

KOLOTUKHINA, S.Ye.

Stratigraphy, facies, and tectonics of Devonian and lower Carboniferous deposits in the Sary-Su-Mointy interfluvial region of central Kazakhstan. Trudy Inst.geol.nauk no.101:1-68 '48.

(MLRA 9:12)

(Sary-Su-Valley--Geology, Stratigraphic)
(Mointy Valley--Geology, Stratigraphic)

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SHTREYS, N.A.; KOLOTVKHINA, S. Ye.

Geological structure of the Ortau and Kos-Murun Hills in the
Zhana-Arka District of Karaganda Province. Trudy Inst. geol. nauk
no. 101:69-124 '48. (MLR9:12)
(Zhana-Arka District—Geology, Structural)

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26982. KOLOTUKHINA, S. E. Geologiya zony razvitiya nizhnokamenno-ugol'nykh otlozheniy, Na. severo-vostochnom sklone khrebta chingiz (vostocniyy kazakhstan). Byulleten' mosk. O-va ispytate-ley prirody, otd. geol., 1949, vyp. 4, s. 77-85.-Bibliogr: 7 Nazv.

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Carbonate rocks of the Kokchuginsk formations of the Kuznetsk Basin. S. E. Kolotubkina. *Izvest. Akad. Nauk S.S.S.R., Ser. Geol.* 1969, No. 4, 97-110; cf. *C.A.* 41, 2008c. — A description of different types of carbonate rock that play a large part in the Kokchuginsk formations of the Kuznetsk Basin. Such a study of the carbonates, based on a large no. of chem. analyses, was valuable for explaining the conditions both of formation of carbonates and as continuously combined with clastic rock in the carboniferous beds. Four large tables of chem. analyses are included. Gladys S. Macy

KOLOTUKHINA, S. YE.

USSR/Geophysics - Alluvial Genesis of Jan/Feb 52
Sandstones

"Alluvial Genesis of Thick Sandstones of the Middle Carboniferous in the North Outskirts of the Donbass," S. Ye Kolotukhina

"Iz Ak Nauk SSSR, Ser Geol" No 1, pp 75-88

Describes lithologically the sandstones of the coal-bearing layers of the Donbass' Middle Carboniferous. Makes a comparison with contemporary sediments and gives the basic genetic indications on the basis of which the author concludes the alluvial genesis of these formations.

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"Facies of the Lower-Carboniferous System in the Karatau"

report delivered in the Geologic Section, 1 March-4 June 1957.

Chronicle of the Activity of the Geologic Section, Byulleten' Moskovskogo
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Facies of the lower Carboniferous in the Kara-Tau. Izv.vys.
ucheb.zav.; geol.1 razv. 1 no.9:19-30 S '58. (MIRA 12:9)

1. Moskovskiy geologorazvedochnyy institut, Kafedra paleontologii.
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Lithology of ore-bearing layers in the Mirgalimsay deposit. Izv. vys.
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1. Institut mineralogii i geokhimii redkikh elementov AN SSSR.
(Mirgalimsay Region--Petrology)

KOGAN, B.I. (Moskva); KOLOTUKHINA, S.Ye. (Moskva)

Rare elements in the sands of the Sahara. Priroda 51 no.4:70
Ap '62. (MIRA 15:4)

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Concentration of rare earths in granite gneisses of the
Archean basement in Africa. Trudy IMGRE no.17:109-117 '63.
(MIRA 16:11)

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ROZANETS, Anna Vsevolodovna; MURATOV, M.V., retsenzent;
KROPOTKIN, P.N., retsenzent; VLASOV, K.A., glav. red.;
LEONT'YEV, L.N., doktor geol.-miner. nauk, otv. red.

[Geology of rare element deposits in Africa and their
economic significance] Geologiya mestorozhdenii redkikh
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skva, Nauka, 1964. 303 p. (MIRA 17:8)

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Basic characteristics of the tectonic development of Africa
in the Pre-Cambrian. Izv. AN SSSR. Ser. geol. 29 no.4:
20-37 Ap'64. (MIRA 17:5)

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Biol. MOIP. Otd. geol. 39 no.2:24-51 Mr-Apr '64.

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SHALYA, V.V.; KOLOTUSHA, B.I.; MITROKHINA, V.A.; KULINICH, M.T.;
POLYAKOV, M.V.

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and silver catalysts. Ukr. khim. zhur. 29 no.9:904-908 '63.
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Melanoidinic preparations from malt shoots. Inv.vys.ucheb.zav.;
pishch.tekh. no.4:89-93 '62. (MIRA 15.11)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti,
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(Brewing) (Melanoids)

KOLOTUSHA, P.V.; MAL'TSEV, P.M.

Melanoidins concentrate from malt shoots. Izv. vys. ucheb.
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Experience in using curved lightened structures as frames for the KGF-2 potato harvester. Trakt. i sel'khoz mash. 32 no.7:20-21 JI '62.

