"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

S/081/61/000/021/089/094
B107/B147

Further investigation of methodic ...

The asymmetry of the deformation cycle showed a considerable effect on the working capacity of rubber. The authors describe a method and device for testing rubber for fatigue with symmetrical shearing by producing torsional vibrations of the dumbbell sample. The curves for the fatigue strength as a function of the amplitude of dynamic deformation of shearing for NK and SKB rubber are intersecting. It is recommended to examine the fatigue properties of rubber with deformation amplitudes characteristic of the work of the material in the workpiece. The interaction of rubber with the medium, the appearance of local stress concentrations on the sample surface, and the asymmetry of the deformation cycle should be taken into account. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ARTEMIEVSKII, P. P.

Mechanics, Celestial

Computation of higher derivatives of compound functions with one intermediate variable., Trudy GAISh, 15, no. 2, 1950.

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

1. REZNIKOVSKIY, P. T.

2. USSR (600)

4. Least Squares

7. Solving normal equations in the method of least squares by successive elimination of unknowns. Soob. GAISH, No. 54, 1950.

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

1. REZNIKOVSKIY, P. T.

2. USSR (600)

4. Least Squares

7. One variant in the method of least squares for solving a system of normal equations. Soob. GAISH, No. 54, 1950.

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

[illegible], P. T.

"Analytic Theory of Perpetual and Long Periodic Perturbations in the Movement of Mercury." [illegible] Dec 51, Moscow Order of Lenin State [illegible] M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: [illegible] No. [illegible], [illegible] May [illegible].

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNIKOVSKIY, P. T.

Defended his Candidates dissertation in the Mechanics and Mathematics Faculty of Moscow State University on 7 May 1952.

Dissertation: "The Analytical Theory of Secular Long-Period Perturbations in the Motion of Mercury."

SO: Vestnik Moskovskogo Universiteta, Seriya Fiziko-Matematicheskikh i Yestestvennykh Nauk, No. 1, Moscow, Feb 1953, pp 151-157: transl. in [redacted]M-29782, 12 April 54, For off. use only.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNIKOVSKIY, P.T.

Gravitation interpretation of an internal variant of a once-regularized restricted elliptical problem of three points. Trudy GAISH 21:57-90 '52. (MLRA 7:6)

(Problem of three bodies)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNIKOVSKIY, P.T.

Resolution of the perturbation function of an internal variant of a once-regularized planar restricted circular problem of three points in Lagrangian elements. Trudy GAISH 21:91-114 '52. (MLRA 7:6)
(Problem of three bodies)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

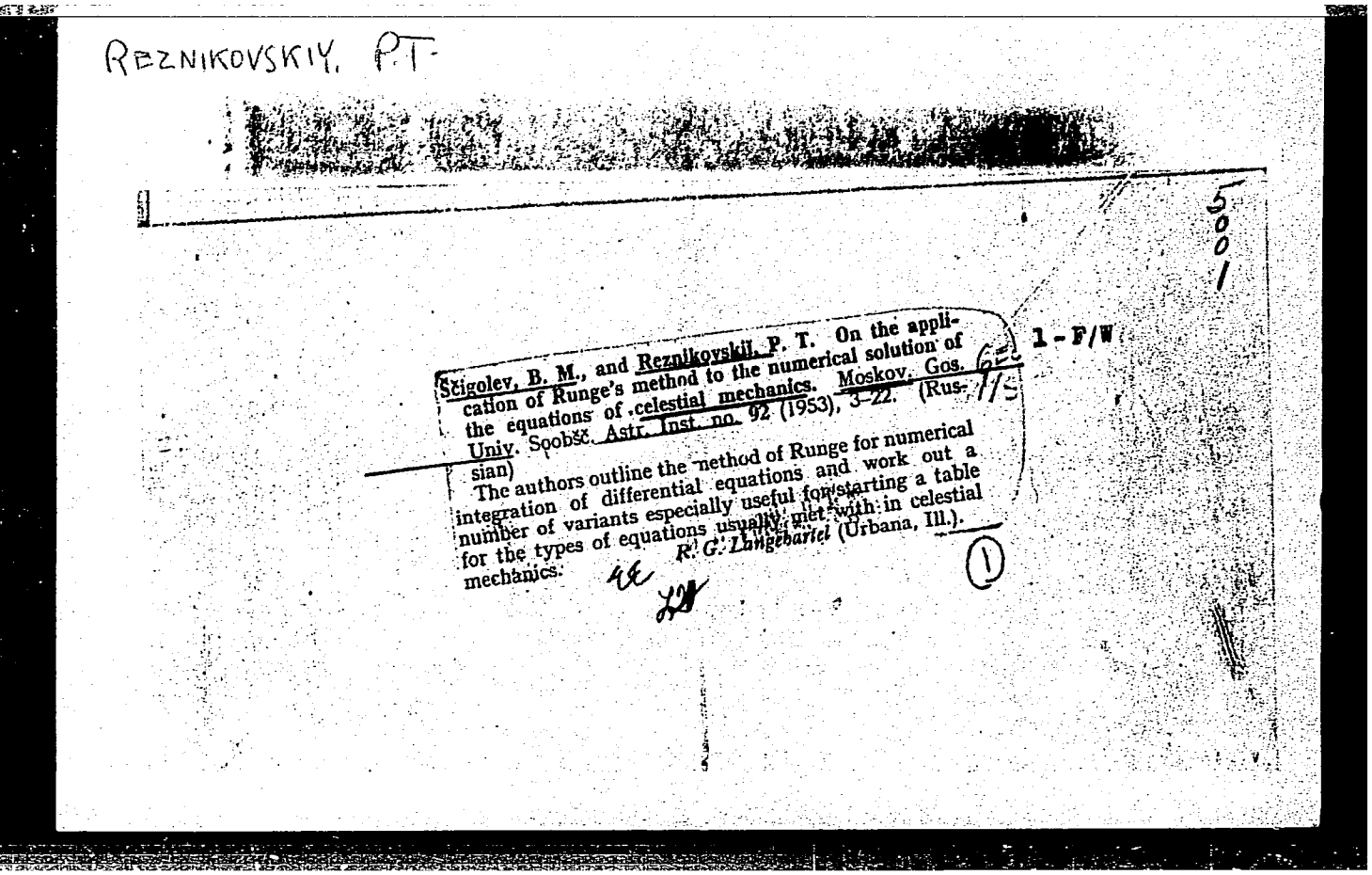
"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNIKOVSKIY, P.T.

Resolving the perturbation functions of the simplest regularized variants of a planar restricted elliptical problem of three points. Trudy GAISH 21:159-173 '52. (MLRA 7:6)
(Problem of three bodies)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4



REZNIKOVSKIY, P.T.

501

Sigolev, B. M., and Reznikovskiĭ, P. T. On the application of Runge's method to the numerical solution of the equations of celestial mechanics. Moskov. Gos. Univ. Soobšč. Astr. Inst. no. 92 (1953), 3–22. (Russian)

The authors outline the method of Runge for numerical integration of differential equations and work out a number of variants especially useful for starting a table for the types of equations usually met with in celestial mechanics. *R. G. Langebartel* (Urbana, Ill.).

1-F/W

(1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

BAYEV, K.L.; SHISHAKOV, V.A.; REZNIKOVSKIY, P.T., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor.

[Elements of cosmography] Nachatki mirovedeniia. Izd. 4-e, perer. i dop. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1954. 123 p. (Cosmography) (MIRA 8:4)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

KULIKOV, Konstantin Alekseyevich; REZNIKOVSKIY, P.T., redaktor; SAMSONENKO, L.V., redaktor; AKHLAMOV, S.N., tekhnicheskiy redaktor

[The fundamental constants of astronomy] Fundamental'nye postoiiannye astronomii. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 340 p. (MLRA 9:7)
(Astronomy)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

POPOV, Pavel Ivanovich; REZNIKOVSKIY, P.T., red.; MURASHOVA, N.Ya., tekhn. red.

[Popular manual of practical astronomy] Obshchedostupnaia prakticheskaia astronomiia. Izd. 4, izpr. Moskva, Gos. izd-vo fiziko-matematicheskoi lit-ry, 1958. 159 p. (MIRA 11:6)
(Astronomy, Spherical and practical)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

OGORODNIKOV, Kirill Fedorovich,;REZNIKOVSKIY, P.T.,red.;KRYUCHKOVA, V.N.,tekhn.red.

[Dynamics of stellar systems] Dinamika zvezdnykh sistem. Moskva, Gos. izd-vo fiziko-matematicheskoi lit-ry,1958. 627 p. (MIRA 11:12)
(Stars)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

AUTHOR: ~~Reznikovskiy~~, P.T. SOV/42-13-6-18/33

TITLE: On the Region of Convergence of a Power Series Being the Solution of a Differential Equation (Ob oblasti skhodimosti stepennogo ryada, predstavlyayushchego resheniye differentsial'nogo uravneniya)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 145-150 (USSR)

ABSTRACT: Given the differential equation

(1) $\frac{dx}{dt} = X(x,t,\mu), \qquad X(x,t,0) \equiv 0.$

Let the initial condition be

(2) $x = \alpha$ for $t = t_0$.

(1) is written in the form

(3) $x = \alpha + \int_{t_0}^{t} X(x,t,\mu)dt$

and the solution is set up as

(4) $x = \alpha + x_1\mu + x_2\mu^2 + \ldots .$

Card 1/3 On the interval $|t-t_0| \leq T$ let $\Phi(x,\mu)$ majorize the function

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

$X(x,t,\mu)$; let $\phi(x,0)\equiv 0$. Beside of (3)

(5) $$z = a + T\phi(z,\mu)$$

is considered as a majorizing equation, where $a = |\alpha|$. Then (4) is majorized by the series

(6) $$z = a + z_1\mu + z_2\mu^2 + \ldots,$$

where (6) represents the series expansion of z which is given implicitly by (5). The condition of convergence for (6) is

(7) $$\frac{T\Phi(z,\mu)}{z-a} \leq q < 1,$$

where $\mu > 0$, $z > a$. The investigation of the μ-interval on which (4) converges, is reduced to the investigation of the μ-values for which (7) is satisfied. It is stated that (4) converges uniformly for $|\mu| \leq \bar{\mu}$ and $|t-t_0| \leq \bar{T}$, where $\bar{T}$ is a function of $\bar{\mu}$ which can be given explicitly. By an example it is shown that the proposed method admits a better estimation

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

On the Region of Cenvergence of a Power Series Being the Solution of a Differential Equation SOV/42-13-6-18/33

of the region of convergence than the application of the Cauchy majorant.
There are 7 references, 6 of which are Soviet, and 1 French.

