

S/076/62/036/006/002/011  
B101/B144

Heat losses during explosions...

to  $T_{ex}$ . The value of  $T$  is calculated from the heat balance

$$\sum m_i \Delta E_{T_0} = \sum m_e (E_{T_{ex}} - E_{T_0}) + \sum \Delta m (E_{T_{ex}} - E_{T_0}),$$

where  $m_i$  is the number of reacting moles,  $m_e$  is the number of moles formed after the explosion,  $\Delta m$  is the number of moles of unburnt mixture, and  $T_{ex}$  is the equilibrium temperature of explosion. To check the reaction experimentally,  $H_2 + O_2 + N_2$  or  $H_2 + O_2 + N_2 + H_2O$ , or  $H_2 + O_2 + CO + N_2$  of different compositions were used in a 10 liter bomb of Monel metal (methods described in Zh. fiz. khimii, 33, 58, 1959). Results: (1) For the 10 l bomb,  $c_0$  was 750 atm·cm<sup>2</sup>/deg·mole, this has to be determined for each size of bomb, although an approximate calculation is possible from  $c_{0,1}/c_{0,2} = r_2/r_1$  ( $r$  = bomb radius). The difference was only ~59 cal/mole calculated for a 20 l bomb. (3) The maximum difference in the heat balance does not exceed 170 cal/mole. Thus the suggested method of calculating the equilibrium temperature of the explosion makes it possible to determine accurately the specific heat and thermochemical

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Heat losses during explosions...

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data for gases. There are 2 tables. The most important English-language reference is: E. A. Mason, S. C. Saxena, Phys. Fluids, 1, 361, 1958.

ASSOCIATION: Akademiya nauk SSSR, Institut goryuchikh iskopayemykh  
(Academy of Sciences USSR, Institute of Mineral Fuels)

SUBMITTED: August 15, 1960

Card 3/3

39238

S/076/62/036/007/001/010  
B101/B138

11.5100  
AUTHOR: Baybuz, V. F. (Moscow)

TITLE: Calculation of equilibrium gas compositions for high temperatures

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 7, 1962, 1401-1409

TEXT: The calculation of equilibrium gas compositions is simplified by calculating the so-called "limiting temperature" for each chemical compound contained in the mixture; this is the temperature, at which the partial pressure of the nondissociated compound drops below a certain value  $\alpha$  and can be neglected. The temperature at which the partial pressure of the nondissociated compound reaches a maximum is first calculated at constant total pressure of the mixture. It is shown that stoichiometric composition of the mixture is a necessary and sufficient condition for the existence of this temperature. 0.01 or 0.1 atm is proposed for  $\alpha$ , depending on the degree of accuracy required. These values are sufficient for estimating the thermodynamic stability of a compound up to a total pressure  $P = 1000$  atm.  $\alpha = 10^{-4}P$  is recommended for higher pressures. The follow-  
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B101/B138

Calculation of equilibrium ...

ing limiting temperatures ( $^{\circ}$ K) were calculated:

	$g=0.01$	$g=0.1$		$g=0.01$	$g=0.1$		$g=0.01$	$g=0.1$
$O_2$	>6000	>6000	HI	>6000	>6000	$P_4O_{10}$	3800	3500
$F_2$	>6000	4800	$BF_3$	4300	3700	$SO_2$	>6000	>6000
$F_2O$	2000	-	CO	>6000	>6000	$SF_2$	4800	4100
$Cl_2$	>6000	>6000	$CO_2$	>6000	>6000	$SF_4$	3200	3000
$H_2$	>6000	>6000	$COF_2$	4900	4500	$SF_6$	3200	3000
$H_2O$	>6000	>6000	$COCl_2$	3200	2400	$CH_4$	5000	4000
HF	>6000	>6000	$C_2H_2$	>6000	>6000	$CH_3Br$	1800	>1000
HCl	>6000	>6000	$N_2$	>6000	>6000	$CF_4$	5000	4500
HBr	>6000	>6000	$NH_3$	4200	1800	$CCl_4$	3200	2800

There are 2 tables.

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Calculation of equilibrium ...

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ASSOCIATION: Akademiya nauk SSSR, Institut goryuchikh iskopayemykh  
(Academy of Sciences USSR, Institute of Mineral Fuels)

SUBMITTED: June 11, 1959

X

Card 3/3

ACCESSION NR: AR4036315

8/0081/64/000/004/B049/B049

SOURCE: Referativnyy zhurnal. Khimiya, Abs. 4B363

AUTHOR: Baybuz, V. F.; Medvedev, V. A.

TITLE: Determination of the heat of formation of certain fluorochloro derivatives of methane by the method of explosion in a spherical bomb

CITED SOURCE: Sb. tr. Gos. in-ta prikl. khimii, vy\*p. 49, 1962, 84-112

TOPIC TAGS: methane, halomethane, fluorochloromethane, carbon tetrachloride, carbon tetrafluoride, physical chemistry, calorimetry, bomb calorimeter

TRANSLATION: A mechanism for the loss of energy during explosions in a spherical bomb with central ignition is suggested and proven experimentally. A method is suggested for calculating the explosion temperature while taking the loss of energy into consideration. The results of explosions of mixtures of H<sub>2</sub>, CO, O<sub>2</sub>, H<sub>2</sub>O and N<sub>2</sub> carried out in a wide range of concentrations show that the suggested method for calculating the explosion temperature makes it possible to determine the heat capacity and the thermochemical values for gases by the method of explosion in a spherical bomb with great accuracy.

Card 1/2

ACCESSION NR: AR4036315

Addition of small amounts of steam does not decrease the loss of energy during explosions of hydrogen with oxygen. The heats of formation of gaseous  $CF_4$ ,  $CF_3Cl$ ,  $CFCl_3$ , and  $CCl_4$ , respectively, were:  $-220.1 \pm 1.3$ ;  $-166.2 \pm 2.2$ ;  $-66.4 \pm 2.1$ ; and  $-24.6 \pm 1.9$  kkal/mole. Authors' summary

DATE ACQ: 10Apr64

SUB CODE: OC

ENCL: 00

Card 2/2

L 12633-65 EWT(1)/EPF(s)/EPF(n)-2/T/EPR/EPA(bb)-2/EWA(1) Fr-4/P2-4-Pure WSJ  
ACCESSION NR: AR4044047 S/0058/63/000/011/E004/E004

SOURCE: Ref. zh. Fizika, Abs. 11E24

AUTHOR: Baybus, V. F.

TITLE: Critical constants of substances with high boiling points

CITED SOURCE: (Sb. tr.) Gos. in-ta prikl. khimii, vy\*p. 49, 1962, 113-119

TOPIC TAGS: critical constant, boiling point, high boiling point

TRANSLATION: Examines various methods of estimating critical constants for substances with high boiling points. On the basis of an empirical equation for the dependence of the heat of sublimation on temperature, and tables for saturation pressure, there is proposed a new method for estimating the critical constants. There are calculated the values of the critical constants for a number of substances with high boiling points.

SUB CODE: GC

ENCL: 00

Card 1/1



BAYBUZ, V.F.

Heat losses in explosions in a spherical bomb. Zhur. fiz. khim.  
36 no.6:1280-1286 Je'62 (MIRA 17:7)

1. Institut goryuchikh iskopayemykh AN SSSR.

BAYBUZ, V.F.

Molecular interaction and thermodynamic properties of  
gases at high temperatures. Teplofiz. vys.temp. 1  
no.2:161-166 S-O '63. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur.

BAYBUZ, V.F.

Conference of the Institute of High Temperature Research.  
Teplofiz. vys. temp. 2 no.4:655-656 J1-Ag '64.

(MIRA 17:9)

GIPP, B.A.; GONIKBERG, Yu.M.; KAPLUN, M.M.; LEVENSON, Ye.M.; MARKOV, N.N.;  
POLYANSKIY, P.M.; SHLEZINGER, G.S.; LEVENSON, Ye.M., nauchnyy red.;  
BAYBYROY, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.;  
PROKOP'YEVA, L.G., red.isd-va; TIKHANOV, A.Ya., tekhn.red.

[Checking devices] Kontrol'nye prispobleniia. Pod red. B.S.  
Baiburova, M.I.Kochanova i D.D.Malogo. Moskva, Gos.nauchno-tekhn.  
izd-vo mashinostroit,lit-ry, 1960. 338 p.

