

3(5) PHASE I BOOK EXPLOITATION NOV/1997

Vesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut.

O proiskhozhdenii nefti v kazennougol'nykh i permakich otlozheniyakh Volgo-Ural'skoy oblasti; sbornik statey (Origin of Petroleum in the Carboniferous and Permian Sediments of the Volga-Ural District; Collection of Articles) Leningrad, Dostoptekhnizat, 1958, 283 p. (Series: Iti; Trudy, v. 79, 117) Errata slip inserted. 1,500 copies printed.

Ed. i. Zinaidy I'vorny Mayain; Knes. Ed.: G.A. Dreyev; Tech. Ed.: I.M. Gennad'yev.

PURPOSE: This book is intended for geologists and geobasists, particularly those interested in questions dealing with the origin, development, and structure of oil deposits.

COVERAGE: This collection of articles deal with the Carboniferous and Permian sediments of the Volga-Ural district and methods of determining possible petroleum source-beds. The lithologic and

geochemical characteristics of the sediments are discussed as are the conditions of oil deposition. The author thanks the following geologists working in the Second Saku area: A.Z. Kabanov, L.P. Zador, K.R. Ashirov, I.L. Khanin, A.M. Mel'nikov, S.P. Yegorov, and I.A. Shpil'man. Further thanks are extended to Professor Mrs. Drai for his advice and encouragement. References accompany each article.

Origin of Petroleum (Cont.)

Petrova, Yu.M., I.P. Karpova, I.P. Kasatkina. Organic matter in the Upper Paleozoic Beds of the Volga-Ural Region	115
Kotina, A.K., Ye.M. Chikhacheva. Certain Characteristics of the Oils in the Volga-Ural Region	151
Demenkova, P.Ya., L.E. Zakharenkova, and A.P. Furbatzskaya. The Relationship Between Vanadium and Nickel in the Components of the oils of the Volga-Ural Region	186
Sinakova, T.L., and M.A. Lomova. The Study of Microflora in the Oil Deposits of the Second Saku	213
Zavadskiy, V.A. Certain Regularities in the Distribution of Oils in the Volga-Ural Region	222
Pomer, V.M. Certain Features of the Development of the Structural-tectonic Pattern in the Middle and the Upper Paleozoic of the Volga-Ural region and the Western Slope of the Urals	231

Card 3/A

Origin of Petroleum (Cont.) NOV/1997

Mayain, E.L. The possibility of outlining the oil-bearing units in a cross-section of the Carboniferous and Permian of the Volga-Ural Region

252

AVAILABLE: Library of Congress

NW/ub  
6-22-59

DEMENKOVA, P.Ya.; ZAKHARENKOVA, L.N.; KURBATSKAYA, A.P.

Relation between vanadium and nickel on one hand and oil components on the other in the Volga-Ural area. Trudy VNIGRI no.117:186-212 '58. (MIRA 12:4)  
(Volga Valley--Petroleum geology)  
(Ural Mountain region--Petroleum geology)

DEMENKOVA, P.Ya.; ZAKHARENKOVA, L.N.; KURBATSKAYA, A.P.

Some data on the distribution of vanadium, nickel, sulfur, and  
nitrogen in different fractions of Paleozoic petroleums from Volga-  
Ural regions. Trudy VNIGRI no.123:59-72 '58. (MIRA 11:12)  
(Volga Valley--Petroleum--Analysis)  
(Ural Mountain region--Petroleum--Analysis)

SERGIYENKO, S.R., DEMENKOVA, P.Ya.; DELONE, I.O.; KURBATSKAYA, A.P.

Distribution of trace elements in petroleum tars and asphaltenes.  
Trudy Inst.nefti 13:118-126 '59. (MIRA 13:12)  
(Petroleum products) (Trace elements)

DEMENKOVA, P.Ya.; ZAKHARENKOVA, L.N.; KURBATSKAYA, A.P.; PAUTOVA, M.M.

Some data on the distribution of vanadium, nickel, and porphyrins  
in petroleum of the Tajik Depression in Central Asia.

Trudy VNIIGRI no.174:68-76 '61. (MIRA 14:12)

(Tajikistan--Petroleum--Analysis)

LYHTKEVICH, Ye.M.; KURBATSKAYA, A.P.

Genesis of asphaltite "pressed cakes" or pebbles in the Lower  
Cambrian and the Lower and Middle Ordovician of the Baltic Sea  
region. Trudy VNIGRI no.227 Geokhim.sbor. no.9:101-111 '64.  
(MIRA 18:1)

MOISEYENKO, A.I.; LOSHCHEV, V.Ya.; KURBATSKAYA, G.P.

Open-hearth smelting using blast furnace sinter and ore and  
limestone briquets instead of lump ore. Stal' 24 no.10:  
885-889 O '64. (MIRA 17:12)

1. Kommunarskiy metallurgicheskiy zavod.

BERGATSKIIY, A.F.; GURFEL'D, A.T. (Novosibirsk)

Cooling by radiation of a gas flowing past a flat plate.  
METF no.3:69-72 Ky-Je '64. (MIRA 17:6)



TRITSEY, V.N.; ZAMRAYEV, V.I.; KURBATOV, A.M.; GUMERIK, A.T. (Novosibirsk)

"On cooling of radiating grey gas flowing in a channel and past a plate"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

VOZNESENSKIY, V.V., gornyy inzh.-elektromekhanik; KURBATSKIY, R.P.,  
gornyy inzh.-elektromekhanik

Improvement of the automatic control system of winches used for  
railroad serviced waste piles. Ugol' Ukr. 7 no.11:37-38 N  
'63. (MIRA 17:4)

MARIYENBAKH, I.M., doktor tekhn. nauk; CHERNYY, A.A., inzh.; GRACHEN, V.A. inzh.;  
KURBATSKIY, I.L., inzh.; PAVLENKO, N.S., inzh.; KHILYUK, A.S., inzh.

Gas-fired cupola furnace. Lit. proizv. no.1:12-13 Ja '66.  
(MIRA 19:1)

KURBATSKIY, I.L., inzh.; PETROV, I.P., inzh.; USTINOV, A.I., inzh.;  
CHERNYY, A.A., inzh.; MURZIN, V.G., inzh.; ZHITOMIRSKIY, M.B., inzh.

Manufacture of large compressor parts from extra-strong cast iron.  
Khim.mashinostr. no.5:36-37 S-O '63. (MIRA 16:10)

KURBATSKIY, I.L.; USTINOV, A.I.; CHERNYI, A.A.; MURZIN, V.G.; SOSNOVSKIY,  
Te.D.; PAVLENKO, N.S.; KHILYUK, A.S.; RUSALKIN, V.A.

Making castings of high strength cast iron. Lit.proizv. no.9:6-9  
S '62. (MIRA 15:11)

(Iron founding)

И. И. Сидоров, соавт. и др.

The industrial evaluation of forests cutting areas; practical manual. Based on materials of the Central Research and Scientific Institute of Forest Economy. Leningrad, Golestekhizdat, 1949.

(Mic 53-319)

Collation of the original: 171 p.

KURBATSKIY, N. P.

23478. GUSTOTA DREVOSTOYa I METODY YeYe OPREDELE NIYa. V SB: ISSLEDOVANIYa  
PO LES. KhoZ-VU. L., 1948 (NA OBL: 1949), c. 313-33

SO: LETOPIS' NO. 31, 1949.

SIMSKIY, Aleksandr Mikhaylovich; KURBATSKIY, N.P., redaktor; SVETLAYEVA,  
A.S., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor

[Stations for fighting forest fires by chemical means] Lesnye pozharo-  
khimicheskie stantsii. Moskva, Goslesbumizdat, 1956. 31 p. (MLRA 10:1)  
(Forest fires--Prevention and control)



USSR / Forestry. Forest Economy.

