"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

76-10-11/34

AUTHORS: Antipina, T.V., Isayev, O.V.

TITLE: The Effect of the Composition of the Alumosilicate Catalysts on the Hydration of Diethyl Ether and Dehydration of Ethyl Alcohol (Vliyaniye sostava alyumosilikatnykh katalizatorov na reaktsii gidratatsii dietilovogo efira i degidratatsii etilovogo spirta)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 10, pp.2245-2252 (USSR)

ABSTRACT: The dependence of the reaction velocities in the case of the hydration of the diethyl ether and of the dehydration of the ethyl alcohol on the concentration of OH-groups at the surface of an alumosilicate catalyst and on aluminum oxide was investigated here. The kinetics of the hydration of ether and of the dehydration of ethyl alcohol at alumosilicates of different composition and at types treated with lye solution was investigated at 400°C. It is shown that the degree of the transformation from ether into ethylene is lower in the case of the ether-hydration-reaction by ~ 1/3 than that of the transformation of alcohol into ethylene in the dehydration of the alcohol. It was

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76-10-11/34

The Effect of the Composition of the Alumosilicate Catalysts on the Hydration of Diethyl Ether and Dehydration of Ethyl Alcohol

found that in the hydration of ether the ethylene separation does not increase considerably with the reduction of the aluminum oxide percentage, whereas it decreases linearly in the dehydration of alcohol. There are 13 figures, 2 tables, 7 Slavic references.

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

SUBMITTED: July 11, 1956

AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

5(2)

AUTHOR: Antipina, T.V. SOV/55-58-2-26/35

TITLE: Catalytic Activity of Alumosilicates Treated With Lye Solution. Report III (Kataliticheskaya aktivnost' alyumosilikatov, obrabotannykh shcheloch'yu. Soobshcheniye III)

PERIODICAL: Vestnik Moskovskogo Universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 2, pp 197-202 (USSR)

ABSTRACT: In the preceding papers [Ref 1,2] the author showed that the alkali treatment of the alumosilicates leads to a strong decrease of the ethylene development in the dehydration of the ethyl alcohol. Now she investigates whether this phenomenon is connected with a diminution of the specific surface. By measurings of the catalytic activity and of the surfaces it is proved that the phenomenon can be only explained by a chemical alteration of the surface. Some further questions in this connection are discussed. A method of V.T. Bykov [Ref 4] was used. The author thanks Professor K.V. Topchiyeva for the interest in her present paper.
There are 7 figures, 1 table, and 5 Soviet references.

Card 1/2

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

Catalytic Activity of Alumosilicates Treated With Lye Solution. Report III SOV/55-58-2-26/35

ASSOCIATION: Kafedra fizicheskoy khimii (Chair of Physical Chemistry)

SUBMITTED: May 14, 1957

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

5(2)

AUTHORS: Antipina, T.V., and Norkina, R.S. SOV/55-58-4-25/31

TITLE: Catalytic Activity of Aluminosilicates With a Small Percentage of Aluminium Oxide (Kataliticheskaya aktivnost' alyumosilikatov s malym protsentnym soderzhaniyem okisi alyuminiya)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 4, pp 197-204 (USSR)

ABSTRACT: The authors investigated the catalytic activity of six different alumosilicate-catalysers with 12 and less percent Al_2O_3 content. It is shown that the kinetics of dehydration of ethyl alcohol is described by the equation of A.V.Frost [Ref 7]; the change of the alcohol in ethylene is most intensive for a 5% Al_2O_3 content of the catalyser. For a cracking of cumene the catalytic activity decreases monotonely with the Al_2O_3 content. It is stated that the specific surface for 5% Al_2O_3 and 95% silica gel is smaller

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Catalytic Activity of Aluminosilicates With a Small Percentage of Aluminium Oxide SOV/55-58-4-25/31

than for 3% Al_2O_3 and 97% silica gel. The authors thank Professor K.V.Topchiyeva for her assistance.
There are 2 tables, 5 figures, and 11 references, 10 of which are Soviet, and 1 German.

ASSOCIATION: Laboratoriya kinetiki i kataliza (Laboratory of Kinetics and Catalysis)

SUBMITTED: July 3, 1957

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

5(4)

AUTHORS: Antipina, T. V., Avdonina, Ye. N. SOV/76-33-1-32/45

TITLE: The Influence of Boron Fluoride on the Catalytic Activity of Aluminum Oxide and Alumosilicates (Vliyaniye ftoristogo bora na kataliticheskuyu aktivnost' okisi alyuminiya i alyumosilikatov)

PERIODICAL: Zhurnal [illegible] (USSR)

ABSTRACT: The influence of boron fluoride on heterogeneous processes was investigated less often than that on homogeneous processes (Ref 1). It is known that BF_3 chemisorbs irreversibly on Al_2O_3, alumosilicate, and silica gel (Ref 4). The dehydration kinetics of alcohol and the cracking of cumene are examined on samples of aluminum oxide (industrial Cherenkov Al_2O_3) and alumosilicate catalyzers (a mixture [illegible] (16%) and SiO_2 (84%)), which were treated with BF_3. At 400°C boron fluoride was adsorbed on the catalyzer in the reactor (in connection with a vacuum plant). The kinetic examinations were carried out by a method already described (Ref 5). The results

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obtained were elaborated by using the equation by A. V. Frost (Ref 6). The adsorption of BF_3 increases the activity of Al_2O_3 (Fig 1). Al_2O_3 with adsorbed BF_3 shows an increased reaction velocity of the surface reaction, i.e. the proportional quantity α shows an increase from $\alpha = 0.049$ to $\alpha = 0.070$ (Fig 2). The activation of Al_2O_3 and alumosilicate by BF_3 for the catalysis of the dehydration kinetics of ethanol is thought as being caused by the formation of a labile surface compound which is decomposed by the reaction products. The crack tests of cumene took place at a temperature of 400°C and during a period of 30 minutes. In this case, too, a sudden activity rise of the catalyzer, caused by a BF_3 treatment, is seen (Fig 4). This is especially true of aluminumoxide.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

The Influence of Boron Fluoride on the Catalytic Activity of Aluminum Oxide and Alumosilicates SOV/76-33-1-32/45

The activating effect of BF_3 on alumosilicates was also observed by A. P. Ballod in the laboratory of the Academician A. V. Topchiyev (In-t nefti AN SSSR)(Institute of Petroleum, Academy of Sciences, USSR), (report on scientific research work of the Institute for the year 1955). In conclusion, gratitude is expressed to Professor K. V. Topchiyeva. There are 8 figures and 6 Soviet references.

