"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

Cybernetics in cosmic space

P/005/62/000/035/001/001
I004/I204

space flight employed methods of mathematical statistics in order to distinguish between lawful effects and casual ones. He suggested that active cooperation of cosmic vehicles may lead to the assembling in outer space of astronomical observatories acting automatically and to the launching of cosmic vehicles. He predicted that a group of cosmic vehicles launched simultaneously may form an expedition for exploring outer space.

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHAR, E.

SCIENCE

Periodical: GEODEZJA I KARTOGRAFIA. Vol. 7, no. 1, 1958.

BUCHAR, E. The problem of the invariability of the zenithal distance in the method of equal altitudes. p. 3.

Monthly List of East European Acessions (EEAI), LC, Vol. 8, No. 3, May 1959
Unclass.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

HUNGARY/Inorganic Chemistry. Complex Compounds. C

Abs Jour: Ref Zhur-Khim., No 24, 1958, 80983.

Author : Duchar E., Suchy K.
Inst :
Title : Chromatography of Certain Isomeric Complex Compounds.

Orig Pub: Magyar kem. folyoirat, 1958, 64, No 2, 45-46.

Abstract: Chromatographic separation of certain isomeric complexes, such as geometrical isomers (pink and violet color) of cobalt triglycine, was investigated. It was found that the above compounds have different R_f. From the Cr complexes, dioxalate-dihydrochromiates (cis-series) were isolated. The violet analogue occupied greater space on chromatograms. The green dioxalatehydroxihydro-

Card : 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHAR, Evzen

Chemie pro desaty postupny rocnik. (Chemistry for the Tenth Grade. 4th ed. illus., indexes) Authors: Evzen Buchar, Frantisek Sorm. Josef Trtilek, ed. Prague, SPN, 1957. 155 p.

Bibliograficky katalog, CSR, Ceske knihy, No.36. 15 Oct 57. p. 778.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHAR, J.; PRCHLIK, J.

Fine mesh for camera tubes. p. 213.

Vol. 17, no. 4, Apr. 1956
RUDY
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

2393 RESISTICON, TYPE 65 QK 40 621 397 511

[illegible]

[illegible] The device consists of [illegible]

[illegible] 1350 V [illegible]

[illegible]

[illegible] The tube has a [illegible]

at 4800 A and its sensitivity is 60 μA/lm

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHAR, Ye

"The Partial Lunar Eclipse Of August 5, 1952." p. 18.
(Biulleten Astronomicheskikh Insitutov Chekhoslovakii.
Bulletin Of The Astronomical Institues Of Czechoslovakia.
Vol. 4, No. 1, Feb. 1953, Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3. Library of Congress, March 1954, Uncl.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

DUCHAI, Ye.

"A New Impersonal Micrometer For The Circumzenithal Instrument." p. 77 (Biulleten Astronomicheskikh Institutov Chekhoslovakii. Bulletin Of The Astronomical Institues Of Czechoslovakia. Vol. 4, No. 4, July 1953, Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3. Library of Congress, March 1954, Uncl.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHAR, YE.

"Occultation of the Star BD/15°447 by Jupiter on October 9, 1952." p. 174. (Biulleten Astronomicheskikh Institutov Chekhoslovakii. Bulletin of the Astronomical Institutes of Czechoslovakia. Vol. 4, no. 6, Dec. 1953. Praha).

SO: Monthly List of ~~Russian~~ East European Accessions, Vol. 3, No. 6, Library of Congress, June 1954, Uncl.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHAROV, Nikolay St.

Ekskurziya iz Atomiya Tsentur by Vasil Y. Khristov 1 Nikolay St. Bucharov. Sofiya, "Narodna Prosveta", 1963.

152 p. illus.

1. Bulgarska Akademiya na Naukite, Sofia Fizicheski Institut. 2. Bulgarska Akademiya na Naukite, Sofia. Atomna Nauchnoeksperimentalna Baza. 3. Nuclear reactors - Bulgaria. 4. Bulgaria - Nuclear reactors. 1. Title. 11. Bucharov, Nikol-

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BULGARIA

TENEV, K.A.; SAEV, S.K. and BUCH AROV, T.R.; Department of Cardiovascular Surgery (Katedra po surdechno-sudova khirurgiya) Head Prof K. STOYANOV, of Institute for Graduate Medical Studies.

"Comparative Evaluation of Intravenous Routes of Administrations."

Sofia, Suvremenna Meditsina, Vol 14, No 6, 1963; pp 28-35.

Abstract [English summary modified]: Based on French studies by Aubaniac an Lataste and on authors' own necropsy and clinical data, a very strong case is made for the use of the subclavian vein for emergency administration of fluids and drugs in case of severe shock and apparent clinical death. Other routes including osseous are also briefly reviewed and discussed. Table, 3 diagrams, 4 EEGs-BP etc. kymograms; Two Czech, 2 Soviet and 3 Western ref's.

1/1

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BROVKOV, G.N.; BUCHARSKAYA, G.S.

Facies-paleogeographic conditions governing the formation of Silurian formations in Tuva. Geol. i geofiz. no.4:66-77 '65. (MIRA 18:8)

1. Krasnoyarskaya kompleksnaya laboratoriya Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

ROMANOV, A.A. (Sverdlovsk); BUCHATSKAYA, M.M. (Sverdlovsk)

Evaluation of the energy of the interaction between oxygen and hydrogen dissolved in molten iron. Izv. AN SSSR. Met. no.3:11-17 My-Je '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHATSKIY, I.I., kand.med.nauk

Dispensary treatment in Alma-Ata. Zdrav.Kazakh. 17 no.6:7-12 '57. (MIRA 12:6)

1. Glavnyy terapevt Gorzdravotdela.
(ALMA-ATA--DISPENSARIES)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

TKACHENKO, M.Ye.; BUGHATSKIY, M.A.; MIKHAYLOVA, N., redaktor; KHIGIROVICH, I., tekhnicheskiy redaktor

[The cultivation of foxtail millet and its use for farming purposes] Kul'tura chumizy i ispol'zovanie ee dlia khoziaistvennykh tselei. Alma-Ata, Kazakhskoe gos. izd-vo, 1950. 14 p. (MLRA 10:1)
(Millet)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHATSKIY, Ye.G.; YENIKEYEV, R.N.; BEZRUKOV, V.M.; KONSTANTINOV, G.V.; SHEVYREV, S.A.; MEDVEDEV, I.I.

Calculated seismicity of single-story framed industrial buildings. Prom. stroi. 41 no.6:35-37 Je '64. (MIRA 17:9)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHATSKIY, Ye.G., inzh.; BUDANOV, V.I., inzh.; PARAMZIN, A.M., inzh.

Structural layouts of one-story industrial buildings for construction in regions with high seismicity. Prom. stroi. 40 [i.e. 41] no.4: 24-29 Ap '63. (MIRA 16:3)

1. Kazakhskiy filial Akademii stroitel'stva i arkhitektury SSSR.
(Earthquakes and building)
(Industrial buildings--Design and construction)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHBERG, M., inz.

Technique of pistol-spray lacquering. Pt.1. Kem ind 11 no.12:713-714 D '62.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHBERGER, M., inz.