K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100169

Author : Kurbatskiy, N. P.

Inst : Leningrad Sci. Res. Inst. of Forest Economy

Title : Major Practical Problems of the Struggle Against  
Forest Fires

Orig Pub : Byul. nauchno-tekh. inform. Leningr. n.-i. in-ta lesn.  
kh-va, 1957, No 4, 22-27

Abstract : It is stated that the forests of the USSR are rather  
prone to fires; every year between 1 and 2.5 million  
hectares of forest are damaged by fires. In recent years  
the incidence of fire has been on the increase, especially  
in forests of the III group. An analysis is given of  
the major factors causing high incidence of forest fires.  
A number of technical and organizational measures are  
proposed for the prevention and control of forest fires,

Card 1/2

USSR / Forestry. Forest Economy.

K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100169

and the need for broadening scientific research into  
the causes of forest fires is emphasized. -- V. I. Klimov

Card 2/2

KURBATSKIY, N.

84-9-34/47

AUTHORS: Kurbatskiy, N., Mokeyev, G., Molchanov, V.

TITLE: The Kind of Instruction Needed for Fire Protection of Forests by Aviation (Kakoy dolzhna byt' instruktsiya po aviatsionnoy okhrane lesov ot pozharov)

PERIODICAL: Grazhdanskaya Aviatsiya, 1957, Nr 9, pp. 33-34 (USSR)

ABSTRACT: The article criticizes the shortcomings of the new "Temporary Instruction for Air Protection of Forests from Fire" (Vremennaya instruktsiya po aviatsionnoy okhrane lesov ot pozharov), issued in 1956 by the USSR Ministry of Agriculture. This "Instruction" replaced the ten-year old one, published in 1946 by the Forest Aviation Trust (trest lesnoy aviatsii). The new instruction, compiled by M.G. Chervonnyy in collaboration with A. A. Belousov, V. V. Podol'skiy, A.A. Vasil'yev, and I. A. Proshkin, leaves considerable freedom of action to the personnel of the forest aviation groups and enforces only those requirements which refer to the safety of flights. The instruction allocated An-2 planes for both patrol and transport jobs and the Li-2 for transport only, i.e. for taking fire-fighting parachute crews and equipment to the areas on fire. For this latter job the forest aviation may also employ helicopters. The article points out that

Card: 1/2

84-9-34/47

The Kind of Instruction Needed for Fire Protection of Forests by Aviation (cont.)

the new instruction did not establish any detailed basis for co-operation between the air and ground patrols. The question of setting up airfields is equally obscure. The article urges that at least two parachutists be sent to the fire area and not one, as stated in the instruction; and also that the age group for parachute jumps be restricted. The instruction issued by the USSR Ministry of Agriculture contradicts another existing document on the subject issued by the Main Administration of Civil Air at the USSR Council of Ministers. For instance, the norm for the cruising speed of the Mi-4 is incorrect (in the new instruction) and so are several other data, like the size of platform for parachute landing, data on jumps over a forest, etc. The article also criticizes the style and terminology used in the new instruction and accuses the editors of ambiguities. A photo accompanies this article, showing a forest fire. It was made by Yu. Barmin. The caption reads: an An-2 brought parachutists to the place on fire.

AVAILABLE: Library of Congress

Card 2/2

SOV/84-58-4-28/48

AUTHORS: Kurbatskiy, N., Molchanov, V., Bitkov, P. (Leningrad)

TITLE: Laying Fire Barrier Strips by Helicopters (Prokladka protivopozharnykh zagraditel'nykh polos s vertoletov)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 4, pp 31-32 (USSR)

ABSTRACT: The authors give first a historical sketch of attempts to lay fire barrier strips from aircraft in which they refer to USA experience. Since 1955, joint experimentation by the Central Scientific Research Institute of Forestry (TsNIILKh-Tsentral'nyy nauchno-issledovatel'skiy institut lesnogo khozyaystva), the State Scientific Research Institute (GosNII) of the GVF, and the Central Aviation Base for Forest Protection has been carried on. The article discusses various methods that have been tried and the results achieved. Limited success was due to the lack of an efficient spraying device, such as a proper pump. The PS-8 pump used thus far is considered too heavy (180 kg). A photograph and a diagram accompany the text.

Card 1/1

1. Forest fires--Control systems
2. Helicopters--Performance
3. Firefighting vehicle;--Equipment

USSR / Forestry. General Problems.

K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100141

Author : Kurbatskiy, N. P.

Inst : Not given

Title : The Present State and Problems of Scientific Research  
on Forest Fire Protection

Orig Pub : Izv. Vsesoyuzn. Nauchn. Ts. Lesn. Khim. i Lesn. Prom. Stroy. i Mash. Stroy. 1958, No 4, 39-41

Abstract : No abstract given

Card 1/1

6

KURBATSKIY, Nikolay Petrovich; ZHUKOV, A.B., prof., doktor sel'khoz.  
nauk, red.; POPOVA, A.G., red. izd-va; SHIBKOVA, R.Ye.,  
tekhn. red.

[Techniques and tactics of fighting forest fires] Tekhnika i  
taktika tusheniia lesnykh pozharov. Moskva, Goslesbumizdat,  
1962. 153 p. (MIRA 15:9)

1. Direktor Instituta lesa i drevesiny Sibirskogo otdeleniya  
Akademii nauk SSSR (for Zhukov).  
(Forest fires--Prevention and control)

KURBATSKIY, N.P., kand. sel'khoz. nauk, otv. red.; RZHEVSKIY, V.F.,  
red. izd-va; LAUT, V.G., tekhn. red.

[Forest fires and their control] Lesnye pozhary i bor'ba s  
nimi. Moskva, Izd-vo Akad. nauk SSSR, 1963. 162 p.

(MIRA 16:3)

1. Akademiya nauk SSSR. Institut lesa i drevesiny.  
(Forest fires--Prevention and control)



KURBATSKIY, N.P.

Forest fire in the region of Tunguska meteorite fall in 1908.  
Meteoritika no.25:168-172 '64. (MIRA 17:9)

\_NURMATSEY, N.F., kand. biolog. nauk, stv. nauk.; NURMATSEY, G.F.,  
prof., doktor biolog. nauk, biolog;

[Origin of Forest Fires] i mikrotenio lesnykh požarov.  
Moskva, Nauka, 1964. 183 p. (MIRA 19:11)

1. Akademiya nauk S.S.S.R. sibirskoye otdeleniye. Institut  
lesa i drevesiny.

KURBATSKIY, O., kand.tekhn.nauk

Ways to determine pressure in pumps. Pozh.delo 9 no.12:24-25 D  
'63.

(MIRA 17:1)

KURBATSKIY, O., kand.tekhn.nauk

Parallel operation of pumps feeding the mounted nozzle assembly.  
Pozh.delo 7 no.7:15-17 J1 '61. (MIRA 16:11)

KURBATSKIY, O. M.

KURBATSKIY, O. M.: "The hydraulic conditions for passing structural discharges through the building blicks of low-pressure hydroelectric power stations." Min Higher Education USSR. Leningrad Polytechnic Inst imeni M. I. Kalinin. Leningrad, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE).

So.: Knizhnaya Letopis', Moscow, 1956 , No. 15

KURBATSKIY, O., kandidat tekhnicheskikh nauk; ZHOKHOV, V.

Waterproofing of water tanks, Posh. delo 3 no.7:10 J1 '57.  
(Fire extinction- Water supply) (MLRA 10:8)

KURBATSKIY, O., kand.tekhn.nauk; KOLBASIN P., inzh.

The G-600 hydraulic ram. Pozh.delo 4 no.11:18-19 U '58.  
(MIRA 11:12)

(Hydraulic rams)

KURBATSKIY, O., kand. tekhn. nauk; KYABOV, I., kand. tekhn. nauk

The KIB-M pipe. Pozh. delo 5 no. 8:29 Ag '59.