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TKACHENKO, Sergey Dmitriyevich; KOLOTUSHKIN, Nikolay Mikhaylovich;
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Poluavtomaticheskii stanok dlia obrabotki tortsov gazo-
vykh trub. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo,
1961. 20 p. (MIRA 17:9)

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(Khabarovsk—Distributive education)
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PYTOV, I.Ye., kand.sel'skokhoz.nauk; BLYUMENBERG, V.V., kand.tekhn.
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KALABUKHOV, M.V., agronom-meliorator; KOLOFUSHKIN, V.I., inzh.; KORCHU-
NOV, S.S., kand.tekhn.nauk; KRYUKOV, M.N., dotsent; VAVULO, V.A., inzh.;
NAUMOV, D.K., kand.tekhn.nauk; OLENIN, A.S., inzh.; PROVORIN, A.S.,
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doktor biol.nauk, prof.; PATCHIKHINA, O.Ye., kand.sel'skokhoz.nauk;
TSVETKOV, B.I., inzh.; CHUBAROV, N.D., inzh.; MANDEL'BAUM, A.I., inzh.;

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[Electric spark welding of R-18 rails in great lengths for peat enterprises] Elektrokontaktnaya svarka rel'sov R-18 v dlinnye plet'i na torfopredpriyatiakh. Moskva, Gos.energ.isd-vo, 1957. 69 p. (MIRA 10:11)

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[Results and main trends of research on the cutting method of peat winning; materials of an industry-wide scientific and technical conference] Itogi i osnovnye napravleniya nauchno-issledovatel'skikh rabot po frezernomu sposobu dobychi torfa; materialy otraslevogo nauchno-tekhnicheskogo soveshchaniya. Pod obshchei red. N.D.Chubarova, S.S.Korchunova i I.D.Sokolova. Moskva, Gos.energ.izd-vo, 1959. 253 p. (MIRA 13:8)

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torfianogo topliva dlia energogazokhimicheskogo ispol'zovaniia.
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[Instructions for the operation of VMF-6 peat agitators] In-
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IVANOV, Yu.I., kand. tekhn. nauk; KOLOTUSHKIN, V.I., red.; BORUNOV,
N.I., tekhn. red.

[Temporary instructions for the operation of the KPSb-2 machine
for cleaning peat block drainage ditches] Vremennaiia instruk-
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winning of granulated peat] Novaya tekhnika i tekhnologiya bolotno-
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[Heat control and measurement instruments and automatic
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KOLOTUSHKIN, V.I., red.

[Methods of determining the level of mechanization of industrial processes in the peat industry] Metodika opredeleniia urovnia mekhanizatsii proizvodstvennykh protsessov v torfianoi promyshlennosti. Moskva, Nedra 1964. 114 p. (MIRA 18:5)

1. Moscow. Gosudarstvennyy proyektnyy institut "Giprotorf."

TKACHENKO, Sergey Dmitriyevich; KURCHATOV, Vladimir Ivanovich;
KOLOTUSHKIN, Nikolay Mikhaylovich; SVET, Ye.B., red.; KOLBICHEV,
V.I., tekhn. red.

[Automatic machine for drilling piston pins]Avtomat dlia sverle-
niia porshnevnykh pal'tsev. Cheliabinsk, Cheliabinskoe knizhnoe
izd-vo, 1961. 12 p. (MIRA 15:12)
(Drilling and boring machinery)

VASIL'YEV, V.G.; YEROFEYEV, N.S.; ANIKEYEVA, I.B.; YELIN, N.D.;
YELOVNIKOV, S.I.; KOLOTHUSKINA, E.; L'VOV, M.S.;
MATVIYEVSKAYA, N.D.; MIRONCHEV, Yu.P.; MODELEVSKIY, M.Sh.;
MURATOVA, A.T.; MUSTAFINOV, R.A.; ROZHKOV, E.L.; SNEGIREVA,
O.V.; STAROSEL'SKIY, V.I.; SYTNIK, N.A.; NEVEL'SHTEYN, V.I.,
ved. red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Prospecting for gas fields in the U.S.S.R. during four
years of the seven-year plant] Poiski i razvedka gazovykh
mestorozhdenii v SSSR za chetyre goda semiletki. Leningrad,
Gostoptekhzdat, 1963. 171 p. (MIRA 16:8)
(Gas, Natural—Geology)

GORYACHKIN, M.; ~~KOLOTUSHKIN~~

Seminar on technological and economic principles in designing
agricultural machinery. Sel'khoz mashina no.10:32-3 of cover 0 '56.
(Agricultural machinery) (MLRA 9:12)

KOLOTUSHKINA, A.P., kandidat ekonomicheskikh nauk.

Work of the All-Union Institute of Agricultural Machinery Research
in determining the effectiveness of new designs of machinery. Sel'-
khoz mashina no.7:22-25 JI 1957. (MLRA 10:8)
(Agricultural machinery--Testing)

KOLOPUSHKINA, A.P., kandidat ekonomicheskikh nauk.

The role of mechanization in agriculture. Sel'khozmeshina no.10:9-11
0 '57. (MLRA 10:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyayst-
vennogo mashinostroyeniya.
(Agricultural machinery)

Kolotushkina, A.P.

KOLOTUSHKINA, A.P.; ZHITNEV, N.F.

Conference on economics. Sel'khoz mashina no.10:3 of cover 0 '57.
(MLRA 10:9)

(Agricultural machinery)

