elements Symposium held in June 1976 at the Institute of Geochemistry
and Analytical Chemistry (Inst. V. I. Vernadskiy). The book may be divided in-
to three sections: the characteristics, uses and production of rare earth
elements (REE); the methods of analyzing REE and the application of it-
dividual rare earth elements and REE mixtures in the glass and metallurgical
industries, and their use as catalysts. Considerable space is devoted to the
application of laser-beam chemistry in the production of pure REE
of all rare earth elements. The content of this method with other methods
in separating REE elements. The content of this method with other methods
Yu. S. Shlyavskoy, and M. N. Sergeev. Chemical methods of separating
REE compounds are discussed by I. B. Shostakovskiy (see also the first
in the USSR to develop methods of processing REE). V. P. Kostikov, E. P.
Andersya, A. G. Khramov, and O. P. Akhmetov. Quantitative X-ray spectral
analytical methods are described by S. Ye. Verzhikov, and chemical methods
of analysis by I. P. Alimov and P. I. Pavlovskiy. The determination of
REE impurities in rare products and atomic materials are discussed at length
in three articles by A. S. Zhelezovskiy and his associates. All articles are de-
scribed by spectroscopy, chromatography, titrimetry, and radiographic methods.

Zhelezovskiy, A. S., and A. A. Litvinov. Spectrophotometric Determination of Ba, Pb, and Sn in Atomic Materials. Communication III. Analysis of Micro- film and Slurries on Cd	258
Gel'dman, E. I. Determining Small Amounts of REE in Purified REE by the Method of Electron Spectral Analysis	266
Pashkov, V. M., M. I. Gerasimov, I. B. Shostakovskiy, and V. A. Shchegolev. Spectrophotometric Investigation of Complex Systems of Rare Earth Elements	277
Dobryvolskiy, L. B. Applying the Spectral-Photometric Character in Analyzing Binary Mixtures of Rare Earth Elements	289
Kudachev, E. V., and V. A. Dobryvolskiy. Special Problems in the Use of Rare Earth Elements in the Glass Industry	290
Tsey, B.-Z., Yu. M. Zverev, and Yu. A. Brodskiy. Process of the Use of Polysilicic Acid in Polishing Glass on a Conveyor at the Plant in P. I. De- stinsky	295
Shlyavskoy, Yu. S., and V. P. Kostikov. Study of the Macromolecular and Physical-Chemical Properties of Rare Earth Elements and Their Alloys	299
Polivnitskiy, A. A., and A. A. Shlyavskoy. Rare Earth Elements as Catalysts in Organic Chemistry. Oxygen, Inorganic and American Catalysts	307
Lysenko, L. L., M. A. Kuznetsov, and E. A. Peregudov. The Use of Rare Earth Elements in the Chemistry of Lanthanides	314
Shlyavskoy, Yu. S., and V. A. Shlyavskoy. Use of Rare Earth Metals in Alloying Magnesium Cast Alloys	323
AVAILABLE Library of Congress	

BRODSKIY, Yu.A.; TYURIN, Yu.M.; TSOY, R.I.

Using "pelirit" for the conveyer polishing of glass. Stek.1 kor. 13
no.7:8-11 J1 '56. (MIRA 9:9)
(Plate glass) (Sust'-Khrustal'nyy--Grinding and polishing)

✓ Viscosity of industrial glasses. M. V. Gokhale and R. I. Todi
J. Res. Nat. Bur. Stand., 1955, 60, No. 8, 111, Glass Tech., 1955, 36, 369. -- Extensive data (with glass compositions) obtained by
the fibre-elongation method are recorded. J. A. Sweeney.

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"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757130007-0

1975-1976

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757130007-0"

Tsoy, R.I.

10

✓ Viscosity of commercial glasses within softening and annealing temperature interval. *M. V. Gerasimov and R. I. Tsoy*

1961, Zhurnal Khim. Fiz., 35, No. 10, p. 1700-1704, 17 refs.

from $\eta = P l_0^2 Z g / 3 V \Delta l$, where P is stretching force in g., l_0 and l_1 are initial and final lengths of rod, V is volume of rod. Δl is elongation of rod in time Z , and g is gravity. Results are shown in curves. Total error in measurements ranged from 4 to 9%. R. I. Tsoy

M. V. Gerasimov
R. I. Tsoy

OKHOTIN, M.V.; TSOY, R.I.

Viscosity of industrial glasses in the interval between the softening point
and fritting. Stek. i ker. 10 no.6:11-13 Je '53. (MLRA 6:5)
(Glass)

OKHOTIN, M.V.; TSOY, R.I.

