

ZOLOTOVITSKIY, Ya.M.

Fifth Conference on the Electrochemistry of Organic Compounds.
Elektrokhimiya 1 no.7:882-883 J1 '65. (MIRA 18:10)

ZOLOTOVITSKIY, Ya.M.; TEDORADZE, G.A.; ERSHLER, A.B.

Effect of large surface coverages in the electrochemical reduction
of dipyridylethylene on mercury. *Elektrokhimiya* 1 no.7:828-832
Jl '65. (MIRA 18:10)

1. Institut elektrokhemii AN SSSR.

TEDORADZE, G.A.; ZOLOTOVITSKIY, Ya.M.; ERSHLER, A.B.

Absorption effects in the electrochemical reduction of
1,2-dipyridylethylene on mercury. Elektrokhiimiia 1 no.10:1280-
1287 0 '65.

(MIRA 18:10)

1. Institut elektrokhiimii AN SSSR.

ZOLOTOVITSKIY, Ya.M.; TEDORADZE, G.A.

Particular features of the adsorption of pyridine on a mercury
electrode. Elektrokhimiia 1 no.11:1339-1343 N '65.
(MIRA 18:11)

1. Institut elektrokhemii AN SSSR.

ANDRONOV, I.K., professor; BEREZANSKAYA, Ye.S.; GLAGOLEV, N.S.; DEPMAN, I.Ya., professor; ZOLOTOVITSKIY, Ye.N.; IL'IN, A.Ye., dotsent; LYAPIN, S.Ye., MULYARCHIK, M.Z., uchitel'; PETRAKOV, I.S.; CHICHIGIN, V.G.

Aleksandr Nikolaevich Barsukov. Mat. v shkole no.1:72-74 Ja-F '57.
(MIRA 10:2)

1. Moskovskiy oblastnoy pedagogicheskiy institut (for Andronov).
2. Zaveduyushchiy kafedroy metodiki matematiki Moskovskogo pedagogicheskogo instituta imeni V.I. Lenina (for Berezanskaya).
3. Metodist Shcherbakovskogo rayona goroda Moskvy (for Glagolev).
4. Leningradskiy pedagogicheskiy institut (for Depman).
5. Metodist Balashikhinskogo rayona Moskovskoy oblasti (for Zolotovitskiy).
6. Moskovskiy pedagogicheskiy institut imeni V.I. Lenina (for Il'in).
7. Zaveduyushchiy kafedroy metodiki matematiki leningradskogo pedagogicheskogo instituta imeni A.I. Gertsena (for Lyapin).
8. Shkola No.29 goroda Moskvy (for Mulyarchik).
9. Zaveduyushchiy kabinetom matematiki Moskovskogo oblastnogo instituta usovershenstvovaniya uchiteley (for Petrakov).
10. Zaveduyushchiy kafedroy metodiki matematiki Moskovskogo pedagogicheskogo instituta imeni V.P. Potenkina (for Chichigin).
(Barsukov, Aleksandr Nikolaevich, 1891.-)

ZOLOTOVITSKIY, Ya. N.
~~ZOLOTOVITSKIY, Ya. N.~~ PETRAKOV, I.S. (Reutovo, Moskovskoy oblasti).

In the Moscow Province Institute for Teacher Training. Mat. v shkole
no.2:93-95 Mr-Ap '58. (MIRA 11:2)
(Mathematics--Study and teaching)

ZOLOTOVITSKIY, Ye.N. (Routovo, Moskovskoy oblasti)

Evaluation of knowledge in schools for working youth. Mat.v
shkole no.1:54-55 Ja-F '60. (MIRA 13:4)
(Mathematics--Study and teaching)

PETRAKOV, I.S.; ZOLOTOVITSKIY, Ye. N. (Rautovo)

In the Moscow Province Institute for Improvement of the
Training of Teachers. Mat. v shkole no.2:84-87 My-Ap '59.
(MIRA 12:6)

(Mathematics--Study and teaching)

ZOLOTOVITSKIY, Ye.N. (Reutovo, Moskovskaya oblast')

Forms and methods of questioning students of the 5th and 6th grades
in arithmetic. Mat.v shkole no.6:57-59 N-D '57. (MIRA 10:11)
(Arithmetic--Study and teaching)

ZOLOTOVITSKIY, Ye.N.

Analysis of test work in arithmetic and algebra in grades six
and seven. Mat. v shkole no.2:29-34 Mr-Apr '56. (MKRA 9:6)
(Mathematics--Problems, exercises, etc.)

ZOLOTOVITSKIY, Ye.N. (g.Reutevo, Moskevskoy oblasti)

Sequence in the teaching of arithmetic in grades four and
five. Mat. v shkole no.1:62-67 Ja-P '56. (MLRA 9:4)
(Arithmetic--Study and teaching)

ZOLOTOVITSKIY, Ye.N. (g.Reutovo Moskovskoy oblasti).

Directing and controlling the teaching of arithmetic in the fifth and sixth classes. Mat. v shkole no.6:57-63 N-D '56. (MIRA 10:1)
(Teachers, Training of) (Arithmetic--Study and teaching)

ZOLOTOVITSKIY, Ye.N. (Reutovo Moskovskoy oblasti).

Methodological section of the periodical "Matematika v shkole" in
the last ten years. Mat.v shkole no.1:83-88 Ja-F '57. (MLRA 10:2)
(Bibliography--Mathematics)

ZOLOTOVITSKIY, Ye.H. (Reutovo Moskovskoy oblasti)

Investigating the quality of students' knowledge. Mat.v shkole
no.2:37-40 Mr-Apr '57. (MLRA 10:5)
(Mathematics--Study and teaching)

ZOLOTOVITSKIY, Ye.N. (Reutovo)

Raising the efficiency of the lesson. Mat. v shkole no.5:33-35
S-O '59. (MIRA 13:2)
(Mathematics--Study and teaching)

BEKAREVICH, A.N. (Gomel'); BEREZSLAVSKIY, M.D. (Uzhgorod); GROMOV, A.P. (Melekes);
DUBINCHUK, Ye.S.; TESLENKO, I.F. (Kiyev); ZOLOTYITSKIY, Ya.M. (Reutovo);
KAZHDAN, B.I. (Leningrad); KLIMENCHENKO, D.V. (Berdynsk); MEL'NIKOV,
K.S. (Sterlitamak); MIKHAYLOV, K.F. (Magnitogorsk); MASYROV, A.Z. (Sterl-
itamak); NEFEDOV, D.I. (Moskva); NOVOSELOV, S.I. (Moskva); PRAVILOV, B.R.
(s. Kanino Ryazanskoy obl.); PRINTSEV, N.A. (Kurak); SEMENOVICH, A.F.
(Sverdlovsk)

Discussion of the plans for the programs. Mat. v shkole no.6:5-28
N.D '59. (MIRA 13:3)
(Mathematics--Study and teaching)

ZOLOTOVITSKIY, Ye.N. (g. Pentovo Moskovskoy obl.)