VOLKOV, Yu.I., inzh.; GAFANOVICH, A.A., kand.tekhn.nauk; GLADKOV, N.G.,
kand.sel'skokhoz.nauk; GORKUSHA, A.Ye., agr.; ZHITNEV, N.F., inzh.;
ZANIN, A.V., kand.tekhn.nauk; ZAUSHITSYN, V.Ye., kand.tekhn.nauk;
ZVOLINSKIY, N.P.; ZEL'TSERMAN, I.M., kand.tekhn.nauk; KAIPOV, A.N.,
kand.tekhn.nauk; KASPAROVA, S.A., kand.sel'skokhoz.nauk; KOLOTUSHKINA,
A.P., kand.ekon.nauk; KRUGLYAKOV, A.M., inzh.; KURNIKOV, I.I., inzh.;
LAVRENT'YEV, L.N., inzh.; LEBEDEV, B.M., kand.tekhn.nauk; LEVITIN,
Yu.I., inzh.; MAKHLIN, Ye.A., inzh.; NIKOLAYEV, G.S., inzh.;
POLESHCHENKO, P.V., kand.tekhn.nauk; POLUNOCHEV, I.M., agr.; P'YANKOV,
I.P., kand.sel'skokhoz.nauk; RABINOVICH, I.P., kand.tekhn.nauk;
SOKOLOV, A.F., kand.sel'skokhoz.nauk; STISHKOVSKIY, A.A., inzh.;
TURBIN, B.G., kand.tekhn.nauk; CHABAN, I.V., inzh.; CHAPKEVICH, A.A.,
kand.tekhn.nauk; CHERNOV, G.G., kand.tekhn.nauk; SHMSLEV, B.M., kand.
tekhn.nauk; KRASNICHENKO, A.V., inzh., red.; KLETSKIN, M.I., inzh.,
red.; MOLYUKOV, G.A., inzh., red.; BLAGOSKLONOVA, N.Yu., inzh., red.;
UVAROVA, A.F., tekhn.red.

[Reference book for the designer of agricultural machinery in two
volumes] Spravochnik konstruktora sel'skokhoziaistvennykh mashin
v dvukh tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry. Vol.1. 1960. 655 p. (MIRA 13:11)
(Agricultural machinery--Design and construction)

ZHITNEV, N.F., inzh., red.; KOLOTUSHKINA, A.P., kand. ekonom. nauk, red.;
GORYACHKIN, M.I., kand. ekon. nauk, retsenzent; FAL'KO, O.S.,
inzh., red.; TIKHANOV, A.Ya., tekhn. red.

[Economic effectiveness of the agricultural machinery] Ekonomicheskaia effektivnost' novykh sel'skokhoziaistvennykh mashin; metodika i normativno-spravochnye materialy. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-r , 1961. 314 p. (MIRA 15:1)
(Agricultural machinery)

Ye. V. KoloTushKINA

11(4) **TABLE I BOOK REFERENCE** 809/8075

Академия наук СССР. Научный филиал, Уфа
 Билисьевская, И. П. (ed.). *Свойства и свойства органических соединений серы* (Properties of Organic Compounds Containing Sulfur and Petroleum Products) (Reports of the Third Scientific Session). Moscow, Izdat. Akad. Nauk SSSR, 1959. 376 p. 2,000 copies printed. Errata slip inserted.

Material Board: R.D. Chelintsev (Resp. Ed.) Doctor of Chemical Sciences; S.A. Gal'perin, Doctor of Chemical Sciences; Ya. B. Chertkov, Doctor of Technical Sciences; V.Y. Kozlov, Candidate of Technical Sciences; and V.P. Korodostevskiy, Candidate of Chemical Sciences; Ed. of Publishing House: I.I. Kravtsov; Tech. Ed.: T.P. Polonova.

REMARKS: This book is intended for chemists, chemical engineers, and technicians specializing in the chemistry of petroleum.
 COMMENTS: The book is a collection of papers presented at the Third Scientific Session on the Chemistry of Organic Sulfur- and Nitrogen Compounds. Contains sections on the Chemistry of Organic Sulfur- and Nitrogen Compounds Contained in Petroleum and Petroleum Products. The scientific sessions were held in Ufa, June 2-9, 1977. The book consists of six sections: 1) Synthesis, characterization, and analysis of organic sulfur compounds; 2) Separation and composition of organic sulfur compounds; 3) Transformation of organic sulfur compounds in petroleum and petroleum products; 4) Corrosive properties of organic sulfur compounds and hydrogen sulfide; 5) Uses of organic sulfur compounds and hydrogen sulfide; 6) Physicochemical properties of organic sulfur compounds. See personal file for additional information. There are 115 references, of which 179 are Soviet, 110 English, 5 French, 12 German, and 1 Czech.

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Chemistry of Sulfur Organic Compounds (Cont.) 809/8075

PART IV. CORROSIVE ACTIVITY AND THE FORMATION OF SULFUR-CONTAINING FILMS AND PETROLEUM PRODUCTS

Zakharovich, L.D., S.M. Vol'fson. Corrosive Properties of Sulfur-containing Petroleum 269

Dogalov, I.Ye., O.V. Platova, Ye.V. Dolomakina, G.P. Zalyvova, M.S. Balykova. Corrosive Effect of Films Derived from Sulfur-containing Petroleum 276

Chertkov, Ya.B., V.M. Zolotarev, V.M. Shchagin. Organic Sulfur Compounds as Poisons as Inhibitors in the Corrosion of Copper and Its Alloys 284

Pravdy, R.G., V.M. Goryshkin. Methods of Controlling the Year of Excesses Due to Corrosion Caused by the of Diesel Fuels with a High Sulfur Content 293

Card 8/10

6

NIKOLAYEVA, V.G.; DUKHNINA, A.Ya.; KOMAROV, B.I.; LEVINSON, G.I.; Prinsipali
uchastnye: KOLOTUSHKINA, Ye.V., inzh.; BORISKINA, N.A.

Investigation of the anticorrosive additives to residual fuels
containing vanadium and sulfur. Khim. i tekhn. topl. i masel.
6 no.10:17-22 O '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Fuel--Additives) (Corrosion and anticorrosives)

L 22481-66 ENT(m)/ENA(d)/T/ENP(t) IJP(c) JD/WB/WE
ACC NR: AP6007933 SOURCE CODE: UR/0065/66/000/003/0054/0057

AUTHOR: Nikolayeva, V. G.; Komarov, B. I.; Kolotushkina, Ye. V.; Medvedev, S. P.;
Ostroushchenko, M. S.