Technique of lacquer spraying. Pt. 2. Kem ind 12 no.5:350-351 My '63.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

89403

S/062/61/000/001/011/016
B101/B220

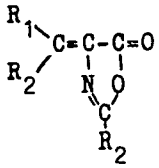
5.3610 2209, 1375

AUTHORS: Ciorenescu, Caterina, ~~Buchen-Bârlădeanu, Ludmilla~~ [Abstracter's note: or Bîrlădeanu], and Sternberg, René

TITLE: Synthesis of α-aminoketones

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, no. 1, 1961, 144-148

TEXT: The authors mention the use of α-aminoketones as starting material for the synthesis of oxazoles which are used as scintillators. After mentioning the known methods of synthesis from α-haloketones, oximino ketones, oxime aryl sulfonates, N,N-dichloro-sec-alkyl amines, and N-acylated amino acid chlorides, they describe a simple method for the synthesis of aromatic α-aminoketones. Azlactones (derivatives of 5-oxyzolone) were used as initial substances:



(I)

Card 1/4

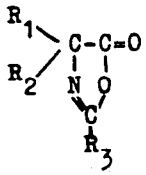
APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

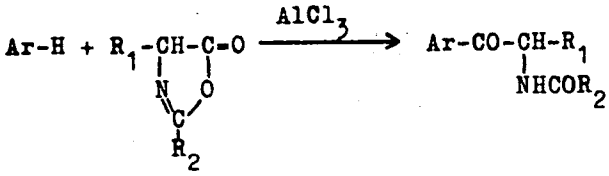
"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

89403

Synthesis of α-aminoketones

S/062/61/000/001/011/016
B101/B220

and  (II). Saturated (II) is more reactive than unsaturated (I). It can be obtained by treatment of α-acyl amino acids or α-amino acids with acetaldehyde. Azlactones react with aromatic hydrocarbons in the presence of electrophilic catalysts ($AlCl_3$):



From this reaction the authors obtained α-acyl aminoketones by treatment of the n-benzoyl derivatives of glycine, alanine, α-aminobutyric acid, phenyl glycine, and phenyl alanine with acetaldehyde. If the low α-amino acids are treated directly with acetanhydride, it is difficult to separate the excess aldehyde from the azlactone. In the case of phenyl alanine, also α-amino indanone was formed owing to a side reaction. In the case of

Card 2/4

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

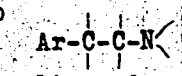
"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

89403

Synthesis of α-aminoketones

S/062/61/000/001/011/016
B101/B220

higher homologs, there occurs only this reaction which will be dealt with elsewhere. Results are summarized in a table. Since all α-aryl aminoketones possess the group



which occurs also in adrenalin and ephedrine, the substances obtained will be studied as to their physiological effect. It is emphasized that the α-aminoketones are valuable intermediate products for the synthesis of derivatives of pyrrole, imidazole, and oxazole. The investigation will be continued with higher aromatic hydrocarbons with a view to obtaining α-acyl aminoketones with various aryl radicals, which can be produced by other methods only with difficulty and are able to serve as initial substances for the synthesis of bisubstituted oxazoles. There are 1 table and 16 references: 2 Soviet-bloc and 7 non-Soviet-bloc.

ASSOCIATION: Institute of Chemistry, Academy of the Rumanian People's Republic

SUBMITTED: June 4, 1960

Card 3/4

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

89403

Synthesis of α-aminoketones

S/062/61/000/001/011/016
B101/B220

$NH-COR_2$

α-Ациламинокетоны $Ar-CO-CH-R_1$

1 Исходные рективы		Ar	R_1	R_2	Т. пл. °C 12	Выход % 13	Литература 14
2 ароматическая компонента	3 аминокислота						
4 Бензол	5 Гиппуровая	C_6H_5	H	C_6H_5	123	81	[11]
	6 N-бензоилаллании	C_6H_5	CH_3	C_6H_5	103	82	[13]
	7 N-бензоил-α-аминомасляная	C_6H_5	CH_3CH_2	C_6H_5	101	84	[14]
	8 N-ацетилфенилглицин	C_6H_5	C_6H_5	CH_3	134	60	[15]
	9 N-бензоилфенилаллании	C_6H_5	$C_6H_5CH_2$	C_6H_5	144	28	
10 Анизол	5 Гиппуровая	$CH_3O-C_6H_4$	H	C_6H_5	113	16	
		$HO\cdot C_6H_4$	H		156	20	
11 Толуол	6 N-бензоилаллании	$CH_3\cdot C_6H_4$	CH_3	C_6H_5	113	81	[16]

Legend to the table: 1) initial substances; 2) aromatic component; 3) amino acid; 4) benzene; 5) hippuric acid; 6) N-benzoyl alanine; 7) N-benzoyl-α-aminobutyric acid; 8) N-acetyl-phenyl glycine; 9) N-benzoyl-phenyl alanine; 10) anisole; 11) toluene; 12) melting point; 13) yield; 14) reference.

Card 4/4

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

89404

S/062/61/000/001/012/016
B101/B220

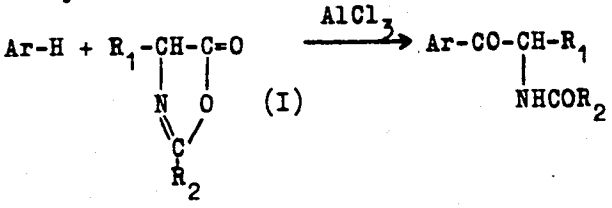
5.3610 2209, 1375

AUTHORS: Ciorenescu, Caterina and Buchen-Bârlădeanu, Ludmilla
[Abstracter's note: or Bîrlădeanu]

TITLE: Synthesis of cyclic α-aminoketones

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, no. 1, 1961, 149-151

TEXT: In Ref. 1, it has been shown that saturated azlactones (I) form α-acyl aminoketones with aromatic compounds in the presence of $AlCl_3$:



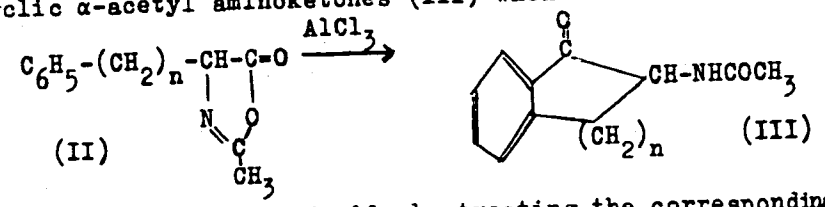
It was found that, due to internal condensation, azlactones of type II

Card 1/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

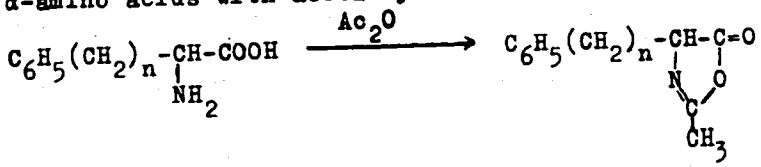
"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

(n = 1,2,3) form cyclic α-acetyl aminoketones (III) when treated with $AlCl_3$ and CS_2.



(II) (III)

Azlactones of this type are easily obtainable by treating the corresponding α-amino acids with acetanhydride:



(II)

In this way, the following compounds were synthesized: 2-acetyl amino-indanone; 2-acetyl aminotetralone-I; 4-acetyl aminobenzosuberone-3, whose synthesis had not yet been mentioned in the literature. The hydro-

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

89404

Synthesis of cyclic...

S/062/61/000/001/012/016
B101/B220

chlorides of these α-aminoketones were obtained by hydrolysis. Since the azlactones of this series can be easily synthesized, the authors recommend this method for the synthesis of cyclic α-aminoketones. There are 9 references; 1 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION: Institute of Chemistry, Academy of the Rumanian People's Republic

SUBMITTED: June 4, 1960

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHBORN, Eberhard

Recent findings on the endocrine regulation of water and electrolyte metabolism. Cas.lek.cesk. 99 no.26;823-828 24 Je '60.

1. Iinterni klinika university v Mnichove, prednosta prof. dr. H.Schwiegk.
(WATER ELECTROLYTE BALANCE)
(VASOPRESSIN physiol)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEK, B. YE.

P-3

SOV/77-4-2-15/18

23(4) 23 (5)

AUTHOR: Lyalikov, K.S.

TITLE: Successes of Soviet Electrophotography (Uspekhi sovetskoy elektrofotografii) A Scientific and Technical Conference on Questions of Electrography (Nauchno-tekhnicheskaya konferentsiya po voprosam elektrografii)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 2, pp 149-152 (USSR)

ABSTRACT: This is an account of a scientific and technical conference on electrography, the first to be held in the Soviet Union and evidently in the world. It was organized in Vil'nyus on December 16-19, 1958 by the Soviet Narodnogo khozyaystva Litovskoy SSR (Council for National Economy of the Lithuanian SSR), the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta ministrov Litovskoy SSR (State Scientific and Technical Committee of the Council of Ministers of the Lithuanian SSR) and the Nauchno-issledovatel'skiy institut elektrografii (Scientific Research Institute of Electrography). The conference, attended by over 300 scientific workers, was opened by the Deputy Chairman of the Council for National Economy of the Lithuanian SSR P.A. Kul'vets, after which the director of the Institute for Electrography, I.I.Zhilevich, reviewed the state and prospects for development of electrography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photo-active materials with high dark resitance; b) physical research into the internal photoeffect; c) development of photosemiconductor layers; d) development of the theory of the electrophotographic process. K.S. Lyalikov (speaking also for O.G. Popova) gave a report in which he suggested determining the light sensitivity of electrophotographic layers in GOST units. N.Z. Plavina (speaking also for I.I.Zhilevich, L.I.Krun'ko, N.N.Markevich, Z.I. Kalinauskene and O.M. Suveyzdis) reported on some research on the sensitization of a semiconductor in electrophotographic layers. V.M. Fridkin gave a report on highly sensitive electrophotographic layers and an electrophotocopying device, and reviewed the formation process of the latent electrophotographic image on the basis of the zonal theory. He also described the design of an electrosensitometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the circuit of an electrophotographic copying device. Anfilov finished describing the latter and then spoke on the mechanics and kinetics of the development of the latent electrophotographic image in liquid developers.