SUBMITTED: May 6, 1957

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNIKOVSKIY, P.T.

Generalized Lagrange's series for the implicit function of several independent variables. Trudy MGRI 36:175-187 '59. (MIRA 15:5)
(Series, Lagrange's) (Functions of several variables)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

SHCHIGOLEV, Boris Mikhaylovich; REZNIKOVSKIY, P.T., red.; GAVRILOV, S.S., tekhn.red.

[Mathematical processing of observation data] Matematicheskaia obrabotka nabliudenii. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 344 p. (MIRA 13:6)
(Mathematics--Problems, exercises, etc.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

KOLYVAGIN, Aleksandr Alekseyevich; LIVSHIN, G.L., retsenzent; REZNIKOVSKIY, P.T., kand. fiz.-mat. nauk, red.; YELISEYV, M.S., red. izd-va; TIKHANOV, A.Ya., tekhn. red.; MODEL', B.I., tekhn. red.

[Automation of computing operations]Avtomatizatsiia vychislitel'nykh rabot. Moskva, Mashgiz, 1962. 502 p. (MIRA 16:1)
(Electronic computers) (Programming (Electronic computers))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

RYABOV, Yuriy Aleksandrovich; REZNIKOVSKIY, P.T., red.; MURASHOVA, N.Ya., tekhn. red.

[Motions of celestial bodies] Dvizheniia nebesnykh tel. Izd.2., dop. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1962. 215 p. (MIRA 15:4)

(Mechanics, Celestial)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

DUBOSHIN, Georgiy Nikolayevich; REZNIKOVSKIY, P.T., red.; PLAKSHE, L.Yu., tekhn. red.

[Celestial mechanics; basic problems and methods] Nebesnaia mekhanika; osnovnye zadachi i metody. Moskva, Fizmatgiz, 1963. 586 p. (MIRA 16:5)

(Mechanics, Celestial)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

GUTER, Rafail Samoylovich; OVCHINSKIY, Boris Vladimirovich; KEZNIKOVSKIY, Pavel Tuv'yevich; SREVKOV, Ye.P., red.; MAKHMUD-ZADE, R.A., red.

[Programming and computer mathematics] Programmirovanie i vychislitel'naia matematika. Moskva, Nauka, 1965. [illegible] p. (MIRA 18:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

DUBOSHIN, Georgiy Nikolayevich; REZNIKOVSKIY, P.T., red.

[Celestial mechanics; analytical and qualitative methods]
Nebesnaia mekhanika; analiticheskie i kachestvennye metody.
Moskva, Izd-vo "Nauka," 1964. 560 p. (MIRA 17:6)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ADEL'SON-VEL'SKIY, G.M.; BRUDNO, A.L.; KRONROD, A.S.; REZNIKOVSKIY, P.T.

System of commands for a three-address machine without address register. Dokl. AN SSSR 154 no. 3:545-548 Ja '64.
(MIRA 17:5)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii, Institut elektronnykh upravlyayushchikh mashin i TSentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ACCESSION NR: AP4013321 S/0020/64/154/003/0545/0548

AUTHORS: Adel'son-Ver'skiy, G.M.; Brudno, A.L.; Kronrod, A.S.; Reznikovskiy, P.T.

TITLE: Instruction code for a three-address machine without an address register

SOURCE: AN. SSSR. Doklady*, v.154, no.3, 1964, 545-548

TOPIC TAGS: instruction code, order code, three address instruction, three address machine, address register, base register, B box, B line, indexing register, computer

ABSTRACT: Complete instructions for setting up an instruction code for a machine with 4096 storage cells containing 43 word columns is given. A complete code table is included. Orig. art. has: 1 table.

ASSOCIATION: Institut teoreticheskoy i ekperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovanyu atomnoy energii (Institute of Theoretical and Experimental Physics of the State Commitee for Use of

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ACCESSION NR: AP4013321

Atomic Energy); Institut elektronnykh upraveyayushchikh mashin (Institute of Electronic Control Machinery); Tsentral'nyy nauchno-issledovatel'skiy institut kompleksnoy automatizatsii (Central Scientific Research Institute for Complex Automation)

SUBMITTED: 08Jul63 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: CG, MM NR REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNIKOVSKIY, P.T. (Moskva); RYBASOV, V.I. (Moskva); CHAYANOV, V.A., (Moskva)

Formulation and solution of a problem on nonlinear mathematical programming. Izv. AN SSSR. Tekh. kib. no.5:121-132 S-O '63. (MIRA 16:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

TSESEVICH, Vladimir Platonovich; REZNIKOVSKIY, P.T., red.;
BRUDNO, K.F., tekhn. red.

[How and what to observe in the sky; handbook for the organization and conducting of amateur scientific observations of heavenly bodies] Chto i kak nabliudat' na nebe; rukovodstvo k organizatsii i provedeniiu liubitel'skikh nauchnykh nabliudenii nebesnykh svetil. Izd.3. Moskva, Fizmatgiz, 1963. 451 p. (MIRA 16:11)
(Astronomy--Observer's manuals)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

GINTSBURG, A.K.; LOKTIN, V.A.; REZNIKOVSKIY, S.L.; ROZOVSKIY, B.G.; SULYUTIN, M.A.; TRAKHOV, A.A.; KIRIYENKO, P.S., red.; KONOVALOVA, Ye.K., tekhn.red.

[Maintenance service for radio stations] Remont radiostantsii. Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 327 p. (MIRA 13:3)
(Radio--Transmitters and transmission)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

PHASE I BOOK EXPLOITATION SOV/3883

Gintsburg, A.K., V.A. Loktin, S.L. Reznikovskiy, B.G. Rozovskiy, M.A. Sulyutin, and A.A. Trakhov

Remont radiostantsiy (Repair of Radio Stations) Moscow, Voyen. Izd-vo M-va obor. SSSR, 1959. 327 p. No. of copies printed not given.

Ed.: P.S. Kiriyenko; Tech. Ed.: Ye.K. Konovalova.

PURPOSE: This textbook is intended for students of communication schools of the Soviet Defense Ministry, and may also be used by Defense Ministry personnel working in army communication repair shops, and by other radio specialists.

COVERAGE: The book deals with radio repair. Detailed information is given on materials and components, testing and repair of components, assembly and disassembly of radio equipment, measurements during testing and repair of radio stations, various methods of radio repair, and repair of power supply sources, transmitters, and receivers. M.A. Sulyutin wrote Ch. I; A.K. Gintsburg wrote Ch. II;

Card 1/11

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

V.A. Loktin wrote Ch. III; B.G. Rozovskiy wrote Ch. IV; S.L. Reznikovskiy wrote Chs. V, VII, VIII, and Section 3 of Ch. VI; and A.A. Trakhov wrote Ch. VI (excepting for Section 3). No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Foreword 3

Ch. I. Radio Engineering Materials 5
1. Materials as basis of construction 5
2. Properties of radio engineering materials 5
Physical properties 5
Thermal properties 6
Electrical properties 6
Chemical properties 8
Mechanical properties 8
3. Mineral base solid insulation 8
4. Glass and oxide insulation 9
5. Ceramic insulation 11
Structural ceramics 12
Condenser ceramics 13
Vacuum ceramics 14

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

SOV/169-59-6-5679

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 6, p 37 (USSR)

AUTHORS: Blat, N.S., Reznikovskiy, Ya.S., Tsirel', V.S.

TITLE: The Problem of Processing Aeromagnetograms and the Ways of Its Solution

PERIODICAL: Tr. Vses. n.-i. in-ta metodiki i tekhn. razvedki, 1958, Nr 1, pp 323 - 333

ABSTRACT: According to this report, VITR developed a technical project of a device for semiautomatic processing of magnetograms of AEM-49 and AM-13 high-precision aeromagnetometers. The ΔT curve and the initial values for introducing the corrections (for drift, temperature, normal gradient) are fed to the input of the device. The device changes the vertical and horizontal scales of the curve, adds the corrections and produces at its output the corrected ΔT_A curve. The device is designed for processing aeromagnetograms of 305 mm width; the vertical scale of the recorded curves may have four different values. The maximum possible change of the field may amount

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

The Problem of Processing Aeromagnetograms and the Ways of Its Solution

to approximately 22,000 γ . Before processing the aeromagnetogram, the following information must be added: the values of the horizontal scale, the guide lines, the coefficient of correction for the horizontal scale and the correction values. The principal and kinematic diagrams and also a general view of the device are shown. Preliminary computations show that the efficiency of processing magnetograms may be increased by five times when using the developed device.

D.V. Korniyets

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

89488

S/022/61/014/001/008/010
B112/B202

26.2312

AUTHOR: Rezikyan, A. M.

TITLE: Ion formation in the cathode region of glow discharge (experimental part)

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, v. 14, no. 1, 1961, 87-96

TEXT: The author studies the origin of the ions migrating to the cathode in anomalous glow discharge in continuation of an earlier paper in which he had demonstrated that the ion formation between cathode drop and cathode can be experimentally determined without using a cathode-drop theory: The following holds for the mean free path $\bar{S}_k$ of the ions between cathode drop and cathode:

$$\bar{S}_k = 0{,}133 \frac{\Delta p}{p} \frac{b_1^+}{j}, \qquad (1)$$

if p is the neutral gas pressure in mm Hg, Δp the pressure difference between cathode and anode in mm Hg, j the discharge current density in ma/cm^2 and b_1^+ the mobility of the positive ions per 1 mm Hg. The mean free path

Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

Ion formation in ...

referred to the cathode-drop width d, quotient $q = \bar{s}_k/d$ is more important than the mean free path. It indicates the place of ion formation, and its dependence on the conditions of glow discharge supplies one of the criteria for the correctness of the cathode-drop theories. The experimental arrangement consisted of a discharge tube with connected diaphragm pressure gauge measuring the pressure difference Δp between cathode and anode. This pressure difference is caused by the ion migration and is in equilibrium with the electric pressure onto the discharge volume. Experiments made on the dependence of the pressure difference Δp on pressure p and the discharge current density j, made in argon, nitrogen, and hydrogen, showed that with solid p, j is proportional to Δp, with solid j, however, Δp is proportional to p for argon, and inversely proportional to p for nitrogen and hydrogen. The author also studied the ion losses caused by boundary effects by varying the diameter of the discharge tube. He discusses the effect of ion losses caused by diffusion to the wall and by recombination. He arrives at the conclusion that already with weakly anomalous glow discharge the major part of the ions migrating to the cathode, was formed in the region of discharge glow whose width l can be theoretically determined. The character

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

Ion formation in ...

of discharge also depends on the type of the gas. There are 4 figures, 5 tables, and 1 Soviet-bloc reference.