67
63
B

ORG: none

TITLE: High temperature corrosion of metals during combustion of distilled gas-turbine fuels

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 3, 1966, 54-57

TOPIC TAGS: corrosion, solid mechanical property, gas turbine fuel, turbine engine

ABSTRACT: The effect of sulfur content (0.3-2.4%) in vacuum distillation residue and diesel oil fuels on corrosion of gas-turbine metal blades was investigated in the 650-850°C range using a laboratory scale combustion unit. The test duration was 100 hrs. The corrosion of steel and alloy blades in a gas stream during combustion of the thermal catalytic cracking distillates is shown in figure 1. It was found in the cases of EI-598 nickel-based and EI-607 alloy steels and high-chromium EI-417 steel that the blade corrosion remains in 0.026-0.066 g/m²·hour limits for a wide range of sulfur content in vacuum residue fuels. For diesel oils the material loss remained within 0.038-0.073 g/m²·hour limits. For fuels containing 2.4% S and 0.007% ash, the in-

UDC: 665.521.3:620.193.5

Card 1/2

Card

KOLOTUSHKINA, A.P., kandidat ekonomicheskikh nauk.

Determining a standard cost for agricultural machinery during
the design stage. Sel'khoz mashina no.3:21-25 Mr '57. (MLRA 10 5)
(Agricultural machinery industry--Costs)

29042
S/081/61/000/018/022/027
B101/B147

11.0132
AUTHORS:

Bespolov, I. Ye., Pletneva, O. V., Kolotushkina, Ye. V.,
Belyayeva, G. P., Malysheva, M. S.

TITLE:

Corrosiveness of fuels produced from sulfurous petroleums

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 18, 1961, 439, abstract
18M187 (Sb. "Khimiya seraorgan. soyedineniy,
soderzhashchikhsya v neft'yakh i nefteproduktakh", M.,
AN SSSR, 1959, 276 - 283)

TEXT: The corrosiveness of the fuels TC-1 (TS-1) and T-2 (T-2) was examined. They contained 0.002 - 0.05% of mercaptan sulfur. It was found that the corrosion of copper and bronze BB-24 (VB-24) in fuels obtained from sulfurous petroleums is chiefly due to the presence of mercaptans. Fuels containing no mercaptans hardly corrode these metals. The presence of elementary sulfur of up to 0.002% in mercaptan-containing TS-1 fuel, while not increasing the corrosiveness of the latter toward VB-24 bronze, increases it markedly toward copper. T-2 fuel, which has a wide fractional composition, corrodes copper more strongly than does TS-1 fuel. ✓

Card 1/2

Corrosiveness of fuels...

²⁹⁰¹²
S/081/61/000/018/022/027
B101/B147

This is explained by the considerably higher corrosiveness of low-molecular mercaptans contained in the 60 - 130°C fraction of T-2 fuel. The principal cause of the formation of gelatinous deposits on cadmium-plated parts in the fuels concerned is the moistening of the latter in the presence of mercaptan sulfur. On an increase of the content of the latter to >0.01% in the fuel, the amount of deposits increases significantly. Chromate passivation of cadmium-plated parts raises their resistance to the corrosive action of mercaptans, and altogether prevents deposits from forming in TS-1 and T-2 fuels containing \leq 0.01% of mercaptan sulfur. As cadmium-plated parts of fuel pumps are most responsive to the action of mercaptans, the content of mercaptan sulfur in TS-1 and T-2 fuels should be \leq 0.01%. [Abstracter's note: Complete translation.]

LH

Card 2/2

BESPOLOV, I.Ye.; KOLOTUSHKINA, Ye.V.

Deposit formation on the cadmium-plated parts of fuel pumps under the action of mercaptans contained in jet fuels. *Khim.sera-i azotorg. soed.sod.v naft.i nefteprod.* . 3:475-481 '60. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nafti i gaza i polucheniyu iskusatvennogo zhidkogo topliva.
(Jet planes—Fuel) (Corrosion and anticorrosives) (Thiols)

KOLOTUSHKINOVA, A.

"Task of mechanization in socialist agriculture. Tr. from the Russian."
p. 9 (Zemelske Stroje, Vol. 3, no. 1, Jan. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

MROCHKOV, K.A., kand.tekhn.nauk; GUSEV, A.I., inzh.; KOLOFVIN, B.F., inzh.

Research on establishing optimum conditions for the processing of
whale blubber in the vacuum apparatus line of the "Slava" whaling base.
Trudy VNIRO 35:231-246 '58. (MIRA 11:11)
(Rendering apparatus) (Whale oil)

6(4)

PHASE I BOOK EXPLOITATION

SOV/3146

Kolotygin, Igor' Nikolayevich

Perenosnyy magnitofon (Portable Tape Recorder) Moscow, Gosenergoizdat,
1958. 23 p. (Series: Massovaya radiobiblioteka, vyp. 314)
50,000 copies printed.

Ed.: F. I. Tarasov; Tech. Ed.: G. Ye. Larionov; Editorial Commission:
A. I. Berg, F. I. Burdeynyy, V. A. Burlyand, V. I. Vansyev,
Ye. N. Genishta, I. S. Dzhigit, A. M. Kanayeva, E. T. Krenkel'.
A. A. Kulikovskiy, A. D. Smirnov, F. I. Tarasov, and V. I. Shamshur.

PURPOSE: The booklet is intended for radio amateurs interested in constructing
a tape recorder.