School groups working on methods. Kat.v shkola no.3:39-41
My-Je '56. (MLRA 9:8)

(Mathematics--Study and teaching)

ZOLOTOVITSKIY, Ye.H. (Reutovo Moskovskoy oblasti); PETERAKOV, I.S. (Reutovo Moskovskoy oblasti).

Activity of the mathematics study section of the Moscow District
Institute for the Improvement of Teachers in the academic year
1955-56. Mat. v shkole no.5:82-85 8-0 '56. (MLRA 9:10)
(Moscow--Teachers, Training of)

ZOLOTOVITSKIY, Ye.N. (Reutovo Moskovskoy oblasti)

Some results of entrance examinations to the Moscow Technical
School of Soviet Commerce. Mat. v shkole no.2:51-56 Mr-Apr '55.
(MLRA 8:6)

(Moscow--Business education) (Mathematics--Problems, exer-
class, etc.)

ZOLOTOVSKIY, M.G.

Improved USL-260 automatic machine. Izg.prom.16 no.12:48-49 D '56.
(MLRA 10:2)

1. Nachal'nik tsekha rishskoy tekstil'no-galantereynoy fabriki
"Lenta."
(Riga--Textile machinery)

PROCESSES AND PROPERTIES DATA

Nonmetallic inclusions in sheet iron. S. I. Zharkovskii and P. A. Zolotarev, *Izvest. Akad. Nauk SSSR, No. 10-11, 50-53 (1959); Chem. Zvest., 1960, II, 1202.*—Nonmetallic inclusions may occur inside of the ingot as well as on the outside. The surface inclusions contain SiO₂ 31.4-50.4, Al₂O₃ 12.2-29.0, Fe₂O₃ 17.7-34.4, CaO 0.0-7.3, MnO 1-28.2, and MgO 1.2%. They make blotches 250-300 mm. long, 10-15 mm. wide, and 2 mm. thick. Their inside is gray-white, their outside is red-brown. In the rolling process they become contaminated by C and mill scale, whereupon their compn. changes to SiO₂ 39.1-41.2, Al₂O₃ 4.08-9.22, Fe₂O₃ 24-33.14, CaO 11.14-17.04, MnO 0.72, and MgO not more than 5.83%. The internal inclusions are white-red to white-brown and contain SiO₂ 30.04-37.8, Al₂O₃ 24.48-34.55, Fe₂O₃ 0.57-35.42, CaO not more than 2.68, MnO not more than 3.1% and traces of MgO. Red-brown Cr-contg. blotches were observed contg. SiO₂ 11.36, Al₂O₃ 13.54, Fe₂O₃ 33.42, MnO 29.74, CaO 14.14, Cr₂O₃ 18.94% and MgO traces. Ordinarily they are distributed on both sides of the sheet, forming thin layers of up to 90 sq. cm. area. These impurities are not due to contamination during the rolling process, but are caused by low-grade refractories in the smelting process, and in the case of a high MnO content to faulty melting conditions.

M. Haseh

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

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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

SHOKLENDER, R.B.; ZOLOTOVSEKAYA, V.A.

Arterial thrombosis and aneurysms of septic origin. Akush. gin. no.
1:62-66 Jan-Feb 1953. (CMLL 24:2)

1. Of the First Gynecological Hospital of the Clinical Base of the
Department of Obstetrics and Gynecology (Head -- Prof. I. F. Zhordanina)
of the Central Institute for the Advanced Training of Physicians and
of the Department of Forensic Medicine (Head -- Prof. A. V. Busakov)
of Moscow Medical Institute of the Ministry of Public Health RSFSR.

ZOLOTOVSKAYA, V. A.

"Dichlorethane Poisoning in Legal-Medical Practice." Sub 4 Jun 51,
First Moscow Order of Lenin Medical Inst.

Dissertations presented for science and engineering degrees in Moscow
during 1951.

SO: Sum. No. 480, 9 May 55.

SHOKLENDER, R. B.; ZOLOTOVSKAYA, V. A.

Aneurysms

Metastatic affections of arterial walls (arterial thrombosis and aneurysms) of septic origin. Akush. i gin. No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

SHOKLENDER, R. B.; ZOLOTOVSKAYA, V. A.

Abortion - Complications and Sequelae

Metastatic affections of arterial walls (arterial thrombosis and aneurysms) of septic origin, Akush. i gin. No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

SHOCKLENDER, R. E., ZOLOTOVSKAYA, V. A.

Thrombosis

Metastatic affections of arterial walls (arterial thrombosis and aneurysms) of septic origin. Akush. i gin. No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

ZOLOTOVSKAYA, V.A.

Diagnosis and treatment of poisoning by alcohol "surrogates"
(methyl alcohol and dichloroethane). Trudy Inst. in. N.V.
Sklif. 5 no.2:184-190 '62. (MIRA 18:6)

ZOLOTOVSKIY, Konstantin Dmitrievich.

Submarine masters. Izd. 2 Leningrad, Gos. izd-vo detskoj lit. - Len.
otd., 1934. 156 p. "Dlia srednego i starshago vozrasta." Verso of
t.-p.

ZOLOTOVSKIY, Konstantin Dmitrievich.

Submarine masters. Izd. 4. Moskva, Izd-vo, detskoi lit-ry, 1936.
157 p. (44-17378)

VM981.263 1936

ZOLOTOVSKIY, Konstantin Dmitrievich.

Submarine masters. Moskva, Gos. izd-vo detskoi lit-ry, 1950.
193 p. (52-47244)

VM98a.263 1950

ZOLOTTSEV, V.P.; AKOP'YANTS, S.S.

Peroral administration of sarcosine simultaneously with colchicine and colchamine alone in inoperable cancer of the stomach, the esophagus and the rectum. Vop. onk, 10 no.10:31-34 '64.

(MIRA 1863)

1. Iz otdeleniya khimioterapii (rav. V.P.Zolotteev) gorodskoy onkologicheskoy bol'nitsy Nr. 62 (glavnyy vrach V.D.Margolin). Nauchnyye rukovoditeli: chlen-korrespondent AMN SSSR prof. L.F. Iarionov i prof. I.M.Nisnevich, Moskva. Adres Zolottseva: Moskovskaya oblast', Krasnogorskiy rayon, P/O Stepanovskaya, gorodskaya bol'nitsa Nr. 62.

ZOLOTTSEV, S.V.

From practice in teaching students to prepare physico-geographical
descriptions. Geog. v shkole 24 no.3:58-61 Mye-fe '61.
(MIRA 14:5)

1. 1-ya shkola g. Kalacha.
(Physical geography--Study and teaching)

ZOLOTTSEV, V. P.

Compound treatment of neglected cancer of the mammary gland.
Vop. onk. 8 no.4:78-80 '62. (MIRA 15:4)

1. Iz gorodskoy onkologicheskoy bol'nitsy No. 62 (nauch. rukov. -
prof. L. M. Nisnevich, glav. vrach - V. D. Margolin) klinicheskoy
bazy Instituta eksperimental'noy i klinicheskoy onkologii AMN
SSSR (dir. - deystv. chl. AMN SSSR, prof. N. N. Blokhin). Adres
avtora: Moskovskaya obl., Krasnogorskiy r-n, p/o Stepanovskoye,
gorodskaya bol'nitsa No. 62.