(MIRA 13:12)

(Measuring instruments)

L 32894-65 EWT(d)/TDB(jj)/EXT/EMP(1)/EED-2 Pg-4/Pq-4/Pr-4/Pk-4 IJP(c) BB/  
ACCESSION NR: AT5004150 S/0000/64/000/000/0157/0167 GS/GG

AUTHOR: Baych, L. M.

44  
43  
BTJ

TITLE: A logical system for finding a frame of a microfilm of systematized information by sequential reading of the code

SOURCE: AN SSSR. Institut nauchnoy informatsii. Informatsionnyye sistemy (Information systems). Moscow, 1964, 157-167

TOPIC TAGS: information retrieval<sup>16U</sup>, sequential coding, microfilm search, sequential retrieval, tape storage, microfilm storage, microfilm scanner, photocode

ABSTRACT: Two basic types of information storage are distinguished by way of introduction: systems with arbitrary retrieval and systems with sequential retrieval. Card files provide for arbitrary retrieval by the interrogation of any information-storing cell. In storage units with sequential retrieval, on the other hand, the required cell can be found only after interrogation of the preceding cells; for example, systems employing cassettes of magnetic tape or rolls of microfilm. Such microfilm rolls, in which the index code is photographically printed together with the microphotograph of the original document of interest, provide a solution to the recording of information of high density. In this article

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L 32894-65

ACCESSION NR: AT5004150

cle, the author proposes a logical arrangement designed to search out the original of an article on microfilms of periodical publications according to the decimal number which accompanies the brief reports published in the abstract journals and "express-information" series of VINITI. A detailed technical description of this system and its components is given. A mean linear speed of 1 m/sec was selected for the microfilm. On a 300-meter roll of film as many as 19,000 printed pages of text can be accommodated, with an automatic viewing time of about 5 minutes per roll. This results in a viewing rate of 3800 pages/minute, which is 10-20 times better than the rate attainable with manual frame hunting. Unperforated (to reduce wear) 35-mm film is used. A 300-meter roll of this film has a diameter of 250 mm and occupies a volume of 1.7 cubic decimeters, with a roll providing a storage capacity for 62 books of average size (300 pages on the average for each book). The author reasons that, in order to code a single 300-page book, 4.4 million binary symbols are required. One 300-meter roll of microfilm can thus be considered an external, long-term, permanent memory for an electronic computer with a volume of 272.8 million binary symbols. The low repetition rate of the photo-pulses initially selected to carry out the purely mechanical operations of stopping the system can easily be increased by increasing the speed of movement of the carrier of the recording (i.e., the film). The purpose of this automatic

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L 32894-65

ACCESSION NR: AT5004150

microfilm frame-hunting device is to seek out, on the basis of a given decimal number, the required half-frame for the information stored on the film. When the required half-frame is presented, a command to stop the tape-advance mechanism is provided automatically. As the logical element, the device uses a three-cycle ferrite-diode cell, developed in the Laboratoriya elektromodelirovaniya (Electro-simulation Laboratory) of VINITI and produced by the Astrakhan Plant. This cell can be used for precession pulse repetition rates up to 50 cycles. The system incorporates the use of a photocode represented by eleven decimal places. Working diagrams and schematics are included in the article, along with complete technical descriptions of the principal units of the system, which are: diode encoder units, parallel-to-sequential code conversion unit, photocode register, synchropulse counting unit, local program-unit, information block code comparison circuit, etc. Separate sections of the article deal with the different time relations which occur in the logical circuit and the degree of accuracy (and the factors affecting it) with which the system "stops" at the required half-frame. The author claims that an experimental verification of the individual functional assemblies of the logical arrangement, as well as their operational interaction, has completely confirmed the ability of the system to fulfill its assigned functions. Orig. art. has: 6 figures.

ASSOCIATION: None

SUBMITTED: 08Oct64

NO REF SOV: 000  
Card 3/3

ENCL: 00

SUB CODE: DP

OTHER: 000

BAYCHENKO, A.A.

Байченко, А. А. (Байченко, А. А.)  
Pilyasov, and M. B. Jofa (Polytech. Inst., Tomsk). АСН  
1974, No. 2, 10-20. (English translation)



MELIK-GAYKAZYAN, V.I.; BAYCHENKO, A.A.; PLYASOV, Y.L.; IOFA, M.B.

Using an aqueous emulsion of sulfonated kerosene for flotation  
of coal smalls. Koks i khim.no.8:19-20 '56. (MLRA 10:1)

1. Tomskiy politekhnicheskiy institut (for Melik-Gaykazyan and  
Baychenko). 2. Gorlovskiy koksokhimicheskiy zavod (for Pilyasov and  
Iofa). (Kerosene) (Flotation) (Coal preparation)

BAYCHENKO, A. A. ; KOLITZ-ALEXEYEV, V. T. ; TSVETKO, A. I. ; SHUMKO, A. I.

*Baychenko, A.A.*

68-6-4/19

**AUTHOR:** Melik-Gaykazyan, V.I., Baychenko, A.A., Pilyasov, F.L.,  
and Moroz, A.P.

**TITLE:** A Pulpmeter (Pulpomer)

**PERIODICAL:** Koks i Khimiya, 1957, No.6, pp. 12 - 13 (USSR)

**ABSTRACT:** A description of a continuous pulpmeter indicating the  
throughput of pulp in m<sup>3</sup>/h, based on the indication of the  
level of the pulp flowing through a narrow trough is given.  
There are 1 figure and 2 Slavic references.

**ASSOCIATION:** Tomsk Polytechnical Institute (Tomskiy Politekhnich-  
eskiy Institut)  
Gorlovsk Coke Oven Works (Gorlovskiy Koksokhimicheskiy  
Zavod)

**AVAILABLE:** Library of Congress  
Card 1/1

*Baychonko, N.N.*

68-8-5/23

**AUTHORS:** Melik-Gaykazyan, V.I., Baychonko, A.A., Pilyasov, F.L., and Moroz, A.P.

**TITLE:** Emulsification and Fine Feeding of Reagents Used in the Industrial Flotation of Coal. (Emul'sirovaniye i drobnaya podacha reagentov, ispol'zuyemykh pri promyshlennoy flotatsii uglja).

**PERIODICAL:** Koks i Khimiya, 1957, No.8, pp. 14-17 (USSR)

**ABSTRACT:** Results, obtained on the washing plant of the Gorlovka Coke Oven Works, on feeding flotation with water emulsions of sulphonated kerosene and absorption oil, (which were fed into the pulp at five points, i.e., in small quantities) as well as a description of the emulsifying apparatus used are given. The scheme of flotation and feeding points for the reagents are shown in figure 1 and the emulsifying apparatus in figure 2. Experimental results of flotation of coal fines with emulsified and non-emulsified reagents are given in tables 1 (at 20° C) and 2 (at 7° C). With emulsified reagents an improvement in the efficiency of flotation was obtained. There are 2 tables, 3 figures and 12 references, all of which are Slavic.

Card 1/2

68-8-5/23

Emulsification and Fine Feeding of Reagents Used in the Industrial Flotation of Coal. (Emul'sirovaniye i drobnaya podacha reagentov, ispol'zuyemykh pri promyshlennoy flotatsii uglia).

ASSOCIATIONS: Tomsk Polytechnical Institute (Tomskiy Politekhicheskiy Institut) and Gorlovka Coke Oven Works (Gorlovskiy Koksokhimicheskiy Zavod).

AVAILABLE: Library of Congress

Card 2/2

*18118-110000/17/10*

MELIK-GAYKAZYAN, V.I.; VINTMAN, Ye.Ya.; LIVSHITS, G.L.; BAYCHENKO, A.A.

Flotation pulp consumption meter. Ugol' 32 no.7:43-44 J1 '57.  
(MIRA 10:7)

1. Tomskiy politekhnicheskii institut (for Melik-Gaykazyan and Baychenko).
2. Nikitovskaya Tsentral'naya obogatitel'naya fabrika (for Vintman and Livshits).  
(Flotation) (Measuring instruments)

BAYCHENKO, A. A.

68-1-3/22

AUTHORS: Melik-Gaykazyan, V.I., Baychenko, A.A., and Pilyasov, F.L.