COVERAGE: The booklet describes a home-built portable tape recorder weighing
about 6 kilograms. The recorder is designed for double sound-track recording at a
speed of 9.6 per sec. No personalities are mentioned. There are no references.

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L 16793-63 EPR/EPE(c)/EWF(q)/EWF(m)/BDS AFFTC/ASD Ps-4/Er-4 JD/WB/K

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67

AUTHOR: Fateyeva, N. S.; Vereshchagin, L. F., Corresponding member,
AN SSSR; Kolotygin, V. S.

TITLE: Optical method of determining the melting point of graphite
as a function of pressure up to 3000 atm

SOURCE: AN SSSR. Doklady*, v. 152, no. 1, 1963, 88-91

TOPIC TAGS: graphite melting point, graphite melting pressure
dependence, graphite melting pressure, graphite

ABSTRACT: Pressure dependence of the melting point of graphite
was determined at pressures up to 3000 atm. The experiment was
carried out to obtain quantitative data by an exact method of
automatic photoelectric recording. A graphite specimen in the
form of a 10-mm rod, 1.5 mm in diameter, with a 0.8-mm neck in
the middle, was heated up to melting point by increasing electric
current to over 40 amp within a couple of seconds. The specimen
was fixed across the longitudinal axis of a cylindrical pressure

Card 1/3

L 16793-63

2

ACCESSION NR: AP3007234

chamber. One end of the chamber was arranged for visual observation; the other end contained an optical focussing system. After emerging from the focussing system of the chamber, the light beam from the heated specimen was made to pass alternately through two interference filters which separated bands of the order of 2 μ from the continuous emission spectrum to be projected upon the slit of the FEU-22 photomultiplier. Gray filters in the same path were required to compensate for increased luminosity of the specimen when heated at rising pressures. A 29-mm cylindrical quartz rod, 7 mm in diameter, was inserted between the specimen and the focussing lens to eliminate the effects of dispersion and the fluctuations due to convection flows. The distance between the specimen and the face of the quartz rod was 2 mm and the focal length of the lens was 33 mm. The image at the slit of the photomultiplier was enlarged 20 times. The output of the multiplier after amplification was recorded on a MPO-2 tape oscillograph. Measurements showed that the melting temperature of graphite increases slowly with increasing pressure from 4650K at atmospheric pressure to 4750K at 3000 atm. "The authors express their deep appreciation to Academician I. V. Obreimov and Professor D. Ya.

Card 2/3

L 16793-63

ACCESSION NR: AP3007234

Svet for their valuable assistance in the investigations. G. V. Shcheglov took part in the work." Orig. art. has: 3 figures.

ASSOCIATION: Institut fiziki vy*sokikh davleniy, Akademi nauk SSSR (Institute of Physics of High Pressures, Academy of Sciences SSSR); Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 09Apr63 DATE ACQ: 30Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 002

Card 3/3

FATEYEVA, N.S.; VERESHCHAGIN, L.F.; KOLOTYGIN, V.S.

Optical method for determining the melting point of graphite as dependent on pressure up to 40,000 atm. Dokl. AN SSSR 152 no.2:317-319 S '63. (MIRA 16:11)

1. Institut fiziki vysokikh davleniy AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. 2. Chlen-korrespondent AN SSSR (for Vereshchagin).

KOLOTYGIN, Ye.

YEGOROV, Ya., (Rostov-na-Donu); KOLOTYGIN, Ye., (Rostov-na-Donu).

Miniature tube low frequency amplifier. Radio no.10:46 '56.

(Amplifiers, Electron-tube)

KOLOTYGIN, Yevgeniy Sergeyevich, inzh.; MAMONTOV, Vyacheslav Ivanovich

Transistorized three-phase RC generator. Izv. vys. ucheb. zav.;
elektromekh. 6 no.9:1118-1122 '63. (MIRA 16:12)

1. Nachal'nik laboratorii Upravleniya promyshlennosti
priborostroyeniya (for Kolotygin). 2. Vedushchiy inzhener
Upravleniya promyshlennosti priborostroyeniya (for Mamontov).

KOROLEV, P.A.; KOLOTYGINA, A.P.

Clinical and epidemiological data on Q fever in Crimea. Zhur.mikro-
biol.epid. i immun. 27 no.7:10-15 Jy '56. (MLRA 9:9)

1. Iz kliniki infektsionnykh bolezney Krynskogo meditsinskogo
instituta imeni Stalina i Oblastnoy sanitarno-epidemiologicheskoy
stantsii.

(Q FEVER, epidemiol.
in Russia, Crimea)

KOLOTYGINA, A.P.

Serodiagnosis of typhus [with summary in English]. Vop. virus
(MIRA 11:5)
3 no.2:90-92 Mr-Ap '58

1. Virusno-rikketsiosnaya laboratoriya Krymskoy oblastnoy
sanitarno-epidemiologicheskoy stantsii, Simferopol'.
(TYPHUS, diagnosis
serodiag., technic & results (Rus))

KOLOTYRKIN, I.M.

Problems for the further improvement in utilizing Moscow's
gas industry. Gor. khoz. Mosk. 30 no.7:5-9 J1 '56. (MLRA 9:10)

1. Nachal'nik Upravleniya gazovogo khozyaystva Mosgorispolkoma.
(Moscow--Gas manufacture and works) (Moscow--Gas, Natural)

KOLOTYRKIN, I.M.

Gas services of Moscow. Gor.khoz,Mosk. 31 no.10:22-25 0 '57.
(MIRA 10:10)

1. Nachal'nik Upravleniya gazovogo khozyaystva Mosgorispolkoma.
(Moscow--Gas distribution)

KOLOTYRKIN, I.M.