Card 3/10

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/77-4-2-15/18

Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

K.M. Vinogradov described some of the features of the cascade and liquid methods of electrophotographic development. Yu.Ye. Karpeshko devoted his report to the criterion of light sensitivity of the elctrophotographic process. After the reports, a discussion took place on methods of determining the light sensitivity of electrophotographic layers. A.N. Chernyshev spoke on the prospects of developing polygraphic processes using electric and magnetic forces. O.V. Gromov (speaking also for I.I. Zhilevich, A.A. Sukhiy, V.A. Gordeyeva, A.S. Pausha and Yu. I. Kevalaytis) reported on the development of elctrophotographic reproducing equipment. A.S. Pausha (speaking also for I.I. Zhilevich, A.S. Borisovich, N.M. Gal'vidiks and M.I.Rautkauskas) reported on the use of electrographic methods in recording oscillographs and other recording instruments. V.P. Yurchenko (speaking also for L.N.Balin) spoke on the possibility of electrophotographically recording images from electron-beam tubes. L.S. Korol' (speaking also for N.N. Markevich, T.I. Kozlovskaya, B.I. Kalinauskene, M.K. Naynens, I.I. Zhilevich and E.A. Montrimas) gave a detailed description of laboratory and machine methods of producing photosemiconductor papers (zinc oxide was used). A.A. Sukhiy (speaking also for I.I. Zhilevich, O.V. Gromov, V.A. Gordeyev , N.V. Fedotov and T.N. Ger) described a laboratory and industrial machine for producing photosemiconductor papers. T.A. Shishkina (speaking also for Ya.A. Oksman) reported on a method of examining electrophotographic materials using an a/c bridge. S.I. Khotyanovich (speaking also for A.I. Gikens and I.S. Shileykens) spoke on developing materials for electrophotography and ferromagnitography, including developers giving a "reverse" image. B.I. Tikhonov reviewed method of measuring the electrostatic potentials of electrophotographic layers, stressing that the oscillating electrode should not be placed above a layer with varying potential as this causes self-discharge. Z.V. Krukovskis (speaking also for R.G.Gorevoy, A.V.Osipov and Ye. S. Kheyfets) spoke on the practice of producing velveteen papers in an electrostatic field, and showed samples produced by the Grigishskaya paper factory. Ye.L. Nemirovskiy then gave a historical review of the development of electrographic methods in which he paid tribute to the work of the Scientific Research Institute of Electrography in Vil'nyus and the Institut poligraficheskogo mashinostroyeniya (Moskva)-(Polygraphic Machine-Building Institute (Moscow)). Debates were then held

Card 6/10

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

on methods of measuring the potential of charged electrophotographic layers; the vibration pick-up most-used was shown in B.I. Tikhonov's report to be not always accurate. S.G.Grenishin stated that the bad influence of the oscillating electrode can be eliminated if the electrode probe above its surface is fixed and the pick-up is connected to it by a shielded cable. In the debate on Ye.L. Nemirovskiy's report it was stated that the research of Academicians A.N. Terenin and Ye.K. Putseyko should be considered as the basis of all work on electrophotographic papers with ZnO, as they were the first to show the possibility of optical sensitization of the internal photoeffect in ZnO. N.M.Gol'vidis then gave a report on the depositing of charges by a corona discharge. A.I. Kaminskas and A.P. Yanulis reviewed some of the results of the use of electrographic methods in radiography. L.I. Myun'ko (speaking also for I.I. Zhilevich, I.Z. Plavin, Yu.K. Vishchakas and Yu.A.Zibuts) reported on relaxation processes in semiconductor layers, using a vibration electrometer. Yu.K.Vishakas gave a report on research on some physical properties of the polycrystalline layers of selenious cadmium. K.P. Mikalkyavichyus spoke on some of the photoelectric properties of Sb_2S_3 and Sb_2Se_3: the absorption maximum of the latter is about 900 m μ. S.M. Keyran reported on methods of obtaining selenium light-sensitive layers, including sublimation and thermal treatment; it was also found that the sensitivity of the layers increased after storage for 1.5 to 2 months at room temperature. P.M. Podvigalkin (speaking also for S.G.Grenishin) spoke on research into the electrical properties of electrophotographic layers of amorphous selenium and powdered zinc oxide. N.E. Shiktorov (speaking also for A.S. Tauraytis) discussed the production of selenium layers and some of their properties. Finally the following reports on ferromagnetography were delivered; 1) B.Ya. Kaznacheyev, V.M.Zhogina, "Electrodeposition of Magneto-hard Alloys with Given Magnetic Characteristics" 2) M.T.Arutyunov, "Visualization of Magnetic Oscillograms by the Ferrographic Method" 3) V.T.Patrunov, "Ferrographic Recording of Facsimile Images" 4) I.I.Zhilevich, I.I. Gikis, B. Ye. Buchek, I.I. Naynise, A.K.Kizhis, "Mock Experiments in Non-Pressure Ferromagnetic Printing". There was also an exhibition showing the work of the Electrographic Institute. The most important conclusion of the conference was that a solid approach had been made to the possibility of wide technical use of the methods of electrography. It was considered that although work in this field actually started only in 1955-56 it has covered as much ground as the USA in 10 years. While admitting that it was easier to reproduce results already achieved than to be the first to arrive at them, the conference observed that the Americans took good care that no important information appeared in the literature available.

Card 10/10

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

KOSTIN, L.G., inzh.; ZABRODSKIY, D.A., inzh.; ZORIN, S.V., inzh.; BUCHEK, L.T., inzh. SANZHAREVSKIY, O.G., inzh.

Rolling of fastening parts. Mashinostroenie no.6:67-68 N-D '64 (MIRA 18:2)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEL', N. YE.

F-4

USSR/Microbiology - Medical and Veterinary.

Abs Jour : Ref Zhur - Biologiya, No 7, 1957, 26387

Author : Buchel', N.Ye.

Inst : Leningrad Medical Institute of Sanitation and Hygiene, Laboratory of Hospital Imeni Botkin.

Title : Serodiagnosis of Salmonellosis by Monospecific Diagnosticum on the Basis of Meterials from the Laboratory of the Hospital Imeni Botkin.

Orig Pub : Tr. Leningr. san.-gigien. med. in-ta, 1956, 30, 79-84

Abst : In growing various salmonella in a U-tube on 0.4% agar with serum containing the antibody of II non-specific H-phase, with the subsequent decomposition of the O-antigen by formaline, it is possible to obtain a monodiagnosticum with the specific H-phase antigen. The use of type-specific monodiagnostica d, b, i, r, IX (O-monodiagnosticum) for the serodiagnosis of salmonelloses allows the type-specific diagnosis of Breslau

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

USSR/Microbiology - Medical and Veterinary.

Abs Jour : Ref Zhur - Biologiya, No 7, 1957, 26387 F-4

para-typhoid, V. Schottmuller para-typhoid, Heidelberg para-typhoid and D-salmonelloses. A positive reaction with c, d and b monodiagnostica and a negative one with IX monodiagnisticum indicate a Vidal inoculative reaction.

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEL', N.Ye.

Widal's salmonella reaction according to materials of S.P.Botkin Hospital from 1957 to 1958. Trudy LSGMI 66:55-63 '62. (MIRA 17:4)

1. Kafedra mikrobiologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. M.N.Fisher) i laboratoriya Bol'nitsy imeni S.P.Botkina (glavnyy vrach bol'nitsy - zasluzhennyy vrach RSFSR M.M.Figurina, konsul'tant - prof. M.N.Fisher).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

[redacted]

5

USSR

Infrared spectrometer in analysis. S. N. Aleksandrov, V. I. Buchel, and S. A. Chistorazum. *Trudy Vsesoyuz. Nauch. Issledovatel. Inst. Khim. Pererabotki Gazov* (*KHIMGAZ*) 6, 72-100(1951).—An infrared spectrometer and methods for its use are described in detail. W. M. S.