TITLE: On the Problem of Choosing a Rational Scheme of Froth Extinguishing for the Separation of Flotation Products in Coal Washeries (K voprosu o vybore ratsional'noy skhemy penogasheniya dlya flotatsdelenyi ugleobogatitel'nykh fabrik)

PERIODICAL: Koks i Khimiya, 1958, No.1, pp. 12 - 15 (USSR).

ABSTRACT: Three types of de-frothing installations (mechanical, gravitational and vacuo) used in Soviet coal washeries are outlined and the capital costs of installation of the latter two types of equipment (Figs. 1 and 2, respectively) are compared. On the basis of this comparison, the application of the vacuo scheme of froth extinguishing not only in new, but also in already operating washeries is recommended. There are 3 figures, 1 table and 4 Slavic references.

ASSOCIATIONS: Tomsk Polytechnical Institute (Tomskiy politekhnicheskii institut)  
Gorlovka Coke Oven Works (Gorlovskiy koksokhimicheskii zavod)

AVAILABLE: Library of Congress  
Card 1/1

SOV/68-58-11-5/25

**AUTHORS:** Melik-Gaykazyan V.I., Baychenko A.A. and Mamleyev K.A.

**TITLE:** A Density Meter for the Flotation Pulp (Plotnostemer dlya flotatsionnoy pul'py)

**PERIODICAL:** Koks i Khimiya, 1958, Nr 11, pp 14-16 (USSR)

**ABSTRACT:** An apparatus for continuous measuring of the density of the flotation pulp is described. It consists of a bent tube, placed on supports around which it can rotate (see Fig). The pulp flowing through this tube is being weighed. The apparatus was tested on an installation simulating operational conditions of a flotation plant. The sensitivity of the apparatus in density units amounted to 0.0015g/cm<sup>3</sup> within the range of 1.056 - 1.080 g/cm<sup>3</sup>. There is 1 figure, and 6 references, all Soviet.

**ASSOCIATION:** Tomskiy Politeknicheskii Institut (Tomsk Polytechnical Institute)

Card 1/1



GEBLER, Innokentiy Vasil'yevich, prof.; RAYCHENKO, Arnol'd Alekseyevich,  
inzh.; BALIBALOV, I.A., red.; RUDINA, G.V., tekhn.red.

[Special methods of coal preparation] Spetsial'nye metody obogashcheniia uglei. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1959.  
151 p. (MIRA 14:1)

(Coal preparation)

14(5)  
AUTHORS: Melik-Gaykazyan, V. I., Baychenko, A. A., Rabotkin, V. L.,  
Gorban', A. N. SOV/20-126-2-32/64

TITLE: Investigation of the Mechanism of the Action of Non-Polar  
Reagents in the Flotation of Coal (Issledovaniye mekhanizma  
deystviya nepolyarnykh reagentov pri flotatsii uglya)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2,  
pp 341 - 343 (USSR)

ABSTRACT: One must not generalize the methods which serve for the  
estimation of the reagents distribution on the surface of  
mineral particles. There are two possibilities: a) The  
reagents chemically interact with the surfaces and are ab-  
sorbed as single molecules, b) the reagents are deposited as  
drops - this happens on coal particles. The rules pertaining  
to case a) must not be applied to case b). This is explained by  
the fact that the drops of non-polar flotation reagents are  
less firmly fixed on the surface of non-polar particles. For  
many reasons the tests of other researchers (Refs 1-5), are  
not very convincing in their applicability to small coal.

Card 1/2 Therefore the authors have agreed to use the luminescent pro-

Investigation of the Mechanism of the Action of  
Non-Polar Reagents in the Flotation of Coal

SOV/20-126-2-32/64

erties of petroleum to estimate the distribution of the reagent on coal-particles. Figure 1 shows micro-pictures of particles, which lie 3-5 mm under the water-surface. By contrasting the micro-pictures a and b (Fig 1) it becomes obvious that petroleum in strong concentrations is in visual light practically undetectable under water (Fig 2). The formation mechanism of a "hem" around a particle is explained. Figure 1 b-d shows pictures taken with ultra-violet light with and without a small infusion of visual light (Fig 1 g). From the results obtained, the authors conclude that by the use of luminescence a few details on the distribution of a non-polar reagent on the surface of coal particles, under the reaction of outside influences may relatively simply be observed. Moreover the conditions governing this case have a very close connection to those met with in flotation. There are 2 figures and 7 references, 6 of which are Soviet.

ASSOCIATION:  
PRESENTED:  
SUBMITTED:  
Card 2/2

Tomskiy politekhnicheskii institut (Tomsk Polytechnic Institute)  
February 2, 1959, by P. A. Rebinder, Academician  
January 29, 1959

MELIK-GAYKAZYAN, V.I.; BAYCHENKO, A.A.

Mechanism underlying the strengthening effort of an apolar reagent on the contact between a bubble and a carbon particle.  
Dokl. AN SSSR 136 no.6:1403-1406 F '61. (MIRA 14:3)

1. Tomskiy politekhnicheskii institut im. S. M. Kirova. Predstavleno akademikom P. A. Rebinderom.  
(Flotation)

MELIK-GAYKAZYAN, V.I.; BAYCHENKO, A.A.; VORONCHIKHINA, V.V.

Determining the parameters which characterize the flotation activity of oil reagents. Koks i khim. no.8:13-16 '62. (MIRA 17:2)

1. Tomskiy politekhnicheskii institut.

MELIK-GAYKAZYAN, V.I.; BAYCHENKO, A.A.; VORONCHIKHINA, V.V.; LIVSHITS, G.L.;  
SOROKA, V.I.; RAYVICH, I.D.; KHARKHARDIN, P.P.

Emulsification of flotation oil reagents under industrial  
conditions and evaluation of the dispersion properties of the  
obtained emulsions. Koks i khim. no.3:9-13 '64. (MIRA 17:4)

1. Tomskiy politekhnicheskiy institut (for Voronchikhina).
2. Nikitovskaya ugleobogatitel'naya fabrika (for Rayvich).
3. Gorlovskiy koksokhimicheskiy zavod (for Kharkhardin).

187 507 (REV. 08/12/53) PROCESSES AND PROPERTIES INDEX

AMS/A+B APR 1951

24-175  
 Balchenko, I. P. *Otschishen v pabe i pri doobremnoy myshchenoi rabote na vyso-  
 tse 4250 m. [The gaseous metabolism during rest and regulated muscular work at altitudes  
 of 3800 and 4250 m.] (In Trudy Ekspiratsionoi i klinicheskoi Akademii Nauk, SSSR, i Voenno-  
 nauchnogo Instituta Eksperimental'noi Meditsiny 1934 i 1935 g. [Reports of the Ekspiratsion-  
 naia Komissiya 1934 and 1935.] Moscow, 1936. p. 351-360. 4 figs., 4 tables, 16 refs. Summary  
 in English p. 259-300. [Akademii Nauk, SSSR, Komissiya po izucheniю stratosfery, Tazi  
 II.] DLC--The pulmonary ventilation during rest at an elevation of 4250 m. is reduced in  
 some individuals but increased in others. During muscular work the pulmonary ventilation  
 increases less at high altitude than at sea level. The depth of respiration during rest increases  
 at 4250 m.; during muscular work the increase in depth is less than at sea level. Basal metabo-  
 lism increases at an altitude of 3250 m. in some individuals but diminishes in others. After  
 increasing, it falls and then may rise again. The consumption of energy in doing the same  
 work is greater at high altitude than at lower elevations. During rest at high altitudes the  
 respiratory coefficient increases and exceeds unity; during muscular work it declines for a  
 considerable period. Subject Headings: Physiological climatology; Atmospheric pressure;  
 Everest Expedition, U.S.S.R.--I.L.D.* 551.506:612 551.54

450-514 METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

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**BAYCHENKO, Y. P.**

The blood supply of the tongue of the organism at high altitudes and its changes after caffeine administration. J. P. Baychenko, G. E. Vladimirov, I. M. Dedyulin, L. I. Chirogorokaya and Ya. A. Epshtein. *Klin. Med. (U. S. S. R.)* 17, No. 11, 99-112(1939).—The difference in O<sub>2</sub> content of arterial and venous bloods decreases at high altitudes. A slight increase in arterial pressure is also observed. After acclimatization the minute vol. of the heart decreases but never reaches the value normal at sea level. The administration of 0.2-0.4 g. of caffeine causes a greater increase in the minute vol. of the heart at high altitudes than at sea level. S. A. Karjala

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION



BAYCHENKO, I.P.; GRACHEVA, R.P.

