"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNIKOVA, L.A.

Content of thyrotropic hormone in the blood in coronary atherosclerosis. Ter. arkh. 35 no.7:23-28 Jl'63 (MIRA 17:1)

1. Iz 1-y kafedry terapii (zav. - prof. L.M.Rakhlin) Kazanskogo instituta usovershenstvovaniya vrachey.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNIKOVA, L.A.

Thyrotropic hormone level of the blood in atherosclerosis. Kardiologiia 3 no.4:51-54 Jl-Ag'63 (MIRA 17:3)

1. Iz kafedry terapii No.1 (zav. - prof. L.M. Rakhlin) Kazanskogo instituta usovershenstvovaniya vrachey.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNIKOVA, M.V.; DUBINKINA, Ye.P.

Errors in diagnosing tumors of uterine adnexae. Akush. i gin. 35 no.3:123-124 My-Je '59. (MIRA 12:8)

1. Iz kafedry akusherstva i ginekologii (zav. - prof.Ye.S. Akopyan) Kubanskogo meditsinskogo instituta imeni Krasnoy Armii.

(ADNEXA UTERI, neoplasms
diag. errors (Rus))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNIKOVA, Z. M.,

"On Monotonousness of Solutions of Systems of Differential and Difference Equations." (Dissertation for the Degree of Candidate of Physical and Mathematical Sciences) Min Higher Education USSR, Ural State U imeni A. M. Gor'kiy, Sverdlovsk, 1955.

SO: M-1036, 28 Mar 56

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNIKOVA, N.

More attention should be given to young transportation specialists. Avt. transp. 38 no. 5:48 My '60. (MIRA 14:2)

1. Zam.nachal'nika Upravleniya kadrov i uchebnykh zavedeniy Ministerstva avtomobil'nogo transporta i shosseynykh dorog RSFSR.
(Transportation, Automotive)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SOV/140-58-2-18/20

AUTHOR: Lushnikova, Z.M.

TITLE: On ~~Monotony of~~ Solutions of Systems of Differential Equations (O monotonnosti resheniy sistem differentsial'nykh uravneniy)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy Ministerstva vysshego obrazovaniya SSSR, Matematika, 1958, Nr 2, pp 210-218 (USSR)

ABSTRACT: The author considers the system

$$(1) \qquad \frac{dx_i}{dt} = X_i(x_1, x_2, \ldots, x_n)$$

with continuously differentiable right sides; let $X_i(0,0,\ldots,0)=0$. Let $p(x_1,\ldots,x_n)$ be a point of the phase space. The trajectory $f(p,t)$ which in the moment $t = t_0$ leaves the point p, is called monotone in x_1 if on it for all $t \geq t_0$ the conditions $x_1 > 0$, $\frac{dx_1}{dt} < 0$ are satisfied and if $f(p,t) \to 0$ for $t \to +\infty$. An open domain G which is filled up of trajectories monotone with respect to x_1, is called a domain of monotony with respect to x_1.

Theorem: If in a certain domain G, which joins the origin, a positive function $V(x_1,\ldots,x_n)$ can be given, the derivative

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

On Monotony of Solutions of Systems of Differential Equations SOV/140-58-2-18/20

$\frac{dV}{dt} = \sum \frac{\partial V_i}{\partial x_i} \cdot X_i$ of which is negative; if $V(p)$ increases unlimitedly, if p approaches the boundary or if $\sum x_i^2 \to \infty$; if in G besides $x_1 > 0$ and $\frac{dx_1}{dt} < 0$, then G is a domain of monotone stability in x_1. In a certain sense the second theorem is the reversion of the first one.
The third theorem asserts that for the appearance of small disturbances also the domain of monotony changes little.
There are 5 Soviet references.

ASSOCIATION: Ural'skiy politekhnicheskiy institut imeni S.M.Kirova (Ural Polytechnical Institute imeni S.M.Kirova)

SUBMITTED: October 15, 1957

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

06312
SOV/140-59-6-13/29

16(1)

AUTHOR: Lushnikova, Z.M.

TITLE: On the Question of the Variation of the Region of Monotony

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 6, pp 96-101 (USSR)

ABSTRACT: In her preceding paper [Ref 1] the author gave necessary and sufficient conditions that the solutions of

$$(1) \quad \frac{dx_i}{dt} = X_i(x_1, x_2, \ldots, x_n) \quad (i=1,2,\ldots,n),$$

where X_i are functions continuously differentiable everywhere in $-\infty < x_i < +\infty$, $X_i(0,0,\ldots,0) = 0$, are monotone with respect to a coordinate x_i. In the present paper the author investigates the change of the region of monotony proved in [Ref 1] for the transition to the corresponding system of difference equations and for the introduction of a delay.

Theorem 1: Let the system (1) stable in the large be monotone in G with respect to x_1. Then for all given ε and R a number $\delta > 0$ can be determined so that the system

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

06312

On the Question of the Variation of the Region of Monotony SOV/140-59-6-13/29

(2) $x_i(t+kh)-x_i[t+(k-1)h] = h\cdot X_i[x_1(t+(k-1)h),\ldots\ldots$
$\ldots,x_n(t+(k-1)h)]$ $(i=1,2,\ldots,n;\ k=0,1,2,\ldots)$

for all h, $0<h<\delta$, is monotone in G_1 with respect to x_1, where the deviation of the domain G_1 from G (in the sphere with the radius R) is not greater than ε.

Theorem 2: Let the system (1) stable in the large be monotone in G with respect to x_1. Then to all ε and R there exists a $\delta=\delta(\varepsilon,R)$ so that the system

(5) $\frac{dx_i}{dt} = X_i[x_1(\tau-h_{i,1}),\ldots,x_n(\tau-h_{i,n})]$

for arbitrary $h_{ij}(\tau)$, $|h_{ij}(\tau)|<\delta$, is monotone in G_1 with respect to x_1, where the deviation of the domain G_1 from G (in the sphere with the radius R) is not greater than ε.

There are 4 references, 3 of which are Soviet, and 1 German.

ASSOCIATION: Ural'skiy politekhnicheskiy institut imeni S.M.Kirova (Ural Polytechnical Institute imeni S.M.Kirov)

SUBMITTED: June 30, 1958

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

88863

S/044/60/000/007/017/058
C111/C222

16.3500

AUTHOR: Lushnikova, Z.M.