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

SUBMITTED: July 9, 1957

Card 3/3

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

S/195/60/001/003/013/013
B002/B058

AUTHORS: Topchiyeva, K. V., Antipina, T. V., Li Khe-suyan'

TITLE: The Effect of the Structural Porosity of Catalysts on Their Activity and the Kinetic Parameters of the Course of the Cracking Reaction

PERIODICAL: Kinetika i kataliz, 1960, Vol. 1, No. 3, pp 471 - 477

TEXT: The effect of the size of pores of an alumino silicate catalyst on the cracking reaction of cumene between 350 and 500°C was studied. A catalyst of the following composition was used: 12% Al_2O_3 and 88% SiO_2. The various sizes of pores between 12 and 115 A were obtained by replacing the intermicellar water to a different degree by isobutyl alcohol, isoamyl alcohol or cumene. Moreover, an industrially produced catalyst and a catalyst of the type Gudri (Goodry?) were studied. The structure of the samples was calculated from the adsorption isotherm of methanol vapor at 20°C. The kinetic of the cracking reaction of cumene between 350 and 475°C

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

The Effect of the Structural Porosity of Catalysts on Their Activity and the Kinetic Parameters of the Course of the Cracking Reaction

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B002/B058

is described very well by the following equation by A. V. Frost: $v_o \ln(1/1-y) = \alpha + \beta v_o y$. v_o is the volume rate of the addition of the initial material in mmoles/g·h; y is the degree of reaction; α is the apparent reaction rate constant in mmoles/g·h; β is a constant equal to unity. log α is a linear function of 1/T; the transition from the kinetic range to the diffusion range is manifested by a break of the curve. This corresponds to a considerable change of the activation energy. There are 9 figures, 2 tables and 15 references: 13 Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: March 23, 1960

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

S/189/60/000/002/002/008/XX
B017/B067

AUTHORS: Topchiyeva, K. V., Antipina, T. V., and Khe-Suyan', Li

TITLE: Effect of the Pore Radius and Other Structural Characteristics of Oxidic Catalysts on the Parameters of the Course of Heterogeneous Catalytic Processes. Communication I. Production of Aluminum Silicate Catalysts With Different Structural Characteristics

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 2, khimiya, 1960, No. 2, pp. 13 - 21

TEXT: Aluminum silicate catalysts of equal chemical composition but different structural characteristics were produced in experimental series. The adsorption- and structural properties of the catalysts were studied in dependence on the degree of displacement of intermicellar water by isobutyl alcohol and cumene. Intermicellar water was displaced by isobutyl alcohol and cumene in the apparatus shown in Fig.1. Aluminum silicate catalysts of the composition 12% Al_2O_3 and 88% SiO_2 were

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

Effect of the Pore Radius and Other Structural Characteristics of Oxidic Catalysts on the Parameters of the Course of Heterogeneous Catalytic Processes. Communication I. Production of Aluminum Silicate Catalysts With Different Structural Characteristics

S/189/60/000/002/002/008/XX
B017/B067

produced by the method of GrozNII (Groznyy Scientific Research Institute). The structural characteristics of aluminum silicate catalysts are given in a Table. Two series of catalysts were produced: 1) Series with the intermicellar water being displaced by butyl alcohol at 35, 51, 81, 95, 97, and 100%; 2) series with the intermicellar water being displaced by cumene at 34, 63, 90, and 96%. The adsorptive properties and structural characteristics of the catalysts produced were calculated from the isotherms of adsorption of methyl alcohol vapor at 20°C. Figs. 2 and 4 graphically show the adsorption isotherms of methyl alcohol vapor, the distribution of pore volumes and pore radii, and the dependence of the structural characteristics on the degree of displacement of water in the catalysts of the first series. Figs. 5-7 show the same curves for the catalysts of the second series, in which water was displaced by cumene. It was observed that the chemical nature and properties of the organic solvents, which displace the water from the catalysts, influence the structure of the catalysts. An aluminum silicate catalyst with

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ANTIPINA, T.V.

Effect of changes in the chemical nature of the aluminum oxide surface on its catalytic activity. Vest. Mosk un. Ser. 2: Khim. 15 no.4:3-11 Jl-Ag '60. (MIRA 13:9)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.
(Alumina)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

TOPCHIYEVA, K.V.; ANTIPINA, T.V.; LI KHE-SUYAN'; LEONT'YEV, Ye.A.

Formation of the porous structure of aluminosilicate catalysts subjected to the action of surface-active agents. Kin.i kat. 2 no.6:887-893 N-D '61. (MIRA 14:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, khimicheskiy fakul'tet.

(Aluminosilicates)
(Surface-active agents)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPINA, T.V.; CHEREDNIK, Ye.M. (Moskva)

Surface chemical compounds of boron fluoride on aluminum oxide and their role in catalysis. Part 2. Zhur. fiz. khim. 35 no. 4:836-841 Ap '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet.
(Boron fluoride) (Alumina) (Catalysis)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

S/062/62/000/010/003/003
B144/B186

AUTHORS: Nesmeyanov, A. N., Kritskaya, I. I., and Antipina, T. V.

TITLE: Application of adsorption chromatography when working with ferrocene derivatives

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 10, 1962, 1777 - 1783

TEXT: The formation of keto groups on the central C atom was observed when chromatographing ferrocenes (F'). More detailed studies were made of this phenomenon in aralkyl-F', $F'CH_2Ar$, and in ferrocenyl carbinols, $F'CH(OH)R$ (R being Ar, Alk), chromatographed on "chromatographic" Al_2O_3 (ГОСТ 2962-54 (GOST 2962-54); pH 6.7 - 7; H_2O 3% by weight) and on АСМ (ASM) and КСМ (KSM) silica gel in air. The acidity of the adsorbents was determined by H. A. Benesi's method (J. Amer. Chem. Soc. 78, 5490 (1956)). Al_2O_3:aralkyl-F' yielded a distinct amount of keto derivatives; benzyl-F', for example, yielded ~13% benzoyl-F' after 92 hrs contact at room temperature. Alkyl-F'

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became oxidized only in traces, if at all. With a contact time of 120 - 200 hrs, the ferrocenyl aryl carbinols $F'CH(OH)C_6H_5$, $F'[CH(OH)C_6H_5]_2$, and $F'CH(OH)CH_3$ yielded respectively 92, 76.8, and 34%. Dehydration at 300°C in an N_2 stream increased the catalytic activity of Al_2O_3. The degree of oxidation decreased when Al_2O_3 had been exposed to air or CO_2 for a considerable time, but reducing the contact time of $F'CH_2C_6H_5$ from 90 to 4 hrs increased the $F'COC_6H_5$ yield from 13 to 32% when air or O_2 was blown through the adsorption column. There was no oxidation when Al_2O_3 was treated with alkali. When Fe had not been separated from SiO_2, oxidation of alkyl and aralkyl-F' and of diferrocenyl ethanes easily occurred, forming ferricinium cations of F' derivatives with electron-donor substituents. Ferrocenyl carbinols were disproportionated and etherified. This reaction depended on the acidity of SiO_3. 1,1'-di-(α-hydroxy benzyl)-F' was not disproportionated, but yielded 55% of the internal ether besides small amounts of $F'(COC_6H_5)_2$ and ferrocinium cations. Polyaryl methyl

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carbinols yielded ether under the same conditions. Benzhydrol for example, gave 41% of dibenzhydryl ether. The oxidations described are important especially for chromatographing small amounts. The conditions and results of 41 experiments are given in a table. There is 1 table.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR). Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: March 26, 1962

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

NESMEYANOV, A.N.; KRITSKAYA, I.I.; ANTIPINA, T.V.