Physiological indexes of the degree of training of the neuromuscular apparatus. Trudy Vses. ob-va fiziol., biokhim. i farm. 3:75-76 '56  
(MLRA 10:4)

1. Kafedra fiziologii Instituta fizicheskoy kul'tury im. Lugafta;  
zaveduyushchiy kafedroy professor A.N. Krestovnikov.  
(NERVES) (MUSCLES)



MIKELADZE, G.Sh.; NADIRADZE, Ye.M.; PKHAKADZE, Sh.S.; GOGORISHVILI, B.P.;  
DGEBAUDZE, G.A.; SOLOSHENKO, P.S.; SEMENOV, V.Ye.; BARASHKIN, I.I.;  
SHIRYAYEV, Yu.S.; POSPELOV, Yu.P.; KATSEVICH, L.S.; ROZENBERG, V.L.;  
Prinimali uchastiye: LORDKIPANIDZE, I.S.; TSKHVEDIANI, R.N.;  
DZODZUASHVILI, A.G.; DUNIAVA, A.G.; PEKARSKIY, L.F.; GRITSFNYUK, Yu.V.;  
ZHELTOV, D.D.; LUZANOV, I.I.; GLADKOVSKIY, V.P.; PODMOGIL'NIY, V.P.;  
VOROPAYEV, I.P.; BRIKOVA, O.V.; VRUBLEVSKIY, Yu.P.; KLYUYEV, V.I.;  
BAYCHER, M.Yu.; LOGINOV, G.A.; SHILIN, V.K.; POPOV, A.I.; ZASLONKO, S.I.

Industrial experiments in the smelting of 45 o/o ferrosilicon in  
a heavy-duty closed electric furnace. Stal' 25 no.5:426-429 My '65.

(MIRA 18:6)

1. Gruzinskiy institut metallurgii (for Lordkipanidze, Tskhvediani, Dzodzuashvili, Guniava). 2. Nauchno-issledovatel'skiy i proyektnyy institut metallurgicheskoy promyshlennosti (for BrikoVA, Vrublevskiy, Klyuyev). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrotermicheskogo oborudovaniya (for Baycher, Loginov, Shilin, Popov, Zaslونko).

0767 1664

ACC NR: AP7008868

SOURCE CODE: UR/0105/66/000/008/0095/0095

AUTHOR: Abelishvili, L. G.; Al'tgauzen, A. P.; Baycher, M. Yu.; Gabashvili, N. V.; Dididze, M. S.; Yefroyimovich, Yu. Ye.; Kótiya, A. K.; Kupradze, G. D.; Kurdiani, I. S.; Netushil, A. V.; Nikol'skiy, L. Ye.; Razmadze, Sh. M.; Svenchanskiy, A. D.; Smelyanskiy, M. Ya.; Tkeshelashvili, G. K.

ORG: none

TITLE: Professor Grigoriy Artemyevich Sisoyan (on his 70th birthday)

SOURCE: Elektrichestvo, no. 8, 1966, 95

TOPIC TAGS: electric engineering personnel, electric furnace, academic personnel

SUB CODE: 09

ABSTRACT: G. A. Sisoyan graduated from the Moscow Power Engineering Institute in 1931. In 1932 he went to work at the Georgian Polytechnical Institute in the theoretical and general electrical engineering department. Sisoyan has worked and published many works in the area of electric furnaces. He has also worked in the area of investigation of electric spark action. He has published over 50 scientific works. He has also been active in university level teaching. Orig. art. has: 1 figure. JPRS: 38,330

Card 1/1

UDC: 621.36

BAYCHEV, IV.

Concerning the Necessity of Producing Explosive-Proof Electric Motors and  
Equipment (in our Country) and of Constructing Test Stations to Test them.  
Minno Delo (Mining), #12:6: Dec 54

BAYCHEV, IV.

Engineer G. KONYAROV, Deserving Worker in our Mining Industry.  
Minno Delo (Mining), #1:106:Jan 55

BAYCHEV, IV.

The SVOGE (Bulgaria) Anthracite and its Importance in the Coal  
Balancing Economy of Our Country. Minno Delo (Mining), #2:16:Feb 55

BAYCHEV, IV.

Concerning the Introduction of Broadwall Working in the "Cherne More"  
Mine. Minno Delo (Mining), #5:31: Sept-Oct 55



*BAYCHEV, I.,*

**BAYCHEV, I., inzhener.**

New techniques in the Bulgarian coal industry. Mast.ugl. 6 no.9:29-31  
S '57. (MIRA 10:11)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela Ministerstva  
tyasheloy promyshlennosti Narodnoy Respubliki Bolgarii.  
(Bulgaria--Coal mines and mining)

BAYCHEV, Iv.

Bulgaria

"Ventilation in Coal Mines", Mining, No. 4, April 1954, p 31.

Ventilirane na kamenov'glenite mini.

SO: [REDACTED] Bibliographic files 18 July 1955, Uncl.

BAYCHEV, Iv.

Bulgaria

"Ventilation of Coal Mines", Mining, No. 5, May 1954, p 31.

Ventilirane na kamenov'glenite mini

SO: [REDACTED] Bibliographic files 18 July 1955, Uncl.

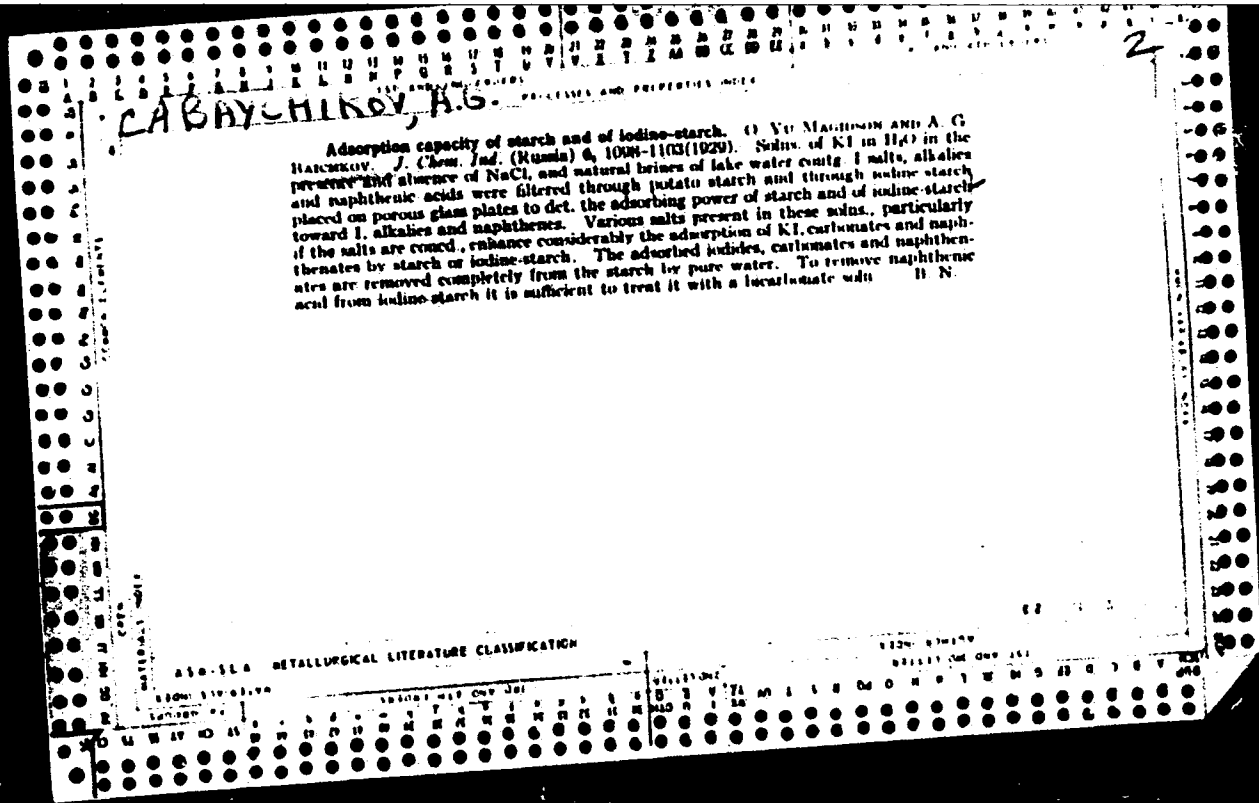
BAYCHEV, Iv.