(Fire departments--Equipment and supplies) (MIRA 12:12)



KURBATSKIY, O., kand.tekhn.nauk; SUCHKOV, A., inzh.

Improved foam mixer for fire extinguisher. Pozh.delo 6 no.9:24-  
25 S '60. (MIRA 13:9)  
(Fire extinction--Equipment and supplies)

KURBATSKIY, O., kand. tekhn. nauk

Cavitation. Pozh.delo 7 no.8:23-24 Ag '61. (MIRA 14:8)  
(Fire departments--Hydraulic equipment)  
(Cavitation)

KURBATSKIY, O., kand.tekhn.nauk; SUCHKOV, A., inzh.

High-capacity mounted nozzle assembly. Pozh.delo 7 no.12:23-24,  
D '61. (MIRA 14:11)

(Nozzles)

KURBATSKIY, O., kand.tekhn.nauk; IVANOV, Ye., inzh.

New fire hydrant. Pozh.delo 8 no.1:24-25 Ja '62. (MIRA 15:1)  
(Hydrants)

KURBATSKIY, O.M.; IVANOV, Ye.N.

Specifying the standard for fire hydrants. Standartizatsiia 26  
no.1:51-53 Ja '62. (MIRA 15:1)

(Hydrants--Standards)

KURBATSKIY, Oleg Mikhaylovich; SHEVALOV, M.G., red ; LYUBINA, R.M.,  
red. izd-va; KEENOKH, F.M., tekhn. red.

[Water-jet apparatuses in fire extinction] Vodostruinye ap-  
paraty v pozharom dele. Moskva, Izd-vo PKKh RSFSR, 1963.  
102 p. (MIRA 16:6)

(Fire streams)

KURBATSKIY, O.M., kand. tekhn. nauk; IVANOV, Ye.N., inzh.;  
PEIMYAKOV, P.N., inzh.

Efficient hydrant for rural water conduits. Gidr. i mel. 15  
no.12:54-55 D '63. (MIRA 17:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut protivopozharnoy oborony.

RODE, Aleksandr Aleksandrovich; IVANOV, Yevgeniy Nikolayevich;  
KLIMOV, Georgiy Vladimirovich; KURBATSKIY, O.M., nauchn.  
red.; ZLOBINA, Z.P., red.

[Automatic fire extinguishing systems] Avtomaticheskie  
ustanovki dlia tusheniia pozharov. Moskva, Stroiizdat,  
1965. 186 p. (MIRA 18:7)



KURBATSKIY, P.

Production plan and cooperation. Pozh. delo 7 no.2130 F '61.

(MIRA 1412)

1. Predsedatel' oblastnogo Dobrovol'nogo pozharnogo obshchestva,  
g. Gomel'.

(Gomel Province—Factories—Fires and fire prevention)

KURBATSKIY, V.I., inzh.

Assembly of control and automation installations at chemical  
industry enterprises. Mont. i spets. rab. v stroi. 25  
no.11:23-26 N '63. (MIRA 17:1)

1. Trest TSentromontazhavtomatika.

YUGOSLAVIA/Chemical Technology - Cellulose and Its Derivatives. H-33  
Paper.

Abstr Jour : Ref Zhur - Khimiya, No 24, 1958, 83805

Author : Krajeinovic, M., Bravar, M., Kurbegovic, M.  
Inst : -  
Title : The Removal of Lignin From a Wood Pulp in the Preparation  
of Kraft Cellulose.

Orig Pub : Kemija u industriji, 1958, 7, No 3, 65-68.

Abstract : The conditions for pulping kraft cellulose from pine  
groundwood were investigated. In the first series of pul-  
ping, the pulping liquor contained NaOH and Na<sub>2</sub>S and in  
the second one - NaOH and polysulfides of sodium. In the  
third series of pulping the composition of the pulping  
liquor was the same as in the second one but a black li-  
quor was added. Pulping with a solution containing Na<sub>2</sub>S  
produces optimum results at a 40% sulfide concentration  
and better still by using sodium polysulfide with 12%  
of the sulfide concentration.

Card 1/1

- 72 -

KURBEL, Sandor

In the center of the chemical industry. Munka 14 no.3:  
5-6 Mr '64.

1. Szakszervezetek Veszprem megyei Tanacsa vezeto titkara.

KURBEL, Sandor

Experiences in work and factory organization in Veszprem  
County. Munka 14 no.1018-9 0 '64.

1. Secretary, Veszprem County Trade Union Committee.

ALEXANDROV, A.G., kand. tekhn. nauk; BLAGIN, M.I., doktor tekhn. nauk;  
Prinipal'no uchastliye: GOL'VEK, I.M.; BERKUN, M.N.; ZHURENKO, L.M.;  
GALKIN, Yu.N.

Cast, nickel-free, heat-resistant alloys. Lit. proizv. no.12:  
8-10' D '65. (MIRA 18:12)

KURBESOV, N. S. and AMALITSKIY, M. V.

"A Methodical Textbook on the 'Principles of Radio Engineering' Course" (Metodicheskoye posobiye po kursu "Osnovy radiotekhniki"), Svyaz'izdat, 1949, 72 pp.

All-Union Correspondence Communications Technical School.

GALKIN, M.A.; KURBET, S.A.; KIRILLOV, L.I.

Design of machinery and the cost of its production. Trakt. i sel'-  
khoz mash. 32 no.7:25-27 JI '62. (MIRA 15:7)  
(Agricultural machinery)



AUTHOR: Kurbetyov, G.N., Engineer. 292

TITLE: Valve for the automatic regulation of solution level in the tank of a reagent feeder. (Klapan dlya avtomaticheskogo regulirovaniya uroviya rastvora v bace reagentnogo pitatelya.)

PERIODICAL: "Tsvetnye Metally" (Non-ferrous Metals), 1957, No. 1, pp. 88 - 89, (U.S.S.R.)

ABSTRACT: Valves supplied by the imeni Kotlyakova Works for controlling solution level in a tank automatically were found to have certain constructional defects. These were revealed when the equipment was installed at the Sikhote-Alinskaya beneficiation plant. The author, together with A.A. Abdulin, produced an improved variant, which has worked entirely satisfactorily.

KURBET'YEV, G.N.; KONOVALOV, M.I.; VORONCHIKHIN, G.A.

The performance of flotation machines. Tsvet. met. 38 no. 12:  
23-24 D 165 (MIRA 19:1)

KURBTZYEV, G.N.; KONOVALOV, M.I.; VORONCHIKHIN, G.A.; BURDA, N.I.

Industrial testing of sodium cyanide as a substitute for alkali cyanide. TSvet. met. 38 no.9:25-26 S '65.

(MIRA 18:17)

SHUMKOV, O.A.; KURBET'YEV, G.N.

Rapid flotation is the road toward the full use of potentialities  
for the increase and cost reduction of nonferrous metal recovery.  
TSvet.met. 35 no.8:5-10 Ag '62. (MIRA 15:8)  
(Flotation) (Nonferrous metals--Metallurgy)

SILINA, Ye.N.; KURBEZHEKOVA, A.N.

Permian deposits on the eastern slope of the Urals.  
Dokl. AN SSSR 146 no.4:887-889 0 '62. (MIRA 15:11)

1. Chelyabinskaya geologicheskaya ekspeditsiya.  
Predstavleno akademikom D.V. Navlivkinym.  
(Ural Mountains--Geology, Stratigraphic)

KURBIEL, A.

POLAND/Chemical Technology - Chemical Products and Their  
Application. Food Industry.

I-13

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2992

Author : Wandokanty, F., Utzig, J., Kurbiel, A., Wartenberg, L.

Inst : -

Title : Simple Method for Determining the Nature of Muscle Tissue  
by Means of Paper Chromatography.