TITLE: On the region of monotony of some nonlinear differential equations

PERIODICAL: Referativnyy zhurnal.Matematika, no.7, 1960, 86. Abstract no.7574. Tr.Ural'skogo politekhn.in-ta, 1958, sb.74, 46-52

TEXT: The author considers systems of differential equations obtained with the arrangement $\dot{x} = y, \ldots$ from the equations $\ddot{x}+ax+f(x) = 0$, $\ddot{x}+\varphi(x)+bx = 0$, $\ddot{x}+\varphi(x)\dot{x}+bx = 0$, $\dddot{x}+a\ddot{x}+b\dot{x}+f(x) = 0$, and being equivalent to them. The following definitions are formulated: An arbitrary solution of such a system is called monotone with respect to the function $V = \frac{x^2}{2}$ if the timely derivative dV/dt calculated along this solution is negative. The open region G filled with trajectories of the system being monotone with respect to V is called the region of monotony of this system. For such an interpretation of the monotony and the region of monotony the results of the paper are not valid since for all considered equations "regions of monotony" are constructed which,

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

88863

S/044/60/000/007/017/058
C111/C222

On the region of monotony...

beside of the whole trajectories of the system, contain also their positive semitrajectories. If in the given definition of monotony the word "solution" everywhere is replaced by "positive semitrajectory", and in the definition of the region of monotony the word "trajectory" is replaced by "positive semitrajectory" then one obtains definitions to which there correspond the conditions for the existence of regions of monotony given in the article. These conditions consist of certain restrictions for the defining quantities of the above equations; regions of monotony of the corresponding systems are constructed. Here it always is proved that at least those positive semitrajectories of the system which belong to the region of monotony are O^+-curves. Thus the published results are a further development and especially a detailed performance of the idea of A.D.Gorbunov (Vestn.Mosk.un-ta, 1951, no.3).

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, G.I., inzh.; ZVEREV, N.I., kand.tekhn.nauk; GAVRILOV, A.F., inzh.

Experimental determination of resistance coefficients in the pneumatic transportation of pig iron shot. Teploenergetika 8 no.1:15-18 Ja '61. (MIRA 14:4)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Boilers—Cleaning) (Pneumatic-tube transportation)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, N.

"Applying methods of hydro-thermal analogs for controlled temperature regime in massive concrete structures."

Dissertation for Candidate of Technical Sciences, Military Engineering Academy im. Kuybyshev, (VIA)

Subject: Hydroengineering building and construction

Gidrotekhnicheskoye, stroitel'stvo, 12, 1946.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, N. P. PA 33/49T41

USSR/Engineering Feb 49
Construction Material
Cement

"The Selection of More Solid Mixtures of Fillers for Cement," N. P. Lushnov, Cand Tech Sci, 4 pp

"Gidrotekh Stroi" No 2

Considers method for investigating general characteristics of filler mixtures and method for calculating their greatest compactness. States that basic indexes of the quality of a filler mixture are volumetric weight and coefficient of the change in volume of the mixture.

[redacted] 33/49T41

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, N. P

ALIPOV, N.V. [translator]; LUSHNOV, N.P., red.; PAVLOV, V.S., red.; IOVLEVA, H.A., tekhn.red.

[Nuclear weapons. Translated from the English] Atomnoe oruzhie. Pod red. N.P.Lushnova. Moskva, Izd-vo inostr. lit-ry, 1957. 71 p. (MIRA 11:4)

1. Scotland. Home Department.
(Atomic weapons)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, N.P., inzh.

Coordinating conference on problems of the earthquake resistance of dams made of local materials. Gidr. stroi. 33 no.11:60-61 N '62. (MIRA 16:1)

(Dams--Congresses)
(Earthquakes and hydraulic structures--Congresses)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, N.P., kand.tekhn.nauk

Employing the theory of similitude and scale in the analysis of the results of testing samples of rock on A.M.Viktorov's device. Trudy Lab. gidr.sooruzh. VODGEO no. 4:59-64 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, N.P.

Structure of the arrangement of grains and the angle of the natural declivity of stone material in a rock fill. Trudy VODGEO no.11: 40-43 '65 (MIRA 19:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHNOV, N.P.

Control of the granular composition of the stone material of rock-fill and rock-earth dams. Trudy VODGEO no. 11:62-66 '65 (MIRA 19:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

Lushpa, A.I.

KOSHKIN, Valentin Konstantinovich, professor; LEVIN, Boris Ruvimovich; KUTYRIN, Igor' Nikolayevich; BORISOV, Boris Petrovich; PORTNOV, D.A., doktor tekhnicheskikh nauk, retsenzent; LUSHPA, A.I., kandidat tekhnicheskikh nauk, redaktor; UVAROVA, A.F., tekhnicheskiy redaktor

[Free-piston engines in heat power plants] Dvigateli so svobodno dvizhushchimisia porshniami v teplosilovykh ustanovkakh. Pod red. V.K.Koshkina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 227 p. (MLRA 10:6)
(Gas turbines) (Gas and oil engines) (Pistons)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

COUNTRY : USSR
CATEGORY : Cultivated Plants. Industrial. Oleiferous. Sugar.
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 11096

AUTHOR : Lushpa, G. U.
INST. : Academy of Sciences, Kazakhstan SSR
TITLE : Bokhara Bistort in Cultivation.

ORIG. PUB. : Izv. AN KazSSR, Ser. botan. i pochvoved., 1958, vyp. 1, 83-93

ABSTRACT : Bokhara bistort is a valuable perennial tannin plant. It is encountered in the wild growing form on the sub-alpine meadows of the mountain range of Ferghana-Alay and to a partial extent of the Western Tyan'-Shan'. In cultivation, it grows successfully in the piedmont zone of Almaata Oblast'. It reproduces vegetatively - with pieces of rhizomes weighing 100-300 grams and set out in autumn or spring, or from seeds. In the reproduction from seeds, the sowing is done towards winter, in October-November. The spring sowing of the seeds does not produce sprouts.

CARD: 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

COUNTRY :
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.11066

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : The three-year experience in the cultivation showed that bistort requires 4-5 applications of water. It is responsive to nitrogen-phosphorus fertilizers. The period from sprouting until the ripening of the seeds is 90-95 days. Further vegetation continues until the advent of the light night frosts. The complete cycle of the development terminates in the 2d year in the case of vegetative reproduction and in the 3d year in the case of the reproduction from seeds. The seed production from a 3-year old plant is on an average 79 g. With the density

CARD: 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

JOURNAL :
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.11036

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : of the stand of 100 thousand plants on 1 hectare, the yield of the roots in dry form in the 3d year of life, reaches 25 tons in the case of the reproduction from seeds and 32 tons with the vegetative propagation. In spite of the higher yield, the vegetative cultivation of bistort is less profitable owing to the expensive planting material. The maximum amount of tannins (25.25%) is contained in the 3-year old roots of bistort at the budding stage and the beginning of flowering. -- B. L. Klyachko-Gurvich

CARD: 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHPA, O.U.

Tannin plants of the Pskem and Ugam Ranges of the western Tien Shan. Trudy Inst.bot.AN Kazakh.SSR 7:115-158 '59. (MIRA 13:5)

(Tien Shan--Tanning materials)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHPA, O.U.

Characteristics of ephemeral vegetation of the desert area of the northern Aral Sea region. Izv.AN Kazakh.SSR.Ser.bot.i pochv. no.1: 89-100 '60. (MIRA 13:6)
(Aral region--Desert flora)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHPA, O.U., KHUDAYBERGENOV, E.B.

Honey plants from river-botton forests of the Syr Dar'ya. Vest.AN Kazakh.SSR 16 no.7:101-102 Jl '60. (MIRA 13:8)
(Syr Dar'ya Valley--Honey plants)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

MIKHAYLOVA, V.P.; LUSHPA, O.U.

Resources and distribution of licorice in West Kazakhstan Province. Trudy Inst. bot. AN Kazakh. SSR 11:110-133 '61. (MIRA 15:3)
(West Kazakhstan Province--Licorice)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

MIKHAYLOVA, V.P., kand. biol. nauk; LUSHPA, O.U.; KASHKAROVA, N.F.