(BREAST--CANCER)

YERUKHIMOV, L.S., kand.med.nauk; ZOLOTTSEV, Y.P.; KAGRAMANOV, S.V.,
kand.med.nauk

Drug therapy of cancer of the urinary bladder. Urologia no.3:
54-58 '62. (MIRA 15:5)

1. Iz 62-y Moskovskoy gorodskoy bol'nitsy (glavnyy vrach V.D.
Margolin, nauchnyye rukovoditeli prof. L.M. Misnevich i prof.
A.P. Frankin).

(BLADDER---CANCER) (CYTOTOXIC DRUGS)

SEVCENKO, V.B. [Shevchenko, V.B.]; ZOLOTUCHA, S.I. [Zolotukha, S.I.];
KASCEJEV, N.F. [Kashcheyev, N.F.]; CAREV, S.A. [TSarev, S.A.];
MICHAJLOV, A.A. [Mikhaylov, V.A.]; TOROPCENOVA, G.A.
[Toropchenova, G.A.]; MANCIK, M. [translator]

Complex utilization of uranium ores. Jaderna energie 4 no.11:
338-341 N '58.

ZOLOTUKHA, N.I.; KLIMOVITSKIY, I.I.; GAL'KO, G.M.

No more lagging in the "Lutugin" Mine. Ugol' Ukr. 6 no.1:7-9
Ja '62. (MIRA 15:2)

1. Nachal'nik shakhty im. Lutugina tresta Chistyakovantratsit
(for Zolotukha). 2. Glavnyy inzh. shakhty im. Lutugina tresta
Chistyakovantratsit (for Klimovitskiy). 3. Nachal'nik planovogo
otdela shakhty im. Lutugina tresta Chistyakovantratsit (for
Gal'ko).

(Donets Basin—Coal mines and mining—Labor productivity)

ZOLOTUKHA, N.I.; KOL'CHIK, A.A., brigadir kompleksnoy grigudy,
Geroy Sotsialisticheskogo Truda

Reached a monthly output of 25,411 tons of coal with the
KR-2 cutter loader. Ugol' 37 no.9:11-14 S '62. (MIRA 15:9)

1. Shakhta imeni Lutugina tresta Chistyakovanratsit
Donetskogo sovet narodnogo khozyaystva. 2. Nachal'nik
shakhty imeni Lutugina tresta Chistyakovanratsit
Donetskogo soveta narodnogo khozyaystva (for Zolotukha).
(Donets Basin--Coal mines and mining--Labor productivity)
(Coal mining machinery)

20 Lo Ty KHA, S.I.

21(4)
 International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958
 (Title page); A.A. Bockary, Academiya A.P. Vinogradov, Academician, V.A. Tsel'nyakov, Corresponding Member, Institute of Sciences, and A.P. Melikov, Director of Technical Sciences; Ed. (Title page); V.V. Pavlovskiy and G.M. Pchelintseva; Tech. Mt.: Ed. Maslov.

This volume is intended for scientists, engineers, physicists, and biologists working in the production and peaceful application of atomic energy; for professors and students of technical schools of atomic energy; and for those interested in the subject of atomic energy and technology.

This is the 3rd volume out of a series of reports on atomic energy, presented by Soviet and foreign scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 15, 1958. Volume 3 consists of two parts. The first part, edited by A.I. Zubov, is devoted to geology, prospecting, construction, and the processing of nuclear source material. The second part, edited by G.M. Pchelintseva, is devoted to metallurgy, metallurgy, processing technology of nuclear fuels, and reactor metals, and neutron irradiation effects on metals. The titles of the individual papers in most cases correspond word for word with those in the original English language edition in the Conference proceedings. See SEP/208 for the titles of the other volumes of the set.

Translated by J.A. Gribanov, K.I. Blinn, A.A. Gerasimov, and J.H. Lehrberg. Translation of Materials from Scientific Literature and News (Report No. 2065)

- 229 Dyakov, K.A., and I.S. Lerdzish. Fluorescence of Mercury (Report No. 2066)
- 230 Lebedev, P.F., S.M. Kostin, and A.I. Pavlovskiy. Extraction of Uranium from Natural Ueber (Report No. 2067)
- 231 Shcherbakov, V.P., S.I. Solov'ev, K.P. Kabanov, S.A. Zhurav, I.A. Zhurav, and S.A. Zhuravskiy. Complex Utilization of Uranium Ore (Report No. 2068)
- 232 Kaplan, G.N., and V.A. Dymovskiy. Investigations on Aluminas Methods For Monitoring and Stress Processing (Report No. 2069)

Card 3/11

ZOLOTUKHIN, A., gvardii mayor

We should lend our assistance to propagandists and guide their
work. Komm.Voeruzh.Sil 3 no.19:53-55 0 '62. (MIRA 15:9)
(Russia--Army--Political activity)

ZOLOTUKHIN, A. A.

"Improve in Every Way the Hydrometeorological and Agrometeorological Servicing of the Agricultural Economy," Meteorol. i gidrologiya, No 10, 1953, pp 3-8

The tasks of the Hydrometeorological Service in connection with the resolutions of the September Plenum of the Central Communist Party Congress. It is necessary to note and realize such measures as would satisfy the requirements for a steep rise of the agricultural economy on the high basis of agrotechnics and mechanization of the productive processes. The author points to the provisions made by the machine-tractor stations and by agronomists in the way of handbook material on the hydrometeorological regime and current information; the compilation and publication of agroclimatic handbooks; the organization of stations or posts in each machine-tractor station; the regular furnishing of weather forecasts of all kinds to the machine-tractor stations; the creation of agrometeorological laboratories with meteorological platforms and points in experimental fields; the amplification of scientific research works on agrometeorology; the additional production of meteorological instruments and the urgent creation of simplified and cheap designs for a number of instruments; provisions for the hydro-meteorological servicing of herds; and also a number of measures in hydrological servicing. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

BARDIN, I.P., akademik, glavnyy red.; KORT, V.G.; prof., ~~statvennyy~~ red. vypuska; AFANAS'YEV, A.A., red.; BAKAYEV, V.G., red.; BURKHANOV, V.F., red.; ZOLOTUKHIN, A.A., red.; SOMOV, M.M., red.; FROLOV, V.V., red.; SHCHERBAKOV, D.I., akademik, red.; MIROSHENKO, Z.I., red.; BRAYNINA, M.I., tekhn.red.

