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The Dospal-Vuchka waterpower system. Nauka i tekhnolozhiya 16 no.
6:40-41 '64

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melior 8 no.3:75-79 '63.

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SL: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

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Genetics in obstetrics and gynecology. Akush. ginek. (Sofia)
4 no.: 300-311 '65.

1. Visssh meditsinski institut, Varna. Katedra po obshta biologiya
(rukov.: doc. M. Tsoneva-Maneva); Visssh meditsinski institut,
Varna, Katedra po akusherstvo i ginekologiya (rukov.: G. Iliev).

AVRAMOV, Iv., arkh.

"Planning of medium-sized towns in Bulgaria" by [arkh.] Stefan Stanev. Reviewed by Iv. Avramov. Stroitelstvo 10 no.4:32
Jl-Ag '63.

AVRAMOV, I.A.; REFIN, V.S.

Isolation of highly purified phosphoglyceric kinase from the skeletal muscles in rabbits. Biokhimiia 30 no.5:1187-1193 N-D '65. (MIRA 1961)

1. Laboratoriya biokhimicheskoy genetiki Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad. Submitted February 18, 1965.

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(Pumping machinery)

AVRAMOV, Khr.

Preparation of dilute hydrogen peroxide solution in pharmacy.
Farmatsiia 4 no.1:2(-21 Ja-F '54.

1. Farmatsevt, apteka No. 2, Gabrovo.
(HYDROGEN PEROXIDE,
*dilute solution, prep. of)

POVAZHENKO, I.Ye.; BRATYUKHA, S.I.; AVRAMOV, K.K.

Surgical intervention in ileus in horses. Veterinariia 30 no.10:45-50 0 '53.
(MIRA 6:9)

1. Kiyevskiy veterinarnyy institut. (Horses--Diseases)
(Veterinary surgery)

ANTONETS (docent) and POPOV, A. I. and AVRAMOV, K. K. (Assistants, Veterinary Faculty of the Ukranian Academy of Agricultural Sciences). (Abstracted by NOSKOV, A. I.)

"A case of mass cattle dermatosis".....
Veterinariya, vol. 39, no. 3, March 1962 pp. 30

TOSKIC, V.; AVRAMOV, L.

Yugoslavia (430)

Agriculture -- Plant & Animal Industry

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p. 26, Arhiv Za Poljoprivredne Nauke, Vol. 5,
no. 9, 1952.

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Vol. 2, No. 4, April 1953. UNCLASSIFIED

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Wet ✓ The application of synthetic phytohormones for vegetative propagation of the rootstocks. II. Milan Dragak and Lazar Averakov (Fac. Agr., Zemun, Yugoslavia). *Zemljitelj* 2, 87-108 (1953) (English summary).—The expts. were continued with the strains *Berlandiera* × *Riparia* kober 3 BB, *Berlandiera* × *Riparia* teleky 8 B, and *Shasseiss* × *Berlandiera* 41 B. The basal parts of the cuttings were treated with α -naphthylacetic acid, (I) α -naphthylacetamide, (II) β -indolylacetic acid, (III) and 2,4-dichlorophenoxyacetic acid (IV), also methylene blue (V) and bromophenol blue (VI). The long treatment method (24 hrs.) furnished better results with I, II, III, and V. VI in concn. of 0.02%, IV and also K3MnO₄ were unobtainable in their results. The commercial product "Roche 20B" in the 24 hr. treatment in 1:100 concn. gave practically the same results as obtained with the hormones, but in concn. of 1:500 will show much better results, as good as the ones obtained with glacial AcOH. The 60 min. and the 2-3 sec. treatment furnishes good results with V and VI, if these are applied in concn. of 0.1 and 0.2%. Wetner Jacobson

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AVRAMOV, L.

Some experiences in the application of synthetic phytohormones in the production of grapevine seedlings.

p. 15 (Poljoprivreda. Vol. 4, no. 6, June 1950. Beograd, Yugoslavia)

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February 1958

AVRAMOV, L.

