

CHUSHKOV, P.

- Zhivotovodstvo, Sofia, Vol 15, No 3, 1932
1. V. KAPOROV (Senior Instructor -Zam-nastoyatel) (Ministry of Agriculture -Kishinostovo na zemledelie); Highly of Active Workers and Pastors (Ivan Epraved Fedc for Our Animals, pp 1-4.
 2. Boris KILINOV (Prof); Effect of Composition of Pasture on Constitution of Animals Feeding (Imreem), pp 5-6.
 3. Dimitar KAPOROV; One of Our Pastores (Pasture Free Park, IV) in Koshlitsa, pp 8-10.
 4. Zlatko SIMONOV (Senior Scientific Associate, CHISS -abbr. not identified) and Dimitria LONCHOVA (Pasture Associate, District People's Council -Czechoslovakia, Soviet - in Platen); Efficient Use of Natural Pastures, pp 11-14.
 5. Boris PETROV; Depressure in Hottest part in our Primary Park, pp 15-16.
 6. Pava GEROV and Petar STREZHOV; Causes of Non-Inflection of Gastric-Intestinal Disturbances in Pigs and Means of Preventing Their Occurrence, pp 20-24.
 7. Dimitar DEZHURNOV (Senior Research Associate, CHISS -abbr. not identified - City of Koshlitsa); Effect of Feeds Varying in Vitamin A and Carotene Concentration on Milk, pp 25-26.
 8. Ivanovskiy SAVOV; The Fishing Industry in the City of Smolyan, pp 27-28.
 9. Vladimír ZOBOT (Senior Research Associate, CHISS Koshlitsa) and Venko VETOR (Head, Department of Horse Breeding, Ministry of Agriculture); Purebred Horses in Our Horse-Breeding Establishments, pp 30-33.
 10. Dimitar ANTONOV (Dr; Head of Veterinary Health Directorate in Plovdiv); Implementing Systems in the Hiding Farm in the Parnubehina Village, pp 34-35.
 11. Osvako ZAGREB (Director NITA -out 14ant - Kolarov Grad); State Farming in Czechoslovakia, pp 37-40.

(continued)

13

NACHEV, B.; GEROV, K.; GABRASHANSKIY, P.; CHUSHKOV, P.

Selenium as a therapeutic and prophylactic means against
exudative diathesis in chicks and enzootic muscular dystrophy
in lambs. Veterinariia 39 no.8:44-46 Ag '62.

(MIRA 17:12)

1. Vysshiiy veterinarno-meditsinskiy institut i Institut biologii
i patologii razmnozheniya, Sofiya.

RADEV, T.; GEROV, K.; CHOUSHKOV, P. [Chushkov, P.]; VENKOV, T.;
GEORGIEVA, R.

Composition of alantoid and amnionic fluids in swine.
Doklady BAN 16 no. 4: 433-436 '63.

1. Institute of Comparative Pathology and Institute of
Biology and Pathology of Reproduction Propagation.

CHUSHKOV, P.

Conference on the constitutional dyspepsia in calves. Sel'skostonauka 2 no.9:1181-1182 '64.

CHUSHNYAKOV, V., inzh.

Be careful to preserve wooded areas. Na stroi. Ros. 3 no.4:9
Ap '62. (MIRA 15:9)
(City planning) (Forest protection)

PUSHKAREV, V.V.; CHUSHNYAKOV, V.F.

Ways of lowering the cost of operating tower cranes in the building
of apartment houses. Stroi. v raion. Vest. Sib. i Krain. Sev. no.2:
170-179 '62. (MIRA 18:7)

PUSHKAREV, Viktor Viktorovich; NOVIK, Zel'man Izrailevich;
CHUSHNYAKOV, Vasilii Fadeyevich

[Building a section of large-panel and large-block apartment houses by the system of a constant flow line; practices of the Krasnoyarsk Housing Construction Trust No.1] Zastroika kvartala krupnopanel'nymi i krupnoblochnymi domami po sisteme postoianno deistvuiushchikh potochnykh lini; iz opyta tresta "Krasnoiarskzhilstroi-1." Moskva, Stroiizdat, 1964. 32 p.
(MIRA 18:4)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Novosibirskogo instituta inzhenerov vodnogo transporta (for Pushkarev).
3. Glavnyy inzhener Krasnoyarskogo tresta industrial'nogo zhilishchnogo stroitel'stva no.1 (for Novik).
4. Glavnyy tekhnolog po krupnopanel'nomu domostroyeniyu ~~Glavnogo upravleniya po zhilishchnomu i grazhdanskomu stroitel'stvu v gorode Krasnoyarske~~ (for Chushnyakov).

PUSHKAREV, V.V.; CHUSHNYAKOV, V.F.

Potentials for lowering the operating cost of tower cranes.
Izv.vys.ucheb.zav.; stroi. i arkhitekt. 4 no.6:155-161 '61.

(MIRA 15:2)

1. Novosibirskiy institut inzhenerov vodnogo transporta.
(Cranes, derricks, etc.)

CHUSINOVA, L.I.

Zinc perchlorate. Zhur. neorg. khim. 10 no.6:1300-1306 Je '65.
(MIRA 18:6)

CHUSONOV, V.I.

4

MT [✓] Determination of iron and aluminum in cements by amperometric titration. V. I. Chusonov. Tsement, 21 [5] 22-24 (1955).—Dissolve 1 gm. of sample in 5 ml. of HCl (1:1) and 0.5 ml. of HNO₃ (1:1). Dilute to 100 ml. Use 10 to 15 ml. and, with the aid of urotropine, make amperometric titration (iron at 30 mv. and aluminum at 500 mv.). Results are determined from the curve. The error is not over 0.18% for iron and 0.13% for aluminum. B.Z.K.

PM

MODZOLEVSKIY, Igor' Vladimirovich, inzh.; BARSEGOV, A.A.; KARPOV, I.V.;
KARTSEV, I.T.; KRYLOV, N.M.; NIKOLAYEV, I.V.; REVICH, V.I.;
SHEVYAKOV, V.A.; SHOKHIN, O.A.; CHUSOV, A.I.; GUBAREVA, N.T.,
red.; BOBROVA, Ye.N., tekhn.red.

[General course in railroad engineering] Obshchii kurs zheleznykh
dorog. Izd.3., perer. Pod obshchei red. I.V.Modzolevskogo.
Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia,
1960. 290 p. (MIRA 13:12)

(Railroad engineering)

CHUSOV, B.

Instructor of the trade-union committee. Sov. profsoiuzy 4 no.9:26-30
S '56. (MIRA 9:10)

1. Instruktor Tsentral'nogo Komiteta profsoyusa rabochikh chernoy
metallurgii. (Trade unions)

CHUSOV, B.

Secret of success. Okhr.truda i sots.strakh. 3 no.3:38-39 Mr
'60. (MIRA 13:7)

1. Sekretar' Moskovskogo obkoma profsoyuza rabochikh metallurgicheskoy
promyshlennosti.
(Moscow--Steel industry--Safety measures)

GHUSOV, B.