Use of adsorption chromatography in working with ferrocene derivatives. Izv. AN SSSR.Otd.khim.nauk no.10:1777-1783 O '62. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Ferrocene) (Chromatographic analysis)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

CHERNOV, V.A.; ANTIPINA, T.V.

Kinetics of cumene cracking on aluminum oxide activated with boron fluoride. Kin. i kat. 4 no.4:595-600 Jl-Ag '63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

CHERNOV, V.A ; ANTIPINA, T.V.

Adsorption of benzene and methanol on fluorinated aluminum oxide. Vest.Mosk.un.Ser.2:Khim. 20 no.3:23-27 My-Je '65. (MIRA 18:8)

1. Moskovskiy universitet, kafedra fizicheskoy khimii.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

CHERNOV, V.A.; ANTIPINA, T.V.

Aluminum fluoride as a catalyst for cracking of hydrocarbons. Kin. i kat. 6 no. 6:1114-1115 N-D '65 (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet. Submitted December 19, 1964.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

SHAPAYEVA, Ye.S.; RUSKA, T.N.; DEVYATKOVA, A.V.; DOLGASHOV, V.I., starshiy nauchnyy sotrudnik; ANTIPINA, V.I.; ROGOVSKAYA, Ye.G., red.; SERGEYEV, A.N., tekhn.red.

[Agroclimatic reference book on Pskov Province] Agroklimaticheskii spravochnik po Pskovskoi oblasti. Leningrad, Gidrometeor. izd-vo, 1959. 138 p. (MIRA 13:2)

1. Leningrad. Gidrometeorologicheskaya observatoriya. 2. Nachal'nik sektora agrometprognozov Severo-Zapadnogo upravleniya gidrometslushby (for Devyatkova). 3. Institut geografii AN SSSR (for Dolgashov).

(Pskov Province--Crops and climate)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

POPOVA, L.A., insh.; ANTIPINA, V.I.; GRAKHOV, A.N., starshiy insh.; PERSHINA, M.P., tekhn.; TEREN'T'YEVA, K.A., starshiy tekhn.; ZARINA, Ye.S.; TUULYAMETS, Kh.Yu., insh.; MERILA, L.A., starshiy insh.; KUZNETSOV, I.V., red.; EYPRE, T.F., red.; SVITINA, A.A., red.; MOISEYEV, I.N., red.; FLAUM, M.Ya., tekhn. red.

[Hydrological yearbook] Gidrologicheskii ezhegodnik. Leningrad, Gidrometeor. izd-vo. 1957. Vol.1. [Basin of the Baltic Sea] Bassein Baltiiskogo moria. Nos.0-3. [Basins of the Gulf of Finland and the Gulf of Riga from the Russian-Finnish frontier to the northern watershed of the Salaca River] Basseiny Finskogo i Rizhskogo zalivov ot gosudarstvennoi granitsy s Finliandiei do severnogo vodorazdela r.Salatsa. Pod red. I.V.Kuznetsova i T.F.Eipre. 1961. 460 p. (MIRA 14:9)
(Baltic Sea region—Hydrology) (Kama Valley—Hydrology)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

L 31810-66 EWT(1)/EWT(m)/EWP(j) RO/RM

ACC NR: AP6021673 SOURCE CODE: UR/0079/66/036/003/0475/0480

AUTHOR: Bliznyuk, N. K.; Kolomiyets, A. F.; Kvasha, Z. N.; Lovskaya, G. S.; Antipina, V. V.

ORG: All-Union Scientific Research Institute of Phytopathology (Vsesoyuznyy nauchno-issledovatel'skiy institut fitopatologii)

47
B

TITLE: Dialkyl phosphites and monoalkylphosphinites

SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 475-480

TOPIC TAGS: organic phosphorus compound, chemical reaction kinetics, toxicity, plant injury, chemical synthesis, ester, azeotropic mixture

ABSTRACT: It was found that dialkyl phosphites and monoalkylphosphinites are produced in high yields (almost quantitative) independent of the temperature at which the reagents are mixed, and degree of removal of hydrogen chloride from the reaction zone, by boiling the reaction mass, containing the reaction products of alcohols with phosphorus trichloride or dichlorophosphines, an esterification catalyst (such as sulfuric acid or p-toluenesulfonic acid), and a solvent, with azeotropic distillation of water. A preliminary estimate was made of the herbicidal activity of some of the ten compounds synthesized. In the tests the aboveground portion of the plants (the kidney bean as a typical dicot and the oat as a typical monocot) was sprayed with emulsions of

Card 1/2 UDC: 546.183:542.951.3

Card 2/2

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ZUBOV, V.V.; ANTIPINA, Ye.N.; CHERNYKH, N.N.

Temperature dependence of the magnetostriction of certain ordering alloys. Izv. vys. ucheb. zav; fiz. no.1:49-51 '63. (MIRA 16:5)

1. Kuybyshevskiy industrial'nyy institut imeni Kuybysheva. (Magnetostriction) (Alloys)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

VOROB'YEV, B.A.; ANTIPINA, Z.A., redaktor; ALEKSANDROV, V.I., tekhnicheskiy redaktor

[Transfer pictures (decalcomania)] Perevodnye izobrazheniia (dekal'komaniia). Moskva, Gos. izd-vo "Iskusstvo," 1952. 106 p. [Microfilm] (MLRA 7:10)

(Decalcomania)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

NADEZHDIN, Yu.; ANTIPOV, A.

Through the Island of Java. Vokrug sveta no.8:25-32 Ag '53. (MLRA 6:7)
(Java--Description and travel)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A., master

We use dismountable dumping trays. Stroitel' no.5:19 My '59.
(MIRA 12:8)

1. Verkhne-Pyshminskiy zavod zhelezobetonnykh konstruktsiy i detaley, Sverdlovskogo sovnarkhoza.
(Loading and unloading)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A., general-mayor aviatsii

Leninist control in action. Tekh. i vooruzh. no.3:4-5 Mr '64. (MIRA 17:8)

1. Zamestitel' nachal'nika politicheskogo upravleniya Belorusskogo voyennogo okruga.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A.A.

CA

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Production of p-nitroaniline sulfate and the free base from it. A. A. Antipov and K. K. Morgova. *Anilinokrasochnaya Prom.* 4, 498-501(1934).—In the production of p-$O_2NC_6H_4NH_2$ (I) by nitration of PhNHCHO, the addn. of H_2O to the reaction mixt. results in the sapon. of p-$O_2NC_6H_4NHCHO$ with the sepn. of p-$O_2NC_6H_4NH_2 \cdot H_2SO_4$ (II) at the concn. of 65% H_2SO_4 and that of $(p$-$O_2NC_6H_4NH_2)_2 \cdot H_2SO_4$ (III) at the concn. of 25-30% H_2SO_4, while the resinous matter and the o-isomer remain in soln. II filtered off and dissolved to 25-30% H_2SO_4 concn. gives also III, which on further diln. begins to hydrolyze with the liberation of I. III was directly used in diazotizing or converted with Na_2CO_3 into I, m. 147-8°. About 80% of the total HCO_2H was recovered from the mother liquor from II in the form of 16% acid by distn. at 50-60° and 680-90 mm., while the o-isomer was pptd. from the distn. residue by the addn. of 3 parts of H_2O. Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A.A., inzh.; POPOV, V.G., kand.tekhn.nauk; TERESHCHENKO, A.F., kand.tekhn.nauk

Methods of calibrating propeller shafts. Sudostroenie 29 no.10: 64-66 O '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

[illegible], [illegible] (Antipov, [illegible])

Flexure of a sandwich plate allowing for uneven heating. Kop. AN UPSR no.11:1441-1447 '63. ([illegible])

1. Nikolayevskiy korablestroitel'nyy institut.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A.I., kandidat tekhnicheskikh nauk.