Viscosity of sodium-calcium-aluminum-silicate glasses within the interval
of $10^{4.5}$ to 10^1 poises. Steklo i Keram. 9, No.8, 3-6 '52. (MLRA 5:8)
(CA 47 no.18:9581 '53)

GORODINSKIY, G.M.; MINAKOV, A.G.; TSOY, R.I.

Plant control of the surface finish of polished glass.
Stek. 1 ker. 13 no.12:9-11 D '56.

(MLBA 10:2)

(Plate glass--Quality control)
(Reflectometer)

✓ Viscosity of commercial glasses within softening and annealing
temperature interval. M. J. DUKUJIN AND P. L. IESL. *NOZDRA*
Koza, 10 (1961) 1114. The viscosity of glasses of 25
glasses close in composition to commercial glasses was deter-
mined by the method of elongation of thread and calculated
from $\eta = Pl_0Zg/3V\Delta l$, where P is stretching force (gm), l_0
and l_t are initial and final lengths of rod, V is volume of rod, Δl
is elongation of rod in time Z , and g is gravity. Results are
shown in curves. Total error in the measurements ranged from
4 to 8%. B.Z.K.

1/11/61
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①

108. Viscosity of industrial glasses in the interval between the softening and annealing temperatures. S. V. Osipov and R. L. Tsol (*Glass & Ceramics*, Moscow, 10, No. 6, 1967, p. 1045). The viscosities of 27 industrial glasses was measured by the method of the falling ball. Glass rods with a ball fixed onto the end were heated in a furnace at a temperature of 400°C. A lamp with a diameter of 4 mm was used to illuminate the ball. The results are given in Table 1.

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SOV/124-57-5-5423

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 46 (USSR)

AUTHORS: Shepolev, S. F., Tsoy, S.

TITLE: A Comparative Evaluation of the Analytical Formulae for Calculating Air Curtains (Sravnitel'naya otsenka analiticheskikh formul rascheta vozdushnykh zaves)

PERIODICAL: Tr. In-ta gorn. dela AN KazSSR, 1956, Vol I, pp 133-139

ABSTRACT: A comparison is made of the respective results obtained when the curvilinear axis of an air curtain is calculated by the various theoretical and empirical formulae of a number of different authors. A method is demonstrated for calculating the quantity of outside air that may be expected to penetrate into a given space shielded by an air curtain. Bibliography: 9 references.

I. A. Shepelev

Card 1/1

KEKIN, A.A.; TSOY, S.; STAKHANOV, A.N.; SOLOVITSYN, B.P.

Dust removal in underground mechanical ore crushing plants. Izv. AN
Kazakh. SSR. Ser.gor.dela no.2:88-95 '60. (MIBA 13:10)
(Mine dusts) (Dust--Removal)

KEKIN, A.A.; TSOY, S.; STAKHANOV, A.N.

Determination of the statistical pressure in the operation of a
dust collector consisting of a venturi with a cyclone. Izv.AII
Kazakh.SSR.Ser.gor.dela no.2:85-90 '61. (MIRA 15:2)
(Dust collectors)

FARAMAZOV, S.A., kand. tekhn. nauk; GINZBURG, M.B., inzh.; PIRUMYAN, M.Ye.,
inzh.; TSOYREE, M.I., inzh.

Mechanization of the cutting of a high-viscosity polymer. Mekh.
i avtom. proizv. 19 no.10:11-12 0 '65. (MIRA 18:12)

TSURIKOVA, Anna Prokon'yevna; SHUL'GINA, Yelizaveta Fedorovna;
SIMONOV, A.I., otv. red.; VAYTSMAN, A.I., red.;
KOTIKOVSKAYA, A.B., red.

[Hydrochemistry of the Sea of Azov] Hidrokhimiia. Azov-
skogo moria. Leningrad, Gidrometeoizdat, 1964. 257 p.
(MIRA 17:6)

TSOY, S. (Alma-Ata); ROGOV, Ye.I. (Alma-Ata)

Calculation theory of ventilation systems. Izv. AN SSSR. Otd. tekhn.
nauk. Met. i gor. delo no.3:175-179 My-Je '63. (MIRA 16:7)
(Mine ventilation)

TSOY, S.

Ventilation of high mountain mines. Trudy Inst. gor. dela AN
Kazakh. SSR 6:209-210 '60. (MIRA 13:12)
(Mine ventilation)

TSOY, S.