ASSOCIATION: Fizicheskiy institut AN Armyanskoy SSR (Physics Institute AS Armyanskaya SSR)

SUBMITTED: September 2, 1959

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

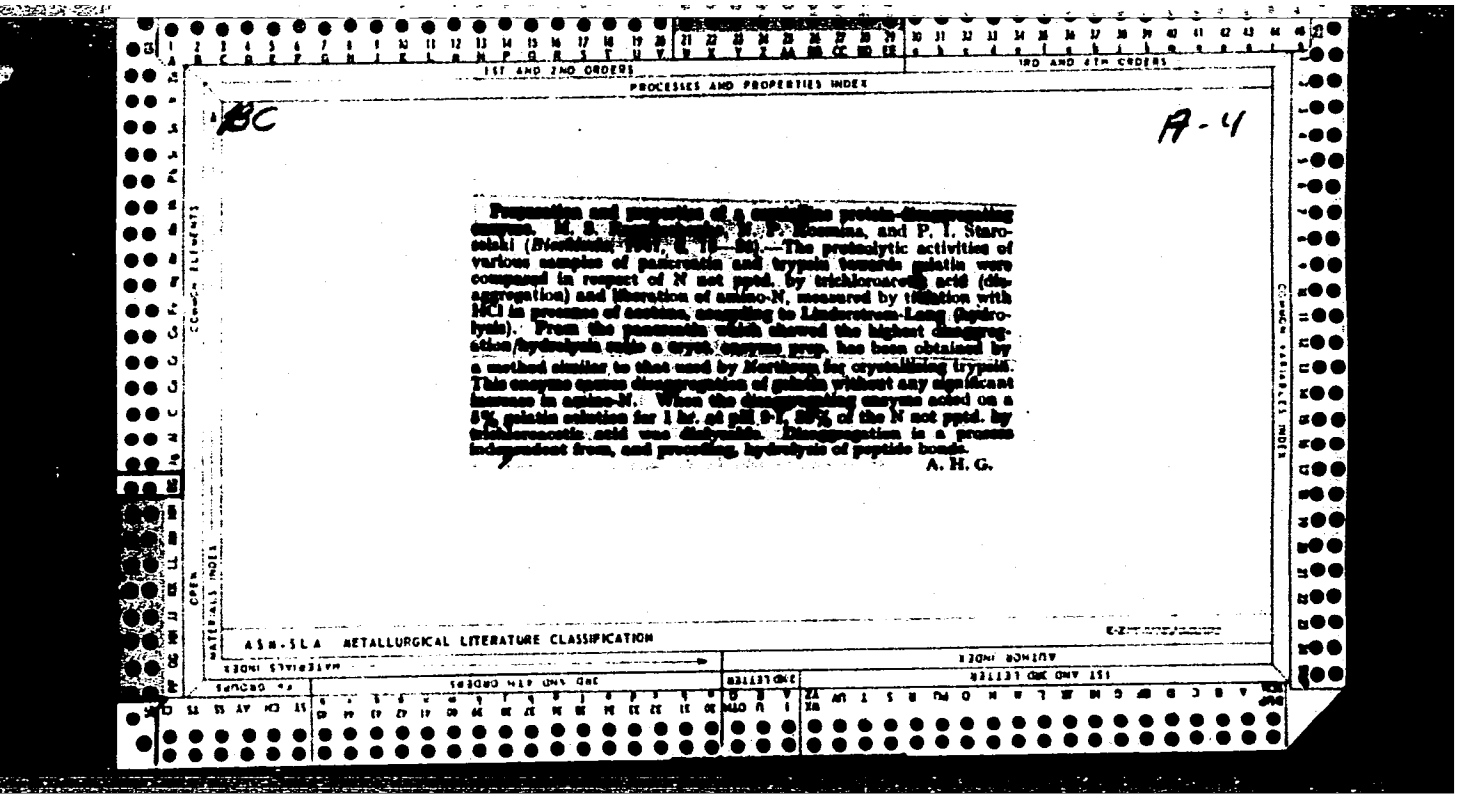
"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ARKINOVA, E. G., LYUBANSKIY, V. A. and REZNISKOVA, L. P.

"Basis for the Separate (Unique) Temperature Regine of the Caspian Sea and its (Surrounding) Area." In book - Works of the State Oceanographic Institute, published by Hydrometeorological Publishing House, Moscow, 1958.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4



1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

A-4

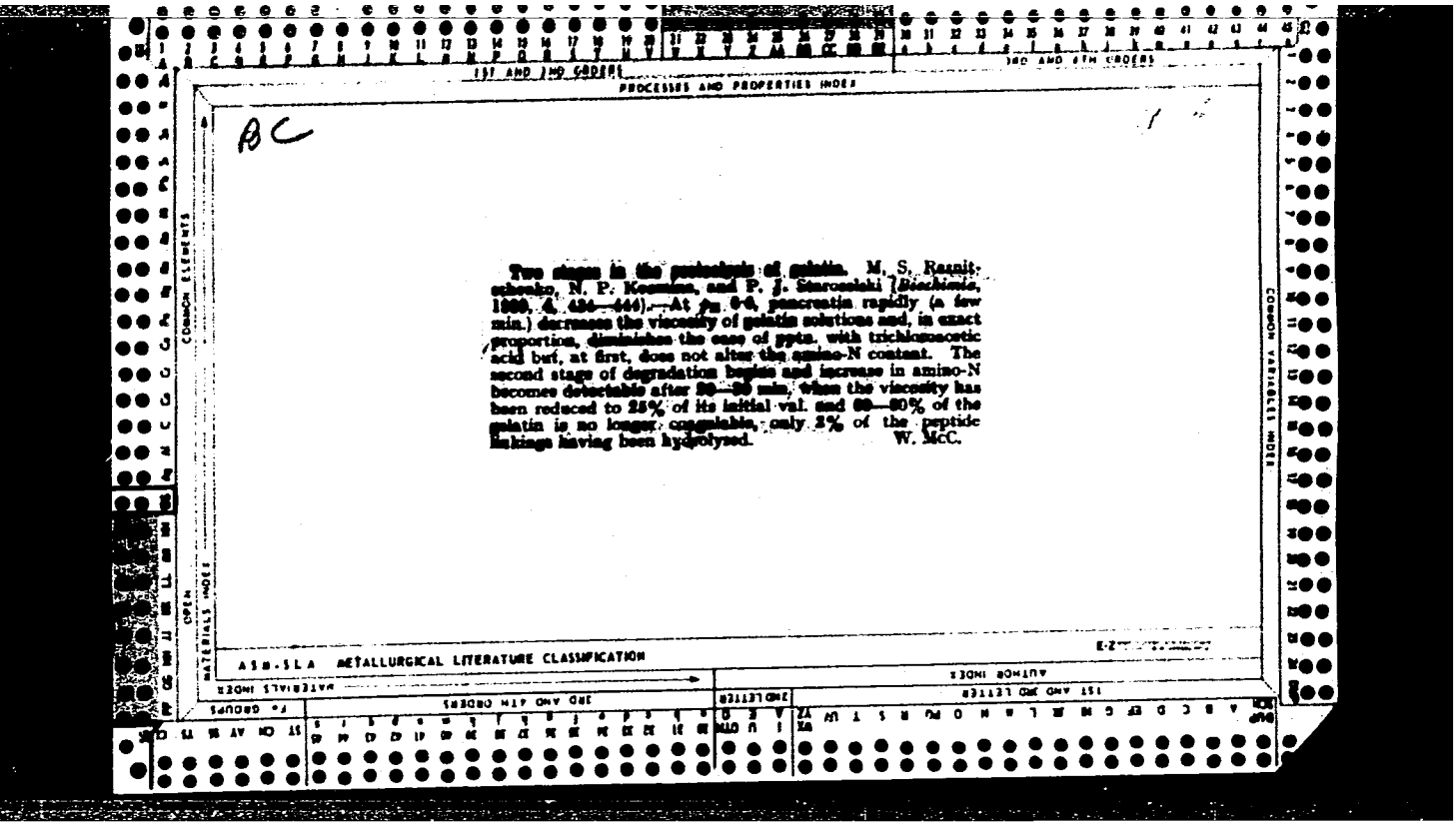
Preparation and properties of a [illegible] protein-disaggregating enzyme. M. S. [illegible], N. P. Kosmina, and P. I. Staroselski (*Biochimia* [illegible]).—The proteolytic activities of various samples of pancreatin and trypsin towards gelatin were compared in respect of N not pptd. by trichloroacetic acid (disaggregation) and liberation of amino-N, measured by titration with HCl in presence of acetone, according to Linderstrom-Lang (hydrolysis). From the pancreatin which showed the highest disaggregation/hydrolysis ratio a cryst. enzyme prep. has been obtained by a method similar to that used by Northrop for crystallizing trypsin. This enzyme causes disaggregation of gelatin without any significant increase in amino-N. When the disaggregating enzyme acted on a 5% gelatin solution for 1 hr. at pH 9-1, 50% of the N not pptd. by trichloroacetic acid was dialysable. Disaggregation is a process independent from, and preceding, hydrolysis of peptide bonds.

A. H. G.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4



1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

Two stages in the proteolysis of gelatin. M. S. Rasnitschenko, N. P. Kosmina, and P. J. Staroselski (*Biochimia*, 1939, 4, 434—444).—At p_H 6·6, pancreatin rapidly (a few min.) decreases the viscosity of gelatin solutions and, in exact proportion, diminishes the ease of pptn. with trichloroacetic acid but, at first, does not alter the amino-N content. The second stage of degradation begins and increase in amino-N becomes detectable after 20—30 min. when the viscosity has been reduced to 25% of its initial val. and 60—80% of the gelatin is no longer coagulable, only 2% of the peptide linkings having been hydrolysed. W. McC.