Metalworkers of the Moscow region are keeping the labor watch.
Sov. profsoiuzy 17 no. 5:5-7 iz '61. (MIRA 14:2)

1. Sekretar' Moskovskogo oblastnogo komiteta profsoyuza
rabochikh metallurgicheskoy promyshlennosti.
(Moscow—Metal industries) (Socialist competition)
(Trade unions)

CHUSOV, B.

"Electrostal'" plant. Metallurg 6 no.7:32-34 J1 '61.

(MIRA 14:6)

1. Sekretar' Moskovskogo obkoma profsoyuza rabochikh metallurgi-
cheskoy promyshlennosti.

(Electrostal'--Electrometallurgy)

CHUSOV, B.

"Lepse" plant. Metallurg 6 no.7:34-35 J1 '61.

(MIRA 14:6)

1. Sekretar' Moskovskogo obkoma profsoyuza rabochikh metallurgi-
cheskoy promyshlennosti.
(Moscow Province--Metallurgical plants)

CHUSOV, B.

With metallurgists of the Moscow region. Metallurg 7 no.2:
38-39 F '62. (MIRA 15:3)

1. Sekretar' Moskovskogo oblastnogo komiteta profsoyuza
rabochikh metallurgicheskoy promyshlennosti.
(Moscow Province--Metallurgy)

GHUSOV, B.

For a high labor productivity; on the 30th anniversary of the
beginning of the Stakhanov movement. Metallurg 10 no.8:1-2 Ag
'65. (MIRA 18:8)

1. Tsentral'nyy komitet professional'nogo soyuza rabochikh
metallurgicheskoy promyshlennosti.

CHUSOV, B.A.

Economy, care and cost reduction. Metallurg 6 no.2:1-2 F '61.

1. Sekretar' Moskovskogo obkoma profsoyuza rabochikh metallurgicheskoy
promyshlennosti.
(Metallurgical plants—Accounting)

CHUSOV, B.A.

For communist labor, living conditions, and culture. Metallurg
9 no.6:34-35 Je '64. (MIRA 17:9)

1. Tsentral'nyy komitet professional'nogo soyuza rabochikh
metallurgicheskoy promyshlennosti.

CHUSOV, D.

Problemy tret'ei piatiletki. [The problems of the third five-year plan].
(Grazhdanskaia aviatsiia, 1938, no. 9, p. 4-8, illus.).

DLC: TL504.G7

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

CHUSOV, F.P.

BARDIN, I.P.; BORISOV, A.F.; BELAN, R.V.; YERMOLAYEV, G.I.; VAYSBERG, L.E.;
ZHEREBIN, B.N.; BORODULIN, A.I.; SHAROV, G.V.; DOMNITSKIY, I.F.; CHUSOV, F.P.
SOROKO, L.N.; KLIMASENKO, L.S.; PAVLOVSKIY, S.I.; ZIL'BERSHTAYN, M.B.;
LYULENKOV, I.S.; NIKULINSKIY, I.D.; BRAGINSKIY, I.A.; SALOV, Ye.M.;
TROSHIN, N.F.; PETRIKEYEV, V.I.; ARGUNOV, M.I.; DUL'NEV, F.S.; BIDULYA, L.N.
GAYNANOV, S.A.; FROLOV, N.P.; VINICHENKO, V.S.; KOGAN, Ye.A.

G.E. Kazarnovskii; obituary. Stal' 15 no.8:757 Ag'55. (MIRA 8:11)
(Kazarnovskii, Grigori Efimovich, 1887-1955)

DUBININ, N.; CHUSOV, P.

Manufacture of electric equipment. Prom.energ.11 no.9:35-36 S
'56. (MLRA 9:11)

1. Zamestitel' nachal'nika Planovogo otdela (for Dubinin) i
zamestitel' nachal'nika Tekhnicheskogo upravleniya (for Chu-
sov).

(Electric machinery industry)

ALEKSENKO, G.V.; SYROMYATNIKOV, I.A.; NEKRASOV, A.M.; KRIKUNCHIK, A.B.;
RABINOVICH, S.I.; CHUSOV, P.P.; CHERTIN, A.M.; BULGAKOV, N.I.;
BRITCHUK, V.V.; MAN'KIN, E.A.; PANOV, A.V.; SAPOZHNIKOV, A.V.;
SAGALOV, M.I.; VOYEVODIN, I.D.; ANTONOV, I.A.;
KALINICHENKO, I.S.; KRAYZ, A.G.

L.M. Shnitser; on his 75th birthday. Elektrichestvo no.11:87-
88 N '63. (MIRA 16:11)

36574
S/123/62/000/007/006/016
A004/A101

1.4000

AUTHORS: Ostrovskiy, I. M., Chusov, V. A.

TITLE: On the possibility of manufacturing cyanided dies from grade 40 steel

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1962, 17, abstract
7B81 ("Izv. Irkutskogo s.-kh. in-ta", 1960, no. 16, 123-133)

TEXT: The authors describe the practice of manufacturing dinking dies from structural steel with subsequent gas cyaniding. Punches and dies of various profiles made of grade 40 steel were subjected to cyaniding at 850°C with subsequent water-quenching. The depth of the cyanided layer for various punches amounted to 0.52 - 0.62 mm. As a result of the tests it was found that a destruction of the working edges of the punch takes place at a load of not less than 558 kg per running mm of the punch working blade. The microhardness of the cyanided layer was HRC 62 - 64 with a smooth transition from the periphery to the center. The authors present industrial-scale tests of dies made of the 40X (40Kh) grade steel with subsequent gas cyaniding and water-quenching (HRC 63 - 64). During the punching of disks 52 mm in diameter from grade 2 steel 1 mm in

Card 1/2

S/123/62/000/007/006/016
A004/A101

On the possibility of manufacturing ...

thickness, the service life of the punches after each sharpening amounted to 18,400 - 22,400 blanks, i.e. it was higher than that of У 10А (U10A) grade steel punches by a factor of 2 - 3. There are 7 figures and 5 references.

Ya. Golombik

[Abstracter's note: Complete translation]

Card 2/2

CHUSOV, V. L. G.

16

Alcohol losses with the malt grains and low wine in distilling. V. Chusov. *Sporo-Pedochmysi Prom.* 16, No. 3, 7-10(1939). The alc. content of malt grains at a distn. temp. of 98° is approx. 0.15 wt.-% when a single still is used, 0.015 wt.-% with a double still and 0.003 wt.-% with a triple still. Improved app. for minimizing distn. losses is described and illustrated. Liquid entrainment in the vapor is largely prevented and optimum evapn. surface is provided.
Julian F. Smith

ASIA-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 3RD AND 4TH ORDERS

CHUSOV, V. (G) 16

ca

Measuring steam expenditure in mash distillation. V. Chusov—*Spirto-Vodochaya Prom.* 16, No. 11, 15-19 (1939).—A simplified method for calcn. of steam consumption is based on the solid content of the mash. Equations are derived and sample calcns. are presented.
Julian F. Smith

COMMON ELEMENTS

MATERIALS INDEX

ARR-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNOPSIS SECTION LIST ONE ONLY LIST

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

CHUSOV, V.G.