Analytical determination of mine ventilation with a simultaneous
use of fans. Izv. AN Kazakh. SSR. Ser. gor. dsla no. 2: 84-90 '59.
(MIRA 13:4)

(Mine ventilation)

Tsuy, S.

10(2) PHASE I BOOK EXPLOITATION SOV/2271
 Soveshchaniye po prikladnoy gazovoy dinamike. Alma-Ata, 1956
 Trudy (Transactions of the Conference on Applied Gas Dynamics) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1959. 235 p. Errata slip inserted.
 Sponsoring Agency: Kazakhskiy gosudarstvennyy universitet imeni S.K. Kirova.

Ed.: V.V. Aleksandriyevskiy, Tech. Ed.: Z.P. Korokina; Editorial Board: L.A. Vukis (Resp. Ed.), V.P. Kashkarov, T.F. Leont'yeva, and B.P. Ustinenko.

PURPOSE: This book should be of interest to scientists and engineers working on problems of applied gas dynamics and may be of use to students.

COVERAGE: This book presents reports and brief summaries of the discussions which took place at the conference on Applied Gas Dynamics in Alma-Ata in October 1956. The conference was divided into three areas of applied gas dynamics: jet flows of fluids and gases, the aerodynamics of heating processes, and the discharge of a fluid. The practical value of the Transactions of the Conference consists in the development of theory, methods of technical calculation and methods for systematic measurement applied to heating, furnace, and other industrial processes in which, in most cases, aerodynamic phenomena are decisive factors.

Atatnov, M.I. Survey of Articles on Jet Theory by the Chair of Hydro- and Aerodynamics of the Leningrad Polytechnical Institute imeni M.I. Kalinin 107

Shepelev, S.F., and S. Tazil. Two-dimensional Jet in the Cross Section of an Air Duct 108

Respalova, Y.G. Use of Hydrodynamic Calculating Machines for the Solution of Jet Problems 115

Brief Summary of the Discussions 122
 Session of October 25, 1956 (morning)

Katnel'son, B.D. Some Problems in the Aerodynamics of Cyclones Combustion Chambers and the Combustion of Coal Dust 123

Ustinenko, B.F. Aerodynamics of Twisted Jets and Cyclones Chambers 134 (c)

TSOY, S.; SHEPELEV, S.F.

Regulating the distribution of air in mines by air curtains
through the interaction of meeting air streams. Vest. AN
Kazakh. SSR 14 no.8:56-66 Ag '58. (MIRA 11:10)
(Mine ventilation) (Air curtains)

Tsoy, S.

SOV/124-58-11-12408

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 65 (USSR)

AUTHORS: Shepelev, S.F., Tsoy, S.

TITLE: A Plane Air Sheet-jet in the Cross Section of a Mine (Ploskaya
vozdušnaya struya v poperechnom sechenii vyrabotki)

PERIODICAL: Tr. In-ta gorn. dela. AN KazSSR, 1958, Vol 3, pp 129-146

ABSTRACT: The paper quotes the results of the first stage of an investigation and evaluation of the efficiency and applicability of air curtains for the purpose of regulating air distribution in underground mine workings. During the investigations made on models of mines the form of the axis, the profile of the field of the air velocities of the stream, and the amount of ejected air were determined.

V. N. Gusev

Card 1/1

SHEPELEV, S.F.; TSOY, S.

Air stream flowing steadily from a crevasse into space limited in height by parallel planes. Trudy Inst. gor. dela AN Kazakh. SSR no.3:160-171 '58. (MIRA 11:6)
(Aerodynamic measurements)

TSOY, S.

Ansell's automatic firedamp indicator (from D. Penman and G.S. Penman "The principles and practice of mine ventilation," 2d. ed., 1947). S. Tsoi. Trudy Inst. gor. dela AN Kazakh. SSR no.3: 172-173 '58. (MIRA 11:6)

(Great Britain--Gas detectors)
(Penman, D.) (Penman, G.S.)

SHEPELIV, S.F.; TSOY, S.

Flat air stream in a cross section of a mine. Trudy Inst. gor.
dela AN Kazakh. SSR no.3:129-146 '58. (MIRA 11:6)
(Mine ventilation) (Air curtains)

TSOY, S.

SHEPELEV, S.F.; TSOY, S.

Comparative evaluation of analytical formulas for calculating air
barriers. Trudy Inst. gor. dela AN Kazakh, SSR 1:133-139 '56.
(Mine ventilation) (MIRA 11:1)

TSOY, S.

SHEPELEV, S.F.; TSOY, S.