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPEN

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

AUTHOR INDEX

1ST AND 2ND LETTER

2ND LETTER

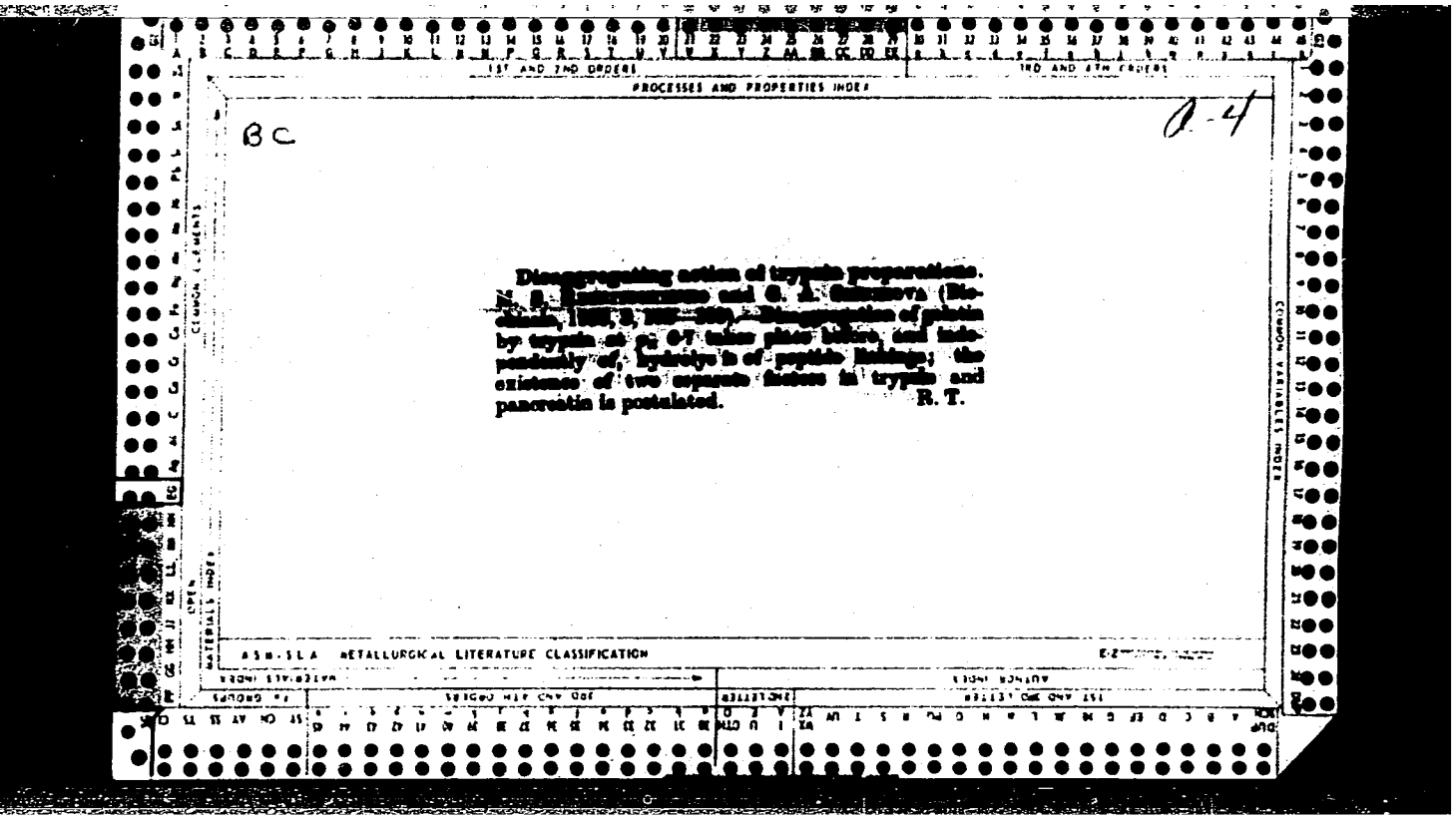
3RD AND 4TH ORDERS

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS



PROCESSES AND PROPERTIES INDEX

BC

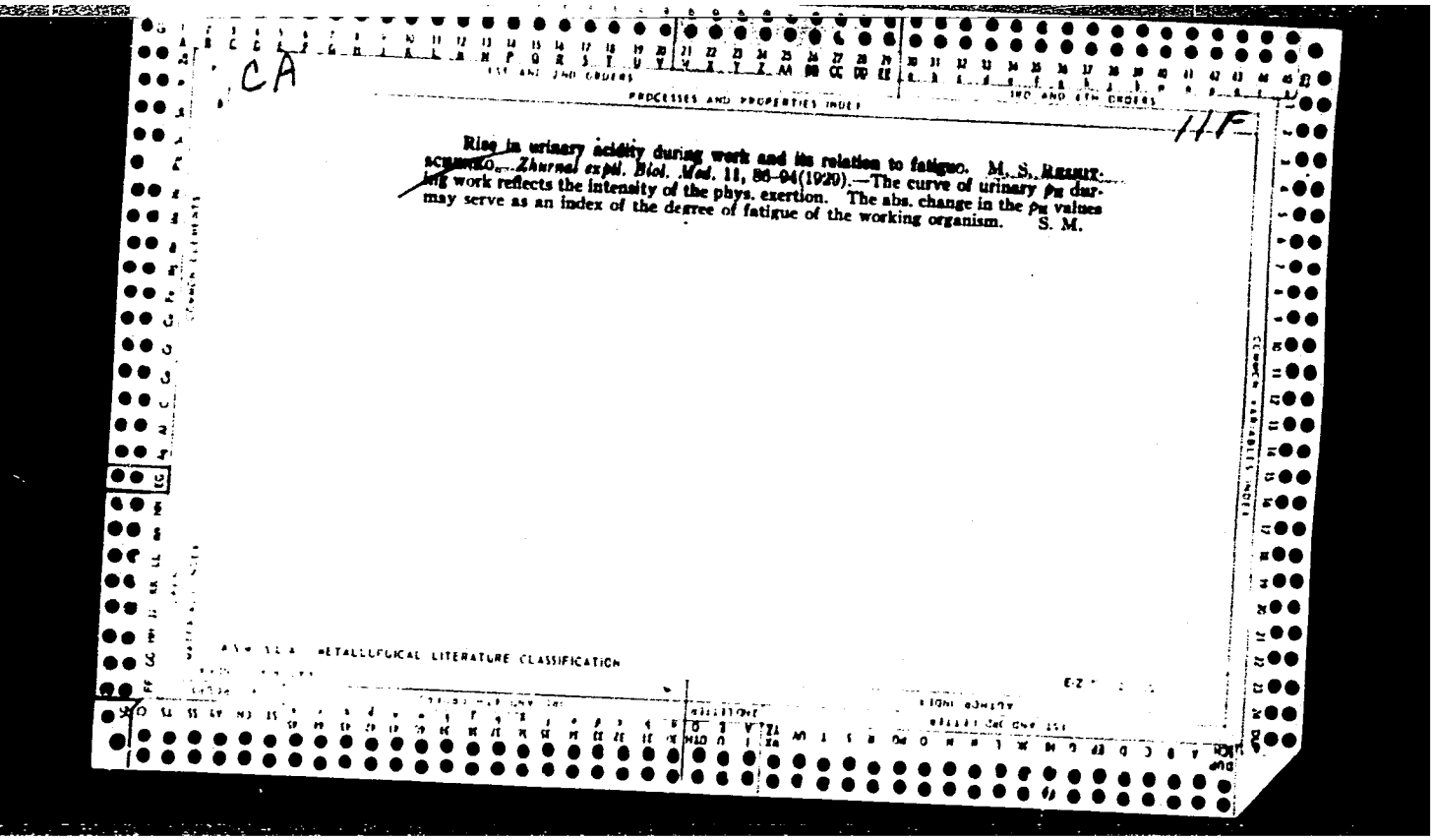
A-4

Disaggregating action of trypsin preparations. [illegible] and [illegible] (Biochimia, [illegible]).—Disaggregation of gelatin by trypsin at [illegible] 6-7 takes place before, and independently of, hydrolysis of peptide linkings; the existence of two separate factors in trypsin and pancreatin is postulated. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4