[Hydrological, hydrochemical, geological, and biological studies on the diesel-electric research ship "Ob", 1955-1956] Gidrologicheskie, gidrokhimicheskie, geologicheskie i biologicheskie issledovaniia; diesel'-elektrokhod "Ob", 1955-1956 gg. (MIRA 12:2)

1. Akademiya nauk SSSR. 2. Zamestitel' nachal'nika Kompleksnoy antarkticheskoy ekspeditsii Akademii nauk SSSR; nachal'nik 1-go reysa morskoy chasti kompleksnoy antarkticheskoy ekspeditsii Akademii nauk SSSR (for Kort). 3. Nachal'nik Gidrograficheskogo upravleniya Glavsevmorputi Ministerstva morskogo flota SSSR (for Afanas'yev). 4. Ministr Morskogo flota SSSR (for Bakayev). 5. Zamestitel' nachal'nika Gidrograficheskogo upravleniya Glavsevmorputi Ministerstva morskogo flota SSSR (for Burkhanov). 6. Nachal'nik Glavnogo upravleniya Gidrometeorologicheskoy sluzhby SSSR (for Zolotukhin). 7. Nachal'nik Kompleksnoy antarkticheskoy ekspeditsii Akademii nauk SSSR (for Somov). 8. Direktor Arkticheskogo nauchno-issledovatel'nogo instituta Gidrograficheskogo upravleniya Glavsevmorputi (for Frolov).

(Antarctic regions)

ZOLOTUKHIN, A.A.

Directives of the 20th Congress of the Communist Party of the Soviet Union on the sixth five-year plan and tasks of the hydrometeorological service. Meteor.i gidrol. no.9:3-11 S '56. (MLRA 9:11)

1. Nachal'nik Glavnogo upravleniya gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.
(Meteorology, Agricultural)
(Hydrology)

BARDIN, I.P., akademik, glavnyy red.; KORT, V.G., otv.red.vypuska;
AFANAS'YEV, A.A., red.; BAKAYEV, V.G., red.; BURKHANOV, V.F.,
red.; ZOLOTUKHIN, A.A., red.; SOMOV, M.M., red.; FROLOV, V.V.,
red.; SHEHERBAKOV, D.I., akademik, red.; MIRONENKO, Z.I.,
red.; BRAYNINA, M.I., tekhn.red.

[Aerological and meteorological studies of the diesel electric
ship "Ob", 1955-1956] Aerologicheskie i meteorologicheskie
issledovaniia; dizel'-elektrokhod "Ob", 1955-1956 gg. Lenin-
grad, Gidrometeorologicheskoe izd-vo, 1958. 216 p. (MIRA 12:6)

1. Morskaya antarkticheskaya ekspeditsiya na dizel'-elektrokhode
"Ob", 1955-1956. 2. Zamestitel' nachal'nika Kompleksnoy ant-
arkticheskoy ekspeditsii Akademii nauk SSSR (for Kort). 3. Na-
chal'nik Glavnogo upravleniya Severnogo Morskogo Puti Ministerstva
morskogo flota (for Afanas'yev). 4. Ministr Morskogo flota (for
Bakayev). 5. Zamestitel' nachal'nika Glavnogo upravleniya Severnogo
Morskogo Puti Ministerstva morskogo flota (for Burkhanov).
6. Nachal'nik Glavnogo upravleniya Gidrometeorologicheskoy sluzhby
SSSR (for Zolotukhin). 7. Nachal'nik Kompleksnoy antarkticheskoy
ekspeditsii Akademii nauk SSSR (for Somov). 8. Direktor Arkti-
cheskogo nauchno-issledovatel'skogo instituta Glavnogo upravleniya
Severnogo Morskogo Puti (for Frolov).

(Antarctic regions--Meteorology--Observations)

BARDIN, I.P., akademik, glavnyy red.; KORT, V.G., prof., otv. red.; AFANAS'YEV, A.A., red.; BAKAYEV, V.G., red.; BURKHANOV, V.F., red.; ZOLOTUKHIN, A.A., red.; SOMOV, M.M., red.; FROLOV, V.V., red.; SHCHERBAKOV, D.I., red.; SPRYGINA, L.I., red. izd-va; SHOXHET, B.S., red. izd-va; KASHINA, P.S., tekhn. red.

[Description of the expedition on board the diesel ship "Ob", 1955-1956] Opisanie ekspeditsii na dizel'-elektrokhode "Ob", 1955-1956 gg. Moskva, 1958. 237 p. (MIRA 12:1)

1. AN SSSR. 2. Nachal'nik I reysa morskoy antarkticheskoy ekspeditsii AN SSSR (for Kort). 3. Nachal'nik Glavsevmorputi Ministerstva morskogo flota SSSR (for Afanas'yev). 4. Ministr morskogo flota SSSR (for Bakayev). 5. Zamestitel' nachal'nika Glavsevmorputi (for Burkhanov) 6. Nachal'nik Glavnogo upravleniya Gidrometalushby (for Zolotukhin). 7. Nachal'nik Kompleksnoy antarkticheskoy ekspeditsii (for Somov). 8. Direktor Arkticheskogo n.-i. instituta Gidrograficheskogo upravleniya Glavsevmorputi (for Frolov). 9. Predsedatel' Soveta po antarkticheskim issledovaniyam AN SSSR (for Shcherbakov).
(Antarctic regions)

3 (7)

AUTHOR:

Zolotukhin, A. A., Chief of the Main Administration of the Hydrometeorological Service at the Council of Ministers of the USSR 317/50-59-4-1/18

TITLE:

Tasks of the Hydrometeorological Service on the Basis of the Resolutions of the 21st Party Congress of the Communist Party of the USSR (Vychodi zadachi gidrometeorologicheskoy sluzhby v svyazi s resheniy XXI s'ezda KP SSSR)

PERIODICAL:

Meteorologiya i gidrologiya, 1951, no 1, pp 3-15 (USSR)

ABSTRACT:

With reference to the resolutions of the 21st Party Congress of the Communist Party of the USSR, a survey on the tasks of the hydrometeorological service for the next 7 years is given here. The supply of the kolkhozes and sovkhoses, in the vicinity of which there is no hydrometeorological station, with weather forecasts, current information on the agrometeorological conditions, and with hydrometeorological data has to be extended. The technical equipment of the MFC (Air Weather Stations of Civil Aviation) must be improved and completed. The flying weather stations in Novosibirsk, Khabarovsk, Tashkent and Moscow will be extended. On the basis of the Tsentral'naya aviatsionnaya (Central Flying Weather

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Tasks of the Hydrometeorological Service on the Basis of the Resolutions of the 21st Party Congress of the Communist Party of the USSR

10Y/50-59-4-1/29

(Station) in Vnukovo, the Moskovskiy glavnyy aviameteorologicheskii tsentr (Moscow Main Flying Weather Center) will be established in Moscow. - The supply of the sea fleet, and of the offices responsible for its operation, particularly with long-termed and reliable forecasts on the ice formation in the oceans, as well as the supply of ships on the high seas with informations on the current and impending hydrometeorological conditions must be improved considerably. The supply of the river navigation must be improved. Forecasts for the water discharge from all large rivers, the energy of which is utilized, must be published regularly (quarterly, per season, per year). In the Asiatic part of the USSR, 200 new hydrometeorological stations and measuring centers will be built, i. e. 69 % of all stations anticipated in the Seven-year Plan. The hydrometeorological observatories and stations must be equipped with modern computers. For the recording of all data, a central office will be established: "Gosudarstvennyy fond meteorologicheskikh materialov i issledovaniy po gidrometeorologicheskoy razvira i klimatu