The autofertility and autosterility of some domestic and foreign varieties of grapevines. p. 12.
(Poljoprivreda, Vol. 4, No. 12, Dec. 1956, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (REAL) Lc. Vol. 6, No. 8, Aug 1957, Uncl.

AVRAMOV, LAZAR

YUGOSLAVIA/Cultivated Plants. Fruits. Berries.

M

Abstr Jour : Ref Zhur - Biol., No 8, 1958, No 34826

Author : Avramov Lazar
Inst : University of Belgrade
Title : Data for Study of the Degree of Autogenous Fecundation in
Certain Varieties of Grapes Under the Ecological Conditions
Prevalent in Serbia.

Orig Pub : Archiv poljopr. nauke, 1956, 9, No 26, 41-58

Abstract : From 1950 to 1952, in various ecological regions of Siberia, a team of workers of the University of Belgrade has been studying the degree of self-procreation in 21 varieties of grapes with functionally hermaphrodite flowers, and in 9 varieties of grapes with functionally female flowers, by means of isolating the un-opened racemes in parchment bags. All varieties with functionally hermaphrodite flowers are self-fecundating: In the presence of self-pollination, they are forming a normally developed bunch with normal grapes and

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Periodical: POLJIVISTKA. Vol. 6, no. 9, Sept. 1958.

AVRA'OV, L.; LOVIC, R. Using reinforced-concrete posts in vineyards. p. 39.

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AVRAMOV, L.

TECHNOLOGY

Periodical: KEMIJA U INDUSTRIJI. Vol. 7, no. 7, July 1958.

AVRAMOV, L. Application of colchicine in the selection of plants. Kemija. p. A37.

Monthly List of East European Accessions (MEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

AVRAMOV, L.

"Method for Determining the Efficiency of Weights in Mercerizing." p. 10,
(LEKA PROMISHLENOST, Vol. 3, No. 2, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No., 5, May 1955, Uncl.

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Fume Dispersion Industrial Halls in Textile-Dyeing Factories. Leka
Promishlenost (Light Industry), #11:2h: Nov 54

AVRAMOV, L.

Classification of Colored Cotton Fabrics According to the Stability
of the Purples Being Used. Lekh Promishlenost (Light Industry), #5:13:May 55

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Shrinkage of cotton cloth in the finishing process. p. 23.
Vol. 5, no. 2, Mar./Apr. 1956, TEKHNIKA, SOFIYA, BULGARIA.

Source: East European Accessions lists, (EEAL) Library of Congress, Vol. 5,
No. 10. Oct. 1956.

A / R A M O V, L.

BULGARIA/Chemical Technology - Chemical Products and Their
Application, Part 4. - Dyeing and Chemical
Treatment of Textile Materials.

H-33

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 23555
Author : L. Avramov
Inst : -
Title : Upon the Finishing of Viscose Fabrics.
Orig Pub : Leka promishlennost, 1957, 6, No 1, 53-56
Abstract : The technology of finishing (mercerization, bleaching
and dyeing) of fabrics made of mixed viscose and cotton
fibers is described.

Card 1/1

AVRAMOV, I.

"Let us Study and Increase the Use of Dyes Produced in the Soviet Union and the Socialist Republics."

p. 32. (Elektroenergiia, Vol. 7, No. 2, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 11,
Nov, 1958

AVRAMOV, L.

"Chemical-resisting steel in the textile industry"

Tekhnika. Sofia, Bulgaria. Vol. 8, no. 2, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

AYEAMOV, L.

Water resistant and antirotting impregnation of cellulosic textile materials.
p. 30.

TEKSTILNA PROMISHLENOST, Sofia, Bulgaria, Vol. 6, no. 2, 1959

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AVRAMOV, Liuben

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Ratsionalizatsiia 15 no.5:21-23 '64

1. Head, Textile Laboratory at the Bulgarian Chamber of Commerce

AVRAMOV, M.