MALCHENKO, A.L.; CHISTYAKOV, V.P.; CHUSOV, V.G.

Malt crushers of new design. Spirt.prom. 20 no.3:8-14'54. (MLRA 7:10)
(Grain milling machinery)

CHUSOV, V.G.

"Utilization of waste steam in food industry." V.M.Stabnikov.
Reviewed by V.G.Chusov. Spirt.prom. 20 no.3:44 '54. (MLRA 7:10)
(Stabnikov, V.M.) (Steam engineering)

CHUSOV, V.G.

Operation of a three-column rectifying unit. Spirt.prom.21
no.3:21-23 '55. (MIRA 8:12)

1. Vsesoyuznyy Nauchno-issledovatel'skiy institut spirtovoy pro-
myshlennosti
(Distillation apparatus)

CHUSOV, V.G.

Investigating the methods of separating the solid fraction of the
waste from distilling grain and potatoes. Trudy TSNIISP no.6:
31-43 '58. (MIRA 14:12)
(Distilling industries--By-products)

CHUSOV, V.G.

Fractional dehydration of distiller's waste. Trudy TSNIISP no.6:
44-48 '58. (MIRA 14:12)
(Distilling industries--By-products)

CHUSOV, V.G. ; ZOLOTOV, Yu.I.

Testing and improving a uniflow disk-knife grinder. Trudy TSMIISP
no.7:101-105 '59. (MIRA 13:9)

(Grinding machines)

CHUSOV, V.G.; AGANESOVA, L.N.

Selection of a type of vacuum pump for the vacuum cooling of
cooked mash. Trudy TSNIISP no. 8:69-76 '59. (MIRA 14:1)
(Vacuum pumps)

GHUSOV, V.G.

"Installation and operation of production lines at liquor
and vodka plants". Spirt.prom. 26 no.3:41 '60. (MIRA 13:11)
(Liquor industry)

FERTMAN, G. I.; CHUSOV, V. G.

"Technological equipment of fermentation industries" by V. I. Popov and others. Reviewed by G. I. Fertman, V. G. Chusov. Spirt. prom. 28 no.8:38-39 '62. (MIRA 16:1)

(~~Fermentation~~—Equipment and supplies)
(Popov, V. I.)

CHUSOV, V. I. 192h.

Suspended push conveyors. Mekh. i avtom. proz. 16 no. 5:12-19
'62.

(MIRA 16:5)

(Conveying machinery)

CHUSOV, V.L.

[Topographical drawing] Topograficheskoe cherchenie. Moskva, Izd-vo
geodesicheskoi i kartograficheskoi lit-ry, 1953. 96 p. (MLRA 6:11)
(Topographical drawing)

CHUSOV, Vladimir, Luk'yanovich; SUKHOV, V.I., prof., retsenzent; SELIKHANOVICH,
~~V.G., dotsent, red.; SHAMAROVA, T.A., red.izd-va; ROMANOVA, V.V.,~~
tekhn.red.

[Topographical drawing] Topograficheskoe cherchenie. Izd.2.,
ispr. i dop. Moskva, Izd-vo geodex.lit-ry, 1958. 115 p.
(Topographical drawing) (MIRA 12:2)

IVANOV, K.P.; MAKAROVA, A.R.; NASLEDOVA, N.I.; RUTTENBURG, S.O.; CHISOV, Yu.N.

Physiological shifts in the human organism due to repeated cooling. Opyt izuch. reg. fiziol. funk. 6:199-204 '63

(MIRA 17:3)

1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR i gruppa fiziologii truda (rukovoditel' - S.O.Ruttenburg) Instituta gigiyeny truda i professional'nykh zabolevaniy (dir. Z.E. Grigor'yev).

BABOV, D.M., dotsent; ~~NADVORNYY~~, H.N.; CHUSOV, Yu.N.

Detection and survival of pathogenic serotypes of Escherichia coli in sewage and in soil. Vrach. delo no. 8:133-134 Ag'63.
(MIRA 16:9)

1. Kafedra obshechey gigiyeny (zav. - prof. A.F.Stoyanovskiy)
Odesskogo meditsinskogo instituta.
(ESCHERICHIA COLI)

The rate of skin temperature restoration after exposure to cold is a satisfactory indicator of the organism's resistance to cold.

Hygiene i sanitariya, no. 10, 1964, 112-113

1964, 112-113: heat biologic effect, medical experiment, human physiology, skin temperature, animal

... of an experimental group of 20 swimmers and 20 non-swimmers of the age group 25 and 40, 14 of whom had practiced winter swimming in icy water for at least 1 1/2 years prior to the tests. The rate of restoration of skin temperature and the temperature of the body after and each minute after that...

restoration in swimmers occurred twice as fast, on the average, as in the non-swimmer or control group. This fact is attributed to the effect of the training on the body's heat-regulating mechanism. It is concluded that the rate of skin temperature restoration after exposure to cold is a satisfactory indicator of the organism's resistance to cold.

SECRET

SECRET

SECRET

SECRET

SECRET

84672

5.4700

2209, 1360, 1018 only

S/020/60/134/006/015/031
B016/B067

AUTHORS:

Gerasimov, Ya. I., Corresponding Member AS USSR,
Vasil'yeva, I. A., Chusova, T. P., Geyderikh, V. A., and
Timofeyeva, M. A.

TITLE:

Study of the Thermodynamics of Lower Oxides of Tungsten
by the Method of Electromotive Force at High Temperatures

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 6,
pp. 1350-1352

TEXT: The authors point to the shortcomings in determining thermodynamic functions of the formation of tungsten oxides, and they suggest that another method be used irrespective of the values for water vapor. They chose the method of electromotive force (emf) (Refs. 3-6) which they modified to some degree. The authors carried out their experiments in the vacuum in a special metal cell which was insulated with molten quartz. The solid solution $0.85 \text{ ZrO}_2 + 0.15 \text{ CaO}$ served as electrolyte with anionic conductivity. The authors measured the emf of the cells of

UX

Card 1/4

84672

Study of the Thermodynamics of Lower Oxides of Tungsten by the Method of Electromotive Force at High Temperatures S/020/60/134/006/015/031
B016/B067

the type $WO_x | ZrO_2CaO | Fe_{0.95}O \cdot Fe$ between 900 and 1230°K, with $x = 2.719$ (1); 2.66 (2); 2.39 (3); 1.90 (4); 1.69 (5), and 1.45 (6). The oxides of the mentioned composition were produced by reducing the low-temperature modification of $WO_3-\alpha$ (Ref. 2) by means of hydrogen. The first three compositions correspond to a mixture of the phases $WO_{2.72}$ and WO_2 , the latter to the mixture WO_2 and W. The mixture $Fe_{0.95}O + Fe$ served as standard electrode. The experimental values of emf of the cells 1. - 3. and 4. - 6. are described by equation (1) and (2), respectively. The combination of the ΔG of the cells (1,2) which were calculated on the basis of a known equation with the ΔG of the formation of $Fe_{0.95}O$ from the elements (data by W. Lange, Ref. 7) yields the following equation for the reaction $1/2 W + 1/2 O_2 = 1/2 WO_2$ (I).

$$\Delta G_1 = -68542 - 7.21 T \log T + 1.26 \cdot 10^{-3} T^2 - 0.47 \cdot 10^5 T^{-1} + 40.62T$$

(943 - 1230°K).