Orig Pub : Przem. spozywczy, 1956, 10, No 4, 171-172

Abstract : For determining the nature of meat a method has been worked out for analyzing the protein extract of muscle tissue by means of paper chromatography. 4 g of the muscle tissue under study are ground with 0.5 g of sand, 5 ml water are added and the mixture is filtered. 0.001 ml of the filtrate are placed on the paper (Whatman No 1 or No 4, 6 x 35 cm) at a distance of 6 cm from the edge, the paper is dried, kept for 3 hours in the vapors of the solvent (acetone - water 1:1, phosphate buffer pH 6.8- water 7:3,

Card 1/2

POLAND/Chemical Technology - Chemical Products and Their  
Application. Food Industry.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927620018-

I-13

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2992

or acetone - water 6:4 with addition of 1.5% NaCl), chromatography is conducted for 4-8 hours at 22°, dried for 30 minutes at 40°, immersed for 10 minutes in saturated solution of Azocarmine B in 50% methanol, containing 10% acetic acid, and held thereafter for 5 minutes, in each, in methanol and in 10% acetic acid. Intensity of coloration is proportional to the amount of protein. The values of  $R_f$  for horsemeat, porc and beef, are respectively, 0.35, 0.5, 0.7.

Card 2/2

KURBIEL, Aleksy, mgr inż.

Operation course of a steel-melting electric arc furnace  
with automatically controlled arc voltage-arc current ratio.  
Przegl elektrotechn 39 no.6:242-244, Jo '63.

1. Akademia Gorniczo-Hutnicza, Krakow.

PYTASZ, Marian; GARBULINSKI, Tadeusz; KURBIEL, Andrzej; PRAZAK, Mieczyslaw

Electrolytes and urinary reactions in the light of experiments and statistical analysis. Acta physiol. polon. 11 no.2:251-265 Mr-Apr '60.

1. Z Zakladu Chemii Fizjologicznej WSR we Wroclawiu, Kierownik: z-a prof. dr F. Wandokanty; Z Zakladu Fizjologii AM we Wroclawiu, Kierownik: prof. dr A. Klisicki; Z Zakladu Matematyki WSR we Wroclawiu, Kierownik: doc. dr R. Hochenberg.  
(ELECTROLYTES urine)



24271 KURBENKAYA, R. A. K anatomii otvol'tsa shchitki i k staticheskim osnove priyatoj  
Pichhi. Trudy Leningr. Sak.-gigien. i d. IZ-TA, T. III, 1949, S. 16-72.  
Bibliogr: 6 nazv.

SO: Letopis, No. 33, 1949.

АКАДЕМИИ  
KURBSKAYA, R.A., dots.

Original capillary lymph networks and vessels in the skin of the  
human neck. Trudy LSGMI 9:51-81 '51. (MIRA 11:1)

1. Kafedra normal'noy anatomii Leningradskogo sanitarno-gigiyeni-  
cheskogo meditsinskogo instituta (zav. kafedroy - chl-korr. AMN  
SSSR prof. Zhdanov D.A.)  
(SCALP) (LYMPHATIC)

*Kurb'skaya, R.A.*  
KURBSKAYA, R.A. (Leningrad, per. Dekabristov, d.4, kv.42)

Anatomy of the lymph vessels and lymphatic communications of the palatine tonsil with the adjacent organs [with summary in English]. Arkh.anat.gist. i embr. 34 no.5:19-27 S-0 '57. (MIRA 11:1)

1. Iz kafedry normal'noy anatomii (zav. - chlen-korrespondent AMN SSSR prof. D.A.Zhdanov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(TONSILS, anat. and histol.

lymphatic connection with adjacent organs, anat.)

(LYMPHATIC VESSELS, anat. and histol.

lymphatic connection of tonsils with other vessels, anat.)

USSR/Human and Animal Morphology - Normal and Pathological.  
Lymphatic System.

S

Abs Jour : Ref Zhur Biol., No 23, 1958, 105959

Author : Kurbskaya, R.A.

Inst : Leningrad Sanitary Hygienic Medical Institute

Title : Anatomy of the Lymphatic System of the Tongue

Orig Pub : Tr. Leningr. san. gigen. med. in-ta, 1957, 35, 13-26

Abstract : In sections of the tongue (T) of fetuses, newborn, children and adult humans, by the method of vanGieson's, and transillumination by the method of Spalteholz and Malygin, certain structural characteristics of T and its lymphatic system were detected, the architecture, topography and direction of the lymph flow of which is closely related to the connective tissue and the muscles of T. The connective tissue stroma of the papillae of T apparently

Card 1/2

- 18 -

USSR/Human and Animal Morphology - Normal and Pathological.  
Lymphatic System.

S

Abs Jour : Ref Zhur Biol., No 23, 1958, 105959

determines the localization, form and distribution of the lymphatic capillaries in the papillae (in comma shaped, pointed or spiral loop). The lymph outflow from the lymphatic capillary net of the mucous membrane and to the muscle tissue of T proceeds in two directions: through the lymphatic vessels (LV) passing in the inter-muscular connective tissue, where they entwine the blood vessels, and through the LV passing as independent inter-muscular plexuses of the draining LV in the stroma of T. The intralingual LV of T are divided into superficial and deep vessels only topographically, since they secure the drainage of the lymph from both the mucous membrane and the muscular layer of T. The superficial efferent LV of T are divided into anterior, lateral and posterior, and the deep LV into central and lateral.

Card 2/2

KURBSKAYA, R.A. (Leningrad, P-154, pr. Dekabristov, d. 4, kv. 42)

Direction and connections of lymph collectors of certain organs  
of the neck and head [with summary in English]. Arkh.anat.gist. 1  
embr. 36 no.2:52-62 F '59. (MIRA 12:4)

1. Kafedra anatomii (sav. - chlen-korrespondent AMN SSSR prof. D.A.  
Zhdanov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo  
instituta i I Moskovskogo ordena Lenina meditsinskogo instituta.

(LYMPHATIC SYSTEM, anat. & histol.

neck & head (Rus))

(NECK, anat. & histol.

lymphatic system (Rus))

(HEAD, anat. & histol.

same)

KURBSKAYA,  
~~XXXXXXXXXX~~ R. A. Doc Med Sci -- "Direction and <sup>circulation</sup> ~~flow~~ of the lymphatic vessels  
of certain organs of the head and neck." Len, 1960 (Min of Health RSFSR. Len  
Sanitary Hygienic Med Inst). (KL, 1-61, 204)

-344-

KURSKAYA, R.A.

Anatomy of the lymphatic system of the lips. Trudy ISOMI 65:  
41-47 '62.

Anatomy of the lymphatics of the hard and soft palates. Ibid.:42-49

Anatomy of the lymphatics of the nasal cavity. Ibid.:64-74

(MIRA 1974)

1. Kafedra normal'noy anatomii Leningradskogo sanitzenno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. V.N.Nadezhdin).



S/202/61/000/006/003/004  
A006/A101

AUTHORS: Sergiyenko, S.R., Kurbskiy, G.P.