Bulgaria

"Ventilation in the Coal Mines", Mining, No. 6, June 1954, p 30.

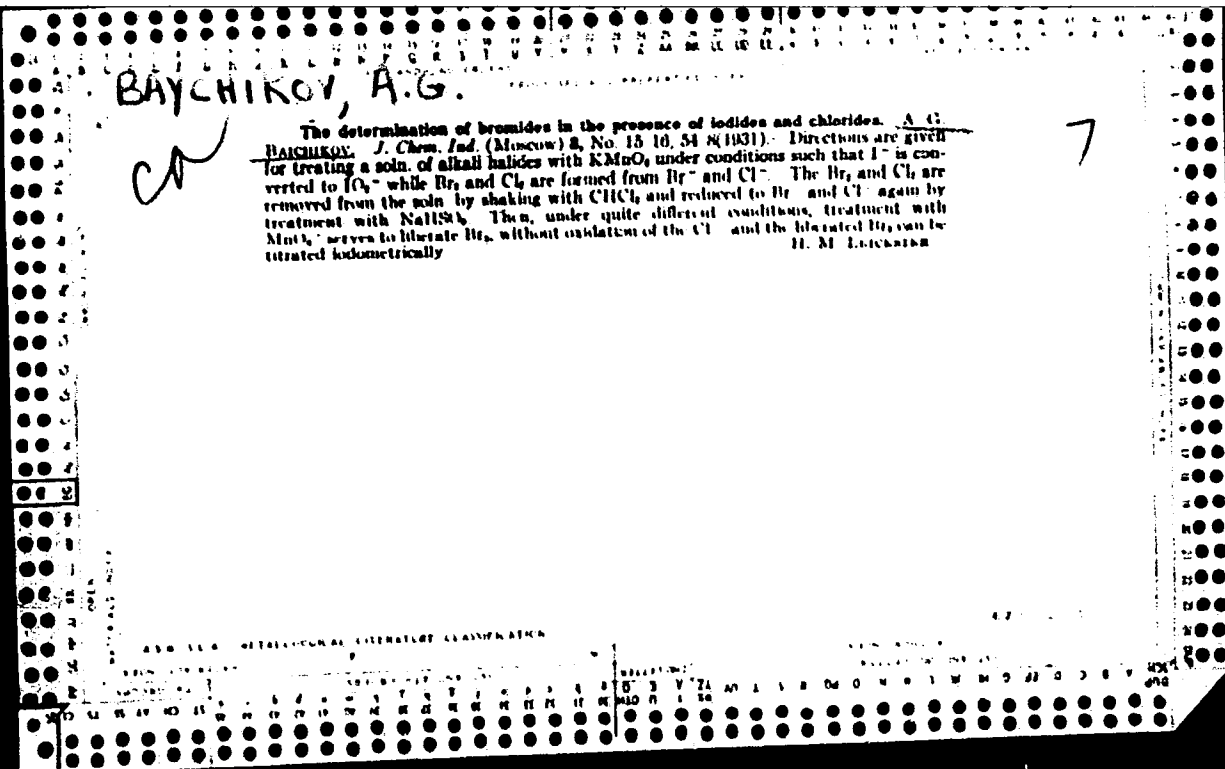
Ventilirane na kamenov'glenite mini

SO: ~~██████████~~ Bibliographic files 18 July 1955, Uncl.



1st and 2nd orders		3rd and 4th orders	
PROCENES AND PROPERTIES INDEX			
BAYCHIKOV, A. G.		18	
CA			
PREPARATION OF IODATES. O. Yu. Magidson and A. G. Baychikov. Russ. 62,766, Jan. 20, 1930. Free I is oxidized by hypochlorites in H <sub>2</sub> SO <sub>4</sub> medium in the presence of a chloride in the cold.			
METALLURGICAL LITERATURE CLASSIFICATION			
100000 01		100000 011 000 501	
100000 01		100000 011 000 501	









PROCESSES AND PROPERTIES MODE

18

**БАЙ-ХИКОВ, А. Г.**

Obtaining iodine from natural bore-hole water without preliminary acidification. A. G. Baichkov and V. A. Evstigneyev. *J. Chem. Ind. (Moscow)* 1964, No. 1, 64-7. — The H<sub>2</sub>O is shaken with 10% of its vol. of benzene, to remove impurities. It is then shaken for 6-8 sec. with 10% of fresh benzene and Ca(OCl)<sub>2</sub> equiv. to 15 g. of active Cl<sub>2</sub> per l. Free I<sub>2</sub> is formed and dissolves in the solvent. The benzene layer is then treated with aq. Na<sub>2</sub>SO<sub>3</sub>, which reduces the I<sub>2</sub> to NaI. The Na<sub>2</sub>SO<sub>3</sub> soln. is shaken with fresh benzene extn. until it contains 2-3% I<sub>2</sub>. The latter is then liberated with KClO<sub>3</sub>, and is 90% pure. This method is much cheaper than the acid process.  
H. M. Leicester

ASG-514 METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

SEARCHED ON NOV 1961



PROCESSES AND PROPERTIES

18

ca

**BAYCHIKOV, H.G.**

The preparation of bromides from tribromophenol by burning it with alkali. A. G. Baychikov and A. G. Zabriodkin. *J. Chem. Ind. (Moscow)* 1958, No. 3, 50-61.

—If  $C_6H_2Br_3OH$  is heated with the theoretical amt. of NaOH, quant. formation of NaBr occurs, but it is hard to sep. it from the  $Na_2CO_3$  also formed. When Ca(OH)<sub>2</sub> is used instead of NaOH, 92%  $CaBr_2$  is formed. Best results are obtained by heating a mixt. of Ca(OH)<sub>2</sub>, NaOH and Br compd. in the wt. ratio 1:1.3:0.33 at 600° for 3 hrs. This yield 96-8% of the Br<sub>2</sub>. H. M. L.

METALLURGICAL LITERATURE CLASSIFICATION

ASB-LLA

1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000

PROCESSES AND PROPERTIES NOTES

**BAYCHIKOV, H. G.**

17

The regeneration of the activated charcoal used in the iodine industry. A. G. Baychikov. *J. Chem. Ind. (Moscow)* 1934, No. 7, 89-90. - The charcoal, contg. adsorbed I<sub>2</sub>, is best treated with an excess of a concd. soln. of Na<sub>2</sub>CO<sub>3</sub> or NaOH. The I<sub>2</sub> is recovered from these solns. by treatment with Cl<sub>2</sub>. When Na<sub>2</sub>CO<sub>3</sub> soln. is used, the C is partially reactivated. To complete the reactivation, the C is heated to 700° for 2.5 hrs. This reduces the CaSO<sub>4</sub> in the C to CaS. Treatment with H<sub>2</sub>O gives Ca(SH)<sub>2</sub> and Ca(OH)<sub>2</sub>. These are dissolved out with HCl and the dried C is used again. H. M. Leicester

ASTM S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

GROUP SYMBOLS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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117 AND 118 (1951) 117 AND 118 (1951)

**PROCESSES AND PROPERTIES INDEX**

**BAYCHIKOV, A. G.**

18

Some solvents for the extraction of iodine and bromine from dilute solutions. A. G. Baychikov. *J. Chem. Ind. (Moscow)* 12, 1002-6 (1935); cf. *C. A.* 29, 2113. Benzine and kerosene are easily illuminated, and so cannot be used for Br<sub>2</sub> extr., even if they have been treated with oxidizing agents. CCl<sub>4</sub> extr. Br<sub>2</sub> and I<sub>2</sub> effectively from H<sub>2</sub>O, but less effectively from NaCl solns. Addn of up to 30% CCl<sub>4</sub> to the CCl<sub>4</sub> improves the extr. of the halogens from both H<sub>2</sub>O and brine, but the sp. gr. of the solvent should be kept well above that of the brine to promote good settl. of the layers. H. M. Leicester