On the road toward the complete gasification of the capital. Gor. khov.
Mosk. 32 no.10:5-6 0 '58. (MIRA 11:11)

1. Nachal'nik Toplivno-energeticheskogo upravleniya Mosgorispolkoma.
(Moscow--Gas distribution)

11(3) Kolotyркин, T.M. PHASE I BOOK EXPLOITATION SOV/2254

Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti Moskovskoye pravleniye

Ispol'zovaniye gaza v promyshlennykh pechakh i kotel'nykh ustanovkakh g. Moskvy i Moskovskoy oblasti; materialy Moskovskogo nauchno-tekhnicheskogo soveshchaniya (Utilization of Gas in Industrial Furnaces and Boiler Units in Moscow and Moscow Oblast'; Materials of the Moscow Scientific and Technical Conference) Moscow, Gostoptekhizdat, 1959. 227 p. Errata slip inserted. 5,000 copies printed.

Ed.: D. B. Ginzburg, Doctor of Technical Sciences; Exec. Ed.: N. I. Stepanchenko; Tech. Ed.: A. S. Polosina.

PURPOSE: This collection of articles is intended for specialists engaged in designing and operating gas units of industrial enterprises and electric power plants.

COVERAGE: The change-over in some industrial enterprises from solid and liquid fuel to natural gas is discussed and further possibilities existing along this line are examined. Advantages of using natural gas as a source of energy are outlined. Different gas burner systems, devices for automatic control of the combustion process, structural features of furnaces operating on natural gas.

Card 1A

Utilization of Gas in Industrial Furnaces (Cont.) SOV/2254

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930010-5"

gas, gas-supply systems and the introduction of safety measures in the construction and operation of gas units are described. The book contains many diagrams of gas-supply systems and equipment. No personalities are mentioned. One article is followed by references.

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Card 3/4	

KOLOTYRKHIN, V.M.; TIKHOMIROV, M.V.; TUNITSKIY, N.N.; SEMENOV, N.N., akademik.

Mass spectrum of methane at increased pressure. Dokl.AN SSSR 92 no.6:1193-1195 0 '53. (MLBA 6:10)

1. Akademiya nauk SSSR (for Semenov). 2. Fiziko-khimicheskiy institut im. L.Ya.Karpova (for Kolotyrrkin, Tikhomirov and Tunitskiy).
(Methane) (Spectrum analysis)

KOLOTYRIN, V. M.

"Dissociation of Hydrocarbon Ions in the Mass Spectrometer." Cand Chem Sci, No
inst given/ Moscow, 1954. (RZhKhim, No 8, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended
at USSR Higher Educational Institutions (16).

KOLDOV YRREN, V. M.

USSR

7529. ... spectrum ...
ures. V. M. K. ...
No. 6, 1973-1974

Presents the results of studies on the pressure dependence of the "fractional" peaks H₁ and H₂ occurring in CH₂ as a result of processes CH₂⁺ → C⁺ + H and CH₂⁺ → C⁺ + 2H. The dependence of the intensity (I) of the primary peaks on pressure (p) can be represented by the formula I = A p / (1 + B p) exp(-k p), where A is the probability of the primary peak being formed by a collision with an electron, Bp² is the term allowing for the possibility of a change in the number of resultant ions, due to collisions in the ionic source, and k is the coefficient of scattering. If the coefficients of scattering are equal for the primary and secondary ions, then the intensity of the secondary peak I' = B p / (1 + B p) and in its values of p, the I'/I ratio is (C + H) / (C + 2H). Experiments conducted with a 90° ion source show that ...
values, proportional to pressure. The cross-section of the reaction CH₂⁺ → C⁺ + H is of the order of 10⁻¹⁷ cm².

BB
CH

1
H
C
C

KOLOTYRKIN, V. M.

USSR/Physics - Physical chemistry

Card 1/2 Pub. 22 - 32/51

Authors : Tikhomirov, M. V.; Kolotyarkin, V. M.; and Tunitskiy, N. N.

Title : About the dissociation of primary ions in a mass-spectrometer

Periodical : Dok. AN SSSR 101/5, 903-905, Apr 11, 1955

Abstract : The relation between the intensity of "fractional" n-butane peaks and pressure was investigated to explain the mechanism of primary ion dissociation at greater pressures. It is pointed out that the dissociation at greater pressures. It is pointed out that the dissociation during collision, as in the case of spontaneous decomposition, may depend upon the ion excitation and that the excitation varies depending upon the energy of the ionizing electrons. It was found that the relative intensity of the "fractional" peaks increases with the electron

Institution : The A. A. Zhianov State University, Leningrad
Presented by: Academician A. N. Terenin, November 14, 1954

Card 2/2

Pub. 22 - 32/51

Periodical : Dok. AN SSSR 101/5, 903-905, Apr 11, 1955

Abstract : energy, this is due to the fact that the spontaneous decomposition of the ions and their decomposition during collisions depend in various degrees upon the electron energy. Eight references: 1 German, 2 USSR, 2 USA and 1 English (1939-1953). Graphs.

36775
S/089/62/012/005/006/014
B101/B108

21.4200

AUTHORS: Nikolayev, N. I., Kolotyркиn, V. M., Tunitskiy, N. N.