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Tasks of the Hydrometeorological Service on the NOV/50-59-1-1/21
Basis of the Resolutions of the 21st Party Congress of the Communist Party
of the USSR

territorii SSSR" (State Fund of Meteorological Data and Investigations of Hydrometeorological Conditions and the Climate in the Area of the USSR). The most important tasks in the equipment of stations with new devices are the following: Completion of the construction of a wind-testing apparatus - the "net anemorumbometer" (setevoy anemorumbometr) - the setting up of "anemorumbographs" on the climatic fixed-point network, the setting up of hygrometers with a receiver consisting of an organic diaphragm, as well as the introduction of automatic and telemeter apparatus. - New methods of observation will be introduced such as investigations of the atmosphere up to a height of 300 m with the use of television masts. Observation data of former years will be published. The edition of meteorological monthlies begun in 1958 will be extended. The number of stations for observations of the ground humidity will be increased by 900 and rise to a total of 2200. 2000 stations will observe the growth and state of grain fields. The existing 4000 agrometeorological stations in the kolkhozes and sovkhozes

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will be increased by another 6000. - The hydrological network in Kazakhstan, Siberia, Transbaikalia, and the (Soviet) Far East will be greatly extended. - Systematic observations of the processes in river beds will be first organized over great distances on the lower Volga and Kura. - A manual on the water reserves of the USSR will be published.

ASSOCIATION: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR (Main Administration of the Hydrometeorological Service at the Council of Ministers of the USSR)

Card 4/4

MINAKOV, N.A., kand. sel'skokhoz. nauk (Voronezh); ZOLOTUKHIN, A.A. (Voronezh)

Chemical weed control of potato fields. Zashch. rast. ot vrod. i
bol. 9 no.9:17-18 '64. (MIRA 17:11)

ZOLOTUKHIN, A.A.

Forty years of the Soviet Hydrometeorological Service. Meteor. i
gidrol. no.6:3-12 Je '61. (MIRA 14:5)

1. Nachal'nik Glavnogo upravleniya gidrometeorologicheskoy sluzhby
pri Sovete Ministrov SSSR.
(Meteorological research) (Hydrology--Research)

KOTELENETS, M.S.; ZOLOTUKHIN, A.I.

Improving the accuracy of a laboratory method of determining the yields of coking by-products. Koks i khim. no.4:41-44 '60. (MIRA 13:6)

1. Vsesoyuznyy uglekhimicheskiy institut.
(Coke industry--By-products)

ZOLOTUKHIN, A. I.

SHPPAR, A.M.; BUKHARETS, P.S.; ASHIKHMIN, F.V.; LIPKIN, D.S.; ZOLOTUKHIN, A.I.

Automatic regulation of temperature in coke ovens. Koks i khim. no. 1:
30-35 '58. (MIRA 11:2)

1. Magnitogorskiy metallurgicheskiy kombinat (for Ashikhmin). 2. Teplo-
plotekhshtantsiya (for Lipkin). 3. Vostochnyy uglekhnicheskiy in-
stitut (for Zolotukhin).

(Coke ovens) (Automatic control)

68-58-6-2/21

AUTHORS: Zolotukhin, A. I., Candidate of Technical Science,
Lazovskiy, I. M. and Filyashin, K. Ya.

TITLE: A Method of Automatic Determination and Control of the
Moisture Content of Coal Charge (Metod avtomaticheskogo
opredeleniya i regulirovaniya vlazhnosti ugol'noy shikhty)

PERIODICAL: Koks i Khimiya, 1958, Nr 6, pp 6-10 (USSR)

ABSTRACT: An instrument is described for continuous determination of moisture content in the coal blend based on a condenser pick-up, the capacity of which depends on the dielectric permeability of the blend, the latter depending mainly on the moisture content. The instrument, in conjunction with water sprays, the operation of which is related to the moisture meter, can be used for maintaining a constant moisture content of the blend. The meter was developed by VUKhIN and its operation was tested on the Magnitogorsk and N. Tagil' Metallurgical Combines with satisfactory results. It is pointed out that the size distribution of a coal blend and its moisture content are the main factors governing its bulk density. However, the influence of size distribution is comparatively small, so that by maintaining Card 1/2 the moisture content on a constant level, the bulk density

68-58-6-2/21

A Method of Automatic Determination and Control of the Moisture
Content of Coal Charge

of the blend will be nearly constant. The design of the moisture meter and its electrical scheme are shown in Figs. 1, 2 and 3 respectively. The general set-up of the automatic control of moisture - Fig. 5., and an example of the constancy of the moisture content - Fig. 6. There are 6 figures and 6 references, all of which are

ASSOCIATIONS: Magnitogorskiy metallurgicheskiy kombinat
(Magnitogorsk Metallurgical Combine) and
VUKhIN

1. Coal--Moisture content
2. Humidity--Determination
3. Humidity--Control systems

Card 2/2

ZOLOTUKHIN A.I.

68-1-8/22

AUTHORS: Seppar, A.M., Bukhanets, P.S., Ashikhmin, F.V., Lipkin, D.S.
and Zolotukhin, A.I.

TITLE: Automatic Control of Heating Conditions of Coke Ovens
(Avtomaticheskoye regulirovaniye teplovogo rezhima
koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, No.1, pp. 30 - 35 (USSR)

ABSTRACT: Basic theoretical calculations and results of the operation of the No.5 (automatically controlled) and No.6 (manually controlled) coke oven batteries on the Magnitogorsk Metallurgical Combine (Magnitogorskiy Metallurgicheskiy Kombinat) are described. The diagram of the automatic control used is given in Fig.1. The scheme was proposed by F.V. Ashikhmin, head of KIP and Automatics of the MMK. The control of heating conditions was based on the following principles:
1) the content of oxygen in the waste gas was kept constant by variations in the proportion of coke oven gas supplied to the mixture of coke oven - blast furnace gas. 2) The total volume of coke oven and blast furnace gases used for the heating of the battery was kept constant. 3) The calorific value and composition of coke oven gas were assumed as being constant.
Card1/2 The duration of the test period, April 1st to 15th, 1957. On

68-1-8/22

Automatic Control of Heating Conditions of Coke Ovens.

the basis of the results obtained (Tables 2, 3), the following conclusions were reached: 1) The stability of mean-shift temperatures in both batteries was the same. 2) With the automatic control, the necessity for manual corrections of the supply of heating gas was decreased. 3) The stability of the distribution of pressure in heating systems in both batteries was the same. 4) With the automatic control differences between maximum and minimum consumption of heat decrease. 5) On the battery operating with the automatic control variations in the coefficient of excess air between the individual shifts decrease. There are 3 tables and 2 figures.

ASSOCIATIONS: MMK, Teplotekhstantsiya and VUKhIN.

AVAILABLE: Library of Congress

Card 2/2

ZOLOTUKHIN, A.I., kand.tekhn.nauk; LAZOVSKIY, I.M.; FILYASHIN, K.Ya.