TITLE: The chemical nature of Dzhebol petroleum

PERIODICAL: Akademiya nauk Turkmenskoy SSR, Izvestiya, Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 6, 1961, 64 - 73

TEXT: The authors investigated petroleum from wells 14 and 26 of the Dzhebol deposit in the Timano-Pechersk province (Komi ASSR), and present information on their hydrocarbon composition as to fraction, components and groups. The petroleum was distilled in a ЦИАТИМ-58а (TsiATIM-58a) device into a series of fractions up to 500°C. Distillation up to 200°C was performed at atmospheric pressure and in a vacuum at up to 350°C, and up to 500°C in a direct-heated Klyayzen retort. Residues boiling at over 500°C were separated in large-size chromatographic columns (2,280 mm high, 30 mm in diameter) by two variants: 1) using as desorbents a series of desaromatized 60 - 80°C fractions, their mixture with benzene and alcohol-benzene; 2) separating the residue into a hydrocarbon portion and then into 3 resin fractions using a smaller column containing 150 g silicagel. The results obtained show that both these methods yield comparable results

Card 1/2

The chemical nature of Dzhebol petroleum

S/202/61/000/006/003/004  
A006/A101

concerning the hydrocarbon content and the total content of resinous substances. There is however, a marked difference in respect to the distribution of resin fractions due to the different polarity of desorbents employed. The second method should be preferred. The total balance of the two types of petroleum investigated shows the following distribution of components: Petroleum from well no. 14; hydrocarbons 96.7, resins 2.9; asphaltenes 0.4; petroleum from well no. 26; 95.7, 4.01 and 0.3 respectively. Detailed data are contained in a number of tables. There are 9 tables and 6 references: 5 Soviet-bloc and 1 non-Soviet bloc. ✓

ASSOCIATION: Neftyanaya laboratoriya Ukhtinskogo territorial'nogo geologicheskogo upravleniya (Petroleum Laboratory of the Ukhta Territorial Geological Administration)

SUBMITTED: September 4, 1961

Card 2/2

S/202/61/000/006/004/004  
A006/A101

AUTHORS: Sergiyenko, S.R., Kurbskiy, G.P.

TITLE: The nature of the effect of high-temperature distillation on high molecular petroleum compounds

PERIODICAL: Akademiya nauk Turkmenskoy SSR, Izvestiya, Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 6, 1961, 74 - 87

TEXT: Using petroleum samples from the Nizhne-Omrinskoye deposit, the authors studied the nature of chemical changes in the high-molecular portion of the petroleum under the effect of high distillation temperatures. For this purpose the composition and properties of the high-molecular portion were determined by employing method I when the specimens were subjected to extended heating at high temperatures (singling-out of fractions boiled away at up to 500°C) and method II, excluding heating over 200-250°C. The characteristic properties of the petroleum investigated are:  $d_4^{20} = 0.8284$ ,  $n_D^{20} = 1.4695$ ; molecular weight 200; kinematic viscosity at 20°C = 6.23 cst, acidity number 0.14; Konradson coke number 1.2; sulfur content 0.27%. The content of basic components is: oils 60.2%; paraffin 5.5 (melting point 51°C), resins 3.1 and asphaltenes 0.2%. The

Card 1/3

The nature of the effect ...

S/202/61/000/006/004/004  
A006/A101

results obtained are tabulated and show that in the case of light petroleum with low resin and sulfurous compound content, and major amount in the hydrocarbon portion of paraffin-cycloparaffin hydrocarbons, vacuum distillation with gradual temperature increase up to 500°C, has only a slight effect on the yield and the properties of the hydrocarbon groups. Its effect is marked, however, on the properties of resin-asphaltene components, manifested in the process of asphaltene formation and changes in the nature of resins, such as age, molecular weight and the content of heteroatoms. About 99% hydrocarbons are extracted from residues over 350°C by a 60 - 80° desaromatized fraction of petroleum ether during chromatographic separation. Therefore it is not expedient to employ mixtures of petroleum ether with carbon tetrachloride on ACH(ASK) silicagel. The information includes details on the chemical nature of the Devonian petroleum investigated. There are 10 tables and 15 references; 11 Soviet-bloc and 4 non-Soviet bloc. The reference to the most recent English language publication reads as follows: 14. Knotnerus, J., - J. Inst. Petrol. XII, vol. 42, 396, 1956)

Card 2/3

The nature of the effect ...

S/202/61/000/006/004/004  
A006/A101

ASSOCIATIONS: Neftyanaya laboratoriya Ukhtinskogo territorial'nogo geologicheskogo upravleniya (Petroleum Laboratory of the Ukhta Territorial Geological Administration); Laboratoriya neftekhimicheskogo sinteza Institut khimii AN Turkmenskoy SSR (Laboratory of Petrochemical Synthesis attached to the Institute of Chemistry, AS Turkmenian SSR)

SUBMITTED: September 4, 1961



Card 3/3

SERGIYENKO, S.R.; KURBSKIY, G.P.

Composition and properties of natural bitumen of the Voia and Niamed' deposits. Izv.AN Turk.SSR.Ser.fiz.-tekh., khim.i geol.nauk no.1:35-43 '62.

Composition and properties of Lem'iu petroleum. Ibid.:44-50 (MIRA 16:12)

1. Neftyanaya laboratoriya Ukhtinskogo territorial'nogo geologicheskogo upravleniya i Institut khimii AN Turkmenskoy SSR.

KURBSKIY, V.

Duty of a scientist and citizen. NTO 6 no. 6:45-46 Je '64.  
(MIRA 17:8)

*KURBYUKOV, D.*

KURBYUKOV, D.

Carefully disburse funds for social and cultural purposes. Fin.SSSR  
16 no.4:65-66 Ap '55. (MLRA 8:3)  
(Finance)



DEDEK, Vladimir, inz.; KURC, Jaromir; LEVAR, Emil

Operational tests of new oil emulsions in cold steel strip rolling. Hut listy 19 no. 2: 102-108 F '64.

1. Vitkovicke zelezarny Klementa Gottwalda, Ostrava (for Dedek and Kurc).
2. Benzina, n.p., Praha (for Levar).

KURCH, V.A., assistant; SOLOV'YEV, N.L., prof.

Reduction of sewing machine needles. Nauch. trudy MTILP no.24:  
223-227 '62. (MIRA 16:7)

1. Kafedra tekhnologii metallov Moskovskogo tekhnologicheskogo  
instituta legkoy promyshlennosti.  
(Metals—Cold working)

KURCH, V.A., assistant; SOLOV'YEV, N.I., prof.

Determining the feed by the support of the reducing machine  
taking the rotation of the separator into account. Nauch.  
trudy MIILP no.30:306-309 '64. (MIRA 18:6)

1. Kafedra tekhnologii metallov Dneprovskogo tekhnologicheskogo  
instituta legkoy promyshlennosti.

67411

SOV/31-59-10-15/21

~~296~~ 3.2100

AUTHOR: Kurchakov, A.V.

TITLE: Observation of the Artificial Comet<sup>17</sup>

PERIODICAL: Vestnik Akademii nauk Kazakhskoy SSR, 1959, Nr 10, pp 97-99 (USSR)

ABSTRACT: The author states that an "artificial comet" was provided to facilitate observation of the cosmic rocket which was launched at the Moon from the Soviet Union on Sep 12, 1959. At a predetermined moment sodium in the rocket evaporated and was ejected. The vapor underwent resonance fluorescence as a result of solar radiation on a wavelength = 5893 Å. The Institut astrofiziki AN KazSSR (Institute of Astrophysics of the AS KazSSR) prepared to observe the flash, which

was expected 15° from the Moon. Since the light scattered from the Moon made a blue background and the flash would occur in the yellow region of the spectrum, a yellow filter was placed in front of the

Card 1/3

4 ✓

Observation of the Artificial Comet

67411

SOV/31-59-10-15/21

photographic plate. This however would weaken the brightness of the stars' images and in this case, if the image of the flash were also weak on the photographs, it would have been difficult to differentiate between the stars and the flash. To avoid errors, the area of the sky concerned was photographed some time before the Moon reached it, and stars up to the twelfth magnitude were taken with no perceptible background. The apparatus used to photograph the artificial comet was as follows: a strong meniscus telescope with a mirror diameter of 50 cm and focal distance of 120 cm, operated by D.A. Rozhkovskiy, M.G. Karimov, A.V. Kurchakov; an "NAFA" camera with a light intensity of 1: 2.5, operated by T.B. Omarov and E.S. Yeroshevich; two "Kometa A" cameras with light intensities respectively of 1 : 2.5 and 1 : 5, operated by V.S. Matyagin, M.A. Svechnikov and K.G. Dzhakusheva; and two pairs of binoculars. Interference filters were used on all these. Since the flash occurred later than forecast, the sodium cloud was re-

Card 2/3



67411

Observation of the Artificial Comet

SOV/31-59-10-15/21

ceived on the "Kometa A" cameras and on the telescope. Its coordinates were:  $\alpha = 20^{\text{h}} 35^{\text{m}} 6^{\text{s}}$ ,  $\delta = -9^{\circ}.1$ . A table shows how the cloud developed. A further study of this is intended. From the data obtained it will be possible to judge the density of the cloud at each moment, the density of the interplanetary atmosphere and the thermal speed of the particles of the cloud. From the ring-like form of the cloud we may say that the concentration of particles in it at this stage and the density of the interplanetary atmosphere are both small. A speed gradient of the scattering particles may be inferred from the unevenly distributed brightness. There are 1 table and 3 photographs.