Knotweed Polygonum coriarum and the possibilities of its cultivation under conditions of dry farming in the south of Kazakhstan. Trudy Inst. bot. AN Kazakh. SSR 21:6-39 '65. (MIRA 18:12)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

MIKHAYLOVA, V.P.; LUSHPA, O.U.

Polygonum coriarium, a new forage plant. Izv. AN Kazakh. SSR. Ser. biol. nauk 3 no.2:28-35 Mr-Ap '65.

(MIRA 18:5)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

S/613/61/000/014/005/019
D207/D303

AUTHORS: Lushpa, R.G., and Rebane, L. A.

TITLE: Effect of silver activator concentration on the spectra and yield of alkali-halide phosphors

SOURCE: Akademiya nauk Estonskoy SSR. Institut fiziki i astronomii. Trudy. No. 14, 1961. Issledovaniya po lyuminestsentsii, 87-110

TEXT: The authors report an investigation and interpretation of the changes on spectral characteristics and quantum yield of NaBr:Ag, NaCl:Ag and KCl:Ag occurring on increase of the silver content. The main results of the work were presented at the Ninth All-Union Conference on Luminescence in June, 1960, and a summary was published earlier by L. A. Rebane (Ref. 1: Trudy IFA AN ESSR, no.11, 193, 1960). This work is a continuation of a similar study by the same author of NaCl:Ag with 0.01 - 3.0 mol.% Ag (Ref. 2: Trudy IFA AN ESSR, no. 12, 49, 1960). NaCl:Ag and NaBr:Ag were prepared either as monocrystals (by the Czochralski method) or as polycrystal-

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

line ingots (by solidification of melt). Monocrystal series had 0.01, 0.1, 0.3, 0.6, 1.0, 1.3, 1.6, 2.0 and 3.0 mol. % AgBr in melt; polycrystal series had 1, 3, 7, 10, 15, 20, 25 and 30 mol.% AgBr. KCl:Ag phosphors were prepared from KCl and AgCl which were poorly miscible; only the following AgCl concentrations were used: 0.01, 0.1, 1.0 and 3.0 mol.% in melt. Absorption, emission and excitation spectra were recorded. In the case of monocrystals the technique used previously (Ref. 2:Op. cit.) was employed, except that the absorption spectra of NaBr:Ag with 1.3 and 1.6 mol.% AgBr were determined employing Ye. K. Putseyko's technique (Ref. 7: Optika i spektroskopiya, 3, 665, 1957). G. Fonda's method (Ref.8: J. Phys. Chem., 43, 574, 1939) was used to determine the quantum yield of polycrystals in powdered form. Excitation was obtained from a hydrogen lamp ВСФУ-3 (VSFU-3) and a monochromator СФ-4 (SF-4). The luminescence and the reflected exciting light were analyzed with the same monochromator SF-4 and a photomultiplier ФЭУ-18 (FEU-18). NaBr:Ag is hygroscopic; to keep it dry it was smeared with a thin layer of wax. The principal result of the work was establishment of the existence of three types of luminescence centers

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

Effect of silver activator ... S/613/61/000/014/005/019
D207/D303

in all the phosphors: Type I (one Ag^+ ion), type II (two AG^+ ions), type III (probably Ag atom). As the concentration of silver increased, type I centers were formed first, then type II and finally type III. In KCl:Ag the presence of one or the other type of center depended on previous heat treatment. Acknowledgment is made to F. D. Klement who suggested the subject and directed the work. There are 14 figures, 4 tables and 27 references: 19 Soviet-bloc and 9 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: H. Etzel and J. Schulman, J. Chem. Phys., 22, 1549 (1954); R. Onaka, Science of Light (Tokyo), 3, 156 (1955); Y. Uchida, Y. Nakai and T. Tomotika, J. Opt. Soc. Am., 47, no. 3, 246 (1957); J. Schulman and E. Claffy, Phys. Rev., 108, 1398 (1958).

SUBMITTED: July 30, 1960

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

S/058/62/000/006/037/136
A061/A101

AUTHORS: Lushpa, R. G., Rebane, L. A.

TITLE. Behavior of spectra and yield with concentration in silver-activated alkali-halide phosphors

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 54, abstract 6V374 ("Tr. In-ta fiz. i astron. AN EstSSR", 1961, no. 14, 87 - 110, English summary)

TEXT: The changes of spectrum characteristics and radiative quantum yield of crystal phosphors on NaBr, NaCl, and KCl base when activated by Ag in different concentrations have been investigated. In the case of low Ag concentrations, the centers containing one Ag^+ ion are responsible for luminescence. At an increase of the activator concentration, luminescence centers appear which contain two Ag^+ ions, and the radiative quantum yield of centers of the former type drops so much that the sum of the quantum yields of the two centers remains constant. One more type of centers, the nature of which has not been studied, has been discovered at high Ag concentrations.

N. Maksimova

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHPEY, M.K., inzh.; SHCHELKUNOV, A.D., inzh.

Welded alumiunum gaskets for high-pressure apparatus. Khim. mash. no.4:37 Jl-Ag '61. (MIRA 14:8)

(Chemical apparatus)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

ACCESSION NR: AP4027224 S/0184/64/000/002/0032/0034

AUTHORS: Khismatulin, Ye. R. (Engineer); Lushpey, M. K. (Engineer)

TITLE: Repairing damaged high-pressure casings by welding

SOURCE: Khimicheskoye mashinostroyeniye, no. 2, 1964, 32-34

TOPIC TAGS: welding, fusion welding, fracture welding, through-hole welding, casing welding, high-pressure device, steel, 25Kh3NM steel, tensometry, magnetic defectoscopy, ultrasonic defectoscope

ABSTRACT: The experimental study of fracture welding and through-hole welding of steel 25Kh3NM made it possible to determine the most effective method for repairing heat exchangers and reactors. Simple fractures were repaired by the standard methods of fusion welding while the through-holes of large diameter were filled with plugs made of the same steel as the objects to be repaired, and were welded with Kh3M electrodes at 250-300C. This technique resulted in the appearance of cracks in the inner surface of the objects due to the greater hardness of welded areas. No cracking was observed when the steel 25Kh3NM sublayers were substituted for the plugs. The metal was preheated to the required temperature

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ACCESSION NR: AP4027224

by electrical heaters placed inside the objects, which were subsequently heat-treated in a gas oven. The repaired casings were tested by magnetic and ultrasonic defect-detection devices, and the structure of the welds was studied in polished sections. The repaired heat exchangers were also subjected to tensometric tests at 20-cycle loading. The maximum hydraulic pressure applied was 500 atm (actual expected pressure is 320 atm). No defects were observed after the tests. Orig. art. has: 4 tables and 3 figures.

ASSOCIATION: none

SUBMITTED: 00	DATE ACQ: 17Apr64	ENCL: 00
SUB CODE: ML	NO REF SOV: 000	OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHPEY, M.K., inzh.; KUDRIKOVA, Ye.D., inzh.

Joining tubes to tube plates in high-pressure apparatus. Khim. i neft. mashinostr. no.9:32-33 S '65.