Effect of lightweight passages on resistance to seepage in foundation soils. Gidr.stroi. 25 no.9:48-51 S '56. (MLRA 9:11)
(Hydraulic engineering) (Soil mechanics)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

SOV/98-59-10-10/20

30(1)

AUTHOR: Antipov, A.I., Candidate of Technical Sciences

TITLE: The Selection of a Rational Subterranean Contour for Concrete Dams on Sand Foundations

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 10, pp 36-40 (USSR)

ABSTRACT: The article gives a brief account of a method developed for the calculation of subterranean contours of concrete constructions; this is normally a very complex question, but the method described here enables such problems as the weight of the construction, the coefficient of resistance to displacement, coefficient of erosion, filtration pressure, pressure on the crest of the spillway, cost, etc., to be solved simultaneously. The filtration counterpressure

$$W = (\text{pl.}\,\Delta 1\text{-}2\text{-}3)\gamma\alpha, \qquad (1)$$

where pl. Δ1-2-3 is the area of the provisional lay-out of the counterpressure in the form of a triangle, γ is the volumetric weight of the water, α is the coefficient of perfection of the filtration counterpressure lay-out (taken to be 1.50). The relation between W and the size of the subterranean contour is expres-

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The Selection of a Rational Subterranean Contour for Concrete Dams on Sand Foundations

sed thus: $$W = \frac{1}{2} nlH(1 + B)\gamma_0 1.5 , \quad (2)$$

where H is the pressure on the building, l is the length of the cantilever, B is the width of the dam, and n is the ordinate of filtration counterpressure directly behind the channel. The coefficient of the dam's safe resistance to displacement is determined according to the formula $$K_c = \frac{\Sigma G - W - W_1}{\Sigma N} f, \quad (3)$$

where ΣG is the sum of the forces acting downwards, W is the suspending force, ΣN is the sum of the moving forces (horizontal), and f is the coefficient of erosion of the concrete in the foundation. The depth of impervious deposits (T) should not be less than that dictated by the formula $\frac{S}{T} \leqslant 0.4$ when $\frac{T}{b} \geqslant 3$, where S is the length of the channel and b is half the breadth of the dam base, including the front part. By using Professor Ye.A. Zamarin's nomograph, shown in fig.2, we find the length of the channel S to be

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The Selection of a Rational Subterranean Contour for Concrete Dams on Sand Foundations

$\frac{1+B}{b_2}$ and the length of the front part of the dam to be $L_n = b_1^o = b_1$. S; in the case of small-scale work the use of Professor P.F. Fil'chakov's tables is recommended (Ref.5). From the compact graph, providing data concerning all the factors affecting the subterranean contour and their cost, the most suitable combination may be chosen for all kinds of dams. Two sample calculations are given in the text, one with drainage, one without, and table 2 contains a list of the pressures combining to form the quantity n and the formulae for their calculation. By inserting the value of the acting forces into formula (3), we find n to be

$$\frac{K_1'+K_2+K_3+K_4+K_5+K_6+K_7 - W_1 - \frac{K_c}{f}(\Sigma N+N'_1)}{0.75H(1+B)\,l_2}. \qquad (7)$$

Card 3/4 The cost of the variations is given in table 3, while fig.3 shows

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The Selection of a Rational Subterranean Contour for Concrete Dams on Sand Foundations

the combined graph for the different variations of the dimensions and cost. The conclusions drawn are that the method described provides for greater rationalization and economy in all kinds of dams, but that in class I and II projects it should be supported by more careful calculations. There are 3 tables, 3 graphs, 1 diagram, and 5 Soviet references.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A.I., kand.tekhn.nauk

Determining basic dimensions of buttress dams with flat underground profiles. Gidr.stroi. 30 no.7:27-30 Jl '60. (MIRA 13:7)

(Dams)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A.M.

Conical vibrator sifter with production capacity of 15 cubic meters per hour. Rats. i izobr. predl. v stroi. no.70:26-29 '53. (Sieves) (Sand) (MLRA 7:10)

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ANTIPOV, N.N.

1

CA

APPARATUS FOR PURIFYING GASES, VAPORS, AND LIQUIDS. P. S. Grachev and A. N. Antipov. Russ. 12,770. Dec. 4, 1928. Construction details

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A.N.

Complications arising in deep drilling beyond the Arctic Circle.
Neft.khoz. 43 no.4:63-66 Ap '65. (MIRA 18:4)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

YEVGRAFOV, Georgiy Konstantinovich, prof., doktor tekhn.nauk; IOSILEVSKIY, Lev Izraildvich, kand.tekhn.nauk, dotsent; ALEKSANDROV, Anatoliy Vasil'yevich, kand.tekhn.nauk, dotsent; BOGDANOV, Nikolay Nikolayevich, kand.tekhn.nauk, dotsent; YEREMEYEV, Genrikh Mikhaylovich, inzh.; CHIRKOV, Vladilen Pavlovich, inzh. Prinimali uchastiye: RYBIN, V.D., inzh.; ANTIPOV, A.S., inzh. MITROFANOV, Yu.M., inzh., retsenzent; KARAMYSHEV, I.A., inzh., red.; USENKO, L.A., tekhn.red.

[Prestressed bridge girders with stretching of the reinforcement before the concrete is placed] Predvaritel'no napriazhennye balochnye proletnye stroeniia mostov s napriazheniem armatury do betonirovaniia. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1962. 282 p. (MIRA 15:4)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Yevgrafov).
(Bridges, Concrete) (Prestressed concrete)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

YEVGRAFOV, G.K., prof.; ANTIPOV, A.S., inzh.

Results of the operation of prestressed concrete bridges. Put' i put.khoz. 7 no.12:30-31 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

KHILINSKIY, F.A.; LOTYSHEV, I.P.; LEBEDENKO, G.P.; SHAVKUNOVA, N.D.; DORIZO, A.P.; TERNOVAYA, K.G.; ANTIPOV, A.S., obshchestv. red.; BABAK, Yu.M., tekhn. red.

[Goryachiy Klyuch] Goriachii kliuch. Izd.2., ispr. i dop. [By] F.A.Khilinskii i dr. Krasnodarsk, Krasnodarskoe knizhnoe izd-vo, 1963. 84 p. (MIRA 17:2)

1. Glavnyy vrach sanatoriya No.2 Kurorta Goryachiy Klyuch, Kavkaz (for Lebedenko). 2. Sanatoriy No.1 Kurorta Goryachiy Klyuch, Kavkaz (for Shavkunova,Ternovaya). 3.Zamestitel' glavnogo vracha po meditsinskoy chasti sanatoriya No.2 Kurorta Goryachiy Klyuch, Kavkaz (for Dorizo).