2

BB

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEL, V. I

USSR.

Laboratory rectifying. V. I. Buchel. *Trudy Vsesoyus. Nauch. Issledovatel. Inst. Khim. Pereraboiki Gazov* (*KHIMGAZ*) 6, 177-95(1951).—Theory of both intermittent and continuous distg. and rectifying processes are discussed, and it is concluded that the accuracy of mixt. sepn. depends not only upon the no. of theoretical plates (ideal stages) and reflux ratio, but also upon other factors (intermittence of the process, amt. of "liquid hold-up") which can be important in certain cases (particularly, when small amts. of initial mixts. are to be treated and when low concn. of a component therein exists).

W. Farafonow

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

DVININ, G.M.; MISHANSKIY, I.M.; DUBKOV, A.A.; MALAKHOVSKIY, G.F.; DRYAGIN, P.A.; BUCHEL'NIKOV, D.V.

Working placer layers in a transverse ravine with the aid of explosives. Prom.energ. 15 no.2:20 F '60. (MIRA 13:5)

(Mining engineering)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

ARASHKEVICH, Vsevolod Markovich; TSIPKEROVICH, M.V., kand.tekhn.nauk, retsenzent; ZALAZINSKIY, G.G., inzh., retsenzent; BUCHEL'NIKOV, S.M., kand.tekhn.nauk, red.; SKOROBOGACHEVA, A.P., red.izd-va; [redacted], Ye.M., tekhn.red.

[Principles of ore dressing] Osnovy obogashcheniia rud. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1959. 248 p. (MIRA 12:10)

(Ore dressing)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEL'NIKOV, S.M.; KUDINOV, B.Z.; KISILEV, V.A.

Dressing of titanium-magnetites from the Kruchina deposit. Obog. rud 5 no.3:3-6 '60. (MIRA 14:8)

1. Institut metallurgii Ural'skogo filiala AN SSSR.
(Kruchina region--Magnetite) (Ore dressing)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

TYURENKOV, N.G.; BUCHEL'NIKOV, S.M.; SUSLIKOV, G.F.

Industrial testing of Kachkanar deposit titanium-magnetite ores. Trudy Uralmekhanobra no.5:58-73 '59. (MIRA 15:1)

1. Ural'skiy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki poleznykh iskopayemykh (for Tyurenkov). 2. Ural'skiy filial Akademii nauk (for Buchel'nikov). 3. Zavod "Sibelektrostal'" (for Suslikov).

(Kachkanar Mountain--Iron ores)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEL'NIKOV, S.M.; KUDINOV, B.Z.; KISELEV, V.A.

Dressing and metallurgical estimate of titanium-magnetite ores. Titan i ego splavy no.5:38-49 '61. (MIRA 15:2)
(Ore dressing)
(Titanium--Metallurgy)
(Magnetite--Metallurgy)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEL'NIKOVA, N. M.

Nikolayeva, M. F. and Buchel'nikova, N. M. "Changes in the cytological picture of wound exudations under the influence of blood transfusions", Perelivaniye krovi, Collection 3, (Ivanovo), 1948, p. 129-39.

SO: U - 3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7, 1949).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

MUCHTL'NIKOVA, N.S., Cand Phys-Math Sci--(diss) "Effective cross sections of the capture of slow electrons with certain halide(-) containing molecules of O_2 and H_2O." Mos, 1958. 9 pp (Acad Sci USSR. Inst of Chemical Physics), 200 copies (KL,31-58, 99)

-4-

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/120-58-5-32/32

AUTHOR: Buchel'nikova, N. S.

TITLE: Calibration of an Ionisation Manometer for Some Halogen-Containing Gases (Graduirovka ionizatsionnogo manometra po nekotorym galoidsoderzhashchim gazam)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 5, p 110 (USSR)

ABSTRACT: The VIP-1 vacuometer was used under standard conditions in conjunction with the LM-2 valve (emission current 5 mA, grid voltage 200 V, collector voltage -25 V, all relative to the cathode). The calibration was carried out using a McLeod gauge. The difference of levels of mercury in the latter gauge was measured by a cathetometer, the accuracy being 0.01 mm. 15 to 20 measurements were carried out on each gas within the range 10^{-3} to 10^{-4} mm. It was verified that condensation and adsorption of the gases by the walls of the capillary of the manometer were absent. The conversion coefficient χ which is equal to the ratio of the true pressure to the reading of the vacuometer was determined. The

Card 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/120-58-5-32/32

Calibration of an Ionisation Manometer for Some Halogen-Containing Gases

conversion coefficient is given in the table (the accuracy is 6%):

Gas	Conversion Coefficient	Gas	Conversion Coefficient
Air	1	CCl_4	0.70
Cl_2	0.80	SF_6	0.54
Br_2	0.85	Freon	0.26
HCl	0.38	CF_3	0.21

There is 1 table.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)

SUBMITTED: November 21, 1957.

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/120-58-6-18/32

AUTHOR: Buchel'nikova, N. S.

TITLE: Determination of Cross-Sections for Electron Capture by Molecules (Opredeleniye poperechnykh secheniy prilipaniy medlennykh elektronov k molekulam)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 6, pp 89-93 (USSR)

ABSTRACT: An improved method for measuring this cross-section is described. Quasi-monochromatization of electrons described by Fox et al (Ref.3) is used. This consists in passing the electron beam through a diaphragm which lets through only electrons with energy greater than its potential. Potential of the diaphragm is varied by ΔV and the increase in the ion current corresponding to this change is measured. Negative ions are formed in an equipotential region, whose potential governs the electron energy and the ions are collected by a cylindrical collector. The apparatus is shown in Fig.1. The cathode 1 is in the form of a tungsten filament 0.12 mm in diameter and 30 cm long. In order to exclude the effect

Card 1/5

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/120-58-6-18/32

Determination of Cross-Sections for Electron Capture by Molecules

of the cathode drop upon the energy of the electrons, the cathode is heated by an AC current at a frequency of 400 c/s. The electrons are extracted when the heating current is zero. The extracting pulses are applied to the diaphragm 2 which is at a constant potential of approximately -30 V. The amplitude of the extracting pulses is approximately +30 V. The diameter of the diaphragm aperture is 2 cm so that the cross-sectional area of the electron beam is about 3 cm^2. The "porous" diaphragm 3 limits the divergence of the electron beam. The diaphragm is prepared from nickel tubes 1 mm dia each. The system of grids 4 and 5 is designed to give energy to the electrons and to separate out the monochromatic component. A negative potential is applied to grid 4 and is equal to the potential of the space-charge in the electron beam. This potential relative to the cathode is 1 to 1.5 V. This means that it is possible to obtain an electron beam with an exponential energy distribution whose width is about 1 eV and in which the space charge has practically no effect upon the energy of the electrons, the electron current being 10^{-8} - 3 x 10^{-8} A. Contact potentials of grids 5-8 are compensated to about 0.02 V. Grids 4-6 consist of cells 180 μ each and have a transparency of

Card 2/5

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

Determination of Cross-Sections for Electron Capture by Molecules

40%. Fig.2 shows the energy distribution of the electrons. In this figure Curve I is the energy distribution and Curve II is the energy distribution in the monochromatized component. The ion collector 11 consists of 3 insulated cylinders attached to quartz insulators. The side cylinders are used to exclude end effects. The length of the middle cylinder is 4 cm. The electron collector 10 has a "cell" structure and is covered by aquadag. The cells are 1.5 mm^2. The ion and electron collector currents are measured by electrometer valves 13 and 14 . The scattering of electrons on to the ion collector is prevented by a magnetic field. Since the divergence of the electron beam is 2° , scattering effects are removed by a field 10 to 15 oersted. Fig.3 shows the dependence of the current of scattered electrons on the intensity of the magnetic field. The curve cuts the field axis at 15 oersted. Measurements were carried out in a gas current at pressures of 10^{-4} to 10^{-5} mm Hg. Gas is let in through a needle valve, the pressure being measured by a calibrated ionisation manometer. The effect of the Earth's magnetic