TITLE: Separation of lithium isotopes on cationites by means of sharp-edged moving bands

PERIODICAL: Atomnaya energiya, v. 12, no. 5, 1962, 404 - 407

TEXT: The application of the method of F. Spedding, I. Powel, H. Swec (J. Amer. Chem. Soc., 77, 6125 (1955)) to separating the lithium isotopes on a KU-2 (KU-2) cationite is described. Since neutralization of the H^+ form of the resin led to a temperature increase and to irreversible adsorption of lithium an NH_4^+ buffer band was used. First, 0.2 N NH_4OH was passed through a column with KU-2 in H^+ form. A 23-cm long NH_4^+ band was observed owing to the change in color of the resin. 0.2 N LiOH formed a 33-cm long visible Li^+ band. The bands were eluted by means of 0.25 N NaOH. The transition of the cationite from the Li^+ to the Na^+ form is not visible (no change in color). For calculating the separation factor α the authors

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42187

S/076/62/036/011/017/021
B101/B180

5.4110

AUTHORS: Kolotyrkin, V. M., and Nikolayev, N. I.

TITLE: Distribution of lithium isotopes in immiscible solvents

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 11, 1962, 2540-2541

TEXT: Lithium chloride was dissolved in mixtures of water and organic solvents. After demixing, the isotope composition was examined by mass spectrometry in both phases, and the α separation coefficient was determined. Results: (1) In acetone-water mixtures, $\alpha = 1.027 \pm 0.008$ was found for the water-saturated LiCl solution. In more dilute solutions (about 1 N LiCl in the aqueous phase), the isotope composition remained unchanged. (2) In the system water-isoamyl alcohol, α was 1.02 for saturated LiCl solution, and 1.032 for 2 N LiCl solution. Li^6 concentrated in the aqueous phase. (3) In mixtures of diethyl ether and LiNO_3 dissolved in concentrated nitric acid, and in mixtures of amyl acetate and LiCl dissolved in hydrochloric acid, there was no change in the isotope composition. (4) In a mixture of 30% aqueous solution of methyl amine and

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Distribution of lithium isotopes...

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isoamyl alcohol (ratio 1:1), Li^6 concentrated owing to complex formation with the methyl amine in the organic phase, and $\alpha - 1$ was 0.017 ± 0.007 . When saturated hydrocarbons (petroleum fraction, b.p. 60-90°C) were added to this mixture $\alpha - 1$ became -0.047 ± 0.07 , and Li^6 was mainly converted to the aqueous phase. There is 1 table. ✓

SUBMITTED: April 5, 1962

Card 2/2

TUNITSKIY, N.N.; TIKHOMIROV, M.V.; KUPRIYANOV, S.Ye.; KOLOTYRKIN, V.M.;
GUR'YEV, M.V.; POTAPOV, V.K.

Studies in the field of mass spectrometry. Probl.fiz.khim.
no.1:122-128 '58. (MIRA 15:11)

1. Laboratoriya adsorbtsionnykh protsessov Nauchno-
issledovatel'skogo fiziko-khimicheskogo instituta im.
Karpova.

(Mass spectrometry)

KOLOTYRKIN, V.M.; KUPRIYANOV, S.Ye.

Dissociation of CH^+ and CH_2^+ ions. Zhur. fiz. khim. 37
no.12:2769-2771 D '63. (MIRA 17:1)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

KOLOTYRKIN, V.M.; NIKOLAYEV, N.I.

Distribution of lithium isotopes in immiscible solvents.
Zhur. fiz. khim. 36 no.11:2540-2541 N°62. (MIRA 17:5)

L 8861-66 EWT(1)/EWT(m)/EPF(n)-2/ENP(j)/T/EWA(h)/ETC(m)/EWA(l) IJP(c) WJ/GO/RM

ACC NR: AP5025967

SOURCE CODE: UR/0190/65/007/010/1802/1806

AUTHOR: ^{44, 55} Tsapuk, A. K.; ^{44, 55} Kolotyркин, V. M.ORG: ^{44, 55} Physical Chemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut)TITLE: ^{7, 44, 55} Polymerization of ¹⁵ silicone oil on an electron ⁷ irradiated solid surface

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1802-1806

TOPIC TAGS: silicone, plastic coating, polymerization, polymerization kinetics, radiation polymerization, polymer structure, dielectric property, dielectric strength, dielectric permeability ^{21, 44, 55}ABSTRACT: The formation of polymeric films on electron irradiated stainless steel and sodium chloride surfaces in an atmosphere of silicone oil was investigated. The following kinetic relationships were determined in polymerizing films from VKZh-9hB⁷ silicone oil onto stainless steel: film deposition increased linearly at about 0.3 angstroms/sec with irradiation time; varying electron energies from 200-600 ev had no effect on film deposition; initial increase in vapor pressure

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UDC: 66.095.26+678.84
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ACC NR: AP5025967

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to about 7×10^{-5} mm increased amount of deposit but higher pressures had no effect. The differences in films formed on steel and on salt crystal substrates are discussed, especially in view of their IR spectra. The dielectric properties of the films--resistivity, dielectric strength, dielectric constant and dielectric loss tangent were evaluated. "The authors thank V. P. Bazov for obtaining IR spectra and assisting in their interpretation." In conclusion we thank N. N. Tunitsko for discussion of the work." Orig. Art. has: 4 figures.