Automatic method for determining and controlling moisture content of coal charges. Koks i khim. no.6:6-10 '58. (MIRA 11:6)

- 1.Vostochnyy uglekhimicheskiy institut (for Lazovskiy).
- 2.Magnitogorskiy metallurgicheskiy kombinat (for Filyashin).
(Coke industry) (Automatic control)

USSR / Soil Science. Cultivation. Improvement. Erosion.

J-5

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77463

Author : ~~Zolotukhin, A. S.~~

Inst : Stavropol'sk Scientific-Research Institute of Agriculture

Title : Experiment on Highly-Productive Watering

Orig Pub : Biol. nauchno-tekhn. inform. Stavropol'sk. n.-i. in-ta
s. kh., 1957, No 3, 43-45

Abstract : No abstract given

Card 1/1

ZOLCTUKHIN, A. T.

29734

Agronomichyeskaya otsyenko raboty kompleksnykh agryegatov. Trudy Voronyezhsk. Soovyetii-ta, t. xi, 1948, S. 145-54 --Bibliogr: 18 Nazv.

So: Letopis' No. 40

ZOLOTOKHIN, A.T.

Elektrichestvo v sel'skom khoziaistve (Electricity in agriculture). Voronezh, Voronezhskoe izd-vo, 1954, 44 p.

SO: Monthly List of Russian Accessions, Vol 7, No. 8, Nov. 1954

ZOLOTKHIN, B. K.

22069 O reaktsiyakh soley olova s tartratami shchelochnykh metallov. Zhurnal
obshchey khimii, 1949, Vyp. 6, C. 983-90. Bibliogr: C. 990.

SO: LETOPIS' NO. 31, 1949

LAKTAYEVA, Aleksandra Mikhaylovna, starshaya ptichnitsa; ZOLAFUCHIN,
B.V., red.; TERTYSHNIK, G.A., red.; YASHEN'KINA, Ye.A., tekhn.red.

[For 170 eggs per layer] Za 170 inits ot neschki. Kuibyshev,
Kuibyshevskoe knizhnoe izd-vo, 1960. 20 p.

(MIRA 14:1)

1. Kolkhoz "Novoye Zavolzh'ye" Privolzhskogo rayona (for Laktayeva).
(Eggs--Production)

MENASHEVA, Nina Ivanovna, ptichnitsa. Prinsipal uchastitsya PUPKOV, A.Ya.,
sootekhnik. ZOLOTOUKHIN, B.Ya., red.; SEMENCHUK, S.I., red.;
YASHEN'KINA, Ye.A., tekhn.red.

[Producing 1,000,000 eggs per year] 1,000,000 iaits v god.
Kuibyshev, Kuibyshevskoe knizhnoe isd-vo, 1960. 14 p.
(MIRA 14:1)

1. Kuibyshevskaya ptitsefabrika (for Menasheva).
(Kuibyshev---Eggs---Production)

NENASHEVA, Nina Ivanovna, ptichnitsa; ZOLOTUKHIN, B.V., red.; SEMENCHUK,
S.I., red.; YASHEN'KINA, Ye.A., tekhn. red.

[Million eggs in a year] 1000 000 iaits v god. Kuibyshev, Kuiby-
shevskoe knizhnoe izd-vo, 1960. 14 p. (MIRA 14:9)

1. Kuybyshevskaya ptitsefabrika (for Nenasheva).
(Kuybyshev Province--Eggs--Production)

1116 206541

31

ca

Fuel briquets. D. F. Zolotukhin. Russ. 57,257, June 30, 1949. Wood waste obtained in the extrn. of resin by means of alkali is pressed to briquets without addn. of a binder.

COMMON ELEMENTS

WATERGALS MOLE

OPEN

ASB-SLA METALLURGICAL 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
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ANGELEYKO, V.I.; ZLOTUKHIN, G.I.; NEPOKUPNYY, I.M.; BASILOV, V.V.,
inzh., retsenzent; PROVODINA, M.N., inzh., red.; VOROB'YEVA,
L.V., tekhn. red.

[Collective of creative labor; experience of the railroad
workers of the Lozovaya Division of the Southern Railroad]
Kollektiv tvorcheskogo truda; opyt puteitsev Lozovskoi distan-
tsii Iuzhnoi dorogi. Moskva, Transzheldorizdat, 1963. 41 p.
(MIRA 16:12)

(Railroads--Maintenance and repair)

ZOLOTUKHIN, G.I., kand. tekhn. nauk, dotsent

Permissible traffic speed of trains taking the siding
of switches. Trudy KHIIT no.57:70-79 '62. (MIHA 16:11)

Zolotukhin, G. I., jt. au.

ZUSMANOVICH, IA. T.

General plans for industrial plants Moskva, Gos. izd-vo lit-ry po stroitel'stvu
i arkhitekture, 1953. 301 p. (54-32082)

TH4511.287

ZOLOTOVICHIN, G.I., Cand Tech Sci--(dies) "Certain problems of ~~the~~ ^{of} ~~classification~~ ^{classification} ~~improvement of the grading~~ ^{at} ~~stations.~~ ^{classification} ~~(Obraztsov)~~ ^{at all-class} ~~stations.~~ ^{classification}

~~improvement of the grading~~ ^{at} ~~stations.~~ ^{classification} ~~(Obraztsov)~~ ^{at all-class} ~~stations.~~ ^{classification}

Len, 1958. 18 pp with graphs (Min of Railways USSR. Len
 Order of Lenin Inst of Engineers of ~~the~~ Railroad Transport in Azer V.N.
 Obraztsov), 170 copies (EL, 44-58, 122)

ZUSMANOVICH, Ya.T., inzhener; ZOLOTUKHIN, G.I., dotsent; KELLINHER, A.N.,
inzhener, redaktor.

[General plans for industrial plants] General'nye plany promysh-
lennykh ploshchadok. Moskva, Gos. izd-vo lit-ry po stroitel'stvu
i arkhitekture, 1953. 301 p. (MIRA 7:7)
(Factories--Design and construction)

ZOLOFUKHIN, G. Ye.

Investigating the effect of chemical composition of electrodes
and the conditions of discharges on the relative rate of particle
evaporation. Izv. AN SSSR. Ser. fiz. 19 no.1:67-70 Ja-F '55.

(Spectrum analysis) (Spectrometer) (MLRA 8:9)

ZOLOTURKHIN, G. Ya.

Investigating heat conductivity of ordered alloys in conditions of
a stationary heat balance. Fiz.met.i metalloved. 4 no.2:352-359
'57. (NERA 10:8)

(Solutions, Solid) (Heat--Conduction)

Zolotukhin, G. Ye.