(MIRA 18:10)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

L 34838-66 EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) JD/IG/EM

ACC NR: AP6021003 (N) SOURCE CODE: UR/0125/66/000/006/0031/0034

AUTHOR: Pimshteyn, P. G.; Lushpey, M. K.; Khismatulin, Ye. R.

ORG: Irkutsk Division of the NIIKhimmash (Irkutskiy filial NIIKhimmasha)

TITLE: The strength of welded multilayer high-pressure vessels

SOURCE: Avtomaticheskaya svarka, no. 6, 1966, 31-34

TOPIC TAGS: high pressure vessel, welded vessel, multilayer vessel, prestressed vessel, vessel property

ABSTRACT: Results are presented of the theoretical and experimental investigation of the prestressed state and strength of a welded, multilayer, high-pressure vessel made at the Irkutsk Division of the NIIKhimmash in 1964. The vessel shell was made of three sections, 1100, 1000 and 900 mm long, arc welded together along the circumference. Each shell section consisted of a central carbon steel pipe, 300 mm in diameter, and 7 close fitting steel jackets welded from prestretched, 6-mm steel sheets pressed tightly over the central pipe and each successive jacket. The steel had a tensile strength of 40 kg/mm^2 and a yield strength of 25 kg/mm^2; the vessel was designed for a working pressure of 290 kg/cm^2. In hydrostatic pressure tests, plastic failure without fragmentation occurred at a pressure of 775 kg/mm^2, forming a longitudinal crack, 1300 mm long and 184 mm^2. The circumferencial welds made by automatic multilayer welding had a strength equal to that of the multilayer sections.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

L 34809-66

ACC NR: AP6021803

generator, and power source. To record blood pooling in an organ or vessel regardless of a concomitant variation in volume, the device is equipped with a sensor in the form of an LC oscillator and an electrical system which measures the oscillator Q. Q is a function of eddy currents induced in the sensor which are proportional to the pooling of blood in the organ or vessel to be investigated (see Fig. 1). Orig. art. has: 1 figure. [CD]

SUB CODE: 06/ SUBM DATE: 23Apr64/ ATD PRESS: 5031

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHTANOV, G.D., dotsent.

Problem of methods of studying rock shifting. Ugol' vol.28 no.11:36-38 N '53. (MLRA 6:11)

1. KazGMI. (Mining engineering)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSHTEVSKII, V.

Solar valve. Transp delo 6 no.9/10:88 '54.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSLIN, N.

Lusin, N., et Kouznetzoff, P. Sur l'invariabilité absolue et l'invariabilité à ϵ près dans la théorie des équations différentielles. I. C. R. (Doklady) Acad. Sci. URSS (N.S.) 51, 251–253 (1946).

Lusin, N., et Kouznetzoff, P. Sur l'invariabilité absolue et l'invariabilité à ϵ près dans la théorie des équations différentielles. II. C. R. (Doklady) Acad. Sci. URSS (N.S.) 51, 335–337 (1946).

Consider the system of differential equations

$$(1) \qquad \sum_{j=1}^{n} a_{ij}x_j = \delta_i f(t), \qquad i = 1, \cdots, n,$$

where a_{ij} is a polynomial with constant coefficients and of second degree in D, $D = d/dt$, $\delta_1 = 1$, $\delta_2 = \cdots = \delta_n = 0$. The function $f(t)$ is assumed [illegible] $\Delta(D) = |a_{ij}|$ is not identically zero. In paper I it is proved

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

function $f(t)$ is assumed [illegible] $\Delta(D)=|a_{ij}|$ is not identically zero. In paper I it is proved that the vanishing of the minor of a_{11} in Δ is a necessary and sufficient condition for $x_1(t)$ to be independent of the function $f(t)$. If the first $2n-2$ derivatives of $f(t)$ are bounded on $-\infty<t<\infty$ and if the real parts of the roots of $\Delta(\alpha)=0$ are all negative, paper II shows that the system (1) has only one bounded solution on this interval. If $E_1(t), \cdots, E_n(t)$ represents this bounded solution, and $x_1(t), \cdots, x_n(t)$ represents any other solution of (1), then for every $\epsilon>0$ there exists a T such that $|E_i(t)-x_i(t)|<\epsilon$, $t>T$, $i=1, \cdots, n$.

F. G. Dietrich (Durham, N. C.)

Source: Mathematical Reviews, Vol 8, No. 2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSIN, V.

1/2 (3)

KIŠPATIĆ (J.) & LUŠIN (V[ERA]). **Prašna snijet Kukuruza.** [Head smut of Maize.]—*Zasht. Bilja [Plant Prot., Beograd], 1952*, 12, pp. 18–29, 1952. [English summary.]

In studies at the Institute for Plant Protection, Zagreb, on the biology and control of maize head smut (*Sorosporium reilianum*) [*Sphacelotheca reiliana*: see above, p. 280 and *R.A.M.*, 28, p. 120] the chlamydospores of the fungus were found to be ripe after a resting period of three to four months and 5 to 20 per cent. began to germinate in February and March, but the majority started in April when temperatures were higher. With the aid of the Reed, Swabey, and Kolk infection method [6, p. 548], the optimum temperature for infection of maize seedlings was

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

YUGOSLAVIA/Plant Diseases. Diseases of Cultivated Plants 0-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44483

Author : Lusin V., Panjan M., Regan Mastnak A.
Inst : The Croation Nature Society
Title : The Problem of Chemical Methods of Diagnosing Virus Diseases in Young Fruit Cultures

Orig Pub : Glasnik biol. sek. Hrvatsko prirodosl. drustvo, 1953, (1955), Ser. 2B, 7, 239-241

Abstract : No abstract

Card : 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

YUGOSLAVIA/Plant Diseases. Diseases of Cultivated Plants. 0

Abs Jour: Ref zhur-Biol., No 5, 1958, 20688.

Author : Panjan, Milan; Lusin, Vera.
Inst : Croatian Natural Science Society.
Title : The Pathogeneity of Phytophthora infestans de By Biotypes of Various Derivations.

Orig Pub: Glasnik biol. ser. Hrvatsko prirodosl. drustvo, 1953 (1955), Ser. 2B, 7, 286.

Abstract: No abstract.

Card : 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINA, J.

Bivouacking in the snow, p. 46

VOJNI GLASNIK (Jugoslavenska narodna armija) Beograd, Yugoslavia.
Vol. 12, no. 1, Jan 1958

Monthly List of East European Accessions EEAI LC, Vol. 8, no. 6, June 1959
Uncla.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

KRUKLE, M.; LUSINA, L.; STELLE, V.

Interglacial sediments in the Lubana Lowlands. Vestis Latv ak no.4:77-85 '62.

1. Latvijas PSR Zinatnu akademijas Geologijas institutu.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINSKA-SZUREK, Emilia

Modification of hinge locks for children's dental plates. Czas. stomat. 18 no.5:611-614 My'65.

1. Z Poradni Ortodontycznej Przychodni Obwodowej w Chrzanowie (Kierownik: dr. E. Lusinska-Szurek) i z Zakladu Ortodoncji Akademii Medycznej w Krakowie (Kierownik: prof. dr. K. Dominik).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINYAN, G.; KHACHATRYAN, TS.