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

field is removed by placing the apparatus within a permalloy screen. The cross-section was determined, using the following formula:

$$\sigma = \left(\frac{I_i}{\eta\xi}\right) \Bigg/ \left(\frac{I_{el}}{\beta}\, 3.55 \times 10^{16} \times 273\, \frac{P}{T}\lambda L\right)$$

where I_i is the ion current, I_{el} is the electron current, P is the pressure of the gas under study, T is the temperature of the working region, L is the length of the working region, η, ξ, and β are corrections for ion and electron losses, and λ is a correction for the averaging of electron paths at different angles. The apparatus has been used to measure electron capture cross-sections at energies of 0 to 3 eV by the molecules of HCl, HBr, SF_6, CCl_4, CCl_2F_2, CF_3I, and also the cross-sections for the processes $O_2 + e \rightarrow O + O^-$ and $H_2O + e \rightarrow OH + H^-$. Results for SF_6 are shown in Figs.5, 6 and 7. In particular, Fig.7

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/120-58-6-18/32

Determination of Cross-Sections for Electron Capture by Molecules

shows the dependence of the variation of electron capture by SF_6 on the energy of electrons. The continuous line is calculated from the ion collector current and the dotted line shows the cross-section calculated from the ion collector current without taking into account the scattered electrons. The following persons are thanked for advice and assistance: V.L. Tal'roze, L.L.Dekabrun, S.P. Kuklin and L.N.Lapina. There are 7 figures, 1 table and 4 English references.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, Academy of Sciences, USSR)

SUBMITTED: December 19, 1957.

Card 5/5

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

56-2-41/51

AUTHOR: Buchel'nikova, N. S.

TITLE: The Adherence of Slow Electrons to the Molecules of SF_6 and CCl_4 (Prilipaniye medlennykh elektronov k molekulam SF_6 i CCl_4)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr 2, pp. 519 - 521 (USSR)

ABSTRACT: The author determined the energy and the cross section of the resonance capture of slow electrons on SF_6 and CCl_4. The measurements were carried out by means of an apparatus of the Lozier type (reference 5). A beam of electrons was collimated by a disk-diaphragm and by a magnetic field (15 - 20 Örsted) and passed through a diaphragm with variable potential as well as through a screening grid into an equipotential range and then onto a collector. The ions formed within the equipotential range were collected on a cylindrical collector screened off by a grid. Further details of the apparatus are given. By this way electrons with an exponential distribution with respect to the energy could be obtained. The width was

Card 1/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

56-2-41/51

The Adherence of Slow Electrons to the Molecules of SF_6 and CCl_4

0,2 to 0,3 eV. When the capturing takes place within an energy interval which in relation to the distribution of electrons is narrow, the ion peak has the same shape as the distribution, and the displacement of the maximum of the ion flow taken relatively to the maximum of distribution determines the energy of capture. Two diagrams show the distribution of the electrons as well as the curves of the ion flow for SF_6 and CCl_4. The coincidence of the ion peak and the distribution of the electrons within the range of the maxima speaks in favor of the fact that in SF_6 and CCl_4 a resonance capture of the electrons takes place within a narrow energy interval. In SF_6 the capture takes place at an energy of $0 \pm 0,01$ eV and in CCl_4 of $0,02 \pm 0,01$ eV. Also the cross section of the resonance capture of SF_6 and CCl_4 was determined; this was done on the condition that the capture takes place within the energy interval of 0,05 eV. The cross section was determined from the maximum ion flow and the electron flow within the interval 0 - 0,05 eV. A formula is given for the calculation of the cross section. The value $\sigma = (1,2 \pm 0,4) \cdot 10^{-15}$ cm^2 is found

Card 2/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

56-2-41/51

The Adherence [illegible] of Slow Electrons to the Molecules of SF_6 and CCl_4

for SF_6 and the value $\sigma = (1,7 \pm 0,4) \cdot 10^{-16}$ cm^2 for CCl_4; in both cases these are the mean values of 6 measurements. There are 2 figures, and 6 references, 0 of which are Slavic.

ASSOCIATION: Institute for Chemical Physics AS USSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

SUBMITTED: November 21, 1957

AVAILABLE: Library of Congress

1. Electrons-Adherance 2. Electrons-Capturing 3. Electrons-Scattering 4. Electrons-Cross section-Determination

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

24(5) SOV/56-35-5-9/56

AUTHOR: Buchel'nikova, N. S.

TITLE: The Effective Capture Cross Sections of Slow Electrons of Some Halogen-Containing Molecules O_2 and H_2O (Effektivnyye poperechnyye secheniya zakhvata medlennykh elektronov nekotorymi galoidsoderzhashchimi molekulami, O_2 i H_2O)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 5, pp 1119-1130 (USSR)

ABSTRACT: In the present paper the author deals with measurements of the effective capture cross sections of slow electrons by SF_6, CCl_4, CF_3J, CCl_2F_2, BCl_3, HCl and HBr, as well as with the capture cross sections for electrons of several eV by O_2 and H_2O molecules carried out by the method of single collisions and using quasimonochromatized electrons. The method is described in detail (cf. also reference 1). The breadth of electron energy distribution is given with an energy scale accuracy of 0.01 - 0.02 eV as amounting to 0.2 - 0.3 eV. The energy at which the capture takes place is determined from the extent to which the maximum of the ion flux is shifted with respect to the maximum of the elec-

Card 1/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/56-35-5-9/56

The Effective Capture Cross Sections of Slow Electrons of Some Halogen-Containing Molecules O_2 and H_2O

tron energy distribution curve.
Results obtained by these measurements:

Molecule	shifting of maximum [eV]	cross section (1.maximum) [cm^2]	electron energy in 1. maximum	Fig
SF_6	0.00±0.01	$5.7.10^{-16}$	0.00	4,(1)
CCl_4	0.02±0.01	$1.3.10^{-16}$	0.02	5,(2)
CF_3J	0.05±0.01	$7.8.10^{-17}$	0.05	6,(3)
CCl_2F_2	0.07±0.01	$5.4.10^{-17}$	0.15	8,(7)
BCl_3	0.23±0.01	$2.8.10^{-17}$	0.4	10,(9)
HBr	0.46±0.02	$5.8.10^{-17}$	0.5	14,(12)
HCl	0.46±0.02	$3.9.10^{-18}$	0.6	13,(11)
H_2O		$(4.8\pm1.5).10^{-18}$	6.4	18,(16)
O_2		$(1.3\pm0.2).10^{-18}$	6.2	17,(15)

Card 2/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

SOV/56-35-5-9/56

The Effective Capture Cross Sections of Slow Electrons of Some Halogen-Containing Molecules O_2 and H_2O

In conclusion, the author thanks V. L. Tal'roze for his interest in this work and for his valuable advice. There are 18 figures, 1 table, and 36 references, 3 of which are Soviet.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute for Chemical Physics of the Academy of Sciences, USSR)

SUBMITTED: May 22, 1958 (initially) and July 21, 1958 (after revision)

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

AUTHOR: Buchel'nikova, N. S. SOV/53-65-3-1/11

TITLE: Negative Ions (Otritsatel'nyye iony)

PERIODICAL: Uspekhi fizicheskikh nauk, 1958, Vol. 65, Nr 3, pp. 351-385 (USSR)

ABSTRACT: In the present paper the authoress gives an extensive survey of the present stage of the investigation of the properties of negative ions. The paper consists of three chapters.
1.) The electron affinity S has been compiled in 4 tables for a large number of atoms, molecules and radicals; these tables not only contain the S-values in kcal/mol and eV, but for each individual value also the number of the reference from which this value has been derived as well as the method according to which this value has been determined, is given. This fact makes such tables very valuable for practical work. The methods of determination are: Comparison of various data, quantum-mechanical computation, attachment of electrons, mass spectroscopy, extrapolation, calculation from the lattice energy or from the hydration heat, kinetics of electron processes, equilibrium in flames, calculation by means of the method of the self-consistent molecular orbits, calculation according to electro-negativity, photo-detachment and,

Card 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

finally, the method of surface ionization.
2.) The production of negative ions: Here the following possibilities are discussed: Radiation capture, capture at a threefold collision, capture with dislocations, capture with dislocations and forming of a negative and a positive ion, electron capture during the collision with atoms or molecules, capture of two electrons by a positive ion at the collision with atom or molecule, electron capture on the surface (surface ionization), capture of two electrons by a positive ion on the surface.
3.) This chapter deals with the detachment-cross section for slow neutrons according to the diffusion method, the microwave method, the method of the single collision, the photo-detachment, the detachment during collision with electrons, the method of the collision of negative ions with atoms or molecules of gases, and finally the interaction of negative ions with a surface. There are 27 figures, 12 tables, and 191 references, 50 of which are Soviet.