The values of ΔG_1 between 973 and 1273°K calculated on the basis of this

84672

Study of the Thermodynamics of Lower Oxides
of Tungsten by the Method of Electromotive
Force at High Temperatures

S/020/60/134/006/015/031
B016/B067

equation, as well as the values ΔG_1^\ddagger for the reaction (I) for these temperatures which the authors obtained earlier from the equilibrium data (Ref. 2) are shown in Table 1. An equation (II) is introduced for the ΔG_2 of the reaction $100/72 \text{ WO}_2 + 1/2 \text{ O}_2 = 100/72 \text{ WO}_{2.72}$ (900 - 1173°K). The ΔG_2 values between 923 and 1173°K calculated therefrom are given in Table 2. A combination of reaction (I) and/or (II) gives a further equation for the reaction $\text{W} + 1.36 \text{ O}_2 = \text{WO}_{2.72}$ (III). To calculate the standard thermodynamical values, the authors used the thermal capacities of O_2 and of W (Ref. 8), while for WO_2 they used equation $c_p = 17.83 + 1.89 \cdot 10^{-3} T - 3.342 \cdot 10^{-5} T^{-2}$. The latter was derived on the basis of the value c_p 298 for WO_2 (Ref. 9), of the c_p values for solids at the conversion temperature and the average values for oxides UO_2 , VO_2 , and ThO_2 . Using these values for the reaction $\text{W} + \text{O}_2 = \text{WO}_2$ (IV),

Card 3/4

84672

Study of the Thermodynamics of Lower Oxides
of Tungsten by the Method of Electromotive
Force at High Temperatures

S/O20/60/134/006/015/031
B016/B067

the authors obtain the equation for ΔG_T :

$$\Delta G_T = -136.6 - T(4.66M_0 + 0.21M_1 - 2.44M_{-2}) + 41.7T. (M_0, M_1, M_{-2} \text{ are}$$

the coefficients of the equation of M. I. Temkin-L. A. Shvartsman,
Ref. 12). It follows therefrom: $\Delta H_{298}^0 = -136.6 \pm 2 \text{ kcal};$

$\Delta S_{298}^0 = -41.7 \pm 1.5 \text{ e.u.}; \Delta G_{298}^0 = -124 \pm 2 \text{ kcal.}$ By using the value of
 S_{298}^0 for W the authors obtain: $S_{298}^0 = 15.0 \pm 1.5 \text{ e.u.}$ For the purpose of

comparison Table 3 shows some publication data for the thermodynamic
functions of the formation of WO_2 from elements under standard conditions.

There are 3 tables and 17 references: 5 Soviet, 7 US, 2 French, and
3 German.

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

SUBMITTED: June 3, 1960

Card 4/4

GERASIMOV, Ya.I.; VASIL'YEVA, I.A.; CHUSOVA, T.P.; GEYDERIKH, V.A.;
TIMOFEYEVA, M.A.

High-temperature study of the thermodynamics of lower tungsten oxides
by the e.m.f. method. Dokl. AN SSSR 134 no.6:1350-1352 0 '60.

(MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
2. Chlen-korrespondent AN SSSR (for Gerasimov)
(Tungsten oxide)

KUZNETSOV, F.A.; DIDORA, N.F.; CHUSOVA, T.P.; ARTAMONOVA, S.M.

Electrode function of the carbon oxide electrode $\text{Nd}_2\text{O}_3 - \text{C} - \text{CO}_2$
in chloride melts containing trivalent neodymium chloride. Izv.
SO AN SSSR no.7 Ser. khim. nauk no.2:10-14 '64 (MIRA 18:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN
SSSR, Novosibirsk.

KAPITANOPULLO, Yu.N.; MUKHIN, V.V.; ITSKOVICH, Ya.S.; DUBOVA, B.I.;
CHUSOVA, T.Ya.

Testing the TsNIIKHP-KS-1-57 conveyor dryer. Trudy TSNIIKHP
no.8:74-77 '60. (MIRA 15:8)
(Drying apparatus)

BABAYANTS, R.S.; BLAGOVESHCHENSKAYA, V.V.; VERGILESOVA, O.S.; VISSONOV, Yu.V.;
VYALOVA, N.A.; GLAZUNOV, I.S.; DRUTMAN, R.D.; KLEMPARSKAYA, N.N.;
KOTOVA, E.S.; KURSHAKOV, N.A., prof.; LARCHEVA, L.P.; LYSKOVA, M.N.;
MALYSHEVA, M.S.; PETUSHKOV, V.N.; RYNKOVA, N.N.; SOKOLOVA, I.I.;
STUDENIKINA, L.A.; CHUSOVA, V.N.; SHESTIKHINA, O.N.; SHULYATIKOVA,
A.Ya.; SHTUKKENBERG, Yu.M.; BARANOVA, Ye.F., red.

[Acute radiation lesion in man] Ostrala radiatsionnaia travma
u cheloveka. Moskva, Meditsina, 1965. 313 p.

(MIRA 18:9)

1. Chlen-korrespondent AMN SSSR (for Kurshakov).

PICHUGIN, V.G., inzh.; CHUSOVITIN, G.A., inzh.

Optimal volume of natural stone blocks. Stroi. mat. 11
no.1:7-8 Ja '65. (MIRA 18:6)

18.3200

77602
SOV/133-60-2-2/25

AUTHORS: Shumakov, L. G., and Chusovitin, G. I. (Engineers)

TITLE: Experimental Smelting of Ferromanganese in a Large Blast Furnace

PERIODICAL: Stal', 1960, Nr 2, pp 104-107 (USSR)

ABSTRACT: The experimental smelting of ferromanganese has shown that application of acid slag, high-temperature blast and high pressure of top gas permitted the obtaining of high technical and economical performance figures. The smelting of Chiabura manganese ore was done in a blast furnace with the useful volume of 1,000 m³. The ore has the following composition

a) Chemicals:

Mn	MnO ₂	MnO	P	S	Fe
44,25	45,8	19,8	0,18	0,32	3,25
SiO ₂	Al ₂ O ₃	CaO	MgO	H ₂ O	
12,05	3,32	2,67	0,87	5,74	

b) Granulometric

Fraction, mm.	0-5	5-10	10-25	>25
Content, %	46,7	26,3	17,1	9,9

Card 1/4

Experimental Smelting of Ferromanganese
in a Large Blast Furnace

77602

SOV/133-60-2-2/25

Limestone with 54.5-55.0% CaO (free from sulfur and phosphorus) was added to the charge. Smelting was conducted on coke with 12.8% ash content and 0.54% sulfur. The established method of steady and smooth operation of the furnace is characterized by the following performance figures: (1) The average daily production of cast iron, ton: liquid, 465; pig, 448. (2) Consumption kg/ton of liquid cast iron: dry coke, 1462; ore, 2281; limestone, 528; metal additions, 248. (3) Blast parameters: blast consumption (M^3/min), 1524; pressure (atm/gage), 1.42; temperature (C), 874; moisture (gr/m^3), 4.5. (4) Parameters of blast furnace gas: pressure (atm/gage), 0.57; temperature (C) 347; gas content, (%), CO_2 - 6,9, CO - 32, 9. (5) amount of slag Kg/ton of cast iron, 953. (6) Amount of dust Kg/ton of cast iron, 108. Composition of melt products, %: (a) ferromanganese: C, 7.05; Mn, 76.1; Si, 0.93; S, 0.013; P, 0.38; (6) slag: SiO_2 , 32.5; Al_2O_3 , 12.3; CaO, 34.4; MgO, 2.3; MnO, 17.2. Basicity of acid slag

Card 2/4

Experimental Smelting of Ferromanganese
in a Large Blast Furnace

77602
SOV/133-60-2-2/25

is 0.98-1.08% and manganous oxide content 15.0-21.5%. The relationship between MnO contents in slag and its basicity ($\text{CaO}:\text{SiO}_2$) is shown in Fig. 3. The comparison of different heat balances shows that the general heat consumption when working on acid slags is at a minimum, and heat utilization efficiency rather high. As a result of smelting ferromanganese with acid slags (the sum of $\text{SiO}_2 + \text{Al}_2\text{O}_3$ is about 45%). The total loss of manganese is decreased and the degree of its utilization is increased in comparison to smelting with basic slags. The whole process is more economical in spite of the fact that oxygen blast was not used. There are 3 tables; 3 figures; and 4 Soviet references.

Card 3/4

Experimental Smelting of Ferromanganese
in a Large Blast Furnace

77602
SOV/133-60-2-2/25

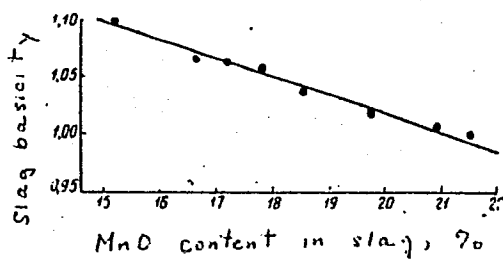


Fig. 3. The relationship between MnO contents in slag and its basicity ($\text{CaO}:\text{SiO}_2$).

Card 4/4

CHUSOVITIN, A. M.

TIMOFEYEV, V. N.; SHKLYAR, F. R.; PALTUSOVA, K. I.; Primalni uchastiye:
PAKHALUYEV, K. M., inzh.; IZMAYLOV, O. A., inzh.; CHUSOVITIN,
A. M., inzh.; GORDEYEV, S. V., inzh.; RUZHENTSEVA, T. M.,
laborant; GERASIMOV, G. I., laborant

Aerodynamics of blast furnace air preheaters. Sbor. nauch.
trud. VNIIMT no.8:302-347 '62. (MIRA 16:1)

(Blast furnaces)

(Air preheaters—Aerodynamics)

CHUSOVITIN, N.A.

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.;
 BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVY, G.A.; BULEV, M.Z.; BURAKOV,
 N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;
 GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT,
 Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.;
 GORBACHEV, V.N.; GRZHB, B.V.; GREKULOV, L.F., kand. s.-kh. nauk;
 GRODZHENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,
 Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK,
 A.P.; ZENKOVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;
 KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.;
 KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;
 KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;
 LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSKOVICH, K.F.; MEL'NICHENKO,
 K.I.; MENDEL'EVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;
 MUSIYEVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.;
 OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,
 G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; RIMZOV, N.P.;
 ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.;
 RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;
 SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,
 Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRISOVA,
 Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;
 TSISHEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHLEV, A.A.; CHUSOVITIN,
N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,
 I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A.; ARKHANGEL'SKIY,
 (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRZHKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; BAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,
tekhn. red.; GEMKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.
red.

[Volga-Don; technical account of the construction of the V.I. Lenin
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-
struction. Specialized operations in hydraulic engineering] Orga-
nizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.

(Continued on next card)

ANDON'YEV, V.I.... (continued) Card 4.

Glav. red. S. I. A. Zhuk. Red. toma I. N. Kostrov. 1958. 319 p.
(MIRA 11:9)

1. Russia (1923- . U.S.S.R.) Ministerstvo elektrostantsii. Byuro
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-kor-
respondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy
chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin,
Razin).

(Volga Don Canal--Hydraulic engineering)

CHUSOVITINA, L.S.

Early euryhaline ability of sturgeons and the adaptive function of chloride secreting cells in their gills. Dokl. AN SSSR 151
no.2:441-442 J1 '63. (MIRA 16:7)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom Ye.N.Pavlovskim.
(Sturgeons) (Salinity)

Chusovitina, Ye. I.

BELOV, N.S.; BIRYUKOV, I.V.; VERBLYUDOV, N.N.; GORBUNOVA, M.N.; YESIPOVA, M.M.;
IL'ICHEV, A.I.; IGNAT'YEVA, N.Ya.; KOVACHEVICH, P.M.; LYTKIN, A.M.;
LOSKUTOV, V.G.; MAZYUKOV, A.S.; MIROSHNICHENKO, N.Ya.; NEFEDOV, A.Ya.;
OSIPOV, K.V.; OSIPOV, P.M.; PETROV, N.G.; PETRACHKOV, M.I.;
PINEVICH, K.M.; POPOV, B.E.; POTAPOV, P.V.; PREDEIN, F.Ye.; PUKHOV, A.F.;
CHUSOVITINA, Ye. I.; ANGEL'SKIY, N., tekhn.red.

[The Kuznetsk Basin in the sixth five-year plan] Kuzbass v shestoi
piatiletke. [Kemerovo] Kemerovskoe knizhnoe izd-vo, 1956. 125 p.
(MIRA 10:12)

(Kuznetsk Basin)

CHUSTALEW, A. A.

"Cwiczenie z higieny" (Exercises in hygiene), by A. A. Chustalew. Reported
in New Books (Nowe Książki), No. 11, June 1, 1956.

ALTYOVA, F.Z.; VASIL'YOVA, N.S.; CHEMERASOVA, E.G.; CHUSTYAROV, V.A.

Study of semiconductor thermistors. Nov. nauch.-issl. rab.
po metr. VNIIM no.3:12-14 '64 (MIRA 18:2)

Chuta, F.

CZECHOSLOVAKIA/ Analytical Chemistry. Analysis of Inorganic Substances. G-2

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27209.