Card 3/3

4

69758

S/GAT/60/500/12 09/011

3 1550

AUTHOR: Kurchakov, A.V.TITLE: On the Optical Properties of the Atmosphere and the Surface of Mars

BIBLIOGRAPHICAL: Vestnik Leningradskogo universiteta. Seriya matematiki, mekhaniki i astronomii, 1960, No. 2, pp. 194-195

TEXT: In connection with the different interpretations on the properties of the atmosphere of Mars (Ref. 1-5) the author tries to clarify this question and to interpret the data of observation with the consideration of the scattering of all orders. The principal result of the paper is the assertion that the atmosphere of Mars is essential is scattering and that the true absorption in it is not essential. The author gives approximate formulas for the functions of Ambartsumyan  $f(\tau_0, \mu)$  and  $p(\tau_0, \mu)$  (Ref. 7). The author mentions V.Y. Shararov, A.E. Samson, N.F. Sytinskaya, K.N. Sykinskaya and V.G. Egerikov; he thanks Professor V.V. Goncharov for hints. There are 13 tables, 1 figure and 13 references: 10 Soviet, 1 French and 1 American.

SUBMITTED: July 1, 1959

Card 1/1

4

KURCHAKOV, A.V.

Photometric observation of Arend-Roland's comet. Izv.Astrofis.  
inst.AN Kazakh.SSR 9:21-28 '60. (MIRA 13:5)  
(Comets)



3/035/61/000/012/012/03  
A001/A101

AUTHORS: Bugoslavskaya, Ye.Ya., Dzhakusheva, K.G., Karimov, M.G., Kurbanov, A.V., Matyagin, V.S., Rozhkovskiy, D.A., Svechnikov, M.A.

TITLE: Determination of artificial comet coordinates

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 12, 1961, 21, abstract 12A188 ("Izv. Astrofiz. in-ta AN KazSSR", 1960, v. 10, 35-36. Engl. summary)

TEXT: The authors present the results of determining the position of an artificial comet on the basis of photographs taken on September 12, 1959, at the Mountain Astrophysical Observatory in Alma-Ata by means of a Kometa-A camera (D=100 mm, F=500 mm) and a meniscus astrograph (D=500 mm, F=1,200 mm) (cf. RZhAstr, 1960, no. 9, 9302). The measurements were carried out on devices KIM-3 (KIM-3) and UIM-21 (UIM-21); positions of two control stars and of three fundamental ones were measured. Coordinates of three positions of the comet are given. The determination accuracy varies, dependent on the image density, from  $\pm 2''$  to  $\pm 7''$  ✓

[Abstracter's note: Complete translation]

D. Ponomarev

Card 1/1

KURCHAKOV, A.V.

Optical properties of the atmosphere and the surface of Mars.  
Vest.LGU 15 no.7:154-163 '60. (MIRA 13:4)  
(Mars (Planet))

ROZHKOVSKIY, D.A.; KURCHAKOV, A.V.; MATYAGIN, V.S.

Photometric and spectrophotometric observations of Giacobini-Zinner's comet. Izv.Astrofiz.inst.AN Kazakh.SSR 11:116-117 '61. (MIRA 14:3)

(Comets)

ГОТТЕЦЫКТИ Д.А.; ГЛУШКОВ, Ю.Л.; КУРЧАКОВ, А.В.

Results of installing a Cassegrain focusing mirror in a high-power  
Maksutov telescope. Izv. AN Kazakh. SSR. Ser. fiz.-mat.nauk no.1:  
52-58 '63. (MIRA 17:4)

KURCHAKOV, A.V.

Role of  $L_{\alpha}$ -quanta in the formation of the continuous spectrum  
of diffuse nebulae. Trudy Astrofiz. inst. AN Kazakh. SSR 5:  
292-295 '65. (MIRA 18:6)

VEYNEROV, I.B., prof.; KURCHAKOVA, F.A., kand.biologicheskikh nauk;  
PODGAYETSKAYA, M.G., kand.mod.nauk

Treatment of seborrhea of the hairy part of the head with potassium  
polysulfide and vitamin creme. Vrach. delo no. 3:94-97 Mr '61.  
(MIRA 14:4)

1. Klinika tuberkuleza kozhi (zav. - prof. I.B. Veynerov)  
Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza imeni  
akademika F. G. Yanovskogo.

(SEBACEOUS GLANDS—DISEASES) (VITAMIN THERAPY)  
(SULFIDES)

GAL'PERIN, Lev Lipovich; KURCHASHOVA, Valentina Anatol'yevna; SOKOLOV, L.S.,  
inzhener, redaktor; KHITROV, P.A., tekhnicheskiiy redaktor

[Electric railroad engineer's handbook] Spravochnik mashinista  
motervagonnoi tiagi. Moskva, Gos.transp. zhel-dor. izd-vo, 1956.  
395 p. (MIRA 10:1)  
(Electric railroads)

TOMFEL'D, L.P.; KURCHASHOVA, V.A.

A useful manual for electric locomotive engineers and their assistants ("Electrical systems of electric locomotives and equipment maintenance." V.K. Kalinin and others. Reviewed by L.P. Tomfel'd, V.A. Kurchashova). Zhel.dor.transp. 37 no.3:95-96 Mr '56.

(MLRA 9:5)

1. Nachal'nik motorvagonnogo depo Pererva Moskovsko-Kursko-Donbas-skoy dorogi (for Tomfel'd); 2. Starshiy inzhener depo Pererva (for Kurchashova)  
(Electric locomotives) (Kalinin, V.K.) (Mironov, K.A.) (Vitevskiy, I.V.) (Nikiforov, B.D.) (Seayunin, V.S.) (Sobolev, V.M.)



KURCHASHOVA, V.A., starshiy inzhener; TOMFEL'D, L.P.

Organizing the repair of electric rolling stock at the Pererva depot. Zhel. dor. transp. 38 no.9:24-28 S '56. (MLRA 9:10)

1. Nachal'nik elektrodepo Pererva Moskovsko-Kursko-Donbasskoy dorogi (for Tomfel'd).  
(Electric locomotives--Repairs)

FURCHASHOVA, V.A. (depo Pererva, Moskovsko-Kursko-Donbasskaya doroga)

Machine for banding armatures and grooving collectors of electric  
motors. Elek.i tepl.tiaga no.7: 34-35 JI '57. (MLFA 10:9)  
(Electric locomotives)

KURCHASHOVA, V.A.; KAPUSTIN, L.D.

Results of experimental operation of multiple-unit electric train with a regenerative rheostatic braking system. Zhel. dor.transp. 41 no.7:63-68 J1 '59. (MIRA 12:12)

1. Nachal'nik tekhnicheskogo otdela depo Parerva Moskovsko-Kursko-Donbasskoy dorogi (for Kurchashova). 2. Starshiy inzhener tekhnbyuro podvizhnogo sostava Moskovskogo elektromekhanicheskogo zavoda "Dinamo" im. S.M.Kirova (for Kapustin).  
(Electric railroads--Braking)

TOMFEL'D, L.P.; KURCHASHOVA, V.A.