24(7) PAPER I BOOK EXPLORATION SOV/1700

L'Nov. Universitet

Materialy I Vsesoyuznogo soveshchaniya po spektroskopii, 1956. s. II: Atomnaya spektroskopiya (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol. 2: Atomic Spectroscopy) Zhvyi' Ltd-vo L'vovskogo univ., 1958. 568 p. (Series: Ita; Fizicheskii sbornik, v. 9(9)) 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Resp. Ed.); B.S. Repenst, Doctor of Physical and Mathematical Sciences; L.L. Fabelinskii, Doctor of Physical and Mathematical Sciences; V.A. Fabrikant, Doctor of Physical and Mathematical Sciences; V.G. Koritskiy, Candidate of Technical Sciences; S.M. Kayevskiy, Candidate of Physical and Technical Sciences; L.K. Klimovskiy, Candidate of Physical and Mathematical Sciences; V.S. Milyanchuk (Deceased), Doctor of Physical and Mathematical Sciences; G. M. Ginzburg, Doctor of Physical and Mathematical Sciences; M.I. S.K. Gasser, Tech. M.; T.V. Saranyuk.

FURFOLD: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

COVERAGE: This volume contains 17 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy, 1956. The studies were conducted by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharges, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables, and analysis of spectral lines, ~~atomic spectroscopy~~ ~~analysis~~ statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochemistry in metallurgy, and principles and practice of spectrochemical analysis.

Card 2/31

Materials of the 10th All-Union Conference (Cont.) SOV/1700

Barulov, S.A. Investigation of the Relation of the Composition of the Sample to the Emission Cloud Composition in Spectrum Analysis 276

Barabekov, Ya.D., V.S. Muravova, A.I. Chernomoz, and V.D. Malysh. Measuring the Vaporization Rate of Elements and Their Compounds in an Electric Arc 285

Zolotukhin, G. Ye. Investigation of the Effect of Electrode Cooling Conditions on Spectral Line Intensity 289

Radnavaik, S.K., and Ye.S. Obukhova. Special Characteristics of the Entry of Binary Alloys Into the Gas Cloud of an A-C Arc 292

Radnavaik, T.K., and A.I. Dryabklov. Special Characteristics of the Entry of a Copper-Zinc Alloy Into a Spark 296

Card 17/31

507/1959

Ural'skiye sovetobaniye po spektrom

Materiyaly 2 Ural'skogo simpoziuma po spektroskopii, Sverdlovsk, 1958 g.

(Materials of the Second Ural Conference on Spectroscopy, Ekib in Sverdlovsk, 1958) Sverdlovsk, Metallurgizdat, 1959. 206 p. Irizata eliy in-sarad. 1,000 copies printed.

Sponsoring Agency: Ural'skiy filial Akademi nauk SSSR. Komsizya po spektroskopii and Ural'skiy dom tekhniki VUZVO.

Eds.: A. G. Borisovich Zhayevich and G. I. Zhayevich. Sverdlovsk, Tech. Ed.: R. M. Matyuk.

PURPOSE: This collection of articles is intended for practical analysis laboratory workers at ferrous and nonferrous metallurgical plants, and for laboratory personnel in metal-working industry, geological and prospecting organizations, and similar scientific research laboratories.

NOTE: The collection contains seven papers at the Second Ural Conference on the spectroscopy of ferrous and nonferrous metals and alloys, and on the spectroscopy of refractories and other materials used in industry. The material of the conference includes articles on the analysis of steels (including the determination of gases), ferroalloys, nonferrous and light metals and alloys, pure noble metals, etc. The present volume is intended to disseminate the latest experience in working with spectral laboratories, and to report on the results of scientific research. The author thanks R. I. Ostina and N. M. Muraviev. Almost all of the articles are accompanied by references.

Zolomubhin, G. Ye. Investigation of the Interaction of the Components of an Alloy on the Degree of Ionization of Atoms 23

Aleshinskiy, Yu. M. Some Distribution Characteristics of Particles in an A-C Arc 29

Zolomubhin, G. Ye. Investigation of Preparation Kinetics of Oxidizing Metallic Electrodes of an Arc 36

Schubert, A. V., G. V. Kuznetsov, and V. P. Shirokopyanov. Double Refraction of Uniaxial Semiconducting Crystals 39

Muraviev, Yu. M. Problem of the Entry of the Probe Material Into the Ionizing Cloud During the Spectral Analysis of Steel 42

Maltsev, M. G., and K. I. Yakovlev. Application of Contact Electric Spark Transfer for Eliminating the Effect of Composition, Structure, and Mass of Samples During the Spectral Analysis of Carbon Alloy 50

Muraviev, Yu. M., G. P. Kuznetsov, and V. I. Ostina. Investigation of the Effect of Structure on the Spectral Analysis Results of Structural Steel 58

Muraviev, Yu. M., V. I. Ostina, and B. Ye. Shaykine. Effect of Temperature on the Results of the Spectral Analysis of VEG-Speed Cutting Steel 61

Muraviev, Yu. M., S. L. Zubovskiy, G. V. Kuznetsov, V. P. Kuznetsov, and V. M. Likhacheva. Spectral Analysis of Steel with a Moderated FEB-1 Instrument 69

Stremitskiy, E. S. Spectral Analysis of Casts Contained in Metals 70

Gerasimov, A. B. Spectral Analysis of Multicomponent Systems With a High and Varying Content of Components 79

Muraviev, Yu. M., A. P. Kuznetsov, and E. S. Stremitskiy. Spectral Analysis of High and Low Alloyed Steels 87

Kalinitskiy, Ye. M., A. B. Zhayevich, V. V. Zhayevich, V. I. Chibrikova, and M. A. Kuznetsov. Spectral Analysis of Ferronickel, Permalloy, and Titanium Concentrate 91

Kozlov, A. V. Role of Internal Standard in the Spectral Analysis of Various Ferroalloys 98

Zolomubhin, G. Ye., V. V. Zhayevich, and A. E. Zhayevich. Spectral Analysis of Casts 103

Lebedev, I. P. Spectral Methods of Analyzing Products of the Magnesium and Titanium Industry 110

Stremitskiy, E. S. Application of Spectral Analysis at the Severstal Metallurgical Plant 112

Zolomubhin, G. Ye., and E. O. Sosnovaya. Spectral Analysis at the "Yveloi'man" Plant 114

Zolomubhin, G. Ye.

33688

S/058/61/000/012/079/083
AQ58/A101

26.7310

AUTHORS: Yaroslavskaya, R. M., Zolotukhin, G. Ye.

TITLE: Effect of heat conductivity and electrode polarity on the distribution of particles in AC arcs

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1961, 413, abstract 12Zh90 ("Tr. Krasnoyarskogo s.-kh. in-ta", 1959, v. 3, no. 1, 322-329)

TEXT: There was investigated the effect of heat conduction and electrode polarity on the distribution of particles of different substances along the axis of an arc power supplied from a ГЭУ-1 (GEU-1) generator. The effective value of the current was 10 a. Flash duration was $(6 \pm 10) \cdot 10^{-5}$ sec. Gap width was 2.5 mm. One of the electrodes was made of Pd, the other either of 99.6% Cu or 89.6% Cu, 10% Pd and Fe, Sn and Mo admixtures. The temperature of each section of the arc was determined on the basis of the ratio of Fe II line intensities, and the degree of ionization (on the assumption of thermodynamic equilibrium) was found from the ratio of FeI and Fe II line intensities from the Sakh equations. Incident to simultaneous evaporation of Fe, Sn and Mo from one of the electrodes, there are observed different distributions of concentration along

X

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S/05B/61/000/012/079/083
A05B/A101

Effect of heat conductivity ...

the axis, which, moreover, depend on electrode polarity. The effect of heat conduction is felt only incident to evaporation from the anode.