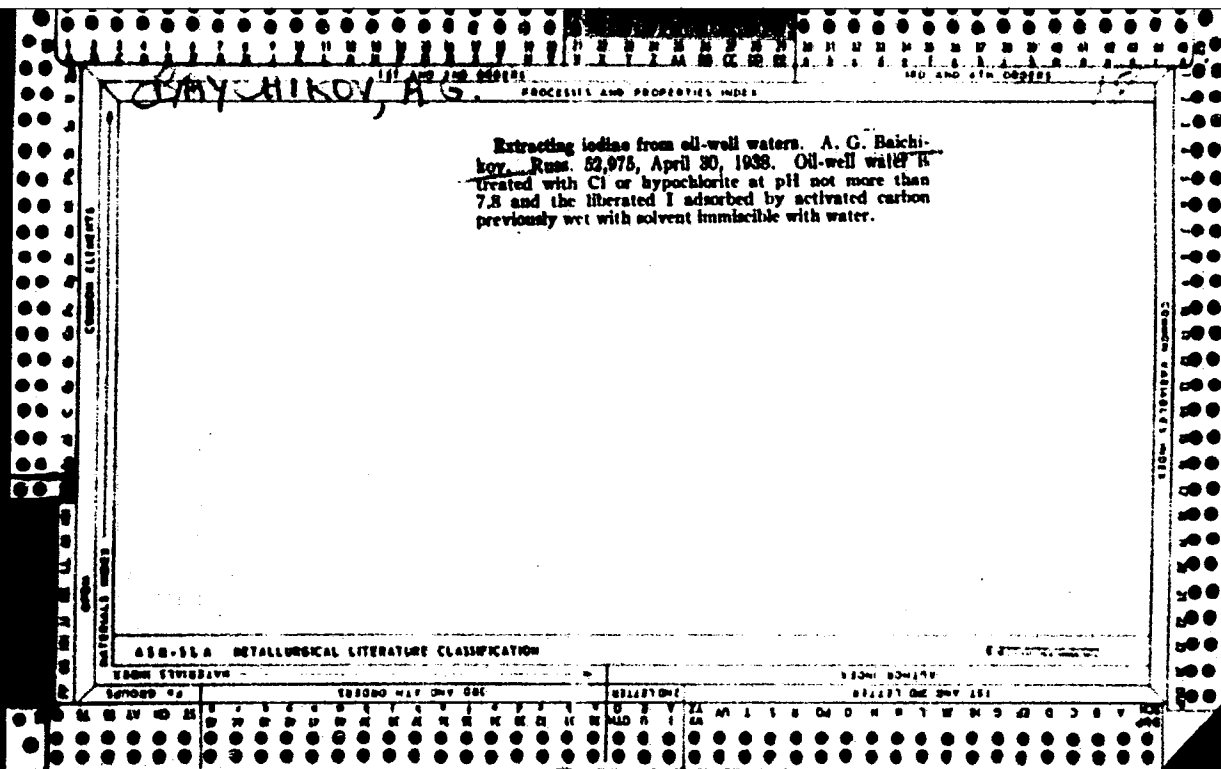
Common Literature

ASB-55.6 METALLURGICAL LITERATURE CLASSIFICATION

117 AND 118 (1951)









137 419 120 000001

PROCESSES AND PROPERTIES INDEX

197 419 120 000001

CA

17

Survey of developments in scientific research for discovery of new pharmaceuticals in the U.S.S.R. A. G. Rezhikov. *Farmakol. i Toksikol.* 8, No. 2, 34-8(1945). Julian P. Smith

ASS-51A METALLURGICAL LITERATURE CLASSIFICATION

EDOW BOWERY

EDOW BOWERY

0	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	00
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17

CA

Work of the All-Union Scientific Pharmaceutical Chemical Institute (VNIKHFI) in 1944. A. G. Balashov. *Farmatsiya* 8, No. 3, 19-24(1945).—Research was conducted on insecticides, especially for leish control; synthetic antihypertensives; synthetic estrogens for medical and veterinary use; cocaine substitutes and other Soviet plant alkaloids; sulfonamides, their structure and mechanism of action; sulfonamides and *p*-aminobenzoic acid as antidotes in poisoning with PhNO<sub>2</sub> or its derivs.; clinical aspects of some blood diseases; antibiotics; antimalarials; and new drugs, natural or synthetic. Attention was also given to analytical methods and to quality standards.

Julian F. Smith

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1945

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

BAYCHIKOV, A., G.,

Pa. 173T62

USSR/Medicine - Inhalation, Apparatus  
Penicillin

Sep 50

"Treatment by an Aerosol of Penicillin," I. I. Yelkin, S. I. Zydel'shteyn, M. A. Sukhotinskaya, L. K. Rubtsova, Dept Exptl Therapy, All-Union Sci Res Inst of Penicillin

"Sov Med" No 9, pp 23-26

Describes inhalator and tests of use in administering penicillin in form of aerosol. Finds very effective for treating diseases of upper respiratory tract and lungs caused by microorganisms sensitive to penicillin. Other antibiotics can be similarly administered in penicillin resistant infections. Inhalation of penicillin aerosol 20-30 min creates therapeutic concn in blood of children for 8 hr and of adults for 24 hr. Dir, All-Union Sci Res Inst of Penicillin: A. G. Baychikov,

Pa. 173T62

RUBTSOV, M.V., prof., otv. red.; PERSHIN, G.N., prof., zam. otv. red.;  
MAGIDSON, O.Yu., prof., red.; MASHKOVSKIY, M.D., prof., red.;  
UTKIN, L.M., prof., red.; RUZHENTSEVA, A.K., prof., red.;  
SHCHUKINA, M.N., prof., red.; BAYCHIKOV, A.G., kand. tekhn. nauk,  
red.; MIKHALEV, V.A., kand. khim. nauk, red.; RYAZANTSEV, M.D.,  
kand. tekhn. nauk, red.; SUVOROV, N.N., kand. khim. nauk, red.;  
PIYASHKEVICH, A.M., st. nauchnyy sotr., red.

[Basic trends in the work of the S.Ordzhonikidze All-Union Chemicopharmaceutical Scientific Research Institute; survey of its activity from 1920 to 1957] Osnovnye napravleniya rabot VNIKhFI; obzor deiatel'nosti za 1920-1957 gg. Moskva, 1959. 649 p. (MIRA 15:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

BAYCHIKOV, A.G.; BARMENKOV, A.S.; YEROSHIN, V.K.

Biosynthesis of steroids by microorganisms. Med.prom. 13  
no.6:15-31 Je '59. (MIRA 12:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-  
cheskiy institut imeni S.Ordzhonikidze.  
(STEROIDS)



BAYCHIKOV, A.G.; MIKHIL'SON, L.A.

Foreign pharmaceutical research. Med.prom. 13 no.9:60-64 8 '59.  
(MIRA 13:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S. Ordshonikidze.  
(UNITED STATES--DRUG INDUSTRY)

BAYCHIKOV, A.G.; MIKHEL'SON, L.A.

Foreign pharmaceutical research. Med.prom. 13 no.10:60-64 0 '59.  
(MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S. Ordzhonikidze.  
(EUROPE, WESTERN--DURG INDUSTRY)

BAYCHIKOV, A.G.; MIKHIL'SON, A. [deceased]

Foreign pharmaceutical research. Med.prom. 14 no.1:55-57 Ja '60.  
(MIRA 13:5)

(ANTIBIOTICS)

BAYCHIKOV, A.G.; MIKHEL'SON, I.A. [deceased]

Research in the field of medicinal substances abroad. Med.prom.  
14 no.2:55-57 F '60. (MIRA 13:5)  
(STEROIDS)

BAYCHIKOV, A.G.; MIKHEL'SON, L.A. [deceased]

Foreign pharmaceutical research. Med.prom. 14 no.3:54-56 Nr '60.  
(MIRA 13:6)

(CYTOTOXIC DRUGS)

BAYCHIKOV, A.G.; MIKHIL'SON, L.A. [deceased]

Drug research abroad. Med.prom. 14 no.4:58-62 Ap '60. (MIRA 13:6)

(SULFONAMIDES)

RAYCHIKOV, A.G.

Drug research abroad. Med.prom. 14 no.6:54-59 Je '60.