Results of the treatment of chronic hyperthyroidism with methyl-mercaptoimidazole preparations. Suvrem med., Sofia no.10:59-64 '60.

1. From the section of Endocrinology at the City Hospital in Razlog
(Chief physician D.Iconomov)
(THYROID ANTAGONISTS ther)
(HYPERTHYROIDISM ther)

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Treatment of endemic goiter with thyroid extract. Suvr. med.
13 no.3:53-55 '62.

1. Iz Gradska bolnitsa - Razlor (Gl. lekar D. Ikonov).
(GOITER) (THYROID HORMONES)

ZHABINSKI, Ivan, inzh.; KASABOV, Ivan, inzh.; AVRAMOV, Viki for, inzh.

Possibilities of improving heat systems of the Dimitrovo
Thermoelectric Plant. Elektroenergiia 12 no.11/12:25-28 M-D '61.

GIASPAROV, A., Ppuk., dr.; AVRAMOV, N., Major dr.

Clinical and radiological aspects of ascariasis. Voj. san.
pregl., Beogr. 12 no.11-12:594-599 Nov-Dec 55.

1. Interna klinika VMA i Radioloski institut VMA.
7, (ASCARIASIS,
clin. & x-ray aspects. (Ser))

GASPAROV, Antun, Potpukovnik dr.; LEPES, Tibor, major dr.;
AVRAMOV, Nebojsa, potpukovnik dr.

Clinical and x-ray diagnosis of teniasis. Voj. san. pregl.
Beogr. 13 no.11-12:551-556 Nov-Dec 56.

1. Oblasna bolnica Beograd i Parazitolosko odeljenje VMA.
(TAPEWORM, diag.
(Ser))

GASPAROV, Anteo, sanitetski pukovnik doc. d-r; AVRAMOV, Nebojsa, sanitetski
potpukovnik d-r; FILIPOVIC-RISTIC, Brana, d-r

Functional roentgenological signs of the colon in patients with
intestinal amebiasis and chronic colitis. Voj.san.pregl., Beogr.
17 no.9:901-904 S '60.

1. Vojna bolnica u Beogradu, Interno odeljenje, Rendgenolosko
odeljenje
(DYSENTERY AMEBIC radiogr)
(COLITIS radiogr)

AVRAMOV, N.; TODOROV, N.; NIKOLOV, P.

Aerosol therapy with tetracycline. Dokl. bolg. akad. nauk 15 no.6:
659-660 '62.

(TETRACYCLINE)

(AEROSOLS)

AVRAMOV, N.; SUTOREV, A.; VICHEV, St.

Simplified protective relay for average voltage networks. Gonishnik
mash elekt 13 no.2:187-196 '63 [publ. '64]

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Tetracycline aerosol therapy. Suvr. med. 14 no.9:33-36 '63.

(TETRACYCLINE) (INHALATION THERAPY)
(LUNG DISEASES) (TURPENTINE)
(AEROSOLS)

AVRAMOV, N.; ATANASOVA, E.; KIPROV, D.; DACEV, B.; PANOV, P.

Comparative experimental studies on the antiinflammatory effect of the therapeutic agents "Maraslavin" and "Infusion of Digitalis lanata 20:100", applied locally. Nauch.tr. vissh. med. inst. Sofia 42 no.4:29-35 '63

1. Chair of Pharmacology (Director: Prof. D. Paskov); Chair of Therapeutic Stomatology (Director: Prof. D. Svrakov) and Chair of Pathologic Physiology (Director: Prof. S. Pisarev) of the Medical Institute in Sofia.

*

AVRAMOV, N. N.