1. Ions--Properties 2. Ions--Analysis 3. Ions--Production
4. Neutron cross sections

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

ACCESSION NR: AP4042455 S/0294/64/002/003/0309/0312

AUTHOR: Buchel'nikova, N. S.

TITLE: Equipment for alkaline plasma studies

SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 3, 1964, 309-312

TOPIC TAGS: alkaline plasma, potassium ion, tungsten plate, oil diffusion pump, magnetic field, field inhomogeneity, Langmuir probe, ionization degree, universal instability

ABSTRACT: An alkaline plasma device was described which was capable of operating at low temperatures with cesium or potassium ions contact-ionized over a 5 cm^2 tungsten plate at 2000K. A 10^{-8} - 10^{-9} mm vacuum was obtained, using N-55 oil diffusion pumps. A 1600-oersted magnetic field was used for longitudinal confinement of the plasma. At 36 cm plate separation, the axial field inhomogeneity was 3% and the azimuthal inhomogeneity less than 0.1%. Field stability was $\sim$0.1%. A set of four double-Langmuir probes was used to determine the plasma density. For densities $n \sim 10^{10}$ to 10^{11} cm^{-3}, the degree of ionization was 20-40%. A 5-30 kc frequency source was used to generate universal instabilities in the

Card 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

ACCESSION NR: AP4042455

plasma. These were then observed by a coaxial and a mobile probe. "The author expresses her thanks to V. G. Filonenko and V. N. Zaytsev for building the equipment, to E. M. Smokotin for experimental measurements, and to V. V. Panin and G. A. Novosel'tsev for help in the vacuum techniques." Orig. art. has: 4 figures.

ASSOCIATION: Institut yadernoy fiziki, Sibirskogo otdeleniya AN SSSR (Institute of Nuclear Physics, Siberian Branch, AN SSSR)

SUBMITTED: 28Jan64 ENCL: 00

SUB CODE: GP NO REF SOV: 002 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

ACCESSION NR: AP4025952 S/0056/64/046/003/1147/1148

AUTHOR: Buchel'nikova, N. S.

TITLE: 'Universal' instability in a potassium plasma

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 1147-1148

TOPIC TAGS: potassium plasma, plasma instability, universal instability, plasma, plasma thermal ionization, plasma density, plasma oscillation, plasma oscillation phase shift, inhomogeneous plasma instability

ABSTRACT: Experiments were carried out in a device in which a plasma is produced by thermal ionization of potassium vapor on a tungsten plate heated to 2,000°K. In this device the plasma forms a cylinder bounded at the ends by hot plates and a magnetic field is produced along the cylinder axis. The plasma density has a maximum at

Card 1/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

ACCESSION NR: AP4025952

the center and falls off radially to approximately zero at a value of the radius equal to the radius of the plate (2 cm). The measurements were made at plasma densities ranging from 1×10^8 to 5×10^{11} cm^{-3} and magnetic fields from 600 to 1600 oersted. Oscillations were observed at frequencies 5--9, 15--18, and 20--28 kcs. These oscillations were similar to those observed by d'Angelo and Motley (Physics Fluids v. 6, 422, 1963). The dependence of the oscillation frequency in a magnetic field was investigated and it was found that the frequency varies as 1/H for the first three harmonics. Phase shift measurements indicate that what is observed is an azimuthal traveling wave with wavelength equal to a, a/2, and a/3 respectively for the three harmonics ($a = 2\pi R$ is the periphery). All the results of the experiment are in agreement with the theory, and the observed instability can be identified with the "universal" instability of an inhomogeneous plasma in a magnetic field. "I am grateful to S. S. Moiseyev and R. Z. Sagdeyev for a discussion of the results, E. M. Smokotin for help with the experiments, V. G.

Card 2/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

ACCESSION NR: AP4025952

Filonenko and V. N. Zaytsev for the design of the apparatus, and V. V. Panin and G. A. Novosel'tsev for operation of the device." Orig. art. has: 1 formula.

ASSOCIATION: None

SUBMITTED: 30Dec63 DATE ACQ: 16Apr64 ENCL: 00

SUB CODE: PH NR REF SOV: 006 OTHER: 001

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

L 27601-65 EWT(1)/EPA(s)-2/EWT(m)/EWP(v)/EPA(w)-2/EEC(t)/T/EWP(t)/EWP(k)/EWP(b)/EWA(m)-2 Pz-6/Po-4/Pab-10/Pf-4/Pt-10/Pi-4 IJP(c) JD/HW/JG/AT

ACCESSION NR: AP5003239 S/0057/65/035/001/0072/0083

AUTHOR: Buchel'nikova, N.S./ Kudryavtsev, A.M./ Salimov, R.A.

81
65
B

TITLE: Instability and anomalous diffusion in a potassium plasma

SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no.1, 1965, 72-83

18

TOPIC TAGS: plasma instability, plasma diffusion, plasma diffusion anomaly, plasma ion oscillation, potassium

ABSTRACT: In order to investigate the instability of a nonuniform plasma in a magnetic field when the ion Larmor radius is comparable with the dimensions of the plasma, the electromagnetic oscillations and diffusion of a potassium plasma column were measured. The plasma was formed in a 4 cm diameter, 50 cm long cylindrical chamber by surface ionization of K atoms on a 2 cm diameter hot tungsten spiral. A longitudinal magnetic field up to 1200 Oe was applied and plasmas of density from 10^7 to 5×10^{11} cm^{-3} were investigated. The plasma column was most dense on the axis of the chamber, and the radius of the column at half-maximum density was ordinarily about 6 mm. Electromagnetic oscillations were observed with a fundamental frequency between 60 and 70 Kc/sec and an intensity exceeding the noise level by a

Card 1/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

L 27601-65

ACCESSION NR: AP5003239

2

factor 100. The second and third harmonics of these oscillations were also observed with somewhat lower intensity. The wavelength was determined by measuring the phase shift between the signals received by two movable probes. The wavelength of the fundamental in the azimuthal direction was found to be equal to the circumference of the plasma column; the wavelength in the longitudinal direction was approximately 20 cm. The frequency and wavelength of these oscillations were independent of the magnetic field strength, but the oscillations disappeared when the magnetic field was increased to such an extent that the ion Larmor radius became considerably smaller than the radius of the plasma column. The diffusion constant of the plasma transversely to the magnetic field was measured by the method of S.G.Alikhanov. The diffusion constant was found to be of the order of 5×10^4 cm^2/sec; it decreased slowly with increasing magnetic field and plasma density. The experimental data are discussed at some length, and by a process of elimination it is concluded that the observed oscillations represent a new type of plasma instability associated with the large ion Larmor radius and that the anomalous diffusion (which is about an order of magnitude greater than can be accounted for by the classical processes), is due to this new instability. "We express our gratitude to S.S.Moiseyev and R.Z. Sagdeyev for discussing the results." Orig.art.has: 7 formulas, 13 figures and 2 tables.