Portable mine gas detectors. Trudy Inst. gor. dela AN Kazakh. SSR
1:183-185 '56. (MIRA 11:1)

(Mine gases) (Gas detectors)

SHEPELOEV, S.F., kandidat tekhnicheskikh nauk; TSOY, S., gornyy inzhener.

Effectiveness of ventilation in removing dust when boring in blind
holes. Bor'ba s sil. 2:150-158 '55. (MLRA 9:5)

1. Institut gornogo dela Akademii nauk Kazakhskoy SSR (for Tsoy)
(MINE VENTILATION) (BORING) (DUST--REMOVAL)

RADCHENKO, G.A., kandidat tekhnicheskikh nauk; BELOBORODOV, P.V., gornyy inzhener; TSOY, S., gornyy inzhener

Calculating ventilation of areas in the secondary crushing horizon as applied to stage ore crumbling systems. Bro'ba s sil. 2:159-172 '55. (MIRA 9:5)

1. Institut gornogo dela Akademii nauk Kazakhskoy SSR.
(MINE VENTILATION) (DUST--PREVENTION)

TSOY, S.
SHEPELEV, S.F., TSOY, S.

Air shower as a means of protecting the miner from dust. Izv.
AN Kazakh.SSR.Ser.gor.dela, met. i stroimat. no,11:114-117 '56.
(MIRA 10:1)
(Miners--Diseases and hygiene) (Mine dusts)

TSOY, S., gornyy inzhener; SAPITSKIY, K.F., gornyy inzhener; PETROSYAN, A.E.

On the article of A.E.Petrosian "Problem of determining the permissible length of a stope in accordance with ventilation requirements in gas mines of the Donets Basin." Ugol' 28 no.8:46-47 Ag '53. (MLRA 6:7)
(Mine ventilation)

KEKIN, A.A.; TSOY, S.V.; STAKHANOV, A.N.

Results of studies of a dust collector with preliminary coagulation
of dust. Trudy Inst.gor.dela AN Kazakh.SSR 8:137-149 '61.
(MIRA 15:4)

(Dust collectors)

AZIZBEKOV, Sh.A.; AMIRASLANOV, A.A.; ASLANYAN, A.G.; MUSTAFABEYLI,
M.A.; SINANYAN, G.A.; TVALCHRELIDZE, G.A.; TSOY, V.;
KITAYENKO, L.G., red. izd-va; SHMAKOVA, T.M., tekhn. red.

[Geology of lead and zinc deposits in the Caucasus and their
distribution features] Geologiya svintsovotsinkovykh mesto-
rozhdenii Kavkaza i zakonomernosti ikh razmeshchenia. Otvet.
red. A.A.Amiraslanov. Moskva, Gosgeoltekhizdat, 1962. 165 p.
(MIRA 15:7)

(Caucasus--Lead ores)
(Caucasus--Zinc ores)

GHALYY, K.; TSOY, V.

Radio network in the service of machinery operators. Radio no.7:7
Jl '54. (MLRA 7:7)
(Radio in agriculture) (Telephone, Wireless)

Tsoy, V.

USSR/Miscellaneous - Radio communications

Card 1/1 : Pub. 89 - 4/29

Authors : Chaliy, K., and Tsoy, V.

Title : Radio communications in the service of mechanization specialists

Periodical : Radio 7, page 7, July 1954

Abstract : The article deals with the system of radio communications between the various Kolkhozes and the newly organized MTS (Machine-Tractor Stations) in Kazakhstan. General information about the type of radio-installations and the range of operation, in the newly opened areas, is given, together with the number of new Kolkhozes, MTS, tractors and mechanized plows. Illustration.

Institution : ...

Submitted : ...

BAGOV, M.S.; TSOY, V.I.; REMNEV, B.F.

Evaluation of the physical properties of cores of fractured rocks.
Trudy GrozNII no.10:161-170 '61. (MIRA 15:2)
(Borings)

REMNEV, B.F.; BAGOV, M.S.; TSOY, V.I.

Method of determining the connate water content in cores and
studying their pore structure. Trudy GrozNII no.10:158-160
'61. (MIRA 1962)

(Borings)

TSOY, V.P., red.; SHERMAN, R., red.; NAGIBIN, P., tekhn.red.

[Sugar beets] Sakharnaia svekla. Izd. 2., dop. 1 perer.
Alma-Ata, Kazakhskoe gos. izd-vo, 1958. 171 p. (MIRA 12:2)
(Sugar beets)

1. TSOY, V.P.
2. USSR (600)
4. Agriculture
7. Sugar beet. Alma-Ata, Kazgosizdat, 1952

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

TSOY BYAY O.