CA

PROCESSES AND PROPERTIES INDEX

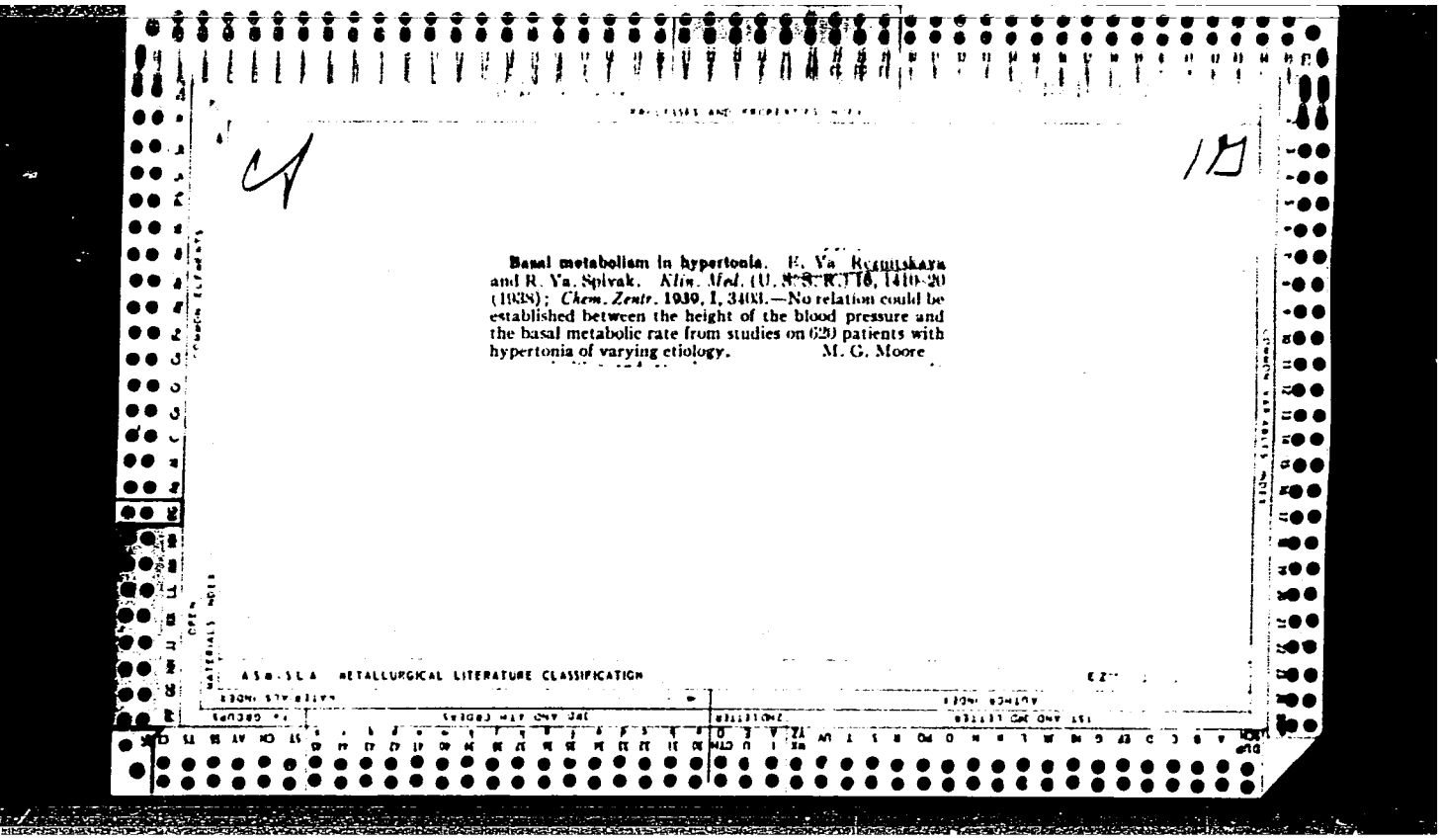
11F

Rise in urinary acidity during work and its relation to fatigue. M. S. Reshit. Zhurnal exptl. Biol. Med. 11, 86–94(1929).—The curve of urinary p_H during work reflects the intensity of the phys. exertion. The abs. change in the p_H values may serve as an index of the degree of fatigue of the working organism. S. M.

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4



PROCESSES AND PROPERTIES INDEX

CA

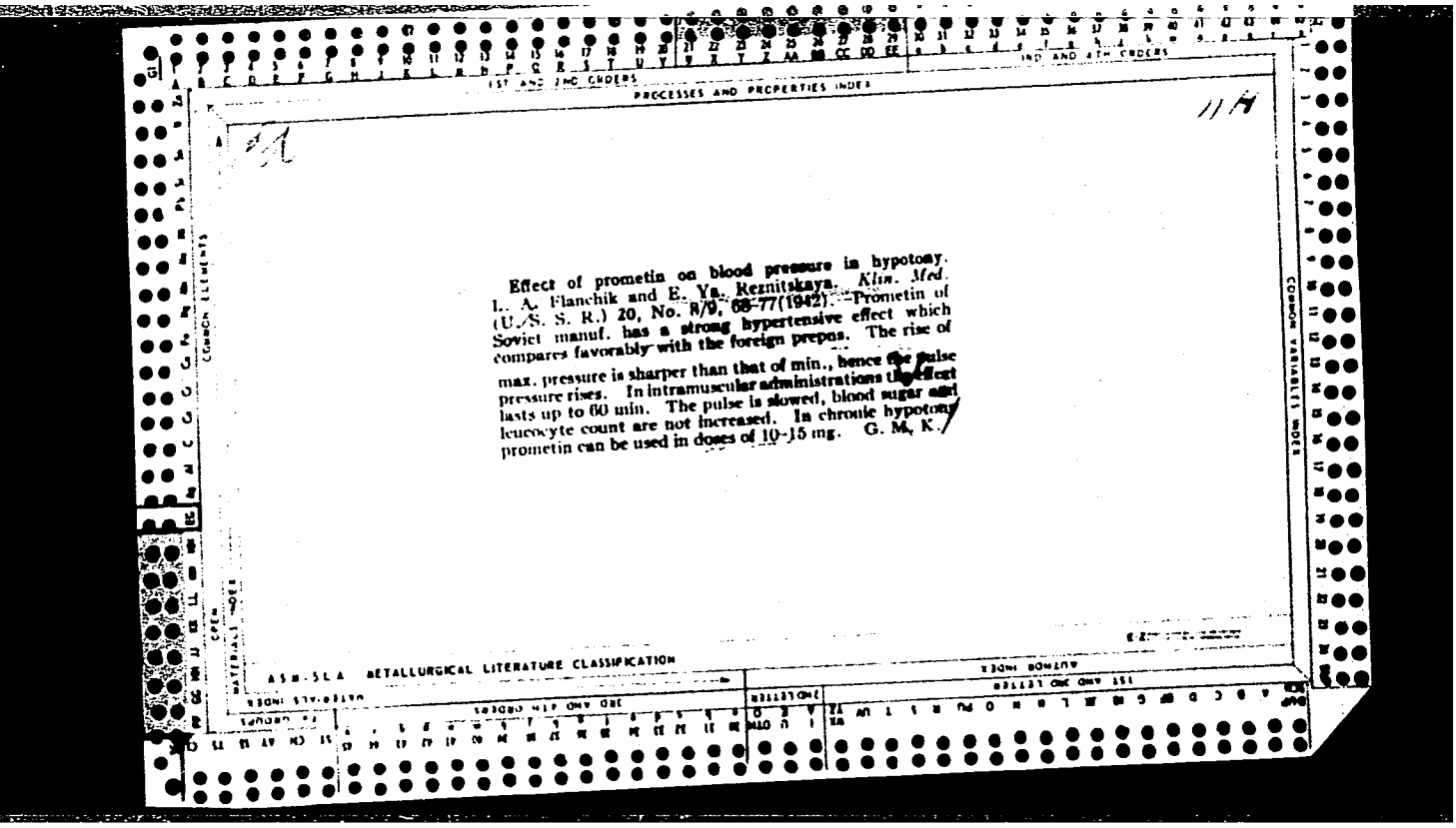
1D

Basal metabolism in hypertonia. E. Ya. Reznitskaya and R. Ya. Spivak. *Klin. Med.* (U. S. S. R.) 16, 1410-20 (1938); *Chem. Zentr.* 1939, I, 3403.—No relation could be established between the height of the blood pressure and the basal metabolic rate from studies on 620 patients with hypertonia of varying etiology. M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4



Effect of prometin on blood pressure in hypotony. L. A. Flanchik and E. Ya. Reznitskaya. *Klin. Med.* (U.S.S.R.) 20, No. 8/9, 68-77(1942).—Prometin of Soviet manuf. has a strong hypertensive effect which compares favorably with the foreign prepns. The rise of max. pressure is sharper than that of min., hence the pulse pressure rises. In intramuscular administrations the effect lasts up to 60 min. The pulse is slowed, blood sugar and leucocyte count are not increased. In chronic hypotony prometin can be used in doses of 10-15 mg. G. M. K.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

25762
S/044/60/000/004/003/006
C111/C333

16.3500

AUTHOR: Reznitskaya, K. G.

TITLE: The system of three nonlinear diffusion equations

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1960, 66, abstract 4058. (Uch. zap. Kishenevsk. un-t, 1959, 39, 225-232

TEXT: It is proved that the system

$$\frac{\partial u}{\partial t} = a^2 \frac{\partial^2 u}{\partial x^2} - kuv + pw,$$

$$\frac{\partial v}{\partial t} = a^2 \frac{\partial^2 v}{\partial x^2} - kuv + pw,$$

$$\frac{\partial w}{\partial t} = a^2 \frac{\partial^2 w}{\partial x^2} + kuv - pw$$

possesses in the domain $0 \leq x < \infty$, $0 \leq t < \infty$ a unique solution

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

25762
S/044/60/000/004/003/006
C111/C333

The system of three nonlinear . . .

which satisfies the boundary and initial conditions:

$u|_{x=0} = \mu_0$, $u|_{t=0} = 0$, $u|_{x=\infty} = 0$,

$v|_{t=0} = T$, $v|_{x=\infty} = T$, $\frac{\partial v}{\partial x}\Big|_{x=0} = 0$,

$w|_{t=0} = 0$, $w|_{x=\infty} = 0$, $\frac{\partial w}{\partial x}\Big|_{x=0} = 0$,

where μ_0, T, a^2, k, p are positive constants.

[Abstracter's note: Complete translation.]

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKAYA, T.V.; GRIGOR'YAN, V.P.

Technique for determining halogens and sulfur by the combustion method. Zav. lab. 31 no.11:1329-1330 '65. (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKAYA, Ye.Ya. , prof. (Kaluga)

On the description of N.A. Dobroliubov's illnesses; as part of a discussion. Azerb.med. zhur. no.8:99-102 Ag '58 (MIRA 11:10)
(DOBROLIUBOV, NIKOLAI ALEKSANDROVICH, 1836-1861)
(TUBERCULOSIS)
(DIABETES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKAYA, Ye.Ya., prof.

Importance of anamnestic details in establishing an individual case of pathogenesis. Azerb. med. zhur. no.9:39-44 S '62 (MIRA 18:1)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. Ye.Ya. Reznitskaya) Severo-Osetinskogo Gosudarstvennogo meditsinskogo instituta (rektor dotsent M.A. Totrov).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A. (Dnepropetrovsk)

In friendly relations with an aqualung. Voen. znan. 38 no.10:33 O '62. (MIRA 15:10)
(Diving, Submarine) (Photography, Underwater)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A. (g. Krivoy Rog)

The traditions of our heroes are not forgotten. Radio no.6:11-12 Je '62. (MIRA 15:5)

(Krivoy Rog—Pioneers (Communist Youth))
(Krivoy Rog—Radio clubs)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A. (Dnepropetrovsk)

Combat traditions live. Voen. Znan. 41 no.5:34-35 My '65. (MIRA 18:5)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A. (Nikopol'skiy rayon Dnepropetrovskoy oblasti)

When the fires are kindled in school. Voen. znan. 40 no.2:33 F '64.
(MIRA 17:2)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A.

It is fortunate to have physicists who are radio amateurs.
Radio no.6:3 Je '63. (MIRA 16:7)

(Radio clubs) (Amateur radio stations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A.

At the Petrovskii Plant. Voen. znan. 39 no.6:21 Je '63. (MIRA 16:8)

(Dnepropetrovsk--Military education)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A.

Technical sport becomes popular. Voen. znan. 39 no.11:17-18 N '63. (MIRA 17:2)

1. Instruktor oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu, Dnepropetrovsk.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A.