^{49.55}
SUB CODE: OC, GC, MT/ SUBM DATE: 25Nov64/ ORIG REF: 002/ OTH
REF: 021

BVK
Card 2/2

MA

7

***Hydrogen Over-Voltage and Dissolution of Metals. I.—Dissolution of Lead**
in Aqueous. Y. Kolotirkin and A. Frankin (*Zhur. Fizich. Khimii (J. Phys. Chem.)*, 1941, 15, 346-350; *Brit. Chem. Abs.*, 1942, [A 1], 131).—[In Russian.]
The rate v of hydrogen evolution by spongy lead in 3*N*-HCl or 3*N*-H₂SO₄ is determined by the equilibrium potential of lead and the overvoltage η corresponding with this potential. If the spongy lead is made a cathode and the straight line $\log v-\eta$ is determined, it joins the point representing the v in the absence of external current. At small c.d. ($<3 \times 10^{-9}$ amp./cm.²), v is $<$ equivalent to the external current as the latter is used up for reduction of oxygen at the cathode. The equilibrium potential of lead in 3*N*-H₂SO₄ is that of the electrode Pb | PbSO₄ | 3*N*-H₂SO₄.

19413

117 AND 120 DUBLES
PROCESSES AND PROPERTIES INDEX
NO AND 618 CROSS

CA
KOLOTYRISIN, Ya. (M.)

The solution of Ni in acids. Ye. Kolotyrisin and A. V. Frankin. *Compt. rend. acad. sci. U. R. S. S. R.* 445-9 (1941); *A. C. A.* 37, 36729. — The rate of soln. of Ni in acids at different potentials was calcul. by use of the equation $i = F_2 - F_1$, where pos. values of i correspond to an anodic current, F_2 is the rate of discharge of H ions and F_1 is the rate of ionization of Ni ions. The exper. procedure consisted in obtaining an accurate H-overvoltage curve and in measuring simultaneously the vol. of H evolved during fixed time intervals, both in the presence and absence of an external polarization. The overvoltage curve obtained on starting from high c. ds. after a prolonged preliminary cathodic polarization of the electrode at high c. d. is situated higher and has a steeper slope than the same curve measured in the reverse direction, i. e., from low c. ds. to high ones. If after the latter treatment the electrode is not subjected again to a prolonged cathodic polarization, the last curve can be fairly well reproduced in both directions. The state of high overvoltage is unstable. H-overvoltage curves in a half-logarithmic scale obtained by measuring c.-d. and those obtained from the rate of H evolution in a NH_4SO_4 soln. are given. In contrast to the c.-d. curve, the curve obtained from H-overvoltage measurements strictly follows Tafel's equation down to the potential of spontaneous soln. The law of H evolution expressed by Tafel's equation is observed for Ni as well as for Pb in the case when there is no external polarization. The rate of H evolution was also measured at potentials more pos. than the stationary potential, under anodic polarization of the electrode, the c. d. corresponding to a given anodic polarization being measured along with the rate of H evolution. The curve obtained by plotting the rate of soln. of Ni in acids at different potentials in a half-logarithmic scale gives a nearly straight line. The decrease in the rate of metal soln. during cathodic polarization is a direct consequence of the cathodic shift of the metal potential. A. Sidorikov at Moscow State University has confirmed the values of the rate of soln. of Ni in acids by direct analytical measurements. R. S. Heike

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117 AND 120 DUBLES
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NO AND 618 CROSS

VORKIN V M

Decay of the holding current on a mercury electrode in sulfuric acid. *J. Electroanal. Chem.* 1972, 130, 239-242.

The holding current on a mercury electrode in sulfuric acid is shown to decay exponentially with time. The decay constant is independent of the holding current and is equal to the rate constant for the reduction of the electrode surface.

is, immediately after the discontinuation of the current, smaller than is produced by a longer current. Up to 2 V

the new steady state is reached. The polarization current i_p is $i_p = i_0 \exp(-\alpha n F v / RT)$ when i_1, i_2 is 100%. The polarizing current alters the state of the electrode surface. The surface polarizes to a state which is characterized by a lower σ than that produced by i_1 in the steady state. The adaptation of the surface to the new e.d. is slow compared with the primary electrochem. processes. In steady state $i_2 / i_1 = 0.015$ at $v = 0.1$ V below 1000 amp/cm².

curves. These curves agree with the theoretical curves.

KOLOTYRKIN, Ya. [M.]

PA 18T96

USSR/Chemistry - Electrochemistry
Chemistry - Electrodes

May 1947

"The Hydrogen Overvoltage on the Lead Electrode and the Stationary Solution Potential of Lead in Sulphuric Acid," Ya. Kolotyarkin, N. Bune, Physical-Chemical Institute, imeni L. Ya. Karpov, Moscow, 7 pp

"Zhur Fiz Khim" Vol XXI, No 5 - pp. 581-7

Discusses results and states as one of its conclusions the fact that over a long period of time two separate areas of polarization occur on the lead electrode, one of excess voltage and one of heavy current. Tabulated values for each. Published 23 May 1946.

18T96

KOLODYRIN, Ye. M.

PA 16/719

USSR/Chemistry - Solution of Metals Oct 51
Storage Batteries

"Stationary Potentials of Spontaneously Dissolving Metals in Acid Solutions," Ye. M. Kolodyrin

"Zhur Fiz Khim" Vol XIV, No 10, pp 1249-1257

Investigated dependence of values of stationary potentials of spontaneously dissolving metals Ni and Fe (strongly polarized, with low H overvoltage) and Pb and Zn (weakly polarized, with high H overvoltage) in acid solutions. Derived and verified by experiment dependence of stationary potentials for metals of type of Ni and Fe on constants of

194719

USSR/Chemistry - Solution of Metals Oct 51
(Contd)

overvoltage of processes of ionization of metal atoms and of discharge of H ions under constant and varied acid contents, for metals of type of Pb and Zn on conditions of agitation of solutions. Discusses case where stationary potentials of metals of type of Pb and Zn in acid solutions are established when acid anions and metal ions form difficultly soluble salt.

194719