Reducing the volume of baring operations and increasing the profitableness of strip mines of the Agarak and Kazhdaran Copper-Molybdenum Combines. Prom.Arm. 4 no.2:13-16 F '61. (MIRA 14:6)

1. Armgiprotsvetmet.
(Agarak—Strip mining)
(Kadzharan—Strip mining)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINYAN, G.

Efficient distribution of baring work. Prom. Arm. 6 no.6: 20-22 Je '63. (MIRA 16:8)

1. Armgiprotsvetmet.
(Kadezharan—Copper mines and mining)
(Kadezharan—Molybdenum ores)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINYAN, G.; KHACHATRYAN, TS.

Discussing A.A. Akopov and B. Shakhnazarian's article "Efficacity of combining the development of Karmrashen volcanic slag deposit with the construction of the reservoir at the run-off of Mastara flood waters. Prom.Arm. 5 no.9:12-13 S '62. (MIRA 15:9)
(Talin District—Reservoirs) (Karmrashen region—Slag)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINYAN, G.; POGOSYAN, Ye.

Ways of reducing ore production costs in the Kafan Copper Ore Combine. Prom.Arm 5 no.9:16-18 S '62. (MIRA 15:9)

1. Armgiprotsvetmet.
(Kafan region--Copper mines and mining)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINYAN, G.

Change the method of stripping the Zod deposit. Prom.Arm. 5 no.11:14-15 N '62. (MIRA 15:12)

1. Armgiprotsvetmet.
(Basargechar District—Ore deposits)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSINYAN, G.

Solve the problem of the distribution of terraces in Kadzharan openworks. Prom. Arm. 6 no.11:16-18 N '63. (MIRA 17:1)

1. Armyanskiy gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSIS, A.

Why is a high honey yield always obtained on the Spilve Collective Farm?

P. 23 (PADOMJU LATVIJAS KOLCHOZNIEKS) Riga, Latvia Vol. 9, No. 7, July 1957

SO: Monthly Index of East European Acessions (AMEI) Vol. 6, No. 11 November 1957.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSIS, A. YA.

Uravniniye fredgol'ma (na latv. yaz). Riga, Trudy Latv. U-TA, 18(1928) 549-567.
Sur l'equation de fr dholm a noyau symetrique r el. Riga, trudy Latv. un-ta, matem. (1), 1(1930), 1-26.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich A. I.
Rashevskiy, P. K.
Moscow-Leningrad

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

1. LUSIS, A. Ya.

2. USSR (600)

4. Mathematicians - Latvia

7. Works of mathematicians of Soviet Latvia during the past ten years. Latv.PSR Zin. Akad.Vestis no. 11, 1950.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

L 20762-65 EEC(b)-2/EWT(1)/EWT(m) DIAAP/IJP(c)/BSD/SSD/AFWL/AEDC(b)/AS(mp)-2/
ACCESSION NR: AT5000395 AFMD(c)/ESD(t) S/3119/64/000/001/0003/0013

AUTHOR: Shvarts, K.K., Lusis, D.Yu., Ekman, Yu.A.

B+1

TITLE: Study of the radioluminescence of alkali halide crystals in the horizontal channel of a reactor.

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 1, 1964. Ionny*ye kristally* (Ionic crystals), 3-13

TOPIC TAGS: alkali halide crystal, radioluminescence, nuclear reactor, neutron bombardment, thermoluminescence, thallium activator

19

ABSTRACT: The purpose of this work was to study the intensity of radioluminescence, the kinetics of the flare-up of radioluminescence, and the thermoluminescence of the crystals KCl-Tl, KBr-Tl, KI-Tl, and CsI-Tl in the range 300-600K excited by radiation from the horizontal channel of an IRT reactor. The x-ray luminescence of these crystals was also investigated. The flux used at the exit of the channel was 6×10^8 n/cm^2 · sec. for thermal neutrons, 10,000 rad/hr. for fast neutrons, and 7800 rad/hr. for gamma rays. The thermal capacity of the reactor was 1500 kW. It was found that the contribution of thermal neutrons to the radioluminescence was negligible, and that the luminescence intensity was

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ACCESSION NR: AT5000395

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proportional to the total dose of fast neutrons and gamma rays. Radioluminescence and thermoluminescence differed only slightly at temperatures above room temperature, and hence the processes of energy transfer from the base substance (alkali halide) to the activator (thallium) also differed slightly under the excitation conditions studied. Orig. art. has: 10 figures.

ASSOCIATION: Institut fiziki AN Lat.SSR (Physics Institute, AN Lat.SSR)

SUBMITTED: 18Mar64 ENCL: 00 SUB CODE: NP, OP

NO REF SOV: 013 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSIS, E. YA., VATSIETE, L. E., and KUZNETSOV, S. S. (veterinary doctors)

"Working Experience of the Veterinary Laboratory of the Latvian Republic".
Veterinariya vol. 38, no. 11, November 1961, p. 14

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

KUZNETSOV, S.S., veterinarnyy vrach; LUSIS, E. Ya, veterinarnyy vrach;
VATSIYETE, L.E. [Vaciete, L.], veterinarnyy vrach

Work practices of the Latvian Republic Veterinary Laboratory.
Veterinariia 38 no.11:14-18 N '61 (MIRA 18:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSIS, Juris; SLEDE, Egons; GAILIS, K., kand. tekhn. nauk, retsenzent; SILINS, L., prepodavatel', retsenzent; VULFSONE, E., red.; SPORANE, V., tekhn. red.

[Statics of structures] Buvstatika. Riga, Latvijas Valsts izdevnieciba, 1961. 346 p. (MIRA 15:2)
(Structures, Theory of) (Statics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

RUPAYS, Amand Arvidovich; LUSIS, Ya.Ya.[Lusis, J.], prof., retsenzent; TSINOVSKIY, Ya.P., retsenzent; SHKLENNIK, Ch., red.; LEMBERG, A., tekhn. red.

[Dendrophilous plant lice in the parks of Latvia] Dendrofil'nye tli v parkakh Latvii. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1961. 251 p. (MIRA 15:2)

1. Latviyskiy gosudarstvennyy universitet (for Lusis). 2. Zaveduyushchiy sektorom zoologii i parazitologii Instituta biologii Akademii nauk Latviyskoy SSR (for TSinovskiy).
(Latvia--Plant lice)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSIS, Ya.Ya. [Lusis, J.], prof., otv. red.

[Abstracts of reports of the Baltic Conference on Ornithology] Tezisy dokladov Pribaltiiskoi ornitologicheskoi konferentsii, 4th, 1960. Riga, Izd-vo Akad.nauk Latviiskoi SSR, 1960. 114 p. (MIRA 15:1)

1. Pribaltiyskaya ornitologicheskaya konferentsiya, 4th, 1960.
2. Chlen-korrespondent AN Latviyskoy SSR (for Lusis).
(Baltic States—Ornithology—Congresses)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SPURIS, Z.D., otv. red.; VILKA, Ye.K.[Vilka, E.], red.; LUSIS, Ya.Ya. [Lusis, J.], red.; TAURIN'SH, E.Ya.[Taurins, E.], red.; BAZHANOVA, S., red.; PILADZE, Ye.[Piladze, E.], tekhn. red.