Author : F. Chuta, Z. Burianets.

Title : Preparation of Gas Mixtures of Hydrogen with Traces of Hydrogen Sulfide for Gas Analysis.

Orig Pub: Sb. chekosl. khim. rabot, 1955, 20, No. 4, 962 - 967.

Abstract: See RZhKhim, 1956, 10122.

Card 1/1

MATOUSHEK, Iozef [Matousek, Josef]; CHUTA, Ya. [Cuta, J.] tekhnicheskiy sotrudnik; GLAZROVA, Z. [Glasrova, Z.], tekhnicheskiy sotrudnik; GORZHAKOVA, I. [Horzakova, I.], tekhnicheskiy sotrudnik; MATOUSHKOVA, V. [Matouskova, V.]; tekhnicheskiy sotrudnik; SHAKHOVA, G. [Sachova, G.], tekhnicheskiy sotrudnik

Preparation of immune serums for determining the group antigens in the blood of red and white cattle. Zhur. ob. biol. 24 no.1:50-63 Ja-F'63 (MIRA 16:11)

1. Laboratoriya biologii razmnozheniya sel'skokhozyaystvennykh zhivotnykh Chekhoslovatskaya akademiya sel'skokhozyaystvennykh nauk, Iubekhov, Chekhoslovatskaya Sotsialisticheskaya Republika.

*

CHUTAROV GI

6

14992 Reduction of Oxides of Iron With Graphite. V. I. ~~Arturov, Y. N. Boycelovskii, M. G. Zhuravleva, and G. I. Chutarov. Henry Brucher Translation No. 3570, 12 p. Abstracted from Zhurnal fizicheskoi khimii, v. 29, no. 2, 1955, p. 272-279. Henry Brucher, Altadena, Calif. Previously abstracted from original. See item 9341, v. 4, July 1955.~~

3
JA JW

CHUTAROV, G. I.

KEYS, N.V.; SINITSYN, A.A.; POZDNY SHEV, V.M.; SAMARIN, A.P.; YARTSEVA, T.N.;
Prinimali uchastiye: BENDOVSKIY, B.M.; CHUTCHEV, I.I.; KOMPANIYETS, N.V.;
OTKISHCHENKO, N.I.; KHARITONOVA, V.V.; TOROPOV, F.S.

Making ingot molds and other castings of cast iron with spheroidal
graphite at the Chelyabinsk Metallurgical Plant. Stal' 23 no.4:381-383
Ap '63. (MIRA 16:4)

(Iron founding)

(Ingot molds)

CHUTKERASHVILI, T.V.

AID P - 4623

Subject : USSR/Aeronautics - maintenance

Card 1/1 Pub. 135 - 12/23

Author : Chutkerashvili, T. V.

Title : The effect of shock-absorber charge on the operation of landing gear.

Periodical : Vest. vozd. flota, 4, 61-64, Ap 1956

Abstract : The proper charging of the shock-absorber of the landing gear and its effect on the landing gear operation is described in detail. One sketch and 3 graphs.

Institution : None

Submitted : No date

LISICHKIN, S.M., doktor ekonom.nauk, glavnyy red.; PROSKURYAKOV, A.V.,
kand.tekhn.nauk, red.; ARUTYUNOV, N.B., red.; TOMASHPOL'SKIY,
L.M., red.; POPOV, I.V., kand.ekonom.nauk, red.; CHUTKERASHVILI
Ya. V., kand.ekonom.nauk, red.; DENISOVA, L.L., red.; DOBRITSYNA,
R.I., tekhn.red.

[Belgium; brief economic-statistical survey] Bel'gija; kratkii
ekonomiko-statisticheskii obzor. Moskva, 1959. 125 p.

(MIRA 12:11)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii. 2. Vse-
soyuznyy tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii (TsNII Chernet) (for Arutyunov).

(Belgium--Economic conditions)

LISICHKINA, S.M., obshchiy red.; TOMASHPOL'SKIY, L.M., obshchiy red.;
CHUTKBRASHVILI, Ye.V., obshchiy red.; KARYAGIN, I.D., red.;
KIR'YANOVA, Z.V., red.; MATVEYEV, P.V., red.; MOTORIN, A.I., red.;
POPOV, I.V., red.; POPOV, N.N., red.; PROSKURYAKOV, A.V., red.;
SOKOLOV, Yu.S., red.; STUPOV, I.D., red.; BELYAVSKIY, A.M., red.;
GRAZHUL', V.S., red.; DANILOV, N.N., red.; RAKHMANINOV, G.I., red.;
SHEVCHENKO, G.A., tekhn.red.

[Development of the national economy of the German Democratic
Republic] Razvitie narodnogo khoziaistva Germanskoi Demokrati-
cheskoi Respubliki. Moskva, Proizvodstvenno-izdatel'skii kombi-
nat VINITI, 1959. 906 p. (MIRA 13:4)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii.
(Germany, East--Economic conditions)

PROSKURYAKOV, A.V., kand.tekhn.nauk; red.; POPOV, I.V., kand.ekonom.nauk,
red.; TOMASHPOL'SKIY, L.M., kand.ekonom.nauk, red.; GOLOVINSEIY,
G.P., kand.tekhn.nauk, red.; SOKOLOV, Yu.S., kand.ekonom.nauk,
red.; CHUTKBRASHVILI, Ye.V., kand.ekonom.nauk, red.; BERMEN'YEVA,
S.I., red.; ZAKHAROVA, L.S., red.; KOLCHINA, V.I., red.; POSPELOV,
Yu.S., red.; SMERTINA, N.I., red.; SOBOLEVA, N.M., tekhn.red.

[Great Britain; economic survey] Velikobritaniia; ekonomicheskii
obzor. Moskva, 1960. 658 p. (MIRA 13:5)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy infor-
matsii.

(Great Britain--Economic conditions)

CHUTKERASHVILI, YEVGENIY VASIL'YEVICH

RAZVITIYE VYSSHEGO OBRAZOVANIYA V SSR. MOSKVA,
GOS. IZD-VO "VYSSHAYA SHKOLA", 1961.

238 p. TABLES.

BIBLIOGRAPHICAL FOOTNOTES.

CHUTKINA, A.V.

Pathological anatomy of encephalomyocarditis in newborn infants
caused by the Cocksackie virus. Zdrav.Bel. 8 no.12:39-42 D '62.
(MIRA 16:1)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. Yu.V.
Gul'kevich) Minskogo meditsinskogo instituta (rektor - dotsent
A.A.Klyucharev).

(COXSACKIE VIRUSES) (MINSK--ENCEPHALOMYELITIS)
(MINSK--HEART--DISEASES)

L 29673-66 EWP(j)/EWT(1)/EWT(m)/T IJP(c) RM/DS/MW/JXT(EX)
ACC NR: AT6012697 SOURCE CODE: UR/3163/65/000/007/0050/0057

70
68
B+1

AUTHOR: Chutkin, O. A.; Shorokhov, V. N.