Cand Tech Sci -- (diss) "Basic problems of the determination of reserve power in coupling of power systems." Moscow, 1961. 14 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Lenin Power Inst); 150 copies; free; (KL, 6-61 sup. 212)

AVRAMOV, N.
(3814)

Institute of Pharmacology, Sofia, Aleksandrowa Bolnitsa. Histamin 'ovi i antihistamin' ovi preparati Histamine and anti-histamine preparations Bulgarska Klinika 1948, 3 (192-200)

Discussion of the patho-physiological role of histamine, review of antihistaminic preparations, and recording of the discovery of the Russian authors Balahovski and Boudnitskaya, of the antihistaminic properties of vitamin A derivatives, especially citrol and geraniol. Following prolonged trials of treatment of bronchial asthma with rose oil, which contains 50 % geraniol, it was shown in studies of the action of histamine, rose oil and phenyl ethyl alcohol on isolated intestine and uterus that the antihistaminic action of rose oil was due to its content of geraniol and not of phenyl ethyl alcohol.

Nikolov - Sofia

So: Excerpta Medica, Vol. II, No 7, Sec. II, July 1949

AVRAMOV, N. R.

NIKOLOV, P., BRATANOV, K., AVRAMOV, N. R.

Investigation on the effect of potassium and calcium salts on
lactation, preliminary communication. Izv. med. inst., Sofia
1:151-168 1951
(CJMWL 21:3)

1. Laboratory of Pharmacology (Head -- Prof. P. Nikolov) of the
Institute of Experimental Medicine of the Academy of Medical
Sciences (Director -- Academician D. Orakhovats).

NIKOLOV, P.; AVRAMOV, H. R.

Investigation on the effect of *Foeniculum vulgare*, *Carum carvi*,
Anisum vulgare, *Crataegus oxyacanthus*, and *Galga officinalis* on
lactation. *Izv. med. inst.*, Sofia 1:169-182 1951 (CML 21:3)

1. Laboratory of Pharmacology (Head -- Prof. P. Nikolov) of the
Institute of Experimental Medicine of the Academy of Medical
Sciences (Director -- Academician D. Orakhovats.)

✓The joint influence of stimulants and hypnotics with
parasympathetic action upon the gastric secretion.
N. Avramov. (V. Tcherrenkov Med. Acad., Sofia, Bulgaria).
1954. *Problemy Fiziol. Med. i Patol. Tserenkovsk.*
2, No. 2, 63-84 (1954). — In the experiments, 5 cats were used and
the experiments lasted 10 minutes. The following drugs were
administered (per kg. of live wt.) caffeine-BrONa (I) 0.01
and 0.12, cardiazole (II) 0.003, nitrate of strychnine (III)
0.00025, chloal hydrate (IV) 0.10 and 0.15 g. The IV
was administered (0.2 cc. subcutaneous) in 0.5% active
choline VI. Other experiments were run with 0.01 and 0.12 g.
Na salt of bismut (VII) 20.0 g., and the action VI was admin-
istered in V total. I shows varying results. The larger
doses increase the flow of gastric juice. The larger
doses of cardiazole (VII) very large doses increase the flow of juice.
Increases the free HCl, and shows varying results with respect
to VII. II increases the amount of juice, the free HCl, and the
general acidity, but does not provoke any increase in the
bismut reaction, and has no influence upon the VII. III
causes an increase of the juice and the HCl, decreases the
bismut reaction, and the amt. of VII is somewhat reduced.
IV, if given in doses that the narcotic action can set in
fully, a heavy reduction of the gastric flow, the secre-
tion of free HCl becomes insufficient for digestive purposes,
the general acidity is low, and VII is almost inactive. If
the dose is small or the animal does not become narcotized,
all the same effects will occur, yet to a lesser degree. VI

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AKRAMOV, N.

shows the same action as IV, but to a lesser degree. If suboxide is given together with IV, all the same effects are observed, as with IV alone, but only to about 60% in magnitude. All these exper. were repeated by administering all three drugs per rectum, so as to be sure that really a parasympathetic action was responsible for the effects observed. In the exper. where V was administered it was

found that the drug which acts upon the autonomic nerve system always wins the upper hand. Thus, in the exper. with V + VI it can clearly be seen that V acts upon the parasympathetic nervous system, whereas VI acts upon the sleep-inducing centers in the brain.