[Ecology and migrations of birds in the Baltic; transactions] Ekologiia i migratsii ptits Pribaltiki; trudy. Red.koll.: E.K.Vilka i dr. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1961. 367 p. (MIRA 15:3)

1. Pribaltiyskaya ornitologicheskaya konferentsiya. 4th, Riga. 1960. 2. Institut biologii AN Latviyskoy SSR (for Vilka, Spuris). 3. Latviyskaya sel'skokhozyaystvennaya akademiya (for Taurin'sh). (Baltic States--Birds)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

TSINOVSKIY, Ya.P., doktor biol. nauk, otv. red.; LUSIS, Ya.Ya. [Lusis, J.], prof., red.; RUPAYS, A.A.[Rupais, A.], kand. sel'khoz. nauk, red.; SHUL'TS, I., red.

[Fauna of the Latvian S.S.R. and adjacent territories] Fauna Latviiskoi SSR i sopredel'nykh territorii. Riga, Izd-vo AN Latviiskoi SSR. Vol.4. 1964. 332 p. (MIRA 18:2)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu Akademija. Biologijas instituts. 2. Chlen-korrespondent AN Latviyskoy SSR (for Lusis). 3. Institut biologii AN Latviyskoy SSR (for TSinovskiy). 4. Botanicheskiy sad AN Latviyskoy SSR (for Rupays).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSK, Karel.

27

3

Direct determination of cyanides in zinc plating baths. Karel Lusk and Bohuslav Hotenda (Tesla, Pardubice, Czech.). Chem. listy 52, 1829(1958).—CN^- in plating baths was detd. by titration with $NiSO_4$ by using paper impregnated with 0.5% alc. soln. of rubeanic acid (I) as indicator. Add 10 ml. NH_4OH (1:1) to a 1-ml. bath sample, dil. with 50 ml. water, and titrate with a soln. of $NiSO_4$ until a red-brown contour surrounds the stain on the paper soaked with I.

M. Hudlicky

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

GAZAREK, F.; LUSKAC, E.; HAJDUK, Fr.

Measures for the control of nosocomial infections in obstetrics. Cesk. gyn. 26[40] no.4:305-311 '61.

1. Gyn. por. odd. OUNZ Sumperk, predn MUDr. Fr. Gazarek, zasloužily lekar CSSR.

(HOSPITALS) (STAPHYLOCOCCAL INFECTIONS prev & control) (OBSTETRICS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKAC, EMIL

Luskac Emil

SURNAME, Given Names

(9)

Country: Czechoslovakia

Academic Degrees:

Affiliation:

Source: Prague, Prakticky Lekar, Vol 41, No 11, 1961, pp 499-505.

Data: "Prevention in the Staphylococcal Infections in Maternity and Infant Departments."

Authors: GAZAREK, Frantisek, MD, Director of the Obstetrical and Gynecological Department OUNZ /Okresni ustav narodniho zdravi; Okres Institute of Public Health/ (Porodnicko-gynekologicke oddeleni OUNZ), Sumperk.

Luskac, Emil, MD, /presumably/ Epidemiological Department of the Ministry of Health (Oddeleni epidemiologie Ministerstva zdravotnictvi), Prague.

HAJDUK, Frantisek, MD, /presumably/ Epidemilogical Department of the Ministry of Health, Prague.

SMEKAL, M., RNDr, KHES /Krajska hygienicko-epidemiologicka stanice; Kraj Public Health and Epidemiology Station/, Olomouc

VAREKA, RNDR, OHES /Okresni hygienicko-epidemiologicka stanice; Okres Public Health and Epidemiology Station/, Sumperk.

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

PROCESSES AND PROPERTIES INDEX

Determination of the feeding value of meadow hay and aftermath based on botanical and chemical analysis. A. ZAITSCHEK AND B. LCSEK. *Kisérletügyi Közlemények* 32, 461-91(1929).—Feeding values of a no. of grasses for various animals are discussed. The digestibility of fiber-free org. matter of hay by horses is 5-13% lower than in the case of ruminants. The N-free extractives, crude fiber and fat were less easily, and the protein more easily, utilized by horses than by ruminants. The amide content of hay is not characteristic of its quality, but depends on the period of cutting. B. C. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

The nutritive value of leaves and stem of Jerusalem artichoke. Bella Laske. *Kísérletügyi Közlemények* 37, 57-62(1934).—Jerusalem artichoke cut before ripening of its tubers yields a very good hay. A hay sample cut in June contained 16% H_2O and 1.07% digestible protein. Its fodder value was 45.6 (starch value). Yield of tubers is, however, much lowered by such early cutting. Leafy stems cut in December after full ripening of tubers contained 50.59% H_2O and 0.36% digestible protein, and had a starch value of 19.8. Most of the carbohydrates are found in the stems rather than in the leaves. N compds. occur chiefly in the leaves. Total water-sol. carbohydrate was in the June plants 36.02% (as invert sugar) against 20.95% in the December plants. Contents of direct reducing sugars were 7.57 and 14.50, resp., inulin 13.90 and 1.98%, sucrose 14.95 and 12.50% and pentosans 7.64 and 10.12%. S. S. de Finály

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Ca

12

Nutrient values of hay and its aftermath Bella Luske. *Mezögazdasági Kutatások* 13, 89-97(1940). Seven samples of hays and their aftermaths from southern Hungary were investigated. Calcd. to 10% moisture content they contained, resp., org. substance 77.14, 77.82%; crude protein 8.84, 9.70; pure protein 7.60, 8.98; crude fat 2.30, 2.16; crude fiber 21.51, 27.21; N-free ext. 44.47, 38.66; and ash 6.86, 6.17. In expts. on sheep the digestibility of aftermath was 60.0-91.2% of that of the hay.

S. S. de Fundy

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

Investigation of the feed value of extracted sunflower meal grits. Bella Lüske (Hungarian Chem. Inst. and Central Expt. Sta., Budapest, Hungary). *Kísérletügyi Közlemények* 46, 39-45(1943).—About 20 samples were investigated. The min. and max. values obtained calcd. from substance contg. 11% moisture were: ash 4.3-8.8, org. matter 80.1-84.7, crude protein 17.6-50.2, pure protein 16.9-45.9, crude fat 0.7-4.8, and crude fiber 8.0-37.7%. The approx. content might preferably be estd. on the basis of crude protein and fat content. Grits contg. 40.4% crude protein show 34.6% digestible protein and 52.1% starch value, grits contg. 31.5 crude protein show 28.4 and 45.0, and grits contg. 23.5% crude protein 16.8 and 30%, resp. The following method for estn. is proposed. Only the content of crude protein must be detd. If this is above 31.5%, then the difference must be multiplied by 0.8 and the result added to 45.0 (starch value of grits of 31.5% crude protein content) to obtain the starch value of the investigated grits. If the crude protein content is below 31.5, then the difference must be multiplied by 1.8 and the result subtracted from 45.0 to obtain the approx. starch value of grits. All samples were of Hungarian origin. István Finály

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKE, B.

Luske, B.; Dorner, L. "Ensilage Made of Leached Sugar Beets from the Sugar Factory" p. 300 (Agrartudomany, Vol. 5, No. 10, October, 1953, Budapest)

SO: Monthly List of ~~Russian~~ East European Accessions, Library of Congress, March ~~1953~~ 1954, Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

ARSHINTSEV, L.I., inzh.; LUSKIN, A.S., inzh.