ORG: State Committee on the Use of Atomic Energy SSSR, Union Scientific Research
Institute for Instrument Building, Moscow (Gosudarstvenny komitet po ispol'zovani-
yu atomnoy energii SSSR, Soyuznyy nauchno-issledovatel'skiy institut priboro-
stroyeniya)

TITLE: Development of spectrometric method for determining the distribution of
the activity from the depth of Alpha emitters

SOURCE: Soyuznyy nauchno-issledovatel'skiy institut priborostroyeniya. Doklady,
no. 7, 1965. Razvitiye spektrometricheskogo sposoba nakhuzhdeniya zakona raspre-
deleniya aktivnosti po glubine al'fa-izluchateley, 50-57

TOPIC TAGS: Alpha radiation, Alpha spectrum, radioactivity, angular distribution,
pulse height analyzer

ABSTRACT: For an experimental determination of the law governing the distribution
of α activity in the interior of materials the authors used the type 9014-01 α
spectrometer with pulsed ionization chamber with grid. This spectrometer, which
is now being readied for regular production, was described by one of the authors
elsewhere (Chitkin, with V. F. Bolotin, Informatsionny byulleten' SNIIP, 1965,

Card 1/2

UDC: 539.1.078: 539.128.4

L 29673-66

ACC NR: AT6012697

2

No. 1 (73), p. 3). The theory of the methods and the main formulas are described by the authors in a companion paper in the same source (p. 49). In this method the distribution of the α activity within the emitting substance is obtained from the pulse-height spectrum of pulses from a sample placed in the spectroscopic α transmitter. The distribution of activity over the depth is obtained by successively multiplying the pulse-height spectrum by a certain matrix $[G]^{-1}$, which eliminates the smearing of the spectrum by the recording apparatus, and a matrix $[B]^{-1}$, which relates the energy of the α particles with their range in the emitter and with the location of the active center. The matrix $[B]$ converts the distribution of the activity in depth into a range (energy) spectrum of α particles over the emitter, and the matrix $[G]$ converts the energy spectrum of the α particles into a pulse-height spectrum. To construct the matrix $[b]$, the authors determined experimentally the dependence of the α particles from Pu^{239} on the thickness of an absorber of fixed thickness. The values of the matrix and its inverse are calculated and are used to determine the distribution of α activity in cloth filters used to strain an aerosol containing Pu^{239} . Several types of cloth filters were tested and the α particle spectra of their emission determined. It is noted in the conclusion that a shortcoming of the method is the fact that the matrices $[B]$ and $[B]^{-1}$ were prepared for a different substance (Pu^{239} in terylene, and its use for other material may lead to errors. Orig. art. has: 6 figures. 15

SC: 20/ SUBM DATE: 03Nov65/ ORIG REF: 002
Card 2/2 201

L 2897-66 EWT(m) DIAAP

ACCESSION NR: AT5022115

UR/3163/65/000/001/0001/0011
539.1.078:539.128.4

20
17
84

AUTHORS: Bolotin, V. F.; Chutkin, O. A.

TITLE: Ionizing spectrometer of type 9014-01 for alpha-radiation and its application in the determination of small concentrations of alpha-active isotopes in aerosols

SOURCE: Soyuznyy nauchno-issledovatel'skiy institut priborostroyeniya. Doklady, no. 1, 1965. Ionizatsionnyy spektrometr al'fa-izlucheniya tipa 9014-01 i yego primeneniya dlya izmereniya malykh kontsentratsiy aerorozley al'fa-aktivnykh izotopov, 1-11

TOPIC TAGS: alpha counter, alpha particle detector, alpha particle spectroscopy, aerosol, uranium, plutonium/ 9014 01 ionizing spectrometer

ABSTRACT: The construction of the type 9014-01 ionizing spectrometer for alpha-radiation and its industrial application in the determination of small concentrations of alpha-active isotopes in aerosols are described. Diagrams of the ionizing chamber, preamplifier, and a block diagram for the installation are presented. The spectrometer was tested on artificially prepared aerosols of U²³⁴ and Pu²⁹⁹ of known concentration. The experimental results are shown graphically in Fig. 1 on the Enclosure. It is suggested that the spectrometer should prove useful in the

Card 1/3

L 2897-66

ACCESSION NR: AT5022115

3
monitoring of the maximum permissible concentration of alpha-active isotopes in the atmosphere of industrial and population centers. The authors thank A. D. Verevkin for his help in the design of the preamplifier and V. Ye. Vishnyakov for his participation in the experimental measurements. Orig. art. has: 5 graphs and 1 equation.

ASSOCIATION: Soyuzny nauchno-issledovatel'skiy institut priborostroyeniya (Union Research Institute for Scientific Instruments)

SUBMITTED: 18Nov64

ENCL: 01

SUB CODE: NP

NO REF SOV: 000

OTHER: 000

L 2897-66

ACCESSION NR: AT5022115

ENCLOSURE: 01

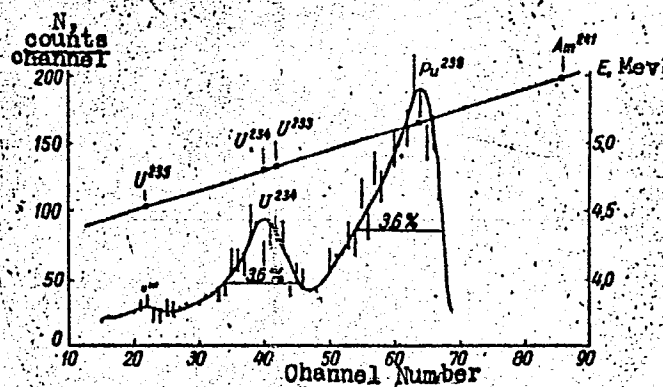


Fig. 1. Spectrum of alpha-radiation of aerosol particles of uranium (.) dots, standard source (O) open circles, and calibration curve of the installation (Δ) triangles

Card ^{KA} 3/3

L 11322-67 EWT(1)/EWT(m) RO
ACC NR: AR6017635 SOURCE CODE: UR/0272/66/C30/001/0161/0161

AUTHOR: Bolotin, V. F.; Ryabov, N. V.; Chutkin, O. A. 27

TITLE: On the problem of compensating natural background beta-radioactivity in measuring small concentrations of artificial beta-radioactive aerosols 6

SOURCE: Ref. zh. Metrol. i izmerit. tekhn., Abs. 1.32.1217

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr., vyp. 2, 1965, 106-113

TOPIC TAGS: radioactive aerosol, radioactivity measurement, beta radiation, alpha radiation

ABSTRACT: An improved method is described for measuring the α -radioactivity^{9M} of a filter by using an α -spectrometer consisting of a spectrometric α -radiation pickup and a two-channel amplitude analyzer which may be used for isolating the spectral regions for α -radiation of RaC^I and ThC^I . Pulses from α -particles of all other short- and long-lived isotopes are discriminated. Soft ThB - β -radiation is discriminated by a thin film. Compensation of the daughter products of radon and thoron is separate and independent. The method is based on a constant ratio of the β -radioactivity to the α -radioactivity of the daughter products of radon and thoron. A block diagram is described for an experimental instrument which was used in verification of the method. The experimental results are given. 3 illustrations, 5 tables, bibliography of 7 titles. N. Zevina.
[Translation of abstract]

SUB CODE: 18

Card 1/1 bab

UDC: 389:539.16.08

CHUTKO, M.B., Docent, Lieutenant Col Med Serv.