Decisions of the June Plenum of the Central Committee of  
the CPSU are brought into reality. Elek.i tepl.tiaga  
no.7:4-6 J1 '60. (MIRA 13:8)

1. Nachal'nik motorvagonnogo depo Pererva (for Tomfel'd).
2. Nachal'nik proizvodstvenno-tekhnicheskogo depo Pererva  
(for Kurchashova).  
(Railroads--Repair shops)

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

111 AND 112 ORDERS      PROCESSES AND PROPERTIES INDEX      113 AND 114 ORDERS

11A  
 inner photoelectric effect in semiconductors. H. V. Kurchatov, *J. Tech. Phys.*  
 (U. S. S. R.) 1, 672-83(1931).—A review with a table of data on the photoelec. effect of  
 about 123 substances. P. H. Rathmann *Zhury. Tekh. Fiz.*

115  
 116  
 117  
 118  
 119  
 120  
 121  
 122  
 123  
 124  
 125  
 126  
 127  
 128  
 129  
 130  
 131  
 132  
 133  
 134  
 135  
 136  
 137  
 138  
 139  
 140  
 141  
 142  
 143  
 144  
 145  
 146  
 147  
 148  
 149  
 150  
 151  
 152  
 153  
 154  
 155  
 156  
 157  
 158  
 159  
 160  
 161  
 162  
 163  
 164  
 165  
 166  
 167  
 168  
 169  
 170  
 171  
 172  
 173  
 174  
 175  
 176  
 177  
 178  
 179  
 180  
 181  
 182  
 183  
 184  
 185  
 186  
 187  
 188  
 189  
 190  
 191  
 192  
 193  
 194  
 195  
 196  
 197  
 198  
 199  
 200

COMMON ELEMENTS

ASB-51-A METALLURGICAL LITERATURE CLASSIFICATION

111 AND 112 ORDERS      PROCESSES AND PROPERTIES INDEX      113 AND 114 ORDERS

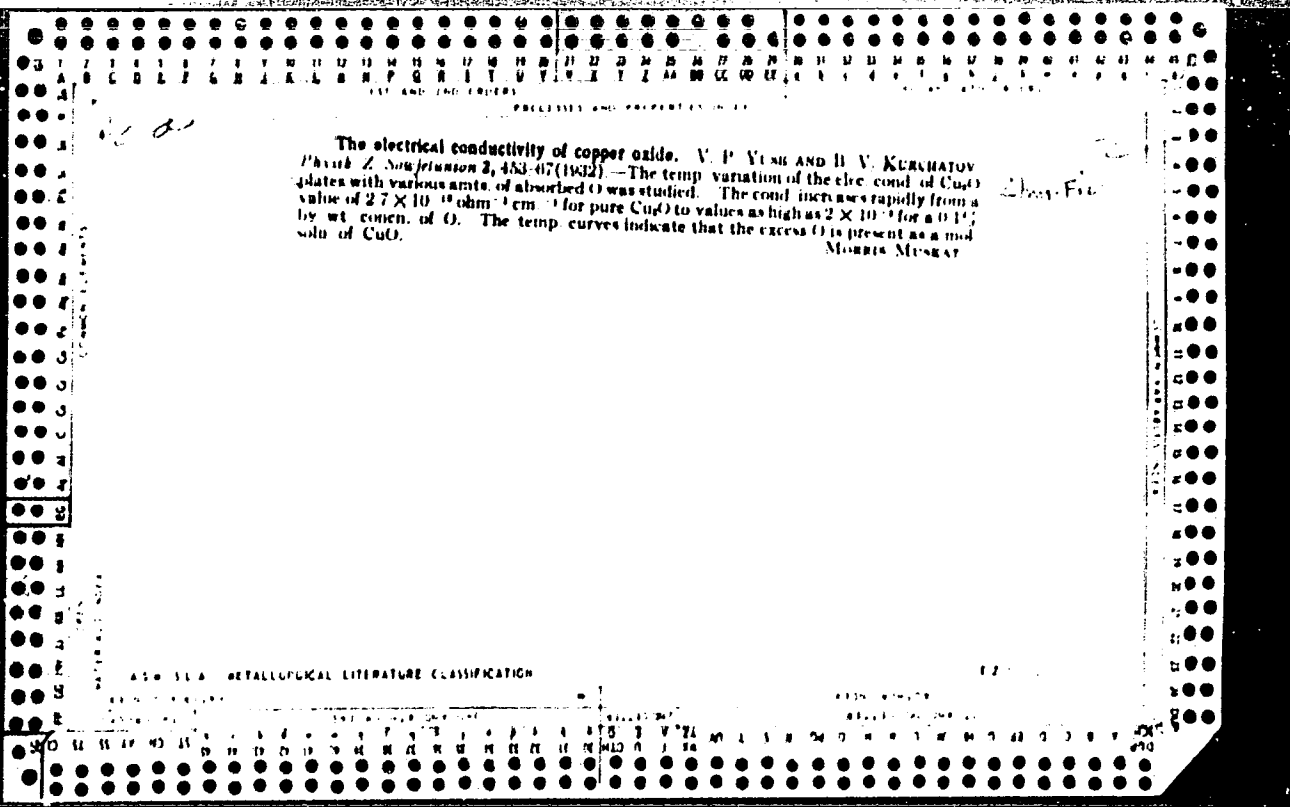
KURCHATOV, B.

The dielectric properties of sodium-potassium tartrate mixed crystals. B. KURCHATOV.

107 AND M. RUKHBYA. *Physik Z. Sowjetunion* 1, 110-54(1952). The dielec. char-  
acteristics of Na K and K NH<sub>4</sub> tartrates were detd. Over the temp interval -107°  
to -190° high anomalous values of the dielec. const. were found. The results obtained  
relative to the hysteresis loops and the temp dependence of the max. induction current  
confirm the point of view formerly expressed by Kurchatov and Kobeko (cf. C. A.  
24, 4075) concerning the presence of an inner orienting field in Rochelle salt and the far-  
reaching analogy with the phenomena of ferrimagnetism. P. H. RIMMERT

2

ATA SLA METALLURGICAL LITERATURE CLASSIFICATION



KURCHATOV, B.

2

The electric conductivity of cuprous oxide. V. ZHURB AND B. KURCHATOV. *J. Exptl. Theoret. Phys. (U. S. S. R.)* 2, No. 5-6, 300-18(1932).—The elec. cond. of  $Cu_2O$  increases with the O content. A special method of direct analysis of  $Cu_2O$  for the detn. of excess O was developed. The elec. cond. of pure  $Cu_2O$  at  $12^\circ$  is  $2.7 \times 10$  mho/cm, that of  $Cu_2O$  with an admist. of 0.1% (by wt.) of O at  $20^\circ$  is  $2 \times 10$  mho/cm. The work of dissocn. of the electron computed on the basis of the dependence of elec. cond. on temp. is 0.72 v. The work of dissocn. in well-conducting samples is 0.134-0.129 v. and corresponds to the work of dissocn. in the powder of clean  $Cu_2O$ . The value of Sachs for this is 0.138 v. It is assumed that the excess O exists as a mol. soln. of Cu in the  $Cu_2O$ . The dependence of the log of elec. cond. upon the content of excess O is represented by a curve having the character of the satn. curve. MARIE GOYER