PB-3 tractor tracklayer. Transp.stroi. 15 no.10:27-29 O '65.
(MIRA 18:12)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

ARSHINTSEV, L.I., inzh.; LUSKIN, A.S., inzh.

Practices in operating the PB-2 and PB-3 tracklayers.
Transp. stroi. 16 no.1:25-27 Ja '66.
(MIRA 19:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SAVINOV, O. A., LUSKIN, A. YA. (Eng.)

Pile Driving

Present and foreseeable development of the vibration method of sinking piles. Mekh. Stroi. 9 no. 5, 1952

Monthly List of Russian Accessions, Library of Congress August 1952. Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKIN, A. YA.

PA 243T34

USSR/Engineering - Construction. Equipment 15 Aug 52

"Vibration Pile Drivers With a Sprung Additional Load," O. A. Savinov, Cand Tech Sci, and A Ya. Luskin, Engr VNIIGS Minmashstroy

"Byul Stroit Tekh" No 15, pp 24-26

Describes new improved pile driver, consisting of two major parts, vibrator and additional load interconnected by spring device. Design permits increase in driving force without reduction of vibration intensity. States advantages of new design, namely, possibility of installing electric motor on additional load, resulting in

243T34

improving its performance, since this load is not subjected to vibrations; use of electric motors with phase rotors which have optimum starting quality; elimination of shock-absorbing device for operation of extracting piles. There are 2 types of pile driver: VPP-1, designated for sinking pipes used in building concrete or sand piles, and VPP-2, for sinking and extracting sheet piles. Tests showed that driver sinks pipes and piles up to 325 mm in dia to depth not less than 16 m with speed in 1-6 m/min range.

243T34

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SAVINOV, O.A., kandidat tekhnicheskikh nauk; LUSKIN, A.Ya., inzhener.

The new model pile driver VPP-2. Biul.stroi.tekh. 10 no.3:21-22 F '53. (MLRA 6:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti Minmashstroya. (Pile driving)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SAVINOV, O.A., kandidat tekhnicheskikh nauk; LUSKIN, A.Ya., inzhener; TSEITLIN, M.G.

The VPM-1 universal small vibration borer. Biul.stroi.tekh. 10 no.10:9-10 My '53. (MLRA 6:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti. (Boring machinery)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SAVINOV, O.A., kandidat tekhnicheskikh nauk; LUSKIN, A.Ya., inzhener; PAZHI, V.M., inzhener; TSEYTLIN, M.G., inzhener; SHEYKOV, M.L., inzhener.

Exploratory percussion drilling (for discussion). Stroi.prom. 31 no.10:8-11 O '53. (MLRA 6:11)
(Boring)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SAVINOV, O.A.; LUSKIN, A.Ya.; TSEYTLIN, M.G.; PLEKHANOVA, S.V.; KAPLAN, M.Ya., redaktor; POL'KINA, Ye.A., tekhnicheskiy redaktor.

[Vibration pile driver with spring-suspended pile cap]Svainye vibropogruzhateli s podressorennoi prigruzkoi. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhit., 1954. 126 p. (MLRA 8:9)
(Pile driving)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

BARKAN, D.D.; TIKUNOV, P.R.; SHEKHTER, O.Ya.; PREOBRAZHENSKAYA, N.A.; SAVINOV, O.A.; LUSKIN, A.Ya.; GREBENNIK, A.A.; MERZLYAK, TS.N.; ALEKSANDROV, M.A.; TSAPLIN, S.A.; PAVLOVA, A.B.; DITRIKH, Yu.V.; KHAVIN, B.N., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Instructions for driving and extracting steel pile planks using SN 59-59 vibrators] Instruktsiia po pogruzheniiu i izvlecheniiu stal'nogo shpunta vibropogruzhateliami SN 59-59. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 46 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Nauchno-issledovatel'skiy institut osnovaniy i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury SSSR (for Barkan, Tikunov, Shekhter, Preobrazhenskaya). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (VNIIGS) (for Savinov, Luskin). 4. Fundamentproyekt (for Grebennik, Merzlyak). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut stroitel'nogo i dorozhnogo mashinostroyeniya (VNIIStroydormash) (for TSaplin). 6. Gidroproyekt (for Pavlova). 7. Gidrospetsfundamentstroy (for Ditrikh).
(Vibrators) (Piling (Civil engineering))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKIN, A.Ya., inzh.

Using vibration piercing in the trenchless laying of pipes. Nov.tekh.mont.i spets.rab.v stroi. 21 no.12:26-28 D '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot Ministerstva stroitel'stva RSFSR.
(Pipelines)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

SAVINOV, O.A.; doktor tekhn.nauk; LUSKIN, A.Ya., inzh.; BARKAN, D.D., prof., doktor tekhn.nauk, nauchnyy red.; KAPLAN, M.Ya., red. izd-va; PROKOF'YEV, R.V., tekhn.red.; VORONETSKAYA, L.V., tekhn.red.

[Vibration method of pile driving and its use in construction] Vibratsionnyi metod pogruzheniia svai i ego primenenie v stroitel'stve. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 250 p. (MIRA 13:5)
(Vibrators) (Piling (Civil engineering))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKIN, Z.D., inzhener.

Calculating and distributing the expenditures and losses of the national economy in creating water reservoirs for hydroelectric power stations. Gidr.stroi.25 no.6:23-26 Jl '56. (MLRA 9:9) (Hydroelectric power stations) (Reservoirs)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKINA, B.M., Cand Chem Sci -- (diss) "Elementary organic analysis by the method of wet combustion." Mos, 1959, 15 pp with illustrations (Mos Order of Lenin and Order of Labor Red Banner State Univ im M.V. Lomonosov) 150 copies (KL, 35-59,112)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKINA, B.M.

S.V. Syavtsillo, Ye.A. Bondarevskaya, A.P. Kreshkov, B.M. Luskina, A.P. Terent'yev, V.T. Shemyatenkova, and L.M. Shtifman, "The Analysis Methods of Monomer and Polymer Compounds."

Report presented at the Second All-Union Conference on the Chemistry and Practical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1958.
Zhurnal prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

5(3)

AUTHORS: Terent'yev, A. P., Luskina, B. M. SOV/75-14-1-23/32

TITLE: Organic Elementary Analysis by the Method of "Wet Combustion" (Elementarno-organicheskiy analiz metodom "mokrogo sozhzheniya")

PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 1, pp 112-117 (USSR)

ABSTRACT: In the present paper the method of "wet combustion" for the simultaneous determination of carbon, halogens, and nitrogen in organic substances is employed. The weighed-in portion of the substance is burned by wet combustion at 150 - 160° with a mixture of concentrated sulfuric acid and a concentrated aqueous solution of chromic acid. The duration of combustion does not exceed 30 minutes. The gaseous oxidation products formed are led by means of an oxygen current through a quartz tube heated to a temperature of 700 - 750° and charged with a catalyst (chromous oxide on pumice stone). Carbon is oxidized to CO_2, which is adsorbed on ascarite and weighed out. The halogens are isolated in the elementary state or in form of hydrogen halides. They are absorbed in an acetic acid solution of hydrazine hydrate (p_H 6) and are argentometrically

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

Organic Elementary Analysis by the Method of "Wet Combustion" SOV/75-14-1-23/32

titrated according to Volhard. Nitrogen is determined after combustion as ammonia from an alkaline solution. Together with carbon, halogens and nitrogen, also iron, copper, silicon, and other elements can be determined which are turned into salts by oxidation and are left over in the sulfuric acid solution. The method worked out in this paper is of interest especially for industrial laboratories. It is possible to analyze not only dry substances but also solutions of organic compounds in water or sulfuric acid. An apparatus suited for carrying out determination is illustrated and described. Determination itself is also described in detail. The results obtained by a number of determinations carried out by this method are given. Accuracy is satisfactory. Also silicon-organic substances can be analyzed in this manner. There are 1 figure, 6 tables, and 7 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: May 17, 1957

Card 2/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

5(2)

AUTHORS: Terent'yev, A. P., Luskina, B. M., Syavtsillo, S. V.