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

IOSILEVSKIY, L.I., kand.tekhn.nauk, dotsent; ANTIPOV, A.S., inzh.

Results of testing reinforced boundles with MIITa anchor shoes for pulsating loads. Trudy MIIT no.126:68-83 '60. (MIRA 13:10)
(Girders—Testing)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, A.P., otv.red.; KALASHNIKOV, V.P., tekhn.red.

[Traffic regulations for cars and pedestrians on streets of cities and communities, and on highways of Moscow Province] Pravila dvizheniia transporta i peshekhodov po ulitsam gorodov, naselennykh punktov i dorogam Moskovskoi oblasti. Moskva, Izd-vo "Moskovskaia pravda," 1959. 94 p. (MIRA 12:10)

1. Moscow (Province). Otdel Gosavtoinspektsii i bezopasnosti dvizheniya.
(Moscow Province--Traffic regulations)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

CHA[illegible]CHIN, Vasiliy Timofeyevich; ANTIPOV, Andrey Vasil'yevich [deceased]; LOBANOV, Viktor Ivanovich; [redacted]tsentent; GUS[illegible]VA, Ye.M., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Installing and servicing scutching and hackling devices in flax and hemp mills] Ustroistvo i obsluzhivanie mial'no-trepal'nykh i kudeleprigotovitel'nykh agregatov l'nozavodov i pen'kozavodov. Moskva, Gos.nauchno-tekhn.izd-vo M-va legkoi promyshl. SSSR, 1957. 819 p. (MIRA 10:10)

(Flax) (Textile machinery)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

SEMENENKO, N.A., doktor tekhn. nauk; YURENEV, V.N., insh.; SIDEL'KOVSKIY, L.N., kand. tekhn. nauk; ANTIPOV, A.V., insh.

"Thermal calculation of boiler units"(standard method). Reviewed by N.A. Semenenko and others. Teploenergetika 5 no. 5:92-94 My '58. (MIRA 11:7)

1. Moskovskiy energeticheskiy institut.
(Boilers--Tables, calculations, etc.)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ZAKHARIK, Ye.; ANTIPOV, B.; KIRSANOV, S.; KOLOKOLOVA, M.; BELIK, P.; SIDEL'NIKOVA, Z., red.; NEMITOV, V., tekhn.red.

[City of Orel] Gorod Orel. Orel, Orlovskoe knizhnoe izd-vo, 1958. 122 p. (MIRA 14:6)
(Orel—Description)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B.

The general plan of Omsk. Na stroi.Ros. 3 no.9:18-19 S '62. (MIRA 15:12)

1. Glavnyy arkhitektor Omska.
(Omsk—City planning)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B. A.

Antipov, B. A "Investigation of the outer magnetic field of oblate ellipsoids of rotation and short cylinders in a uniformly magnetizing alternate field," Trudy Sib. fiz.-tekhn. in-ta, Issue 26, 1948, p. 232-37

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 26, 1949)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B.V.

Pseudomyxoma of the peritoneum. Trudy mol. nauch. sotr. MONIKI no.1:222-224 '59 (MIRA 16:11)

1. Iz pato-morfologicheskogo otdela (rukovoditel' prof. S.B. Vaynberg) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni Vladimirskogo.

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ANTIPOV, B.A.; ZUYEV, V.Ye.; KUKHARENKO, P.N.; SONCHIK, V.K.; FEDYUSHIN, A.A.

Transparency of a horizontal atmospheric layer in the range from 0.7 to 14 . Part 1: Equipment and measurement methods. Izv. vys.ucheb.zav.;fiz. no.2:105-110 '60. (MIRA 13:8)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete im. V.V.Kuybysheva.
(Atmosphere—Optical properties)

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3.9000

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S/139/60/000/03/011/045

E073/E335

AUTHORS: Antipov, B.A., Zuyev, V.Ye., Kokhanenko, P.N., Sonchik, V.A. and Fedyushin, A.A.

TITLE: Transparency of the Horizontal Layer of the Atmosphere in the Range of 0.7-14 μ. Part II. Dependence of the Total Transparency of the Atmosphere in the Range 0.7-14 μ on the Thickness of the Precipitated Layer of Water

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, Nr 3, pp 72 - 75 (USSR)

ABSTRACT: The authors made an attempt to determine an empirical relation between the magnitude of the reduced signal V (magnitude of the signal multiplied by a factor L_i^2/S_i :- L_i being the distance between the emitter and the receiver, S_i being the area of the emitter) and the air humidity which would show satisfactory agreement with experimental results obtained by the authors. As sources of infra-red radiation, four special emitters were used which were heated to 500 °C and placed at a distance of 1210, 3494, 6645 and 9855 m from the receiving equipment. The experimental set-up,

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82331

S/139/60/000/03/011/045
E073/E314

Transparency of the Horizontal Layer of the Atmosphere in the Range of 0.7-14 μ. Part II. Dependence of the Total Transparency of the Atmosphere in the Range 0.7-14 μ on the Thickness of the Precipitated Layer of Water

the method of carrying out the experiments and the processing of the results were the same as those described in an earlier communication (same journal, No 2, pp 105-110). The air humidity and the intensity of the signals were determined simultaneously. The partial pressure of water vapours was determined directly and then the thickness of the precipitated water layer wL was calculated, where w - the thickness of the precipitated layer of water in mm for 1 km and L - the distance in km between the emitter and a receiver. For detecting the relation between the air humidity and the magnitude of the signal only those measurements were taken into consideration which were carried out in the absence of any visible clouding of the atmosphere (mist, haze, fog, rain). Of a total of 811 determinations only 140 complied with this condition. The experiments were carried out during various days in March, April,

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82331

S/139/60/000/03/011/045
E073/E314

Transparency of the Horizontal Layer of the Atmosphere in the Range of 0.7-14 μ. Part II. Dependence of the Total Transparency of the Atmosphere in the Range 0.7-14 μ on the Thickness of the Precipitation Layer of Water

July, August, September, October and November, 1958 and encompassed a wide range of variation of air humidity; the value of w varied between 0.7 and 17 mm/km and the wL values varied between 0.8 and 167 mm. It was found that the magnitude of the reduced signal V is not a linear function of $\sqrt{wL}$ (see plot, Figure 1) but it appears that the dependence can be better expressed by a linear dependence of $\lg V$ on $\sqrt{wL}$. The following empirical relation was derived by the authors for the reduced signal V:

$$V = V_o e^{-b\sqrt{wL}} \qquad (2)$$

whereby V_o is the magnitude of the reduced signal in the absence of water vapours in the air, b is a constant equalling in the given case 0.2319. Curves calculated according to this equation are in good

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

3.5150

S/169/62/000/008/032/090
E202/E392

AUTHORS: Antipov, B.A., Zuyev, V.Ye., Kokhanenko, P.N., Sonchik, V.K. and Fedyushin, A.A.