Werner I. Johnson

2/2

AVRAMOV, N.R.

Considerations on diuretic effects of *Lilium candidum* bulbs.
Suvrem.med., Sofia 6 no.10:12-19 1955.

1. Iz Instituta po farmakologiya pri Visshia meditsinski institut
V.Chervenkov, Sofia (sav. katedrata: prof. P.Nikolov).

(DIURETICS,

Lilium candidum bulbs (Bul))

(PLANTS, *Lilium candidum* bulbs, diuretic eff. (Bul))

NIKOLOV, Petur, prof; AVRAMOV, Nikola, d-r.

Effect of vegetative innervation on pepsin secretion. Izv.med.
inst., Sofia 11-12:103-120 1955;

1. Katedra po farmakologija (zav.: prof. P. Nikolov) pri Vishia
meditsinski institut V. Chervenkov-Sofia.

(AUTONOMIC NERVOUS SYSTEM, physiology,
regulation of pepsin secretion)

(PEPSINS, physiology,
secretion, autonomic regulation)

AVRAMOV, N.; KIPROV, D.; KAZAKOV, Iv.

Certain considerations on lactogenic stimulants. Suvrem. med., Sofia
8 no.5:17-25 1957.

1. Iz Katedrata po farmakologiya pri VMI--Sofia (Zav. katedrata: Prof.
P. Nikolov) i Katedrata po patofiziologiya pri VMI--Sofia (Zav. katedrata:
prof. St. Pisarev).

(LACTATION, effect of drugs on,
stimulants, in guinea pigs (Bul))

AVRAMOV, N.

~~ANTIHISTAMINIC PREPARATIONS~~
Antihistaminic preparations; review. Suvrem. med., Sofia 8 no.10:
118-123 1957.

1. Iz Katedrata po farmakologija pri VMI --Sofia (zav, katedrata: prof.
P. Nikolov).

(ANTIHISTAMINICS,
review (Bul))

ATRAMOV, N. R.

Studies on the effect of neurotropic substances caffeine-sodium benzoate, luminal sodium, acetylcholine and atropine on anti-anemic intrinsic factor. Nauch. tr. vissh. med. inst. Sofia 39 no.2:201-228 '60.

1. Predstavena ot prof. P. Nikolov, zav. Katedrata po farmakologiya.

(GASTRIC JUICE) (CAFFEINE pharmacol)
(BENZOATES pharmacol) (PHENOBARBITAL pharmacol)
(ACETYLCHOLINE pharmacol) (ATROPINE pharmacol)

KIMMEL', I.; AVRAMOV, P.

Method of compiling wages and qualifications handbooks. Sots.
trud no.5:64-70 My '57. (MIRA 10:6)
(Wages)

FLEUT, D.; AVRAMOV, R.; KANISAVLJEVIC, B.

Lipoproteins in tuberculous patients. Tuberkuloza 16 no.5:
372-377 S-D '64

1. Vojni institut za tuberkulozu (Nacelnik: puk. prof. dr.
M. Tucakovic); Biohemijski institut farmaceutskog fakulteta u
Beogradu (Sef: prof. dr. I. Berkes).

AVRAMOV, Ruben (Sofia)

Developing the theoretical activity of the Bulgarian Communist Party
after September 9, 1944, and building socialism in the People's
Republic of Bulgaria. Spisanie BAN 5 no.1:134-161 '60. (EEAI 9:11)
(Bulgaria--Communist Party)
(Bulgaria--History)

TANEV, Iv., prof.; ZHELYAZKOV, S.; SHCHEREV, P.; TODOROV, M.;
BOYADZHIYEVA, M.; AVRAMOV, S.