(MIRA 13:6)

(TRANQUILIZING DRUGS)

BAYCHIKOV, A.G.; MIKHEL'SON, L.A. [deceased]

Drug research in foreign countries. Med. prom. 14 no.8:53-55 Ag '60.  
(MIRA 13:8)

(PHARMACEUTICAL RESEARCH)



BAYCHIKOV, A.G.

Drug research abroad. Med. prom. 14 no. 10:50-57 0 '60.  
(MIRA 13:10)  
(PHARMACEUTICAL RESEARCH)

BAYCHIKOV, A.G.

Some problems in developing the production of synthetic steroid hormones and their analogues. Med. prom. 15 no.2:6-12 F '61.  
(MIRA 14:3)

(STEROIDS)

BAYCHIKOV, A.G.; INGEMAN, V.P.

Drug research in foreign countries. Med. prom. 15 no.7:59-64  
Jl '61. (MIRA 15:6).

(DRUGS)

NATRADZE, A.G.; BAYCHIKOV, A.G.

For a higher level of research. Med.prom. 15 no.9:12-16 S '61.  
(MIRA 14:9)

(PHARMACEUTICAL RESEARCH)

БАЛЧОРОВ, Г. Я.

2  
Hydraulics

Mathematical Reviews  
Vol. 15, No. 1  
Jan. 1954  
Mechanics

✓ Balčorov, H. Ya. Plane parallel flow of an ideal incom-

pressible liquid about a porous circular cylinder with linear and quadratic law of filtration. Vestnik Moskov. Univ. Ser. Fiz.-Mat. Estest. Nauk 1952, no. 8, 73-87 (1952). (Russian)

A cylindrical shell of uniform thickness and porosity, radius  $a$ , is placed with its axis perpendicular to the flow of an ideal liquid whose velocity at infinity is constant. The author seeks the steady-state flow of liquid outside the cylinder. The solution is first written in terms of the unknown  $(\partial\phi/\partial\theta)_{r=a}$ , where  $\phi$  is the velocity potential. From the relation  $\int_{-\pi}^{\pi} (\partial\phi/\partial r)_{r=a} d\theta = 0$ , and a previous result of the same author [same Vestnik 1951, no. 10 (unavailable)] relating  $(\partial\phi/\partial r)_{r=a}$  and  $(\partial\phi/\partial\theta)_{r=a}$ , he derives an integral equation of the form

$$Z(\theta) = \int_{-\pi}^{\pi} f(\xi, Z) \operatorname{ctg} [(\xi - \theta)/2] d\xi$$

for  $Z(\theta) = (\partial\phi/\partial\theta)_{r=a} + 2aV_{\infty} \sin \theta$ . The work is carried through for linear and quadratic laws of filtration; numerical examples are worked out for these cases, with approximate solutions of the nonlinear integral equation obtained by iteration.  
R. E. Gaskell (Seattle, Wash.).

BAYCHOROV, Kh. Ya.

Aug 52

USSR/Physics - Hydrodynamics

"The Circulation Around a Circular Cylinder by a Plane-Parallel Flow of an Ideal Incompressible Liquid for the Linear and Quadratic Law of Filtration," Kh. Ya. Baychorov, Chair of Hydromechanics

Vest Mos Univ, Ser Fizikomat 1 Yest Nauk, No 5, pp 73-87

States that the ordinary law of filtration (i.e. the linear dependence between pressure drop and filtration velocity) holds only for very small velocities, and that the quadratic law holds for

27295

filtration through thin coverings, these two cases being the most interesting. Here specializes his method of solving problems for any law of filtration (ibid. No 10, 1951).

*Байчорова, Р.Я.*  
KASHTANOV, L.I.; PATUSHINSKAYA, A.A.; BAYCHOROVA, R.Ya.

Ancient bronzes of China. *Khim.nauka i prom.* 2 no.4:529-530 '57  
(MIRA 10:11)

1. Kafedra khimii Vsesoyuznogo zaochnogo mashinostroitel'nogo  
instituta.

(China--Bronze)

BAYCHTOK, L. L.

36973. Sluchay Epitemy Dar'ya, Lechennoy Ekstrakton Aloye. Uchen. Zapiski (L'vovsk. Nauch.-issled. Kozhno-venerol. In-t), t. II, 1949, c. 104-06

SO: Letopis' Zhurnal'nykh Statey, Vol 50, Moskva, 1949



BAYDA, A.I.

The resolutions of the twenty-second Congress of the CPSU will be fulfilled. Transp. stroi. 12 no.4:7-9 Ap '62. (MIRA 15:5)

1. Nachal'nik tresta Yugozaptransstroy.  
(Construction industry)

BAYDA, A.I.

Improve the industrialization of construction. Transp. stroi. 15 no.7;  
6-7 J1 '65. (MIRA 18;7)

BAYDA, E. N.

BAYDA, E. N. --"Determination of Stresses and Displacements in Anisotropic Bodies with the Aid of Three Functions." \* (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Leningrad Order of Labor Red Banner Engineering Construction Inst, Leningrad, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

\* For Degree of Candidate in Technical Sciences

16(1),16(2)-16.7300

67065

SOV/44-59-9-9154

Translation from: Referativnyy zhurnal.Matematika,1959,Nr 9,p 102 (USSR)

AUTHOR: Bayda, E.N.

TITLE: On the Method of the Three Functions of the Anisotropic Body

PERIODICAL: Sb.nauchn.tr.Leningr.inzh.-stroit.in-ta 1958,vyp 29,12-45

ABSTRACT: The author considers the elastic equilibrium of a homogeneous body with a rectilinear anisotropy of most general kind (21 elastic constants). It is shown that the projections of the shifts and the components of the tensions can be expressed by three functions  $\phi_i(x,y,z)$  ( $i=1,2,3$ ) each of which satisfies the same differential equation of sixth order (this equation is linear, has constant coefficients and contains only the sixth derivative beside of the free term and the function term). The author establishes formulas which combine shifts and tensions with the three functions  $\phi_i$ ; in the special case of an isotropic body these formulas are changed into the well-known formulas of B.G.Galerkin. In the case of an orthotropic body the general representation of the shifts and tensions with the aid of three functions in general coincides with the representation proposed by S.Kossakovskaya (Byul.Pel'skoy A.N.,1955,otd.4,3,Nr 1,3-6). Furthermore two special problems are considered: The bending of an

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67065

16(1), 16(2)

SOV/44-59-9-9154

On the Method of the Three Functions of the Anisotropic Body

orthotropic thick plate with supported sides by an arbitrary normal load in two cases: a) the plan of the plate is a rectangle, b) the plan of the plate is an isosceles right triangle. The solution for a rectangular plate is carried out with the aid of the functions

$$\phi_1 = \phi_2 = 0, \quad \phi_3 = \sum_{k=1}^{\infty} \sum_{n=1}^{\infty} f_{kn}(z) \sin \frac{k\pi x}{a} \sin \frac{n\pi y}{b}$$

which satisfy the conditions at the boundary of the plate. Every  $f_{kn}$  is determined out of the equation for  $\phi_3$  and contains 6 free constants which are obtained from the conditions at the boundary of the loaded and the unloaded plate. The author gives the results of the calculation for a plate with given elastic constants which is bended by a sinusoidally distributed load. The results are compared with the results obtained with the aid of the approximate bending theory for plates. In the case of a triangular plate it holds  $\phi_1 = \phi_2 = 0$  and  $\phi_3$  is a double series similar to the series for the rectangular plate. Bibliography with 27 titles.

S.G. Lekhnitskiy

Card 2/2

BAYDA, E. N.

General solution of the problem of the elastic deformed condition of solid and slanting cylinders. Nauch.dokl.vys.shkoly: stroi. no.2:37-41 '59. (MIRA 13:4)

1. Rekomendovana kafedroy, soprotivleniya materialov Leningradskogo inzhenerno-stroitel'nogo instituta.  
(Elastic plates and shells)

BAYDA, N.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '66.