Ranks of rural mechanizers are increasing. Voen. znan. 37 no.9:18 S '61. (MIRA 14:9)

1. Instruktor Dnepropetrovskogo obkoma Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu, Sinel'nikovskiy rayon, Dnepropetrovskoy oblasti.
(Farm mechanization)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, A., instruktor

Initiative at a factory. Voen. znan. 37 no.12:29 D '61.
(MIRA 14:11)

1. Oblastnoy komitet Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu, g. Dnepropetrovsk.
(Nikopol'--Shooting, Military)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

L 47451-66 EWP(e)/EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JD/WW/JG/AT/WH/JH
ACC NR: AP6014440 SOURCE CODE: UR/0125/65/000/012/0063/0065

AUTHORS: Shekhter, S. Ya.; Reznitskiy, A. M.; Panov, B. N.

ORG: /Shekhter, Reznitskiy/ Kommunarsk Metallurgical Plant (Kommunarskiy metallurgicheskiy zavod); /Panov/ ORGRES

TITLE: Strengthening parts of metallurgical equipment by plasma deposition

SOURCE: Avtomaticheskaya svarka, no. 12, 1965, 63-65

TOPIC TAGS: plasma arc, metal deposition, welding equipment, aluminum oxide, titanium dioxide, zirconium compound, tungsten carbide, chromium carbide, blast furnace, rolling mill/ PS-500 welding equipment

ABSTRACT: A preliminary list of parts of metallurgical equipment to which protective coatings are applied with a plasma arc is given as the blast and slag tuyeres of blast furnaces, the baffle plates of blast tuyeres, the pipes of heating furnaces of rolling mills, the working wheels of exhaust fans, the cases of thermocouples, and others. The properties of powdered materials that have been selected for coatings are discussed. The materials include aluminum oxide, titanium dioxide, zirconium oxide, tungsten carbide, and chromium carbide. When argon-nitrogen mixtures and pure nitrogen are used, the arc voltage must be not less than 80 V at 300 A. The voltage is supplied by two series-connected PS-500 welding transformers. Proper selection of the coating material insures high mechanical strength of the bond of the coating with the part and increased density of the protective layer.

SUB CODE: 11, 13/ SUBM DATE: 07May65/ ORIG REF: 004/ OTH REF: 002

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

SHEKHTER, S.Ya.; REZNITSKIY, A.M.; PIKULIN, S.A.; KHOMENKO, K.M.

Automatic welding of oversize, steel pouring ladles. Avtom.svar. 18 no.1:59-60 Ja '65. (MIRA 18:3)

1. Kommunarskiy metallurgicheskiy zavod (for Shekhter, Reznitskiy, Pikulin). 2. Institut elektrosvarki im. Ye.O.Patona AN UkrSSR (for Khomenko).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

BELAN, Yu.M., inzh.; GONCHAREV, Ye.G., inzh.; DANILENKO, A.S., inzh.; REZNITSKIY, D.I., inzh.

Continuous automatic control of the composition of flue gases. Gor.zhur. no.3:60-61 Mr '65. (MIRA 18:5)

1. Metallurgavtomatika, Dnepropetrovsk.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ACC NR: AP7005395 (N) SOURCE CODE: UR/0148/67/000/001/0131/0133

AUTHOR: Gorelik, S. S.; Reznitskiy, E. L.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: Effect of the hardening phase on primary recrystallization of EI437B alloy

SOURCE: IVUZ. Chernaya metallurgiya, no. 1, 1967, 131-133

TOPIC TAGS: metal recrystallization, phase transition, alloy steel, metal grain structure

ABSTRACT: The authors study the effect which the hardening phase has on structural formation in deformed specimens of EI437B alloy. An investigation of the structure of specimens subjected to deformation at various temperatures revealed that mechanical treatment close to the boundary of the two-phase region (890-900°C) causes considerable heterogeneity in grain structure with standard heat treatment (1080°C, 8 hours). Therefore, tests were conducted to determine the stage of recrystallization at which the differences in grain structure appear and the factors which affect the structural formation. The specimens for the test were tapered (to produce a range of deformations) and cut from a single bar. These specimens were tempered to a single-phase solution (heating at 1100°C for 2 hours and cooling in water). Some of the specimens were subjected to tensile tests at room temperature while the remainder were tested at 900°C. Maximum deformation at 900°C was less than 20% with brittle fracture. X-ray

 UDC: 669.14.018.45.011.7

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ACC NR: AP7005395

phase analysis showed segregation of a considerable quantity of hardening phase $Ni_3(Ti, Al)$ in the deformed region of these specimens. The electron microscope was used for studying the nature of this phase and its distribution. It was found that segregation of the hardening phase is extremely irregular throughout the metal. The course of primary recrystallization during standard heating (1080°C) was then studied in specimens deformed at both temperatures. The results indicate that particles of γ'-phase precipitate out at dislocations during deformation which prevents redistribution with subsequent heating and thus delays formation of recrystallization centers. The structure of specimens deformed at 900°C shows greater irregularity in grain dimensions and larger average grain size. This is probably due to the effect of the second phase on the nucleation process and the growth of nuclei during primary recrystallization. Orig. art. has: 4 figures.

SUB CODE: 11/ SUBM DATE: 27Jul66/ ORIG REF: 08

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, I.G.

Recovery of oleum in the production of contact sulfuric acid according to a short flow sheet. Khim. prom. 42 no.9:681 S '65. (MIRA 18:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.;KHOMYAKOV, K.G.

Determining the melting point of $Na_2S_2O_7$ and $NaHSO_4$ from heating curves under adiabatic conditions. Vest Mosk. un. Ser. mat., mekh., astron., fiz., khim. 14 no.2:199-202 '59 (MIRA 13:3)

1. Kafedra obshchey khimii Moskovskogo gosuniversiteta.
(Sodium Sulfates--Thermal properties)
(Melting points)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.

Determination of the heat of formation of silicon dioxide by the electromotive force method. Zhur. fiz. khim. 38 no.3: 760-762 Mr '64. (MIRA 17:7)

1. Institut goryuchikh iskopayemykh AN SSSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

MEDVEDEV, V.A.; YUNGMAN, V.S.; VOROB'YEV, A.F.; GURVICH, L.V.; BERGMAN, G.A.; REZNITSKIY, L.A.; KOLESOV, V.P.; GAL'CHENKO, G.L.; KHODEYEV, Yu.S.; KHACHKURUZOV, G.A.; SOKOLOV, V.B.; GOROKHOV, L.N.; MONAYENKOVA, A.S.; KOMAROVA, A.F.; VEYTS, I.V.; YURKOV, G.N.; MALENKOV, G.G.; SMIRNOVA, N.L.; GLUSHKO, V.P., akademik, otv. red.; MIKHAYLOV, V.V., red.; KARAPET'YANTS, M.Kh., red.

[Thermal constants of substances; reference book in ten numbers] Termicheskie konstanty veshchestva; spravochnik v desiati vypuskakh. Moskva, No.1. 1965. 144 p. (MIRA 18:7)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.; KHOMYAKOV, K.G.

True heat capacity of magnesium ferrite. Vest.Mosk.un.Ser.2: Khim. 17 no.2:50-52 Mr-Ap '62. (MIRA 15:4)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Magnesium ferrates) (Heat capacity)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

KHOMYAKOV, K.G.; TRET'YAKOV, Yu.D.; REZNITSKIY, L.A.; PAVLOVA-VEREVKINA, L.A.

Works on ferrates at the general chemistry department over the last five years. Vest.Mosk.Un.Ser.2:Khim. 16 no.5:52-59 S-O '61. (MIRA 14:9)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Ferrates)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.; KHOMYAKOV, K.G.

Calorimetric determination of the heat of formation of ferrites. Part 5: Heat of formation of manganese ferrite. Vest. Mosk. un. Ser. 2: Khim. 15 no.6:24-26 N-D '60. (MIRA 14:2)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Manganese ferrate) (Heat of formation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.

Preparation of mixed schoenites from supersatured solutions. Vest. Mosk un. Ser. 2: Khim. 15 no.4:36-39 Jl-Ag '60. (MIRA 13:9)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Picromerite)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.; KHOMYAKOV, K.G.

Calorimetric determination of the heat of reduction of ferrites with hydrogen. Part 3: Reduction of copper oxide and copper ferrite. Vest. Mosk un. Ser. 2: Khim. 15 no.4:40-42 Jl-Ag '60. (MIRA 13:9)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Heat of reduction) (Copper oxide) (Copper ferrate)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.;KHOMYAKOV, K.G.

Calorimetric determination of the heat of reduction of ferrites by hydrogen. Part 1: Calorimeter. Reduction of iron oxide. Vest Mosk. un. Ser. mat., mekh., astron., fiz., khim. 14 no.2:217-224 '59 (MIRA 13:3)

1. Kafedra obshchey khimii Moskovskogo gosuniversiteta..
(Calorimeters) (Iron oxides)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

68989

5.4700

AUTHORS: Reznitskiy, L. A., Khomyakov, K. G.

S/020/60/131/02/031/071
B011/B005

TITLE: Calorimetric Determination of the Formation Heat of Ferrites

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 2, pp 325-326 (USSR)

ABSTRACT: For practical purposes of ferrite synthesis, the authors determined the free energies and formation heats of copper-, zinc-, and calcium ferrite. The formation heats were determined from the difference of the reaction heats of oxide- and ferrite mixtures at 413°K with a mixture of sulfuric and phosphoric acid. Copper- and zinc ferrite were produced by thermal decomposition of isomorphous schoenite ($1/3MSO_4 \cdot 2/3\ FeSO_4 \cdot (NH_4)_2SO_4 \cdot 6H_2O$, where M = Cu or Zn). Calcium ferrite was obtained ceramically from $CaCO_3$ and Fe_2O_3 by annealing at 1100°. Equal amounts of ferrites and corresponding ferrite-forming oxides were used to obtain solutions of equal concentration. Table 1 shows the enthalpies determined on dissolution of the mixtures mentioned in acid at 413°K. Considering the previously determined formation heat of $MgFe_2O_4$ from MgO and Fe_2O_3 ($\Delta H_{413} = 9.2$ kcal/mole) it may be concluded that the formation heat of ferrites from oxides decreases in the order Ca - Mg - Zn - Cu. This order agrees with the voltage series of the metals. A very low exothermic effect in the formation of $CuFe_2O_4$ from oxides agrees

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

68989
S/020/60/131/02/031/071
B011/B005

Calorimetric Determination of the Formation Heat of Ferrites

well with the thermal instability of $CuFe_2O_4$ above 1100° since a dissociation takes place at these temperatures. The formation heats of $CuFe_2O_4$ and $ZnFe_2O_4$ from elements at 413°K were computed from equations for C_p and from the values of ΔH_{298} for oxides (Refs 1,2). $\Delta H_{413}CuFe_2O_4 = -233.7$ kcal/mole and $\Delta H_{413}ZnFe_2O_4 = -284.9$ kcal/mole were computed from these data, using the formation heats from oxides determined in the present paper. For calcium- and magnesium ferrite, the values of the formation heats and free energies at 298°K are determined by conversion. There are 1 table and 6 references, 1 of which is Soviet.