Early diagnosis and treatment of whooping cough. *Pediatrics* 36
no.2:33-38 F '59. (MIRA 12:4)

1. Iz kafedry inf'ektsionnykh bolezney i epidemiologii (zav. - prof.
P. Verbev, zav. klinikoy - prof. Iv. Tanev) pri Vysshem meditsin-
skom institute (Sofiya).

(WHOOPIING COUGH

early diag. & ther. (Rus))

USUNOFF, G.; ATZEV, E.; AVRAMOV, S.

Change in rabbits' brain electric activity after local atebaine
application on cortex. Dokl. Bolg. akad. nauk 17 no.1:213-216
'64.

USUNOFF, G. [Uzunov, G.]; ATZEV, E. [Atiev, E.]; AVRAMOV, S.

Change in rabbit's brain electric activity after local
aterbine application on cortex. Doklady Ban 17 no.2;
213-216 '64.

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Avramov, S. L. Metodichni materiali po protivorakovata propaganda. (Sofiya)
Nauka i iskustvo (1952) 71 p. (Methodical materials in anticancer propaganda.
Illus.)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 10,
Oct. 1953, Uncl.

AVRAMOV, T.

AVRAMOV, T. Distribution of the earth in making ditches and embankments by machines. p. 50.

Vol. 8, No. 5, 1956.

TRANSPORTING DELO

TECHNOLOGY

Sofia, Bulgaria

So: East European Accession, Vol. 6, No. 2, Feb. 1957

AVRAMOV, T.

TECHNOLOGY

Periodicals: STROITELSTVO. Vol. 5, No. 9, 1958.

AVRAMOV, T. Methods for raising the productive work of dredging machinery. p. 11.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959
Unclass.

AVRAMOV, T. —

TECHNOLOGY

Periodicals: STROITELSTVO. Vol. 5, No. 10, 1958.

AVRAMOV, T. Utilizing dredging machinery for preparing the roadbed for the railroad tracks between Resen and Samovodani. p. 11.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959.
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AVRAMOV, T.

Striking the balance of the specialists with higher and medium secondary education. Trud tseni 4 no.5:63-72 '62.

AVRAMOV, Todor

Training of skilled labor, and its problems. Trud tseni
4 no.6:24-34 '62.

AVRAMOV, Todor

Basic problems in the methods of making the labor balance sheet with regard to youth. Trud tsent. 4 no.10:53-61 '62..

AVRAMOV, Todor

Manpower in building. Trud tseni 5 no. 7:33-44 '63.

AVRAMOV, Todor, kandidat na ikonomicheskite nauki

Some trends in the conditions, distribution and utilization
of labor resources in Bulgaria. Trud tseni 6 no. 1: 1-13
'64.

MELEOV, Todor, Kandidat na ikonomicheskiye nauki

Planned training and professional orientation of students in
Bulgaria. Trud issue 6 no. 217-19 '64.

AVRAMOV, Todor, kard - ekonomicheski

Problems related to the conditions, distribution, and
utilization of labor resources in farming. Trud tsent. 6
no.9:1-13 '64.

KOSTYUK, V.A.; PEREKRESTOV, V.I.; BUL'SKIY, M.T. [deceased]; VALTER, O.I.;
KISLOV, N.A.; TSVETKOV, P.M.; AVRAMOV, V.M.

Rapid repair of the hearth bottom fritting of tilting open-hearth
furnaces. Stal' 23 no.8:707-710 Ag '63. (MIRA 16:9)
(Open-hearth furnaces--Maintenance and repair)

AVRAMOV, V.P., inzh.

Dynamics of the cable of electric tractors. Izv. TSKhA no.4:
173-182 '58. (MIRA 11:10)
(Electric cables) (Tractors)

AVRAMOV, V. P.: Master Tech Sci (diss) -- "Investigation of oscillations in the cable-winding equipment and the body of a caterpillar-type electric tractor". Khar'kov, 1959. 16 pp (Min Higher Educ Ukr SSR, Khar'kov Polytech Inst im V. I. Lenin), 120 copies (KL, No 11, 1959, 118)

AVRAMOV, V.P., kand. tekhn. nauk, dotsent

Static tension of tractor crawlers in driving on rough tracks.