TITLE: Methods and certain results of studies of horizontal transparency of the atmosphere to long-wave radiation

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1962, 31, abstract 8B232. (In the symposium: 'Aktinometriya i atmosfern. optika' (Actinometry and atmospheric optics), Leningrad, Gidrometeoizdat, 1961, 248 - 251)

TEXT: The effect of meteorological conditions on the transparency of the atmosphere to long-wave radiation (0.7 - 14 μ) over distances of 1.2, 3.5, 6.6 and 9.9 km was studied. Flat metallic radiators with electrical heating were used as sources of radiation. A vacuum thermo-element with a vibro-converter and a measuring amplifier 28ΛM (28IM) served as a receiver. The receiver was placed in the focus of a parabolic mirror. Simultaneously with the measurements at all four points the meteorological conditions were also measured, viz. temperature of

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the air, humidity, wind and intensity of precipitate. The results of the measurements were presented in the form of radiation curves vs. distance. The seasonal relation with maximum attenuation which coincides with the period of highest absolute humidity was found. A sharp attenuation of radiation was observed up to 3.5 km during the winter period, then it decreased, while during the summer period a sharp attenuation was observed up to 6.5 km.
[Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

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S/139/61/000/001/001/018
E032/414

6.3200

AUTHORS: Antipov, B.A., Zuyev, V.Ye., Kokhanenko, P.N., Sonchik, V.K. and Fedyushin, A.A.

TITLE: Transparency of the Horizontal Layer of the Atmosphere in the Region 0.7 to 14 μ. III. Dependence of the Total Transmission of the Atmosphere in the Region 0.7 to 14 μ on the Thickness of the Precipitated Layer of Water

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1961, No.1, pp.17-19

TEXT: In previous papers (Refs.1 and 2) the present authors described an apparatus and a method of measurement of the transparency of the atmospheric layer next to the earth surface in the region 0.7 to 14 μ and for distances between 1.21 and 9.86 km. The experimental material obtained was also reported. In the present paper additional data recently obtained are reported. As an approximation, the magnitude of the transmitted signal was described in Ref.2 by the exponential law

$$v = v_0 e^{-a\sqrt{wL}} \qquad (1)$$

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where w is the thickness of the precipitated water in mm per km, L is the distance traversed by the radiation in km, a is a constant and v_0 is the intensity in the absence of the absorbing medium. Eq.(1) was obtained empirically and gave a sufficiently good representation of the experimental results. This expression accounts for the absorption of the infrared radiation by water vapour only and does not take into account absorption by carbon dioxide or effects due to atmospheric turbidity. The criterion for the applicability of Eq.(1) is the linear dependence between $\lg v$ and $a\sqrt{wL}$. The new data now reported are also well represented by Eq.(1) right up to $wL = 90$ mm. However, for greater values of wL, the dependence between $\lg v$ and $\sqrt{wL}$ is no longer linear and in order to describe all the experimental data the following formula was employed

$$v = \frac{c}{1 + wL} + k \qquad (2)$$

where c and k are constants. This expression is also purely empirical and the criterion for its applicability is a linear

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E032/E414

Transparency of the Horizontal ...

relation between v and $(1 + wL)^{-1}$. Fig.2 shows the dependence of v on wL. During the measurements the sensitivity of the receiving apparatus was controlled by a 6 watt lamp at a distance of 5 m from the detector. It was found that the signal due to the lamp was very dependent on the humidity of the air. It is therefore pointed out that the use of a standard source at a short distance from the receiver may introduce errors unless corrections for the humidity are introduced. There are 2 figures and 2 Soviet references.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V.V.Kuybysheva (Siberian Physicotechnical Institute of the Tomsk State University imeni V.V.Kuybyshev)

SUBMITTED: February 13, 1960

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Transparency of the Horizontal ... S/139/61/000/001/001/018
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Fig.2.

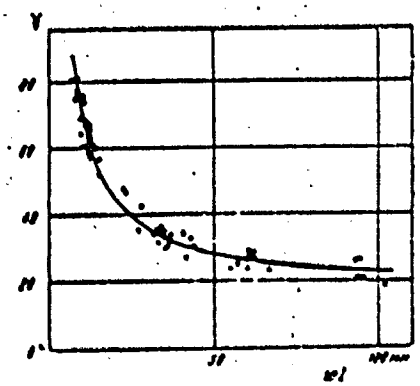

Рис. 2.

Card 4/4

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L 52265-65 EWT(1)/EWG(v)/FCC/EEC(t) Pe-5/Pi-4 Gw/GS

ACCESSION NR: AT5011177 UR/0000/64/000/000/0234/0237

AUTHOR: Antipov, [illegible] A.; Zuyev, V. Ye.; Kabanov, M. V.; Kokhanenko, [illegible] N.; Nekrasov, Yu. [illegible]

TITLE: New apparatus for measuring atmospheric transparency in the infrared region

[illegible] Meshvedomstvennoye soveshchanive [illegible] optike atmosfery, 5th, [illegible] and [illegible] optics [illegible] trudy soveshchaniya, Moscow, [illegible]

[illegible]

ABSTRACT: [illegible] problems in the field of propagation of electromagnetic waves [illegible] require development [illegible] with respect to the [illegible] long-wave radiation, the detection of a useful signal in the presence [illegible] infrared radiation sensor, operating with a narrow-band amplifier, tuned to the modulation frequency of the radiation source. The ou[illegible] of the narrow-band am-

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ACCESSION NR: AT5011177

plifier can be connected to an electronic computer using the circuit of the DZS-2 apparatus developed for investigation of distant tropospheric and ionospheric propagation of very-short waves in the range [illegible]. After modification, the [illegible] can be used to investigate [illegible] wave radiation in [illegible]

[illegible]

make a statistical analysis of signals [illegible] ranging [illegible]

art. has: 2 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom [illegible] Tomsk State University)

SUBMITTED: 25Nov64 ENCL: [illegible]
NO REF SOV: 000 OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B.P., inzh.; LAZAREV, N.V., inzh.

Making arched structures of glued wood. Avt. [illegible] 8-9 Ap '64. (MIRA [illegible])

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B.V.

Pathomorphological examination of the "dry" arrested heart under conditions of experimental artificial circulation. Arkh. pat. 22 no. 6:67-72 '60. (MIRA 14:1)

(PERFUSION PUMP (HEART))

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B.V.; GAL'PERIN, Yu.M.; YERMAKOVA, N.M.; PEREVSTORONIN, S.A.; SMIRNOV, Ye.Ye.

Restoration of cardiac activity after prolonged arrest and anemia of the heart in a surgically prepared experiment. Vest. khir. 85 no. 7:9-17 Je '60. (MIRA 14:1)

(HEART FAILURE)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B. V.; GAL'PERIN, Yu. M. (Moskva, ul. Vorovskogo, d. 26, kv. 14)

Use of direct cardiac massage for artificial blood circulation (experimental-morphological data). Grud. khir. no.5:52-58 '61. (MIRA 15:2)

1. Iz nauchno-eksperimental'nogo i patomorfologicheskogo otdela (zav. - prof. S. B. Vaynberg) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M. F. Vladimirskogo (dir. - zasluzhennyy vrach RSFSR P. M. Leonenko)

(HEART FAILURE) (RESUSCITATION)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B.V.; GAL'PERIN, Yu.M.; YERMAKOVA, N.M.; PERESTORONIN, S.A.; SMIRNOV, Ye.Ye.