ASS. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION



KURCHATOV, B.  
OK

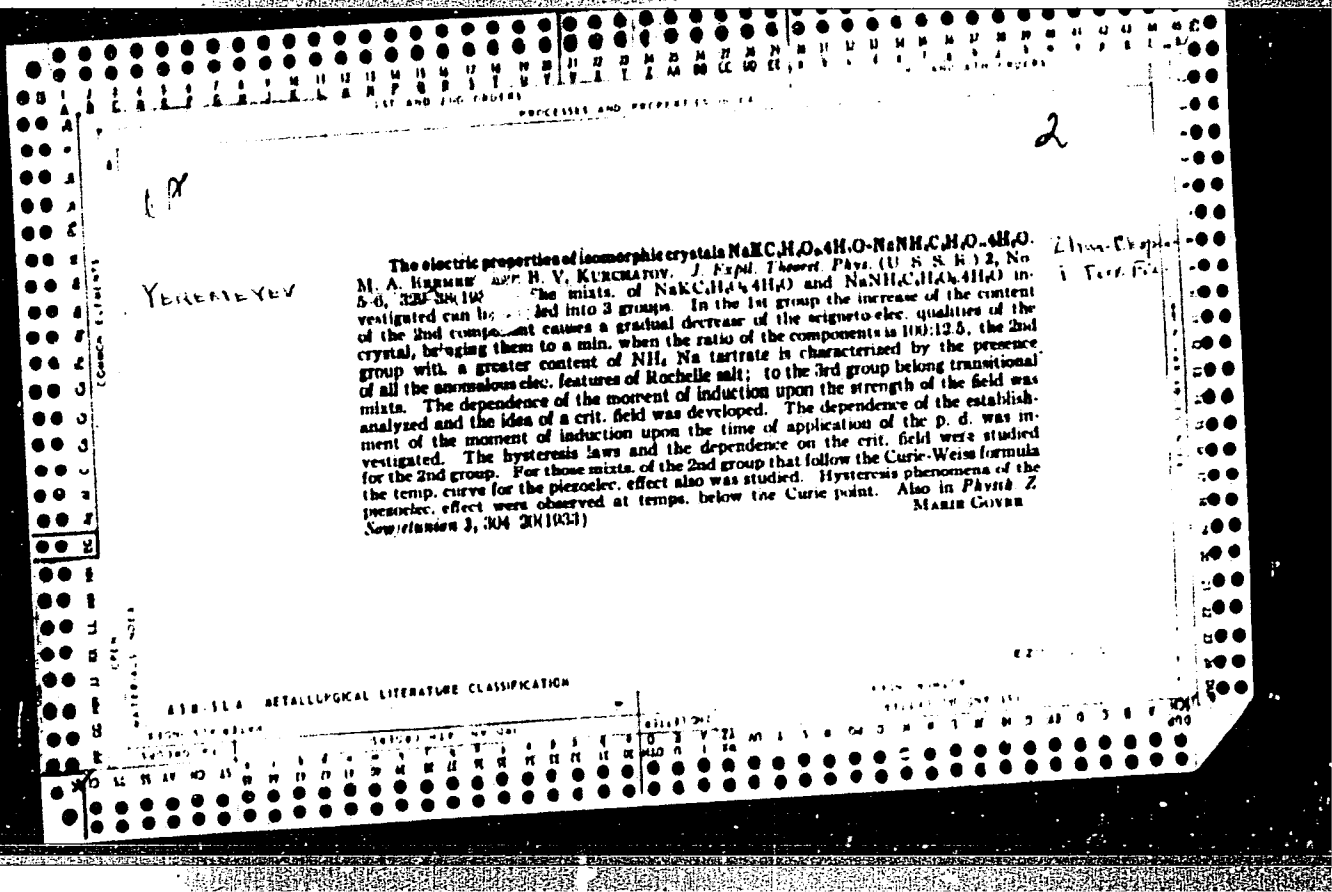
2

**The lower Curie point in ferro-electrics.** B. KURCHATOV AND I. KURCHATOV  
*J. Exptl. Theoret Physics (U. S. S. R.)* 3, No. 5-6, 310-29 (1933).—Tables are given for the temp. dependence of the dielec. const. of Rochelle salt and crystals of  $\text{NaKC}_2\text{H}_3\text{O}_4 \cdot 4\text{H}_2\text{O}$  and  $\text{NaNH}_2\text{C}_2\text{H}_3\text{O}_4 \cdot 4\text{H}_2\text{O}$  of various compns. in small fields for  $d$  and  $a$  of 50 cycles per sec. It is assumed that the high values of the dielec. const. obtained are due to the destruction of spontaneous orientation. At high temp. this is caused by the thermal movement of the dipoles and at lower temp. by the interaction of the dipoles with the body of the lattice. The conception of the lower Curie point is introduced. The regularities of the temp. dependence of polarization as well as the dependence of polarization on the chem. compn. of the isomorphous crystals  $\text{NaKC}_2\text{H}_3\text{O}_4 \cdot 4\text{H}_2\text{O}$  and  $\text{NaNH}_2\text{C}_2\text{H}_3\text{O}_4 \cdot 4\text{H}_2\text{O}$  are interpreted in terms of the ideas developed in the present paper. Also in *Physik. Z. Sowjetunion* 3, 321-34 (1933).

MARIE GUYER

A.S.M.-S.L.A. METALLOGICAL LITERATURE CLASSIFICATION

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



2

The electrical conductivity of semiconductors. A. N. Arsenova and H. V. Kurchatov. *J. Exptl. Theoret. Phys.* (U. S. S. R. J., 149-52(1933). The elec. cond. ( $\sigma$ ) of pure  $MoS_2$  was found to be  $0.1 \times 10^{14}$  cm<sup>-1</sup> at room temp. The effect of adm. of various amts. of  $Mo_2O_3$  on the elec. cond. was investigated. The elec. cond. increases rapidly with increase of concn. of  $Mo_2O_3$ . There is a linear relation between  $\log \sigma$  and  $\log 1/l$ , the slopes of the lines decreasing as the specimens become good conductors. These exptl. facts are not in agreement with the theory of Wilson (C. A. 26, 1854) and Bronstein (C. A. 27, 224), according to which the cond. is proportional only to the square root of the concn. of foreign material. The theory of Farkas (C. A. 27, 12) gives a more rapid increase of the elec. cond. with concn. and is true to a first approximation for Na and NH<sub>4</sub>OH. However, for a satisfactory explanation of the dependence, more accurate and detailed knowledge of the dependence of the elec. cond. on the concn. is needed. M. G.

ASH S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

111 AND 112 CODES: P. X. CODES AND PROPERTIES INDEX

CA

2

Electrical conductivity of semiconductors. II. The electrical and optical properties of  $V_2O_5$  crystals. A. N. Arsenova and B. V. Kurchatov. *J. Exptl. Theoret. Phys.* (U. S. R. S. J. 4, 570 (1934), et. C. A. 28, 3065). - Monocrystals of  $V_2O_5$  were obtained by slow cooling of the melt, and in 2 hrs. had a surface area of 0 sq. cm., thickness 0.5 cm. They are rhombic,  $a, b, c = 0.3932:1.0:0.60$ . Elec. cond. is due to lower valence, the no. of active centers about  $10^{17}$  per cc. for various samples corresponding to 1/10 the O deficiency (0.10 at. %), 0.15 at. %), and 0.20 at. %). The sp. elec. cond. is a discontinuous function of temp. at 20° and at 140° and has the values  $2 \times 10^{-4}$ ,  $1 \times 10^{-4}$  and  $2.1 \times 10^{-4}$  mhos/cm. for the  $a, b$  and  $c$  axes, resp., at 20° and rises from  $5.0 \times 10^{-4}$  at 180° K. to  $1.8 \times 10^{-3}$  at 713° K. for a sample contg. 15% O deficiency and  $1.9 \times 10^{-3}$  at 163° to  $9.0 \times 10^{-3}$  at 701° K. for a sample with 0.10% O deficiency. P. H. R.

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

1334 63479

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