Card 2/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

L 27601-65

ACCESSION NR: AP5003239

ASSOCIATION: none

SUBMITTED: 13Dec63 ENCL: 00 SUB CODE: ME, IC

NR REF SOV: 010 OTHER: 005

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

L 31517-66 EWT(1)/EWT(m)/ETC(f)/EWP(t)/ETI IJP(c) JD/WW/JG/AT

ACC NR: AP6008824 SOURCE CODE: UR/0294/66/004/001/0027/0034

AUTHOR: Buchel 'nikova, N. S. (Novosibirsk); Salimov, R. A. (Novosibirsk)

ORG: None

72
66
B

TITLE: Excitation of ionic-acoustic waves in a potassium and cesium plasma

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 1, 1966, 27-34

TOPIC TAGS: sound wave, excited state, cesium plasma, potassium plasma, plasma oscillation

ABSTRACT: The authors investigate the excitation of ionic-acoustic waves in an almost isothermic potassium and cesium plasma ($T_e \sim 3T_i$) during the passage of electric current through the plasma. The natural frequencies of a limited system are found for the case when the plasma drifts along its axis. It is shown that when current is passed through, the oscillations are of the ionic-acoustic type. In particular, it is found that for potassium their phase velocity, equal to $(2.9 \pm 0.5) \cdot 10^5$ cm/sec, agrees with the theoretical value

$$\sqrt{(\gamma_e T_e + \gamma_i T_i)/M} = (2.4 \pm 0.1) \cdot 10^5$$

cm-sec and with the value obtained by the direct measurement during the excitation of ionic sound by an external signal equal to $(3 \pm 0.4) \cdot 10^5$ cm/sec. The critical drift velocity (v_{dr}) is

Card 1/2 UDC: 533.951.3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

L 31517-66

ACC NR:

AP6008824

6

found for electrons in an electric field; as the v_{dr} the following excitation of ionic-acoustic waves is observed: $(1.1=0.2)\cdot 10^7$ cm/sec. It is shown that this quantity is in good agreement with the theoretical value $v_{dr} = 1.3\cdot 10^7$ cm/sec for the case $T_e=3T_i$. The authors express their gratitude to V. I. Volosov and V. I. Karpman for discussing the results, and to V. F. Svin'in, Yu. I. Eydel'man, V. Ya. Ivanov, and G. N. Kondratenko for participation in the experiments and the calculations. Orig. art. has: 11 figures and 9 formulas.

SUB CODE: 20 / SUBM DATE: 25Jan65 / ORIG REF: 003 / OTH REF: 012

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

CHIORENESKU, Yekaterina [Cioranescu, E.]; BUKHEN-BYRLEDYANU, Lyudmila [Buchen-Barladeanu, L.]; SHTERNBERG, Rene [Sternberg, R.]

Synthesis of α-amino ketones. Izv. AN SSSR. Otd. khim. nauk no. 1:144-148 Ja '61. (MIRA 14:2)

1. Khimicheskiy institut Akademii Rumynskoy Narodnoy Respubliki.

(Ketones)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

CHIORENESKU, Yekaterina [Cioranescu, E.]; BUKHEN-BYRLEDYANU, Lyudmila [Buchen-Barladeanu, L.]

Synthesis of cylic amino ketones. Izv. AN SSSR. Otd. khim. nauk no. 1:149-151 Ja '61. (MIRA 14:2)

1. Khimicheskiy institut Akademii Rumynskoy Narodnoy Respubliki. (Ketones)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, A. N.

Kibernetika i eye primeneniye. Rekomendatel'nyy obzor literatury. /Cybernetics and Its Application. Recommended Survey of Literature/, State Library imeni V. I. Lenin, Moscow, 1956, 23 pages.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, ALEKSEY NIKOLAYEVICH

BUCHENKOV, Aleksey Nikolayevich; KAUFMAN, I.M., redaktor; KHOVANSKIY, I.P., tekhnicheskiy redaktor

[Ultrasonic waves in science and technology; survey of popular scientific literature] Ul'trazvuk v nauke i tekhnike; obzor nauchno-populiarnoi literatury. Moskva, Gos.biblioteka SSSR im. V.I.Lenina, 1956. 10 p. (Novosti tekhniki, no.5) (MIRA 10:9)
(Bibliography—Ultrasonic waves)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, Aleksey Nikolayevich; IVANOVA, L.M., redaktor; KHOVANSKIY, I.P., tekhnicheskiy redaktor

[Tagged atoms and their use in the national economy; a bibliography] Mechenye atomy i ikh primenenie v narodnom khoziaistve; rekomendatel'nyi obzor literatury. Moskva, Gos. biblioteka SSSR im. V.I.Lenina, 1956. 12 p. (Novosti tekhniki, no.4) (MIRA 9:11)
(Bibliography--Radioactive tracers)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, Aleksey Nikolayevich; IVANOVA, L.M., redaktor; KHOVANSKIY, I.P., tekhnicheskiy redaktor

[Innovations in the techniques of ferrous metallurgy; a bibliography] Novoe v tekhnike chernoi metallurgii; bibiograficheskii obzor. Moskva, 1956. 14 p. (Novosti tekhniki, no.6) (MLRA 10:3)
(Bibliography--Iron--Metallurgy)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

PHASE I BOOK EXPLOITATION SOV/1465

9(0)

Buchenkov, Aleksey Nikolayevich

Radioelektronika, yeye dostizheniya i perspektivy razvitiya; rekomendatel'nyy obzor literatury (Radio Electronics, Its Progress and Prospects of Development; Survey of Recommended Literature) Moscow, Tsentr. politekhn. biblioteka, 1956. 15 p. (Series: Moscow. Tsentral'naya politekhnicheskaya biblioteka. Novosti tekhniki, vyp. 1) 20,000 copies printed.

Sponsoring Agencies: Moscow. Publichnaya biblioteka, and Moscow. Tsentral'naya politekhnicheskaya biblioteka.

Ed.: L.M. Ivanova; Tech. Ed.: I. P. Khovanskiy.

PURPOSE: The booklet is addressed to workers, students of technical and secondary schools and to lecturers, teachers, librarians and other persons engaged in the propagation of scientific and technical knowledge.

COVERAGE: This booklet is the first of a series of surveys which will include the following subjects: "Radio Electronics, Its Progress and Prospects of Development",

Card 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

Radio Electronics (Cont.) SOV/1465

"Semiconductors in Science and Engineering", "Achievements of Jet Engineering", "Tagged Atoms and Their Application in the National Economy", "Ultrasonics and Its Application in Science and Engineering", "New Developments in Metallurgy", and others. Along with literature recommended for familiarization with the subject, the surveys include more advanced works requiring a preparation on the secondary-school level. The present survey contains 24 titles of articles and monographs with annotations, all relating to radio electronics. There is no Table of Contents.

AVAILABLE: Library of Congress

Card 2/2

JP/gmp
5-7-59

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, Alekseev Nikolayevich; IVANOVA, L. M., redaktor; KHOVANSKIY, I.P. tekhnicheskiy redaktor

[Cybernetics and its uses; a bibliography] Kibernetika i ee primenenie; rekomendatel'nyi obzor literatury. Moskva, Gos. biblioteka SSSR im. V.I. Lenina, 1956. 23 p. (Novosti tekhniki, no.7) (MLRA 10:5)

(Bibliography--Cybernetics)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, Aleksey Nikolayevich; PETROVA, L.G., kandidat tekhnicheskikh nauk, nauchnyy redaktor; KHOVANSKIY, I.P., tekhnicheskiy redaktor.

[Chemical industries in the national economy of the U.S.S.R.; a bibliography] Khimizatsiia narodnogo khoziaistva SSSR; rekomendatel'nyi ukazatel' literatury. Nauchnaia red. L.G.Petrovoi, Moskva, Gos.biblioteka SSSR im. V.I.Lenina, 1956. 57 p. (MLRA 10:5)
(Bibliography--Chemical industries)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

21(4) PHASE I BOOK EXPLOITATION SOV/2119

Buchenkov, Aleksey Nikolayevich

Atomnaya energetika v shestoy pyatiletke; rekomendatel'nyy obzor literatury. (Atomic Power Engineering in the Sixth Five-Year Plan; Review of Recommended Literature) Moscow, 1957. 18 p. (Series: Novosti tekhniki, vyp. 13) 17,000 copies printed.

Sponsoring Agency: Gosudarstvennaya ordena Lenina biblioteka SSSR and Tsentral'naya politekhnicheskaya biblioteka.

Ed.: L.M. Ivanova; Tech. Ed.: L.M. Khelemskaya

PURPOSE: This booklet is intended for the general reader interested in the nontechnical literature available on the uses of atomic energy.

COVERAGE: This issue of the series Novosti tekhniki lists 23 popular science type books available on the field of atomic power engineering and other peaceful uses of atomic energy. It is intended as a bibliographic guide for the layman.

Card 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

Atomic Power Engineering (Cont.) SOV/2119

TABLE OF CONTENTS:

Introduction

Recommended literature

Author index

List of bibliographies

List of the issues of "Novosti tekhniki"

AVAILABLE: Library of Congress

TM/ad
8-25-59

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, Alekseey Nikolayevich; IVANOVA, L.M., red.; KHELEMSKAYA, L.M., tekhn.red.