TSOY BYAY O: "Stars of the Be type". Leningrad, 1955. Leningrad Order of Lenin State University named A. A. Zhdanov. (Dissertations for the Degree of Candidate of Physicomathematical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December 1955. Moscow.

TSOYMAN, G., inzh.

Equation of state for Freon-13. Khol.tekh. 36 no.1:37-39 Ja-F '59.
(MIRA 12:3)

1. Tsentral'nyy proyektno-konstruktorskiy institut, g. Kiyev.
(Freons)

AUTHOR: Tsoyman, G., Engineer SOV/66-59-1-8/32

TITLE: Equation of State for Freon-13 (Uravneniye sostoyaniya Freona-13)

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 1, pp 37-39 (USSR)

ABSTRACT: Freon-13 with its low boiling temperature is receiving growing attention as a low temperature cooling agent. An equation of state for Freon-13 is being presented, satisfying the experimental values of p (pressure), v (volume) and T (temperature) with a high degree of accuracy, which can not be said about the equation worked out by Albricht and Martin. The author's equation has been developed on the basis of the procedure worked out recently by Ya. Kazavchinskiy, while the experimental data of Albricht and Martin have been utilized, as well as those of Riedel, Ruff and Keim. In accordance with the presented equation of state it is possible to determine the thermo-dynamic properties of Freon-13, up to the point of saturation in the interval of densities from 0 to 1.2 of the critical one. It permits extensive extrapolation in the domain of high and low temperatures. The method of obtaining analytical expressions for elementary functions applied in the derivation of the equation ensures greatest coincidence with the

Card 1/2

Equation of State for Freon-13

SOV/66-59-1-8/32

experimental values of p , v , T . The equation can be used for compiling of thermo-dynamic tables and plotting of thermal diagrams.

There are 2 tables and 5 references, 1 of which is Soviet, 2 German and 2 American.

ASSOCIATION: Tsentral'nyy proyektno-konstruktorskiy institut, g. Kiyev
(Central Planning and Designing Institute of Kiyev)

Card 2/2

TSOYMAN, G. I.

Cand Tec Sci, Diss -- "Investigation of the thermodynamic properties of ammonia and fluorochlorine derivatives of hydrocarbons of industrial importance". Baku, 1961. 26 pp with graphics, 20 cm (Joint Council of the Azerbaydzhan Inst of Petroleum and Chem imeni Azizbekov and inst and installations of the Acad Sci AzSSR on power engr and automation of industrial processes), 250 copies, No charge (KL, No 9, 1961, p 185, No 24378). [61-52332]

RABINOVICH, V.A.; TSOYMAN, G.I.

Equation of state and thermodynamic properties of liquid ammonia.
Inzh.-fiz. zhur. 4 no.1:31-35 Ja '61. (MIRA 14:4)

1. Tsentral'noye proyektno-konstruktorskoye byuro No.3, Odessa i
Institut inzhenerov Morskogo flota, Odessa.
(Ammonia) (Equation of state)

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TSOYMAN, G.I.

Caloric properties of undissociated ammonia. Zhur.fiz.khim.
35 no.9:2132-2134, '61. (MIPA 14:10)
(Ammonia—Thermal properties)

SOV/76-33-5-6/33

5(4)
 AUTHORS: Kazavchinskiy, Ya. Z., Tsoyman, G. I. (Odessa)
 TITLE: The Equation of State of Freon-41 (Methylfluoride) (Uravneniye sostoyaniya freona-41 (metilftorida))
 PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5, pp 992 - 996 (USSR)
 ABSTRACT: In a previous paper (Ref 2) $\sigma = \alpha_0 + \alpha_1 \tau + \beta \psi$ was derived for the equation of state of a real gas and the methods of analytical determination of the coefficients $\alpha_0, \alpha_1, \beta$, and the graphic-analytical determination of the function ψ was given. This paper uses the experimental data for p, v, and T obtained by Michels (Ref 3). The equations for three isothermal lines are formulated: the critical isothermal line 44.6°C (in dimensionless coordinates $\tau = 1$), 100°C ($\tau = 1.174351$), and 150°C ($\tau = 1.331707$). The equation of the isothermal lines runs as follows: $\sigma = \tau + B\omega + C\omega^2 + D\omega^4 + E\omega^6$. The values for B, C, D, and E are shown in table 1. The graphic-analytical determination of the temperature function ψ showed that it can be represented with sufficient accuracy by