Effect of cardioplegic substances and artificial blood circulation regimes on the restoration of heart activity after prolonged anemia. Grud. khir. 2 no.4:108-113 Jl-Ag '60. (MIRA 15:6)

1. Adres avtorov: Moskva, 3-ya Meshchanskaya, d.61/2, Moskovskiy oblastnoy nauchno-issledovatel'skiy klinicheskiy institut imeni M.F. Vladimirskogo.

(BLOOD--CIRCULATION, ARTIFICIAL)
(HEART FAILURE) (CARDIAC RESUSCITATION) (CARDIOVASCULAR AGENTS)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

VAYNBERG, S.B. [deceased]; YUDIN, Yu.G.; ANTIPOV, B.V.

Leukemoid reactions in tumor-like diseases. Vop. klin. pat. no.2:257-262 '61 (MIRA 16:12)

1. Iz patologomorfologicheskogo otdela (zav. - prof. S.B. Vaynberg [deceased]) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni Vladimirskogo.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, B.V.; GALUPERIN, Yu.M. (Moskva)

Interrelations of local and general factors in the pathogenesis of a dynamic obstruction of the intestines in peritonitis. Arkh. pat. 27 no.3:54-60 '65. (MIRA 18:5)

1. Nauchno-issledovatel'skiy institut morfologii cheloveka (dir. - chlen-korrespondent AMN SSSR prof. A.P. Avtsyn) AMN SSSR i Moskovskiy oblastnoy nauchno-issledovatel'skiy klinicheskiy institut imeni Vladimirskogo (dir. P.M. Leonenko).

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

[illegible], B.V. [illegible]

[illegible] of extensive congenital [illegible] defect. Arkh. pat. [illegible] no.3:80-82 '64. (MIRA 18:12)

1. Tsentral'naya patologoanatomicheskaya laboratoriya (zav. kand.med.nauk R.D.Sztern) Nauchno-issledovatel'skogo instituta morfologii cheloveka (direktor - chlen-korrespondent AMN SSSR prof. A.P.Avtsyn) AMN SSSR.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, E.F.

ANTIPOV, E.F., S.A. MAIOROV, and P.A. KOSAREV.

Giroskopicheskie aviatsionnye pritory. Moskva, 1940.

Title tr.: Gyroscopic aircraft instruments.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, G.I.

Bitumens in traps of the Siberian Platform. Sov. geol. no.61:144-146 '57. (MIRA 11:4)

1. Ekspeditsiya Ministerstva geologii i okhrany nedr, g. Rudnogorsk. (Siberian Platform--Bitumen)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

AUTHOR: Antipov, G.I. 132-58-7-1/13

TITLE: Prospecting Characteristics of Iron Ore Deposits in the Angara-Ilim Region (Poiskovyye priznaki zheleznorudnykh mestorozhdeniy v Angaro-Ilimskom rayone)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 7, pp 1-4 (USSR)

ABSTRACT: The author describes various characteristics which could help to locate more iron ore deposits in the Angara-Ilim region. This region, still insufficiently explored, has only 2 iron ore deposits which could be of commercial importance. There are indications that more iron ore deposits can be found. In the last century, geologists discovered the connection of deposits with tectonic breaks and their location over the trappean intrusions. At a later date, other geologists (B.N. Artem'yev, S.A. Doktorovich-Grebnitskiy) confirmed these findings. The author classifies these characteristics in separate groups: 1) lithologic-stratigraphic characteristics - almost all deposits of the region are connected with tuff breccia. These formations are of pyroclastic origin and, in contact with the ore bodies, they became skarned; 2) structural-tectonic characteristics - all known ore deposits are located on large fields formed by

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132-58-7-1/13

Prospecting Characteristics of Iron Ore Deposits in the Angara-Ilim Region.

uniform marl-argilaceous formations and are deposited horizontally. In the immediate vicinity of the ore deposits these formations are slightly dislocated and broken into separate blocks. The complicated structure of these horizontal layers indicates the possibility of ore deposits; 3) mineralogic characteristics - enclosing rocks are transformed into skarns in contact with the ore body. The larger the body, the larger the skarned surroundings; 4) geomorphologic characteristics - the Angara-Ilim region is an ancient plateau cut by large rivers, so that trap and magnetite ore bodies alone form protruding bald mountains which must be studied carefully. In cases where these ore deposits are covered by a layer of alluvial sediments, they still form bed-like protrusions, which can be discovered in early spring or autumn after the leaves have been shed. There are 6 Soviet references

ASSOCIATION: Ministerstvo geologii i okhrany nedr SSSR (Ministry of Geology and Conservation of Mineral Resources of the USSR).

1. Geology--USSR 2. Geophysical prospecting 3. Iron ores--Sources 4. Iron ores--Economic aspects

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, G.I.; IVASHCHENKO, M.A. [deceased]; KORABEL'NIKOVA, V.V.; KOSYGIN, M.K., dotsent; KUZNETSOV, O.A., dotsent; PEKARIN, P.M.; ROSLYAKOV, G.V., dotsent; STRAKHOV, L.G.; CHERNYSHEV, G.B., red.; TKALICH, S.M., red.; MUKHIN, S.S., red.izd-va; GUROVA, O.A., tekhn.red.

[Angara-Ilim iron ore deposits of trap formation in the southern Siberian Platform] Angaro-Ilimskie zheleznorudnye mestorozhdeniia troppovoi formatsii iushnoi chasti Sibirskoi platformy. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 375 p. (MIRA 13:10)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. 2. Geologi Irkutskogo geologicheskogo upravleniya (for Antipov, Ivashchenko, Korabel'nikova, Pekarin, Strakhov). 3. Irkutskiy gornometallurgicheskiy institut (for Kosygin, Roslyakov). 4. Irkutskiy gosudarstvennyy universitet (for Kuznetsov). 5. Glavnyy insh. Irkutskogo geologicheskogo upravleniya (for Tkalich).
(Angara-Ilim region--Iron ores)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I.

Device on a cardigan-stitch knitting machine for reducing yarn. Prom.koop. no.12:24 D '56. (MIRA 10:2)

1. Direktor fabriki no.22.
(Knitting machines--Attachments)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I.

On the threshold of 1962. Mest.prom.i khud.promys. 2 no.1:14-16 Ja '61. (MIRA 14:4)

1. Direktor Moskovskoy shveyno-galantereynoy fabriki No. 2.
(Moscow--Clothing industry)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, Ivan Antipovich; LIDERS, Georgiy Vladimirovich; CHERNYSHEV, V.I., redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[A production and financial plan for long hauls by railroads] Proizvodstvenno-finansovyi plan distantsii puti. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 47 p. (MLRA 10:3)
(Railroads—Management)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ALTIPOV, I.A., inzh.