1. A. A. Abkhazi, A. G. Buzdary, A. A. Shvets (Siber): Improvements in the theory of stability of shells with respect to the problem of small deformations.
2. A. A. Abkhazi, A. G. Buzdary, A. A. Shvets (Siber): The problem of stability of shells with respect to the problem of small deformations.
3. A. A. Abkhazi (Siber): The theory of cylindrical shells.
4. A. A. Abkhazi, A. G. Buzdary, A. A. Shvets (Siber): The theory of shells with respect to the problem of small deformations.
5. A. A. Abkhazi, A. G. Buzdary, A. A. Shvets (Siber): The theory of shells with respect to the problem of small deformations.
6. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
7. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
8. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
9. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
10. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
11. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
12. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
13. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
14. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
15. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
16. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
17. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
18. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
19. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
20. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
21. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
22. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
23. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
24. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
25. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
26. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
27. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
28. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
29. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
30. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
31. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
32. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
33. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.
34. A. A. Abkhazi (Siber): The theory of shells with respect to the problem of small deformations.

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AUTHOR:

Bayda, E. N.

TITLE:

Investigating the formal solution of the problem on the elastically deformed state of a cylinder

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 1, 1962, 2, abstract 1V8 (V sb. XVIII Nauchn. konferentsiya prof.-prepodavat. sostava Leningr. inzh.-stroit. in-ta s uchastiyem predstavit. stroit. organizatsiy, predpriyatiy i nauchno-tekhn. o-v. Dokl. sektsiy soprotivl. materialov matem. i teor. mekhan., fiz., khimii i elektrotekhn., L., 1960, 5-10)

TEXT: In the author's former article (Nauchn. dokl. vyssh. shkoly. Stroitel'stvo, 1959, no. 2, 37-41-RZhMekh, 1961, 1V7), solution of the problem on the elastically deformed state of a solid cylinder is reduced to solving an infinite system of linear

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Investigating the formal...

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equations. In the present work, the problem of existence of a solution to that infinite system of equations is considered. It is shown that the sum of the moduli of the coefficients of the infinite system is less than unity for each row of the system; i.e., the system is regular. The author asserts that this system has a unique finite solution if its free terms are bounded.

(Reviewer's note: While proving that the sum of moduli of the coefficients of an infinite system is less than unity for each row, the author deduces that this system is fully regular. This is not true and should be considered as a mistake, as such a system is only regular. The condition that free terms of the system are bounded is not sufficient for the solution of a regular infinite system of linear equations. It is also necessary that free terms of the system tend to zero as  $m \rightarrow \infty$ .) [Ab-stracter's note: Complete translation.]

✓B

Card 2/2

BAYDA, Eduard Nikolayevich; GASTEV, V.A., doktor tekhn. nauk, prof.,  
red.; ROTENBERG, A.S., red. izd-va; VORONETSKAYA, L.V., tekhn.  
red.

[General solutions in the theory of elasticity and problems on  
the parallelepiped and cylinder] Obshchie resheniia teorii up-  
rugosti i zadachi o parallelepipede i tsilindre. Pod red.  
V.A.Gasteva. Leningrad, Gosstroizdat, 1962. 61 p.  
(MIRA15:8)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury  
SSSR (for Gastev).

(Elasticity) (Elastic solids)

БАЙДА, Г.И.  
BAYDA, G.I. [Baida, H.I.], geroy sotsialistichnoi pratsi, kombayner.

For village workers. Mekh. sil'. hosp. 9 no.1:9 Ja '58. (MIRA 11:2)

1. Novomoskovs'ka mashinno-traktorna stantsiia Dnipropetrovs'koi oblasti.

(Agricultural machinery)

PINSKIY, A.Ye. [Pins'kiy, O.IE.]; BAYDA, G.Ye. [Baída, H.IA.]

Folding machine for wadding manufactured on AGW-Gh  
carding-and knitting systems. Leh.prom. no.1:31-32  
Ja-Mr '64. (MIRA 19:1)

BAYDA, Kh.S.; SUVOROV, N.I.

General biological importance of astrobotanic investigations.  
Trudy Sekt.astrobot. AN Kazakh.SSR. 1:18-24 '53. (MLRA 10:2)

(Life on other planets)

BAYDA, L.I.

Elektronnye usiliteli postoiannogo toka  
(Electron amplifiers for direct current). Moskva,  
Gosenergoizdat, 1953. 192 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

BOGORODITSKIY, N.P., professor; VASIL'YEV, D.V., professor; ~~BAYDA, I.I.~~  
dotsent; ODINTSOV, G.V., dotsent; SEMENKOVICH, A.A., dotsent; FATEYEV,  
A.V., dotsent; YURGENSON, R.I., dotsent; ARANOVICH, B.I., starshiy  
prepodavatel'; GEKTOR, D.S. starshiy преподаvatel'; POVOLOTSKIY, Ya.A.,  
prepodavatel'.

Development of automatic control and telemechanics in the fifth  
five-year plan. Avtom. i telem. 14 no.2:238-240 Mr-Apr '53.

(MLRA 10:3)

1. Leningradskiy elektrotekhnicheskiy institut im. V.I.Ul'yanova  
(Lenina)

(Automatic control) (Remote control)

BAYDA, Leonid Il'ich; DOBROTVOESKIY, Nikolay Stepanovich; ORSEANSKIY, Dmitriy L'vovich; PCHELINSKAYA, Sof'ya Nikodimovna; RAZUMOVSKIY, Nikolay Nikolayevich; SVIRSKIY, Yevgeniy Antonovich, [deceased]; FREMKE, Andrey Vladimirovich, professor, doktor tekhnicheskikh nauk; KAZARNOVSKIY, D.M., redaktor; ZABRODINA, A.A., tekhnicheskii redaktor.

[Electric measurements; general course] Elektricheskie izmereniya; obshchii kurs. Izd. 2-o, perer. Moskva, Gos. energeticheskoe izd-vo, 1954. 496 p. (MIRA 7:12)  
(Electric measurements)



BAYDA, L.I., ZAKHAROV, V.K.

Electronic low a.c. voltage regulator. Priborostroenie no.11:13-14  
N '56. (MIRA 10:1)  
(Electronic instruments) (Voltage regulators)

**AUTHOR:** BAYDA, L.I., ZAKHAROV, V.K. (Leningrad) 103-8-4/8  
**TITLE:** Predetermination of the Operating Regime and Calculation of  
Electronic Voltage Stabilizers. (Vybor reshima i raschet  
elektronnykh stabilizatorov napryazheniya, Russian)  
**PERIODICAL:** Avtomatika i Telemekhanika, 1957, Vol 18, Nr 8, pp 724-739  
(U.S.S.R.)

**ABSTRACT:** Systems of electronic voltage stabilizers of the compensation  
type are investigated. A method of calculation is given, with the  
help of which sufficiently rational modes of operation for the  
assembly groups of the device can be selected and the corres-  
ponding parameters of the stabilizer can be calculated. By this  
means the experimental examination as well as tuning of the de-  
vices is considerably simplified. Small series (of 5-10 each) of  
some types of electronic voltage stabilizers were developed and  
built in the Laboratory for Automation and Remote Control of the  
Leningrad Electrotechnic Institute. Two of them are investigated  
in short and the schemes and parameters are described. (With 12  
illustrations and 2 Slavic References).

**ASSOCIATION:** Not given  
**PRESENTED BY:**  
**SUBMITTED:** 10.5.1956  
**AVAILABLE:** Library of Congress  
Card 1/1

Байда, Л.И.  
BAYDA, L.I., kand.tekhn.nauk; RYBAK, S.S., inzh.

Contact transformer changing d.c. to a.c. and having a sparkless  
commutation. Vest.elektroprom. 28 no.8:53-57 Ag '57. (MIRA 10:10)

1.Leningradskiy elektrotekhnicheskiy institut.  
(Electric transformers)

BAYDA, Leonid Il'ich; DOBROTVORSKIY, Nikolay Stepanovich; DUSHIN, Yevgeniy Mikhaylovich; MOKIYENKO, Dobroslava Nikolayevna; PREOBRAZHENSKIY Aleksey Alekseyevich; PCHELINSKAYA, Sof'ya Nikodimovna; STAROSEL'TSEVA, Yelena Aleksandrovna; FREMKE, Andrey Vladimirovich, doktor tekhn. nauk, prof.; ORSHANSKIY, D.L.; PREOBRAZHENSKIY, A.A., red.; SOBOLEVA, Ye.M., tekhn.red.

[Electrical measurements; a general course] Elektricheskie izmereniia; obshchii kurs. Izd.3., perer. i dop. [By] L.I. Baida i dr. Moskva, Gosenergoizdat, 1963. 428 p.  
(MIRA 17:3)