Card 1/2

$$\psi = \frac{1}{\tau^2} . \text{ On account of these equations of isothermal}$$

The Equation of State of Freon-41 (Methylfluoride)

SOV/76-33-5-6/33

lines the analytical expressions for the elementary functions α_0 , α_1 , and β were found which are compared to the experimental data in table 2. The equation of state permits an extensive extrapolation towards both sides. The values for v'' of freon-41 were determined on account of the dependences between saturated steam pressure and temperature indicated by Michels (Ref 5). Table 3 shows the values for p and v'' interpolated for low temperatures. Moreover, the caloric data of freon-41 were computed by means of the equation of state. Tables 4 and 5 show the specific heat and specific inner energy as compared to the values by Michels. There are 5 tables and 6 references, 3 of which are Soviet.

SUBMITTED: August 8, 1957

Card 2/2

S/276/63/000/002/030/052
A052/A126

AUTHORS: Tsozik, G.P., Nenazhivin, G.A., and Zuyev, V.G.

TITLE: Machine for mechanized enamel-slip application to steel objects

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 2, 1963, 109, abstract 2B595 (Sb. rabot N.-i. in-ta tekhnol. mashinostr. Sovnarkhoz Rostovsk. ekon. adm. r-na, no. 1, 1960, 9-15)

TEXT: An experimental mechanized merry-go-round type installation for enamel-slip application is described on which a simultaneous progressive and rotary motion of workpieces is realized. In the process of progressive motion the workpieces are dipped into a bath with slip. The number of reversing turns is controlled by means of a pulse-counting relay and the speed of the carriage and rotational speed of workpieces are controlled by chokes mounted in the pneumatic system. The slip application to the workpiece surface and the runoff of its excess into the bath take place under constant preset conditions securing high-quality products. By means of easily exchangeable guide blocks a coating can be applied to

Card 1/2

S/276/63/000/002/030/052
A052/A126

Machine for mechanized...

hollow objects of various configuration. The advantages of the installation are: the possibility of a simultaneous enamel application to the inside and outside surfaces of an object, reduction of the primary coat thickness to 0.1-0.11mm, reduction of the covering enamel layer to 0.2 - 0.22mm, improvement of quality, increase of efficiency by over 100%. The possibility of incorporating the installation in a mechanized line for steelware enameling (320mm maximum size of pieces) is stressed.

L. Kamionskiy

(Abstracter's note: Complete translation.)

Card 2/2

TSPENKO, A.

Bulgarian Architecture. p. 3" (ARKHITEKTURA I STROITELSTVO) Vol. 2, No. 3, 1952,
Sofiya, Bulgaria.

SO: Monthly List of East European Accessions L.C. Vol. 2, No. 11, Nov. 1953, Uncl.

PROCESSES AND PROPERTIES INDEX

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F

165. CONTENT OF PYRENE AND OTHER HIGH-BOILING COMPOUNDS IN COAL TAR, PITCH, AND PITCH DISTILLATES. Karpukhin, P. P. and Tsapkina, O. Ya. (Zhurnal Prikladnoi Khimii (J. Appl. Chem.)), 1948, vol. 21, 21, 295-299; abstr. in Chem. Abstr., 1949, vol. 43, 6809).

Distillation of pitch, m. 40°, was accompanied by much cracking; the distillate analyzed according to Karpukhin and Arepkova gave 0.23% pyrene in fraction b. 297-330°, 0.42% in 330-46° fraction, and 1.62% by 346-52° fraction. Pitch distillates (obtained by steam distillation at 400 m.m.) from plant production averaged 5.07% pyrene. Pitch produced by steam blowing of crudes (m. 60°) gave distillates containing 4.43% pyrene in the distillates. In addition, products obtained by air blowing of 40° pitch gave 8% chrysene in the 394-440° fraction (isolated by crystallization; m. 220°); the mother liquor (after chrysene removal) gave yellow solid, m. 201.4-202°.

METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

COMMON VARIABLES INDEX

PROCESS AND PROPERTIES INDEX

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165. CONTENT OF PYRENE AND OTHER HIGH-BOILING COMPOUNDS IN COAL TAR, PITCH, AND PITCH DISTILLATES. Karpukhin, P. P. and Topkina, O. Ya. (Zhurnal Prikladnoi Khimii (J. Appl. Chem.), 1948, vol. 21, 21, 295-299; abstr. in Chem. Abstr., 1949, vol. 43, 6809).