"Pathologoanatomical Changes in the Eye Due to Glass and Stone Fragments
in the Anterior Chamber", Moscow, Vest Oftalmologii, No 2, Mar-Apr '48.
v. 27

Chair of Ophtalmalogy, Mil Med Acad im. Kirov.

CHUTKO M.B.

POLYAK, B.L.; CHUTKO, M.B.

[Gonioscopy in glaucoma and in foreign bodies in the anterior chamber] O gonioskopii pri glaukome i pri inorodnykh telakh v uglu perednei kamery. Vest.oft. 29 no.2:26-31 Mr-Apr '50.
(GLML 19:1)

1. Of the Department of Ophthalmology (Head -- Prof. V.L.Polyak, Colonel, Medical Corps) of the Military Medical Academy imeni S.M.Kirov.

CHUTKO, M. B.

Glass and stone fragments in the ciliary body and vascular
membrane. Vest. oft., Moskva 30 no. 4:37-41 July-Aug. 1951.
(CIML 21:3)

1. Docent; Colonel, Medical Corps. 2. Of the Department of
Ophthalmology (Head — Prof. B. L. Folyak), Military Medical
Academy imeni S. M. Kirov.

CHUTKO, M.B., prof.; SEDLOVSKAYA, Ye.B.

Effect on the eye of oricaine, a new anesthetic preparation. *Oft. zhur.*
13 no.6:372-377 '58. (MIRA 12:1)

1. Iz kafedry oftal'mologii (nach. - B.B. Polyak) Voenno-meditsin-
skoy ordena Lenina akademii im. S.M. Kirova.

(THERAPEUTIC, OPHTHALMOLOGICAL)
(BENZOIC ACID)

CHUTKO, M.B., prof.

Suppurative inflammation (abscess) of the lacrimal caruncle. Vest.
oft. 72 no.4:53-54 J1-Ag '59. (MIRA 13:4)

1. Kafedra oftal'mologii (zav. - prof. B.I. Polyak) Voenno-medi-
tsinskoy ordena Lenina akademii imeni S.M. Kirova.
(LACRIMAL APPARATUS dis.)

CHUTKO, ~~Mikhail Borisovich~~, prof.; BARBEL', I.E., red.; CHUNAYEVA,
Z.V., tekhn. red.

[Glass and stone splinters in the eye] Oskolki stekla i kamnia
v glazu. Izd.2., dop. Leningrad, Medgiz, 1961. 150 p.
(MIRA 15:3)

(EYE—FOREIGN BODIES)

CHUTKO, M.B., prof. (Leningrad)

Biological (physiological glue in opththalmosurgery. Vest.of.
no.3:77-81 '61. (MIRA 14:9)
(EYE--SURGERY) (BLOOD AS FOOD OF MEDICINE)

CHUTKO, M.B., prof.

Glass and stone fragments in the eye. Med. sestra 21 no.2:34-37
F '62. (MIRA 15:3)

1. Iz kafedry oftal'mologii Leningradskogo instituta dlya
usovershenstvovaniya vrachey.

(EYE- FOREIGN BODIES)

CHUTKO, M.B., prof.; IGHAT'YEV, A.N.

So-called "false tumors" of the orbit. Oft. zhur. 18 no.1: 3-7
'63 (MIRA 17:4)

1. Iz kafedry oftal'mologii (nachal'nik - prof. B.L.Polyak)
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

CHUTKO, M.B., prof.; KEROVA, I.K.

Use of urea in ophthalmological practice; review of Soviet ..
an foreign literature, Vestn. oftal. 76 no.4:82-87 JI-Ag'63
(MIRA 17:1)

1. Glaznaya klinika Leningradskogo ordena Lenina instituta
usovershenstvovaniya vrachey.

CHUTNA, J.

Changes in the infiltrate in the healing of wounds. Chekh.biol.2
no.1:44-48 Ap '53. (MIRA 7:2)

1. Biologicheskiy institut ChSAN, biologiya tkaney, Praha.
(Wounds)

CHUTNA, J.

Healing of experimental wounds. Part 1: Certain processes of wound healing under the effect of sleep induced by medication [in Russian with summary in German]. Chekh.biol. 3 no.1:14-22 F '54. (MLRA 7:6)

1. Institut biologii ChSAN, biologiya tkany, Praga. (Wounds) (Sleep)

CHUTNÁ J.

1954, Sect 1 @ SAV

Biol. ústav. ČSAV, biol. tkáni, Praha. *Hojení experimentálních ran. (I. Některé
pochody při hojení ran pod vlivem medikamentosní ho spanku). The influence of
drug-induced sleep on the healing of experimental wounds ČSL. BIOL. 1954, 3/1
(10-16) Graphs 4 Illus. 4 *Surgery*

Mice were narcotized by a urethane-barbiturate preparation. After wounding, leucocytosis in the peripheral blood and the reactive inflammation in the edges of the wound were inhibited during the first days. If the drugs were administered 24 Hr. after wounding, the leucocyte count fell rapidly. In both cases repair was prolonged for 30-40% as compared to the control animals; the necrotic phase lasted longer, the mitotic index was ~~diminished~~ and the formation of granulation tissue and the epithelization were inhibited.

Klein - Bratislava

SO: Excerpta Medica; Section V. Vol. 7 No. 12.

CHUTNA, J. Pri technicheskom sotrudnichestve V. Opartnoi.

Healing of experimental wounds. II. Transformation of cells in wound healing. Gekh. biol. 3 no.3:168-172 Aug 54.

1. Institut biologii ChSAN, biologiya, tkaney, Praga.
(WOUNDS AND INJURIES, experimental, healing, cytol. aspects)

CHUTNA, J.; OPATRNA, V.

Evaluation of the process of the treatment of wounds by the method of pressure
preparation. p. 339

ČESKOSLOVENSKA BIOLOGIE. Vol. 3, No. 6, Nov. 1954

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

CHUTNA, J.; OPATRNA, V.

Evaluation of wound healing using imprint method. Chekh. biol. 3
no.6:359-362 Dec 54.

1. Institut biologif ChSAN, biologiya tkaney, Praga.
(WOUNDS AND INJURIES, experimental,
healing, determ., imprint method)

CRUTINA, J.

Healing of experimental wounds. III. Study on wound healing in
denervated extremities. p. 79.

ČESKOSLOVENSKÁ BIOLOGIE vol. 5, no. 2, Mar. 1956

Czechoslovakia

so. EAST EUROPEAN ACCESSIONS LIST vol. 5, no. 7 July 1956