[New sources of energy and prospects for their use; review of recommended literature] Novye istochniki energii i perspektivy ikh ispol'zovaniia; rekomendatel'nyi obzor literatury. Moskva, Gos.biblioteka SSSR im. V.I.Lenina, 1957. 21 p. (Novosti tekhniki, no.10). (MIRA 14:1)

(Bibliography--Power resources)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

[redacted]; IVANOVA, L.M., redaktor; CHERNYAK, A.Ya., redaktor; KHELEMSKAYA, L.M., tekhnicheskiy redaktor

[Soviet metallurgy; on the 40th anniversary of the Great October Socialist Revolution. A bibliography] Metallurgiia SSSR; k 40-letiiu Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii. Rekomendatel'nyi ukazatel' literatury. Moskva, 1957. 39 p. (MLRA 10:10)

1. Moscow. Publichnaya biblioteka
(Bibliography--Metallurgy)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOV, A.N.; IVANOVA, L.M., redaktor; KHELEMSKAYA, L.M., tekhnicheskiy redaktor

[Electrification of the U.S.S.R.; on the 40th anniversary of the Great October Socialist Revolution. A bibliography] Elektrifikatsiia SSSR: k 40-letiiu Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii. Rekomendatel'nyi ukazatel' literatury. Moskva, 1957. 61 p. (MIRA 10:10)

1. Moscow. Publichnaya biblioteka
(Bibliography--Electrification)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

MOLCHANOVA, Nina Sergeyevna; MINTS, V.M., inzh., nauchnyy red.; BUCHENKOV, A.N., kand.ped.nauk, red.; VASIL'YEVA, L.P., tekhn.red.

[Builder's manual; a bibliography) V pomoshch' stroiteliu; rekomendatel'nyi ukazatel' literatury. Moskva, 1959. 95 p. (MIRA 12:6)
(Bibliography--Building)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

14

L 11589-66 EWT(m)/EWP(t)/EWP(b)/EWA(h) JD
ACC NR: AP6000373 SOURCE CODE: UR/0286/65/000/021/0091/0091

AUTHORS: Shaposhnikov, A. P.; Zolotov, I. N.; Suvareva, V. S.; Borukhin, B. Ya.; Makarova, L. N.; Buchenkov, F. I.; Markov, F. F.

ORG: none

TITLE: Method for correcting the chemical composition of fused metallurgical slags. Class 80, No. 1[illegible]197

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 91

TOPIC TAGS: slag, synthetic slag, metallurgical process, metallurgy

ABSTRACT: This Author Certificate presents a method for adjusting the chemical composition of fused metallurgical slags by introducing additives. To conserve time and energy and to obtain a homogeneous melt from the mixture of fused slag and additives, igneous rocks and industrial waste materials are used as additives. The latter are selected so that their fusion temperature is below the temperature of the fused slag. Gabbro, diabase, basalt, andesite, power plant ashes, and similar materials are used as additives. They are crushed and preheated up to their respective softening points prior to their introduction to the fused slag. The amount of additives is 50% by wt. of the total mass of the mixture.

SUB CODE: 11/ SUBM DATE: 19Jun62

UDC: 669.054.82:669.046.58

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

MASLENNIKOVA, G.N., kand.tekhn.nauk; BUCHENKOVA, A.F., inzh.

Alumina-base ceramic materials for making a grinding medium. Trudy GIEKI no.4:25-34 '60. (MIRA 15:1)
(Ceramic metals) (Crushing machinery)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

VORONKOV, G.N., kand.tekhn.nauk; MASLENNIKOVA, G.N., kand.tekhn.nauk; BUCHENKOVA, A.F., inzh.

Effect of the mineralogical composition of the body on the mechanical strength of high-voltage porcelain. Trudy GIEKI no.4:17-25 '60. (MIRA 15:1)

(Ceramic materials--Analysis)
(Electric insulators and insulation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

MASLENNIKOVA, G.N., kand. tekhn. nauk; KRASNOGOLOVYY, N.K., inzh.; BUCHENKOVA, A.F., inzh.

Study of the process of aging in high-voltage ceramic materials. Stek. i ker. 20 no.8:26-28 Ag '63. (MIRA 16:11)

1. Gosudarstvennyy issledovatel'skiy elektrokeramicheskiy institut.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

KRASNOGOLOVYY, N.K., inzh.; MASLENNIKOVA, G.N., kand.tekhn.nauk;
SAKHAROV, S.S., inzh.; BUCHENKOVA, A.F., inzh.

Suspension insulators for overhead power transmission lines.
Elektrotekhnika 34 no.9:73-75 S '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

MASLENNIKOVA, G.N.; BUCHENKOVA, A.F.

High voltage ceramic materials with increased electromechanical properties. Zhur. prikl. khim. 36 no.8:1654-1659 Ag '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

L 36224-65 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EWP(v)/EPR/EPA(w)-2/T/EWP(b)
Pab-10/Pr-4/Ps-4/Pt-10/Pu-4 WW/WH

ACCESSION NR: AP5010289 UR/0286/64/000/014/0089/0090

AUTHOR: Voronkov, G. H.; Buchenkova, A. F.; Magidovich, V. I.; Demidova, M. S.

TITLE: Ceramic paste. Class 80, No. 164228

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1964, 89-90

TOPIC TAGS: ceramic product, electric insulator

Translation: A ceramic paste based on a raw material with a high $K_2O:Na_2O$ ratio and used mainly for making high-voltage insulators. In order to produce articles with a low electrical loss tangent value and a high volumetric resistivity, the paste contains 31-40% by weight of quartz-sericite shale as a fluxing component and source of aluminum oxide.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy elektrokeramicheskiy institut (State Scientific Research Electroceramic Institute)

SUBMITTED: 09Apr63 ENCL: 00 SUB CODE: MT, EE

NO REF SOV: 000 OTHER: 00 JPRS

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHENKOVA, L.A.

BUCHENKOVA, L.A.

Treating recurrent aphthous stomatitis with magnesium sulfate. Stomatologiia 36 no.1:70 Ja-F '57. (MIRA 11:1)

1. Iz kafedry terapevticheskoy stomatologii (zav. - prof. Ye.Ye. Platonov) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy)
(MAGNESIUM SULPHATE--PHYSIOLOGICAL EFFECT)
(TEETH--DISEASES)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHERENKO, YE.F.

Possibility of synthesis of phosphorus-silicon hydrides starting from unsaturated phosphorus containing compounds and silicon hydrides.

Report submitted for the 12th Conference on high molecular weight compounds devoted to monomers, Baku, 3-7 April 62

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHERT, Adam, tanar (Pecs)

Fresh-water medusas. Term tud kozl 7 no.4:158-161 Ap '63.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHERI, Adam

Alpine swift in Pecs. Aquila 69/70:252 '62-'63 [publ. '64].

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHEV, F.

Concern for the development of industry. Prom.koop. 13 no.5:32 My '59. (MIRA 12:9)

1. Zamestitel' predsedatelya pravleniya oblpromsoveta (Moskva)
(Lyubertsy--Cooperative societies)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

DOROGOV, N.; KRUMAN, K.; BUCHEV, F., starshiy inzh. proizvodstvenno-tekhnicheskoy propagandy; SMIRNYAGIN, V., instruktor

Trade Union topics. Mest.prom.i khud.promys. 3 no.1:19 Ja '62. (MIRA 15:2)

1. Predsedatel' mestnogo komiteta kontory yuridicheskogo i mashinopisnogo obsluzhivaniya, g. Moskva (for Dorogov). 2. Direktor kul'turnoy bazy Moskovskogo oblastnogo komiteta profsoyuza (for Kruman. 3. Moldavskiy respublikanskiy komitet profsoyuza, g. Kishinev (for Smirnyagin).
(Trade unions)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BRENNER, M.M.; BALASHOVA, T.V.; BUCHEVA, V.N.

Effectiveness of capital investments in the oil production industry. Trudy VNII no.26:159-167 '60. (MIRA 13:9)
(Capital investments) (Petroleum industry)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

VOLKOVA, G.A.; BALASHOVA, T.V.; BUCHEVA, V.N.; PLESHKO, A.M.

Economic efficiency of remote control methods in oil production. (MIRA 15:4)
Trudy VNII no.22:136-149 '59.
(Oil fields--Electronic equipment) (Remote control)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8

BUCHIN, A.N.; BUCHEVA, V.N.; GRACHEVA, V.F.; [illegible], V.Ye.

Economic problems [illegible] the programming of [illegible] development of the Delina oil field. Trudy VNII no.39:95-107 '63. (MIRA 17:10)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210019-8"