Distillation of pitch, m.p. 40°, was accompanied by much cracking; the distillate analyzed according to Karpukhin and Arepkova gave 0.23% pyrene in fraction b. 297-330°, 0.42% in 330-46° fraction, and 1.62% by 346-52° fraction. Pitch distillates (obtained by steam distillation at 400 m.m.) from plant production averaged 5.07% pyrene. Pitch produced by steam blowing of crudes (m.p. 60°) gave distillates containing 4.43% pyrene in the distillates. In addition, products obtained by air blowing of 40° pitch gave 8% chrysene in the 394-440° fraction (isolated by crystallization; m.p. 220°); the mother liquor (after chrysene removal) gave yellow solid, m.p. 201.4-202°.

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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TSPLENKOV, Ye.P., kand.sel'skokhoz.nauk; POPOV, G.A., nauchnyy sotrudnik;
STRUBINSKIY, M.S., nauchnyy sotrudnik

Toxicity of aldrin and dieldrin in the control of the migratory
and the Italian locust. Zashch. rast. ot vred. i bol. 5 no.1:
28-29 Ja '60. (MIRA 14:6)

1. Vsesoyuznyy institut zashchity rasteniy.
(Locusts) (Dieldrin) (Aldrin)

Tsrnchevich

H-28

YUGOSLAVIA / Chemical Technology. Food Industry.

Abs Jour : Ref Zhur - Khim., No 12, 1958, No 41384

Author : Tsrnchevich, Gugyshevich

Inst : Not given

Title : Formation of a Marbled Appearance in Tin Cans Containing Preserved Stewed Fruits.

Orig Pub : Technika, 1957, 12, No. 11, Prehrabena ind., 11, No. 11, 165-168

Abstract : The causes of corrosion (marbling) of tin and the change in color of the preserved stewed fruits are investigated as well as the preventative measures against the mentioned phenomena. The effect of individual types of fruit on the tin corrosion was studied. The most intensive corrosion was caused by sulfides. In their absence, the tanning substances have no effect on good quality tin. Pectin solutions protect tin from corrosion; however, its normal concentration in fruits is insufficient for the protection of the tin.

Card 1/1

YUGOSLAVIA / Chemical Technology, Food Industry

H-28

Abs Jour : Ref. Zhur-Khimiya, No 12, 1958, 41356

Abstract : 8.7; glucose 6.39; sacharose 0; pectin 0.53; tanning substances 0.5; ascorbic acid 174.2mg%; pH of the juice 5.1; the ratio of the sugar amount to that of acid 23.1 to 1. A jam from the fruits of the strawberry tree and from their mixture with apples has a good quality.

Card 2/2

S/081/63/000/003/028/036
B144/B186

AUTHORS: Kabaivanov, Vl., Ts"rnorechki, O.

TITLE: Compatibility of polyvinyl chloride with polyvinyl acetate
in the presence of a third component

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 589, abstract
3745 (Godishnik Khim.-tehnol. in-t, v. 7, nos. 1-2, 1960
(1961), 213-222 [Bulg.; summaries in Russ. and Eng.])

TEXT: It has been established as a result of studying the compatibility of polyvinyl chloride [(PVC), molecular weight 40 000] with polyvinyl acetate [(PVA), molecular weight 30 700] in the presence of dibutyl phthalate (I) and glyptal resin [(GR), molecular weight 1430, that GR and particularly I improve the compatibility of PVC and PVA. The tensile strength-versus-composition (PVC - PVA) curve shows deviations from the monotonic course occurring in the case of PVC:PVA ratios of 70:30 and 40:60, which is explained by the mutual plasticizing effect of the two polymers. [Abstracter's note: Complete translation.]

Card 1/1

S/260/62/000/010/001/002
1007/1207

AUTHOR: Ts''rnorechki, O. and Arshinkov, I. V.

TITLE: Methods for obtaining ferric oxide ($\gamma\text{-Fe}_2\text{O}_3$) of high ferromagnetic properties

PERIODICAL: Referativnyy zhurnal, ctdel'nyy vypusk. 40. Pribory tochnoy mekhaniki i ispytatel'nyye ustanovki, no. 10, 1962, 3, abstract 40.10.17. "Izv. N.-i. in-t kinematogr. radio", v. 1, 1960, 137-152 [Bulgarian].

TEXT: Description is given of methods for obtaining ferromagnetic materials used as sound-carriers in the manufacturing of sound-recording tapes. By subjecting ferric oxalate ($\text{FeC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$) to a one-stage heat treatment, ferric oxide ($\gamma\text{-Fe}_2\text{O}_3$) of high ferromagnetic properties is obtained. ✓

[Anstracter's note: Complete translation.]