Izv. vys. ucheb. zav.; mashinostr. no. 10:134-141 '65

(MIRA 19:1)

1. Submitted June 12, 1964.

S/188/60/000/03/08/008
B019/B056

AUTHORS: Avramov, V. V., Dzherpetov, Kh. A.

TITLE: The Measurements in a Low-pressure Discharge by Probes

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 3, fizika, astronomiya, 1960, No. 3, pp. 55 - 60

TEXT: The measurements of the discharge characteristics were carried out in a cylindrical discharge tube. In the case of direct current discharges, oxide cathodes and -anodes, and for high-frequency discharge external ring electrodes were used for exciting the discharge. Measurements were carried out at a constant alternating current amplitude and constant discharge current, for which purpose a total of five probes was fitted. In the measurements, one-, two-, and three-probe combinations were used, and Figs. 1 and 2 show the characteristics of the various probe combinations. Tables 1 - 4 give electron temperatures and the electron concentrations measured by means of these probe systems in neon and helium in the case of direct current discharges, and compared with the values obtained by means of other methods. In Tables 5 and 6 the electron temperatures and electron

Card 1/2

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AVRAMOV, Yu.S.; BELYAKOV, L.N.; LIVSHITS, B.G.

Peaks of internal friction in nickel-chromium base solid solutions.
Fiz. met. i metalloved. 6 no. 1:116-121 '58. (MIRA 11:8)

1. Moskovskiy institut stali.
(Alloys--Metallography)
(Friction)

AVRAMOVA, B.

120th anniversary of D.I.Mendeleev's birth. Parnatsia, Sofia 4
no.3:40-41 May-June 54.

(BIOGRAPHS,
Mendeleev, D.I.)

DALEV, D.; DRIANOVSKA, L.; STAIKOV, V.; AVRAMOVA, B.; DELCHEV, G.; STOIANOV,
N.

Influence of fertilization on the alkaloid content and yield of
Atropa belladonna in Bulgaria. Trud Khim-farmatsevt inst 4:56-57
163.

STEFANOV, P.

Alkaloids of *Cytisus supinus* L. ssp. *rhodopaeus* (Wagn.) Stef.
et Stef. Inst. Khim.-farmats. Inst. 4837-38 '63.

Alkaloids of *Lupinus graecus* Boiss. Ibid. 39:40

Bulgarian species of *Echinops* and their echinopsine content.
Ibid. 40:46

AVRAMOVA, Elka, inzh.

Abrasion along the Bulgarian Black Sea coast. Priroda
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SURNAME in case of given name

Country: Bulgaria

Academic Degree: MD

Affiliation: Co-Editor of *Klinika*, Editing Director: Dr L. STOYANOV

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Co-authors:

MATEV, Mrs. Sofia

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Fomenko, A.S., Gankina, I.L., Avramova, T.M.

TITLE:

Study of the mechanism of the decomposition of hydrogen peroxide on activated charcoal by the isotope method