Operation costs should be reduced. Puti i put. khoz. no.4:31-32 Ap '59. (MIRA 13:3)

(Railroads--Cost of operation)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I.A., inzh.

All divisions can and must be profitable. Put' put.khoz. 4 no.2:3-5 F '60. (MIRA 13:5)
(Railroads--Management)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I.A., inzh.

Constantly increase the labor productivity. Put' i put.khoz. 7 no.1: 10-11 '63. (MIRA 16:3)

(Railroads--Labor productivity)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I.A., inzh.

New developments in the determination of labor productivity. Put' i put.khoz. 8 no.3:31-32 '64. (MIRA 17:3)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, Ivan Antipovich; BABKIN, Aleksandr Rodionovich; SOLOKA, Mikhail Grigor'yevich; IPSKOVA, L.N., red.

[Economics, organization and planning of railroad track economy] Ekonomika, organizatsiia i planirovanie putevogo khoziaistva. Moskva, Transport, 1964. 226 p.

(MIRA 17:9)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, L.A., inzh.; LEZHEPEKOV, B.S., inzh.; STAVTSEV, B.N., inzh.

Selection of parameters for working units of a motor grader. Stroi i dor. mash. 8 no.12:4-5 D'63 (MIRA 17:7)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

SAGATOVSKIY, V.N.; ANTIPOV, I.G. (Tomsk)

Correlation of the concepts "cause," "condition," "etiology" and "pathogenesis." Vest. AMN SSSR 21 no.1:34-40 '66.
(MIRA 19:1)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

SKOLOV'YEV, P.Ye.; ANTIPOV, I.K.

Change in the group composition of humus of gray and light-gray forest soils under the influence of cultivation. Nauch. dokl. vys. shkoly; biol. nauki no.1:189-193 '64. (MIRA 17:4)

1. Rekomendovana kafedroy pochvovedeniya Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

KUROCHKIN, V.M.; ANTIPOV, I.N., otv.red.; ORLOVA, I.A., red.; KORKINA, A.I., tekhn.red.

[Standard BESM-2 programs of the Computer Center of the Academy of Sciences of the U.S.S.R.] Standartnye programmy BESM-2 Vychislitel'nogo tsentra AN SSSR. Moskva, Vychislitel'nyi tsentr AN SSSR, 1963. 11 p. (Akademiia nauk SSSR. Vychislitel'nyi tsentr. Standartnye i tipovye programmy BESM-2, no.6).

(MIRA 16:9)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I.N.; PODDERYUGIN, V.D., otv.red.; ORLOVA, I.A., red.

[Use of Simpson's method in solving a definite integral] Vychislenie opredelennogo integrala metodom Simpsona. Moskva, Vychislitel'nyi tsentr AN SSSR, 1964. 9 p. (Akademiia nauk SSSR. Vychislitel'nyi tsentr. Standartnye i tipovye programmy BESM-2, no.9).

(MIRA 17:4)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

BORISOVA, E.P.; ANTIPOV, I.N., otv.red.

[Subprogram of the iteration method for solving a general problem in linear programming] Podprogramma iteratsionnogo metoda resheniia obshchei zadachi lineinogo programmirovaniia. Moskva, 1964. 40 p. (Akademiia nauk SSSR. Vychislitel'nyi tsentr. Standartnye programmy BESM-2, no.8).

(MIRA 17:4)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

BOCHEK, I.A.; ANTIPOV, I.N., otv.red.; ORLOVA, I.A., red.; KORKINA, A.I., tekhn.red.

[Program for calculating eigenvalues and eigenvectors of a symmetrical matrix]. Programma vychisleniia sobstvennykh znachenii i sobstvennykh vektorov simmetricheskoi matritsy. Moskva, 1964. 23 p. (Akademiia nauk SSSR. Vychislitel'nyi tsentr. Standartnye i tipovye programmy BESM-2, no. [illegible]) (MIRA 17:6)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

VELIKANOVA, T.M.; ANTIPOV, I.N.; CHIBISOV, V.V., otv. red.

[Work at the control desk of the BESM-2 computer; programmer's handbook.] Rabota za pul'tom BESM-2; posobie dlia programmistov. Moskva, 1965. 31 p. (Akademiia nauk SSSR. Vychislitel'nyi tsentr. Standartnye i tipovye programmy BESM-2, no.10) (MIRA 18:8)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ACC NR: AP7003062

SOURCE CODE: UR/0073/67/033/001/0014/0016

AUTHOR: Belotskiy, D. P.; Antipov, I. N.; Krylyuk, N. V.

ORG: Chernovtsy State University (Chernovitskiy gosudarstvennyy universitet)

TITLE: Synthesis of single crystals and study of the SbI_3-BiI_3 system by using the fusibility and electrical resistance methods

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 33, no. 1, 1967, 14-16

TOPIC TAGS: single crystal growing, antimony compound, bismuth compound, iodide, resistivity

ABSTRACT: SbI_3 and BiI_3 single crystals were prepared from spectroscopically pure Sb and Bi and iodine by the Bridgman method in a vertical furnace with three temperature zones. The melting point diagram of the SbI_3-BiI_3 system was studied by plotting heating and cooling curves. The diagram obtained (see Fig. 1) showed the system to be characterized by a complete solubility in both the liquid and solid state. The dependence of the log of the resistivity on the reciprocal temperature was found to be linear in SbI_3 single crystals. The presence of BiI_3 changes this function completely, and the latter keeps changing with increasing BiI_3 content. An isotherm of the resistivity of the SbI_3-BiI_3 system at 100°C showed a peak at 20 mole % BiI_3; this is attributed to a certain ordering of the structure. Orig. art. has: 5 figures.

Card 1/2

UDC: 541.1+54.141

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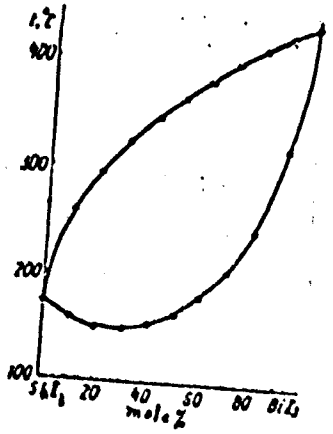
ACC NR: AP7008062

Fig. 1



SUB CODE: 07/ SUBM DATE: 23Jan65/ ORIG REF: 007/ OTH REF: 001

Card 2/2

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I. T. Cand Tech Sci -- (diss) "The Universal method of the processing of aerial photographs of 55 mm focal distance in cartography on a 1:10000 scale." Mos, 1957. 25 pp (Min of Higher Education USSR. Mos Inst of Engineers of Geodesy, Aerial Photography, and Cartography), 100 copies. (KL, 6-58, 100)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5

ANTIPOV, I.T., aspirant

Processing of aerial photographic pictures by means of transformation of projected bundles of rays. Trudy MIIGAIK no.29:109-144 '57.
(MIRA 11:5)

1.Kafedra fotogrammetrii Moskovskogo instituta inzhenerov geodezii aerofotos"yemki i kartografii.
(Aerial photogrammetry)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101720005-5"