Card 1/1

S/081/62/000/022/064/088
B166/B144

AUTHORS: Kabaivanov, Vl., Ts"rnorechki, O., Kuzova, L.

TITLE: Compatibility of nitrocellulose and acetylcellulose in the presence of certain plasticizers and resins

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 490, abstract 22P100 (Izv. N.-i. in-t kinematogr. i radio, v. 2, 1959-1960(1961), 167-174 [Bul.; summaries in Russ. and French])

TEXT: Viscometer measurements prove that nitrocellulose (NC) with 11.8 % N and acetylcellulose (AC) with 49.5 % bound CH_3COOH are incompatible with one another. Tricresyl phosphate and epoxy and glyptal resins are shown to improve considerably the compatibility of NC with AC; in this respect dibutyl phthalate is less effective. [Abstracter's note: Complete translation.]

Card 1/1

S/081/62/000/017/059/102
B158/B186

AUTHOR: Ts"rnorechki, Og. St.

TITLE: The effect of certain factors in the precipitation of ferrous oxide oxalate on the magnetic properties of the γ -Fe₂O₃ obtained from it

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 378, abstract 17K207 (Izv.N.-i. in-t kinematogr. i radio, v. 2, 1959-1960 (1961), 47-51 [Bulg.; summaries in Russ. and French])

TEXT: [Abstracter's note: Complete translation.]

Card 1/1

S/081/62/000/017/060/102
B158/B186

AUTHORS: Peshev, P. D., Ts"rnorechki, Ogn. St.

TITLE: Determining the optimum conditions for thermal processing of ferrous oxide oxalate to γ -Fe₂O₃

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 378, abstract 17K208 (Izv. N.-i. in-t kinematogr. i radio, v. 2, 1959-1960 (1961), 53-67 [Bulg.; summaries in Russ. and Ger.])

TEXT: [Abstracter's note: Complete translation.]

Card 1/1

S/081/62/000/017/061/102
B158/B186

AUTHORS: Peshev, P. D., Ts"rnorechki, Ogn.St.

TITLE: Differential thermal analysis of raw materials for
magneto-soft ferrites and ferrites with a rectangular
hysteresis loops

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 378, abstract
17K209 (Izv. N.-i. in-t kinematogr. i radio, v. 2,
1959-1960 (1961), 75-81 [Bulg.; summaries in Russ. and
French])

TEXT: [Abstracter's note: Complete translation.]

Card 1/1

TSRUL'NIKOV, M. S., Cand of Med Sci -- (diss) "Clinic, Diagnosis, and
Treatment of the Apoplexy of the Testicles," Moscow, 1959, 16 pp
(Central Institute for the Advanced Training of Physicians) (KL, 6-60, 126)

KOLAROV, I., inzh.; TS^hRVENKOV, N., inzh.

Design of the main beams of crane bridges. Vest.mashinostr. 43
no.9:28-31 S '63. (MIRA 16:10)

TSSHOKHER, V.O.

Seismology in problems of city planning. Trudy FTI Turk.fil.
AN SSSR no.1:29-35 '49. (MIRA 16:1)
(Earthquakes and building) (City planning)

TSSHOKHER, V.O.

Developing norms for earthquake-proof construction. Trudy FTI
Turk.fil.AN SSSR no.1:36-42 '49. (MIRA 16:1)
(Earthquakes and building)

TSSHOKHER, V.O.

Notes on problems of earthquake-proof construction. Trudy FTI
Turk.fil.AN SSSR no.1:43-45 '49. (MIRA 16:1)
(Earthquakes and building)

TSSHOKHER, V. O., prof. (Ashkhabad); AYZENBERG, Yu. B. (Ashkhabad)

Temporary standards for the use of desert (Kara Kum) sand in mixed mortars for masonry; for construction in Ashkhabad. Trudy FTI Turk. fil. AN SSSR no.2:3-6 '50. (MIRA 16:1)

1. Zaveduyushchiy Antiseysmicheskim otdelom Turkmenskogo filiala AN SSSR (for TShokher). 2. Zaveduyushchiy laboratoriyey stroitel'nykh materialov Antiseysmicheskogo otdela Turkmenskogo filiala AN SSSR (for Ayzenberg).

(Ashkhabad—Mortar)

TSSHOKHER, V. O.

Notes on technical specifications TU-58-48 for the design
of buildings and structures for seismic districts. Trudy FTI
Turk. fil. AN SSSR no.2:46-52 '50. (MIRA 16:1)

(Earthquakes and building)