SOV/32-25-3-10/62

TITLE: Analysis of Used up Copper-silicon Alloys (Analiz otrabotannykh kremnemednykh splavov)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, pp 288 - 289 (USSR)

ABSTRACT: The Cu/Si alloys used according to the synthesis of alkyl- and arylchlorosilanes (up to 20% Cu and 80% Si) consist, after being used up, of free silicon, metallic Cu, and admixtures of carbon and metal chlorides (Ref 1). The determination of C, Cl, Si, Cu, and Fe (from a weighed portion) according to the method of "wet" burning is described. The weighed portion is heated in the oxygen current with concentrated sulphuric acid and chromium oxide. The oxidation products enter a quartz tube heated to 700-750°, filled with chromium oxide where a complete decomposition takes place. The chlorine and hydrogen chloride synthesized is absorbed in the hydrazine hydrate. The metals remain in the reaction flask as sulphates. Si, SiO_2, and SiC

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do not dissolve and can be weighed together. Copper is separated from iron by use of sodium sulphide and iodometrically titrated. The remaining iron may be titrated as Fe(II) with potassium bichromate in the presence of diphenylamines. A precise course and the results of analysis (Table) are mentioned. Duration: 2.5 - 3 hours. There are 1 figure, 1 table, and 2 Soviet references.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

S/191/60/000/005/018/020
B004/B064

AUTHORS: Terent'yev, A. P., Luskina, B. M., Syavtsillo, S. V.

TITLE: Determination of the Carbon Content in Silicon - Copper Melts

PERIODICAL: Plasticheskiye massy, 1960, No. 5, pp. 65-66

TEXT: This paper describes a method of determining the carbon content in silicon - copper melts, used for the synthesis of alkyl- and aryl chloro silanes. After synthesis the melts contain up to 20% C. This carbon content is characteristic of the degree of exploitation of the melt. The following data are given for its determination: weighed portion of the melt 0.1 - 1.5 g, addition of 10 ml of concentrated H_2SO_4 free from organic impurities, addition of 2 - 3 ml of chromic acid, and heating to 150 - 160°C in pure oxygen current (50 - 60 ml/min). The oxidation products are heated in a porcelain tube containing chromium oxide on pumice to 700 - 750°C, and subsequently passed through different solutions to absorb their components: hydrazine hydrate brought to pH = 6 with acetic acid (absorption

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

Determination of the Carbon Content in Silicon - Copper Melts

S/191/60/000/005/018/020
B004/B064

of chlorine compounds), concentrated sulfuric acid (absorption of water), and a tube filled with Anhydrone and Ascarite, in which CO_2 is adsorbed. The analysis takes 30 minutes. N. G. Korovina made a comparison with other methods of analysis, and obtained good agreement. There are 1 figure, 2 tables, and 4 references: 3 Soviet and 1 British.

Card 2/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

S/075/61/016/001/015/019
B013/B055

AUTHORS: Terent'yev, A. P., Syavtsillo, S. V., and Luskina, B. M.

TITLE: Organic Elemental Analysis by the Wet Ashing Method. Report II. Rapid Determination of Silicon in Organic Silicon Compounds

PERIODICAL: Zhurnal analiticheskoy khimii, 1961, Vol. 16, No. 1, pp. 83-86

TEXT: In the present work, a rapid method for determining silicon in organic silicon compounds was developed. It is based on the previously (Ref. 1) used method of ashing organic or elemental-organic compounds by oxidation with a chromic-acid/sulfuric-acid mixture at 150°-160°C. The silicic acid residue is filtered off (Ref. 3), dissolved in concentrated alkali solution and finally analyzed for silicon by titration according to Šir and Komers (Ref. 5). The determination requires 1.5 h. In analysis of ethoxy- or chloro silanes (containing no radicals) heating with the acid mixture is unnecessary, since these compounds readily hydrolize in aqueous alkali with formation of sodium silicate, which simplifies the

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

Organic Elemental Analysis by the Wet Ashing Method. Report II. Rapid Determination of Silicon in Organic Silicon Compounds

S/075/61/016/001/015/019
B013/B055

procedure and reduces the time for one determination to 30 min. The method was tested with a number of pure organosilicon compounds (Table 1) and used for the determination of silicon in industrial ethyl polysiloxanes. The analytical results are in good agreement (Table 2) with the data obtained by the conventional method (Ref. 4). Examples of silicon determination without previous oxidation are listed in Table 3. In this case, the weighed samples were hydrolized with a 15% sodium hydroxide solution in a polyethylene vessel. In this type of compound, silicon and the hydrogen bound to silicon can be determined simultaneously in the same weighed sample (Ref. 7). The analyses were carried out by L. M. Kharchevnikova. A. P. Kreshkov and G. D. Nessonova are mentioned. There are 3 tables and 7 references: 6 Soviet and 1 Czechoslovakian.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: March 4, 1960

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

TERENT'YEV, A.P.; LUSKINA, B.M.

Heteroorganic analysis by the "wet combustion" method. Report No.3: Determination of carbon and nitrogen in nitro compounds from a single sample. Zhur. anal. khim. 16 no. 4:462-464 Jl-Ag '61. (MIRA 14:7)

1. M.V. Lomonosov Moscow State University.
(Carbon—Analysis) (Nitrogen—Analysis) (Nitro compounds)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

TERENT'YEV, A.P.; LUSKINA, B.M.; SYAVTSILLO, S.V.; Prinimala uchastiye: KARABASHKINA, L.N.

Elemental organic analysis by the "wet combustion" method. Report No. 4: Determination of carbon, silicon, and aluminum in organoaluminosiloxane polymers. Zhur.anal.khim. 16 no.5:635-638 S-O '61. (MIRA 14:9)

1. Lomonosov Moscow State University.
(Silicon organic compounds)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2

LUSKINA, B.M.; SYAVTSILLO, S.V.; TERENT'YEV, A.P.; TURKEL'TAUB, N.M.

Microdetermination of carbon and hydrogen in organic compounds by gas chromatography. Dokl. AN SSSR 141 no.4:869-871 D '61. (MIRA 14:11)

1. Chlen-korrespondent AN SSSR (for Terent'yev).
(Carbon--Analysis) (Hydrogen--Analysis)
(Gas chromatography)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001030920013-2"