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

PRESENTED: November 10, 1959, by V. I. Spitsyn, Academician

SUBMITTED: November 3, 1959

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ACC NR: AP6004182 (A) SOURCE CODE: UR/0076/66/040/001/0134/0139

AUTHOR: Reznitskiy, L. A.

ORG: Institute of High Temperatures, Academy of Sciences SSSR (Institut vysokikh temperatur Akademii nauk SSSR)

TITLE: Approximate determination of the heats of formation of certain compounds of transition metals in groups IV and V

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 1, 1966, 134-139

TOPIC TAGS: heat of formation, carbide, nitride, boride. thermodynamic calculation, heat effect, halide, metal compound, hydride

ABSTRACT: Because inconsistent values of the heat of formation at standard conditions, ΔH_{298}, have been obtained for numerous compounds, and no values at all have been calculated for others. it has become necessary to seek approximate methods of estimating ΔH_{298}. The method is based on proven thermochemical relationships between the heats of formation of compounds of the same type. According to V. A. Kireyev, the heat effects of two reactions of the same type, X and Y, at the same temperatures are related as follows:

$$\Delta H_X = a \cdot \Delta H_Y, \quad (1)$$

UDC: 541.11

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

L 16[illegible]-66
ACC NR: AP6004182

where α is a temperature-independent coefficient for a moderate temperature range. This relationship is used to compare similar compounds of elements of the titanium subgroup (oxides, halides, carbides, borides, nitrides, and hydrides). The reference values used are the heats of formation of TiO_2, ZrO_2, HfO_2, $TiCl_4$, $ZrCl_4$, TiF_4, Zr_2F_4, and HfF_4. By using these values, the author calculates relation (1), with which he can then correct certain experimental data and evaluate ΔH_{298} of certain compounds, including carbides, nitrides, and borides of vanadium, niobium, and tantalum. Orig. art. has: 6 tables and 1 formula.

SUB CODE:07,20/ SUBM DATE: 06Oct64/ ORIG REF: 013/ OTH REF: 037

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A.; KHONYAKOV, K.G.

Calorimetric determination of the heat of reduction of ferrites by hydrogen. Part 2: Reduction of zinc ferrite. Vest.Mosk.un.Ser 2: Khim. 15 no.1:41-43 '60. (MIRA 13:7)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Zinc ferrate) (Hydrogen)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L. A., Cand Chem Sci -- (diss) "Thermodynamic investigation of ferrites. Determination of the heats of formation of ferrites of manganese, magnesium, zinc, copper, and calcium." Moscow, 1960. 13 pp; (Moscow State Univ im M. V. Lomonosov, Physics Faculty); 150 copies; price not given; bibliography at end of text (13 entries); (KL, 17-60, 142)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A., KHOMYAKOV, K.G.

Calorimetric determination of the heat of reduction of ferrites by hydrogen. Part 4: Reduction of magnesium ferrite. Determination of the heat of formation of magnesium ferrite. Vest. Mosk. un. Ser. 2: khim. 15 no.2:28-30 Mr-Ap '60. (MIRA 13:6)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Magnesium ferrate) (Heat of formation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

RZNITSKIY L.A

AUTHORS: Reznitskiy, L. A., Khomyakov, K. G., Nekrasov, L. I., Skorokhodov, I. I. 76-1-13/32

TITLE: Concerning the Higher Peroxide of Hydrogen and Frozen Radicals I. Determination of the Decomposition Temperature of the Glassy Substances Produced in the Electric Discharge From Water Vapour (K voprosu o vysshey perikisi vodoroda i zamorozhennykh radikalov. I. Opredeleniye teploty razlozheniya steklovidnogo veshchestva, poluchennogo iz parov vody v elektricheskom razryade).

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 1, pp. 87-92 (USSR)

ABSTRACT: The results of the calorimetric determination of heat effects are given, which accompany the decomposition of the glassy substance (obtained from dissociated steam with an electric discharge). The method of continuous heating on adiabatic conditions was used. This method makes possible the determination of heat effects in a relatively quick and realiable manner. A construction of the calorimetric investigation of the interaction at low temperature of vapour dissociated in an electric discharge was worked out. Three heat effects were determined which accompany the heating

Card 1/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

Concerning the Higher Perodixe of Hydrogen and Frozen Radicals
I. Determination of the Decomposition Temperature of the Glassy Substances Produced in the Electric Discharge From Water Vapour

process of the glassy substance. The authors show that at -115°C the first exothermic effect begins and that it is accompanied by a separation of O_2. At - 70°C the glassy substance begins to melt. This goes on till -55°C. At this temperature the endothermic process passes over to an exothermic one. This is accompanied by a turbulent separation of O_2. It reaches its maximum in a liquid phase at -43°C. This exothermic effect takes place in the melting range of the eutectic of the H_2O-H_2O_2 system. In order to take this effect into account the heat of fusion of the eutectic was determined. It was 74,5 cal/g. When determining the real value of the second exothermic effect this quantity was taken into account. The authors stated that with the first effect, which began at -115°C and which was accompanied by a separation of gas a heat of 78,8 kcal/Mol O_2 was separated. The endothermic effect which is connected with the melting of the substance and which begins at -70° is also accompanied by a separation of

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

Concerning the Higher Perodixe of Hydrogen and Frozen Radicals
I. Determination of the Decomposition Temperature of the
Classy Substances Produced in the Electric Discharge From
Water Vapour

gas. With this effect 100 cal/g H_2O_2 were recorded. The quantity of the second exothermic effect was 68,0 kcal/Mol of O_2. It is accompanied by a decomposition of H_2O_4. The data given here prove the process of the decomposition of glassy substances suggested earlier by one of the authors (Nekrasov) (ref. 6). The endothermic effect stated with this decomposition has not yet been clearly explained. According to the opinion of the authors this effect had to be attributed to a change of the state of aggregation with glassy substances, which would coincide with the explications in ref. 11.

The authors were advised by Professor N. I. Kobozev.

There are 2 figures, 2 tables, and 12 references, 2 of which are Slavic.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

76-1-13/32

Concerning the Higher Perodixe of Hydrogen and Frozen Radicals
I. Determination of the Decompcsition Temperature of the
Classy Substances Produced in the Electric Discharge From
Water Vapour

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

SUBMITTED: October 3, 1956

AVAILABLE: Library of Congress

Card 4/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

RIZNITSKIY, L.A.

PHASE I BOOK EXPLOITATION SOV/4893

Vsesoyuznoye soveshchaniye po fizike, fiziko-khimicheskim svoystvam ferritov i fizicheskim osnovam ikh primeneniya. 3d, Minsk, 1959

Ferrity; fizicheskiye i fiziko-khimicheskiye svoystva. Doklady (Ferrites; Physical and Physicochemical Properties. Reports) Minsk, Izd-vo AN BSSR, 1960. 655 p. Errata slip inserted. 4,000 copies printed.

Sponsoring Agencies: Nauchnyy sovet po magnetizmu AN SSSR. Otdel fiziki tverdogo tela i poluprovodnikov AN BSSR.

Editorial Board: Resp. Ed.: N. N. Sirota, Academician of the Academy of Sciences BSSR; K. P. Belov, Professor; Ye. I. Kondorskiy, Professor; K. M. Polivanov; Professor; R. V. Telesnin, Professor; G. A. Smolenskiy, Professor; N. N. Shol'ts, Candidate of Physical and Mathematical Sciences; E. M. Smolyarenko; and L. A. Bashkirov; Ed. of Publishing House: S. Kholyavskiy; Tech. Ed.: I. Volokhanovich.

PURPOSE: This book is intended for physicists, physical chemists, radio electronics engineers, and technical personnel engaged in the production and use of ferromagnetic materials. It may also be used by students in advanced courses in radio electronics, physics, and physical chemistry.

COVERAGE: The book contains reports presented at the Third All-Union Conference on Ferrites held in Minsk, Belorussian SSR. The reports deal with magnetic transformations, electrical and galvanomagnetic properties of ferrites, studies of the growth of ferrite single crystals, problems in the chemical and physicochemical analysis of ferrites, studies of ferrites having rectangular hysteresis loops and multicomponent ferrite systems exhibiting spontaneous rectangularity, problems in magnetic attraction, highly coercive ferrites, magnetic spectroscopy, ferromagnetic resonance, magneto-optics, physical principles of using ferrite components in electrical circuits, anisotropy of electrical and magnetic properties, etc. The Committee on Magnetism, AS USSR (S. V. Vonsovskiy, Chairman) organized the conference. References accompany individual articles.

Ferrites (Cont.) SOV/4893

Perekalina, T. M., and A. A. Askochenskiy. Magnetic Anisotropy of Single Crystals of Iron-Cobalt Ferrites 95

Tret'yakov, Yu. D., and K. G. Khomyakov. Experiment in Producing Ferrites by Nondiffusion Methods 100

Bashkirov, L. A., A. P. Palkin, and N. N. Sirota. Formation of Ferrites During the Decomposition of Salts 111

Yevseyev, V. I., and I. I. Petrova. Investigation of the Properties of Nickel-Zinc Ferrites of Near-Stoichiometric Composition 117

Reznitskiy, L. A., and K. G. Khomyakov. Calorimetric Determination of the Heat of Formation of Ferrites 124

Basikhin, Yu. V. The Chemical Nature of Some Magnetic Spinels of the Diagram $MgO-MnO_t-Fe_2O_3$. Spinels With Rectangular Hysteresis Loop 129

Card 5/18

Card 4/18

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, L.A. (Moskva)

Approximate method for calculating the heat of formation of inorganic compounds. Zhur.fiz.khim. 35 no.8:1853-1859 Ag '61. (MIRA 14:8)

(Heat of formation)
(Salts)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

S/189/62/000/002/004/004
D228/D302

AUTHORS: Reznitskiy, L.A., and Khomyakov, Kh.G.