PERIODICAL: Kinetika i kataliz, v.2, no.5, 1961, 732-736

TEXT: The decomposition of hydrogen peroxide on activated charcoal was studied by many authors but their assumptions on the mechanism of this process are in contradiction. In the present work the mechanism was studied using O^{18} introduced into the charcoal oxides (with H_2O_2 of the natural isotope composition) or into the H_2O_2 (with ordinary oxygen charcoal). The isotope compositions of the charcoal oxides and of gaseous oxygen were determined to evaluate the mechanism. The O^{18} -containing charcoal was prepared by grinding the commercial charcoal type "BAU" (BAU), de-ashing with acid, washing, drying and activating in CO_2 at $800^\circ C$ for 6 hours and $1000^\circ C$ for 3 hours; after this, the material was treated with hydrogen at $1000^\circ C$ (which was then pumped off at 600 to $650^\circ C$), cooled in oxygen-free nitrogen, treated at room temperature with O^{18} -enriched gaseous oxygen and
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stored in heavy-oxygen water vapour. The procedure for preparing and storing ordinary oxygen-charcoal was identical but ordinary oxygen and water vapour were used. Special experiments were carried out in which charcoal containing ordinary oxygen was treated with heavy-oxygen water vapour whose final isotope content was then determined, or charcoal containing O^{18} was treated with ordinary water, filtered off and its isotope composition determined by mass spectrometry on the CO_2 obtained by degassing at 300 to 550°C. For H_2O_2 , mass spectrometric isotope analysis was carried out on the oxygen evolved when the peroxide was decomposed with potassium permanganate: and for water, on CO_2 after exchange with the water. Results showed that there is no exchange of the oxygen of the basic oxides with water. For the main H_2O_2 decomposition experiments in a quartz tube containing 1 to 4 g of degassed charcoal was put in a furnace. One end of the tube was connected to a trap for freezing out the desorbed gases and to a vacuum installation: the other to a trap containing the required quantity of peroxide, freed from dissolved oxygen. The tube was periodically rotated. After the required time, the

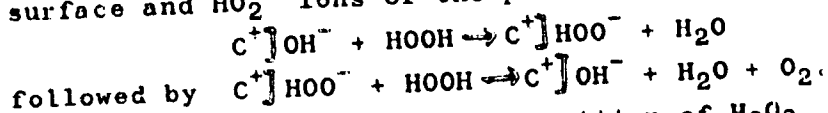
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Study of the mechanism. . .

water and undecomposed peroxide was distilled and the charcoal degassed as before. The CO₂ fraction, collected at 300 to 550°C, was analysed for O¹⁸. In some experiments the isotope composition of the oxides was determined from the water obtained during their treatment with hydrogen. Mass spectrometry revealed carbon dioxide as well as oxygen in the gaseous decomposition products. In agreement with the views of G.Brinkmann (Ref.6: Ang. Chem., v.61, 1949, 378) the results suggest that a double decomposition type of reaction occurs between the basic OH groups in the charcoal surface and HO₂⁻ ions of the peroxide



The origin of CO₂ in the decomposition of H₂O₂ on charcoal is not clear since the simultaneous presence of H₂O and CO₂, in view of the exchange between them, alters the primary CO₂ composition. The observed change in the isotope composition of oxides on charcoal cannot be attributed to further oxidation of the coal to give oxygen compounds, differing from OH groups, whose high-

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temperature decomposition could give a further quantity of CO₂ with the peroxide isotope composition. No free radicals on the charcoal surface were found by the electron paramagnetic resonance method and this is contrary to the chain mechanism proposed by various authors (e.g. Ref. 8; V.A. Garten, E. Epinger, D.E. Weiss, Austr. J. Appl. Sci., v. 7, 1956, 149). Academician (AS UkrSSR) A.I. Brodskiy helped in the work. There are 2 tables and 12 references: 2 Soviet-bloc and 10 non-Soviet-bloc. The four most recent references to English language publications read as follows: Ref. 4: A. King, J. Chem. Soc., 1936, 1688; Ref. 5: E.C. Larsen, J.H. Walton, J. Phys. Chem., v. 44, 1940, 70; Ref. 10: B.R. Puri, L.A. Scharma, D.D. Singh, Ind. Eng. Chem., v. 50, 1958, 1075; J. Ind. Chem. Soc., v. 35, 1958, 765; Ref. 12: M. Cohn, H.C. Urey, J. Amer. Chem. Soc., v. 60, 1958, 679.

ASSOCIATION: Institut fizicheskoy khimii im. L.V. Pisarzhevskogo
AN UkrSSR Kiyev (Institute of Physical Chemistry
im. L.V. Pisarzhevskiy AS UkrSSR, Kiyev)

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