TITLE: True heat-capacity of magnesium ferrite

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II, khimiya, no. 2, 1962, 50 - 52

TEXT: Continuing their research into the thermodynamic properties of ferrites the authors detd. the true heat-capacity of magnesium ferrites by E. King's method in the temp. range 50 - 298°K and by K. Bonnickson's method between 298 and 730°K. The ferrite were prepd. by thermally decompg. an isomorphous mixture of schoenite (ferrite I) and copptd. hydroxides (ferrite II). Graphs of the relationship between the heat-capacity and the temp. show that for ferrite I the C_p-T curve in the region of transition from the ferro- to the paramagnetic state has a lambda-shaped form, with a maximum at 660 °K; in the case of ferrite II, however, the conversion is spread over a larger temp. interval. This difference is attributed to the lower concn. of microscopic heterogeneities in ferrite I as compa-

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

red with ferrite II. The good coincidence between the authors' values for C_p and those obtained by King is noted. Up to 550°K their data also agree with those of Bonnickson, but at higher temps. the true heat-capacity of magnesium ferrite is above the value, calcd. by him from the differential of the heat-capacity equation. There are 1 figure and 4 references: 2 Soviet -bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: E. King, J. Amer. Chem. Soc. 76, 5849, 1954; K. Bonnickson ibid., 76, 1480, 1954.

ASSOCIATION: Kafedra obshchey khimii (Department of General Chemistry)

SUBMITTED: November 11, 1960

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ACCESSION NR: AP4033411 S/0076/64/038/003/0760/0762

AUTHOR: Reznitskiy, L. A.

TITLE: Determination of the heat of formation of silicon dioxide by the emf method

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 3, 1964, 760-762

TOPIC TAGS: heat of formation, electromotive force, silicon dioxide, thermodynamic function, emf method, isobaric potential

ABSTRACT: This article presents the experimental results on the determination of the isobaric potential for the formation of silicon dioxide, measured by the emf method. In this work the emf was measured in the following cell:

-Mo, $Si_{saturated\ in\ Cu}|K_2SiO_3$, SiO_2 saturated in Cu|Pt, O_2 (gas)+'

The negative electrode was molybdenum wire, dipped into Si-Cu melt, saturated with Si. The electrolyte was a saturated solution of SiO_2 in K_2SiO_3. The positive electrode was Pt wire bubbled over with O_2,

Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

purified from H_2O and CO_2. Since the Si-Cu melt and K_2SiO_3 melt were saturated with solid Si and SiO_2, the activity of Si and SiO_2 were equal to 1. The electrode processes may be represented by the following equations:

(negative electrode) $Si + 2\,O^{-2} \rightleftharpoons SiO_2 + 4\,e$

(positive electrode) $O_2 \rightleftharpoons 2\,O \xrightarrow{+4\,e} 2\,O^{2-}$

The heat of formation of SiO_2, then, is calculated from the value of the emf of the cell and the following equation

$$\Delta H = -4F\,(E - T d\varepsilon/dt)\ \text{kcal/mole.}$$

The temperature was maintained constant to $\pm$ 1C and measured by means of a Pt-PtRh thermocouple. The emf became constant 2 - 3 hours after the establishment of the temperature, and it did not vary by more than 0.005 v. The measured emf were corrected for the emf of the Mo-Pt thermocouple, determined in separate experiments with the same electrodes that were used in the cell. The emf of this

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ACCESSION NR: AP4033411

cell is described by the following equation:

$E = a + bT = 2.325 (\pm 0.046) - 4.74 (\pm 0.37) \cdot 10^{-4} T$, Volt

and the change of the isobaric-isothermal free energy of the formation of SiO_2 in the 1150 - 1420 C interval is

$\Delta G = 214.5 (\pm 4.2) + 43.7 (\pm 3.4) T$ kcal/mole.

Orig. art. has: 1 table

ASSOCIATION: Institut gorynchikh iskopayemykh Akademii nauk SSSR (Institute of Fossil Fuels of the Academy of Sciences, SSSR)

SUBMITTED: 01Apr63 ENCL: 00

SUB CODE: CHIC NR REF SOV: 003 OTHER: 011

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

L 19864-65 EWP(e)/EWT(m)/EWA(d)/T/EWP(t)/EWP(k)/EWP(b) Pf-4 ASD(m)-3 JD/WB/MLK

ACCESSION NR AM4049800 BOOK EXPLOITATION S/ B

Shifrin, A. Sh. (Candidate of Technical Sciences); Reznitskiy, L. M. (Candidate of Technical Sciences)

Machining of corrosion-resistant, heat-resistant and titanium steels and alloys (Obrabotka rezaniyem korrozionnostoykikh, zharoprochnyʻkh i titanovyʻkh staley i splavov), Moscow, Izd-vo "Mashinostroyeniye", 1964, 446 p. illus., biblio. 4,200 copies printed.

TOPIC TAGS: metal cutting, corrosion-resistant steel, corrosion-resistant alloy, heat-resistant steel, heat-resistant alloy, titanium alloy, high speed steel, powder metallurgical hard alloy

PURPOSE AND COVERAGE: This book is devoted to the basic types of machining of corrosion-resistant, heat-resistant, and titanium materials: metal turning, planing, drilling, thread cutting, sinking, drawing, and polishing. For each type of machining the results of domestic and foreign research are given. Recommendations are made for selecting the optimal cutting regimes, the material and geometry of the cutting tool, and its design. The general characteristics and classification of modern corrosion-resistant, heat-resistant, and titanium materials are included. The properties of high-speed steels and powder metallurgical hard alloys are given. The book is intend-

Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

ed for engineers, technicians, and researchers concerned with the problems of metal cutting.

TABLE OF CONTENTS [abridged]:

Foreword -- 3
Ch. I. Brief information on corrosion-resistant, heat-resistant steels and alloys and titanium alloys -- 5
Ch. II. Tool materials -- 23
Ch. III. Turning corrosion-resistant, heat-resistant, and titanium structural materials -- 43
Ch. IV. Milling corrosion-resistant, heat-resistant and titanium materials -- 136
Ch. V. Drilling corrosion-resistant and heat-resistant steels and alloys -- 219
Ch. VI. Countersinking corrosion-resistant and heat-resistant steels and alloys -- 274
Ch. VII. Broaching corrosion-resistant and heat-resistant steels and alloys -- 280
Ch. VIII. Cutting threads on corrosion-resistant and heat-resistant steels, heat-resistant and titanium alloys -- 285

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

L 19864-65
ACCESSION NR AM4049800

Ch. IX. Swaging heat-resistant and titanium materials -- 339
Ch. X. Polishing heat-resistant and titanium materials -- 396
Bibliography -- 440

SUB CODE: MM SUBMITTED: 21Apr64 NR REF SOV: 125

OTHER: 004

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

[illegible], A.Sh., kand. tekhn. nauk; REZNITSKIY, L.M., kand. tekhn. nauk; ZAGRETSKIY, P.P., kand. tekhn. nauk, retsenzent

[Cutting corrosion- and heat-resistant steels and alloys and titanium alloys] Obrabotka rezaniem korrozionnostoikikh, zharoprochnykh i titanovykh stalei i splavov. Moskva, Izd-vo "Mashinostroenie," 1964. 446 p. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

PAPKOVICH, Petr Fedorovich, zasl. deyatel' nauki i tekhniki RSFSR, prof. (1887-1946); REZNITSKIY, L.Ya., otv. red.

[Structural mechanics of a ships] Stroitel'naia mekhanika korablia. Moskva, Izd-vo "Morskoi transport," Vol.2. Pt.1. [Curvilinear frames. Cross members] Krivolineinye ramy. Perekrestnye sviazi. 1947. 815 p. (MIRA 15:4)

1. Chlen-korrespondent Akademii nauk SSSR, Voyenno-morskaya akademiya korablestroyeniya i vooruzheniya (for Papkovich).
(Hulls (Naval architecture))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

VYDRIN, Andrey Ivanovich; GAMUS, Moisey Zalmanovich; BOLOTIN, V.D., inzh., retsenzent; REZNITSKIY, L.M., kand. tekhn. nauk, red.; BORODULINA, I.A., red. izd-va; BARDINA, A.A., tekhn. red.

[Partial mekhanization and automation in assembly shops] Malaia mekhanizatsiia i avtomatizatsiia v sborochnom tsekhe. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 164 p. (MIRA 14:8)

(Machine-shop practice) (Automation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

REZNITSKIY, Lev Mikhaylovich

The Machining of Hardened Steels. Wright-Patterson Air Force Base, Technical Information Center, 1960.
V. 455 p. Illus., Charts, Diagrs., Graphs, Tables (MCL-406/V)
Translated from the original Russian: Mekhanicheskaya Obrabotka Zakalennykh Staley, Leningrad, 1958.
Bibliography: p. 447-452.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

25(1) PHASE I BOOK EXPLOITATION SOV/1847

Reznitskiy, Lev Mikhaylovich

Mekhanicheskaya obrabotka zakalennykh staley (Mechanical Working of Hardened Steels) Moscow, Mashgiz, 1958. 398 p. Errata slip inserted. 7,000 copies printed.

Reviewers: A. M. Vul'f, Docent, Candidate of Technical Sciences; and V. D. Morozov, Docent, Candidate of Technical Sciences; Ed.: E. D. Maydel'man, Engineer; Eds. of Publishing House: I. A. Borodulina, and T. L. Leykina; Tech. Ed.: L. V. Sokolova; Managing Ed. for Literature on Machine-building Technology (Leningrad Division, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for the engineering staff in machine-building plants. It may also be used by scientific workers and students of mechanical engineering vuzes and tekhnikums.

Card 1/7

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4

COVERAGE: This book deals with problems of machining hardened alloyed constructional steels. It presents results of investigations in this line and data of progressive work in turning, face milling, drilling, reaming, countersinking, and thread cutting of hardened steels. The author also gives practical suggestions for selecting design and geometry of the tool, as well as cutting regimes. The author stresses the importance of carbide-tipped tools in machining and cites work published by N. S. Logak on fine turning, N. N. Zorev on the cutting forces during turning, and M. N. Larin on the introduction of electric current into the zone of cutting during turning of hardened steels. He also mentions dissertations for the degree of Candidate of Technical Sciences presented by V. S. Mamayev, A. A. Maslov, A. D. Makarov, and Ye. A. Byelovsova, which concern the turning of hardened steels. There are 78 Soviet references.

TABLE OF CONTENTS:

Introduction 3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001444820004-4"