D. Orlinksky

[Abstracter's note: Complete translation]

X

Card 2/2

24(3), 24(7)

SOV/48-23-9-9/57

AUTHORS: Zolotukhin, G. Ye., Zykova, N. M.

TITLE: The Influence of the Duration of the Discharge on the Evaporation Velocity of the Particles From the Surface of Metal Arc Electrodes

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1072-1074 (USSR)

ABSTRACT: The experiments described were carried out on bronze, brass, and copper in an alternating-current arc; the magnesium and iron-content was low. The duration and energy of the discharge was determined from oscillograms; heat quantity was measured as well. The cylindrical samples were ground and polished and had a diameter of 10 mm and a length of 18 mm. The experiments were carried out at an amperage of 6 a, and the entry velocity of the particles was determined from the decrease of the weight of the sample. A decrease of the duration of the discharge decreased the development of energy on the anode and cathode; less energy developed on the cathode than on the anode. The heat flow ratio on anode and cathode remains unchanged also in the case of a decrease of the duration of the discharge: 43:57. These results agree with those obtained

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SOV/48-23-9-9/57

The Influence of the Duration of the Discharge on the Evaporation Velocity of the Particles From the Surface of Metal Arc Electrodes

by Rieder and Germer; the latter carried out his experiments with direct current. It was found that with a decrease of the duration of the discharge also the discharge velocity is reduced, and that if the duration of the discharge remains unchanged, it is determined by thermal conductivity. Substances with a lower degree of thermal conductivity evaporate more quickly. The evaporation velocity on the cathode is 5 to 10 times greater than on the anode and depends weakly on the thermal conductivity of the electrode substance and the duration of the discharge. Table 5 shows the measuring results concerning the influence exercised by the duration of the discharge upon the line intensity of a magnesium line and upon the temperature of the gas cloud. Temperature was measured by means of two copper lines in the ISO-28 spectrograph. In these experiments the upper electrode was of copper and the lower one was made from an alloy, and it was found that with a variation of the duration of the discharge the intensity of the investigated magnesium lines increases more considerably in the case of evaporation on the cathode than in that

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SOV/48-23-9-9/57
The Influence of the Duration of the Discharge on the Evaporation Velocity
of the Particles From the Surface of Metal Arc Electrodes

of evaporation on the anode. The influence exercised by the duration of the discharge upon the copper lines was investigated by V. P. Borzov (Ref 1). On the basis of the results obtained, short direct current pulses and application of the substance to be investigated as a cathode is recommended for the analysis of copper alloys. There are 5 tables and 4 references, 2 of which are Soviet.

Card 3/3

TOKOVOY, Nikolay Akimovich, prof., doktor veter. nauk; ZOLOTUKHIN,
Georgiy Yereyevich, kand. fiz. nauk; LYZHIN, K. red.; GIL'-
DEBRANT, Ye., tekhn. red.

[Mineral composition of feeds and its effect on the development and
productivity of animals] Mineral'nyi sostav kormov i vliianie ego
na razvitie i produktivnost' zhivotnykh. Krasnoyarsk, Krasnoyarskoe
knizhnoe izd-vo, 1960. 72 p. (MIRA 14:9)
(Minerals in food); (Krasnoyarsk Territory--Forage plants)

S/194/62/000/005/124/157
D230/D308

AUTHORS: Zolotukhin, G.Ye., and Zykova, N.M.

TITLE: The influence of thermal conductivity of a substance and the energy of arc discharge on the variation of temperature field in the white spot-region

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, 56, abstract 5zh382 (Nekotorye vopr. emission. i molekulyarn. spektroskopii. Krasnoyarsk, 1960, 9 - 19)

TEXT: Temperature variations of the white spot on electrodes in the process of discharge were investigated using a thermocouple (nichrome-konstantan). Generator ГЭУ -1 (GEU-1) was used as a supply source for the discharge. Ag and Pd-Ag alloy having sharply different thermal conductivities, were used as electrode materials. Duration of discharge was 3.5 and 8 msec. It was established that the white spot temperature depends on the thermal conductivity of the material and the amount of heat on the surface of the electrode. [Abstractor's note: Complete translation].

Card 1/1

11210
S/194/62/000/007/119/160
D271/DJ08

AUTHORS: Zykova, N.M., and Zolotukhin, G.Ye.

TITLE: Investigation of the influence of polarity and material on the disintegrated mechanism of arc electrodes

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7zh378 (In collection: Nekotoryye vopr. emission. i molekulyarn. spektroskopii, Krasnoyarsk, 1960, 20 - 26)

TEXT: Surface disintegration of Cu, Fe and W electrodes of AC arcs was investigated. State of surface was checked after every discharge; the duration and energy of the discharges were determined by means of an oscillograph. Electrode shape and distance between electrodes were constant. Photographs of discharge traces on the anode have shown that the area of anode spots decreases as thermal conductance of electrode material increases. The size of cathode spots is greater than that of anode spots; their magnitude depends little on thermal conductance of material. When discharge energy is increased, the depth of the anode spot to some extent ex-
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Investigation of the influence ...

S/194/62/000/007/119/160
D271/D308

ceeds that of the cathode spot. As discharge duration is decreased, the size of cathode spots increases at a slower rate than the anode spots. Experimental results confirm the general opinion that melted anode material evaporates whereas melted cathode material can be directly ejected (because of localized heating). [Abstracter's note: Complete translation.]

Card 2/2

27750
S/058/61/000/007/041/086
A001/A101

26.2311

AUTHORS: Zolotukhin, G.Ye., Zykova, N.M., Kravchenko, G.A.

TITLE: Investigating the interconnection between the temperature of the white spot and plasma composition

PERIODICAL: Referativnyy zhurnal. Fizika, no. 7, 1961, 173, abstract 7G125 ("Dokl. Mezhvuz. nauchn. konferentsii po spektroskopii i spektr. analizu". Tomsk. Tomskiy un-t, 1960, 136 - 139)

TEXT: Starting from the concept of thermal nature of electrode material erosion in the zones of cathode and anode spots, the authors calculated the rate of evaporation of atoms of various elements from electrode surface as a function of temperature. They compared the calculated and observed relative concentrations of Sn, Fe and Cd-atoms in the arc plasma, considering concentration to be a linear function of evaporation rate. The results agree satisfactorily. Temperature in the zones of cathode and anode spots was determined from the continuous spectrum of thermal emission from the surface of the electrode.

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M. Britske

[Abstracter's note: Complete translation]

Card 1/1

Sherstkov, Yu. A.
Zolotukhin, G. Ye.

105

PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.
Materialy (Materials of the Third Ural Conference on Spectros-
copy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip
inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR.
Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skorniyakov, A. B. Shayevich, and S. G.
Bogomolov; Ed.: Gennadiy Pavlovich Skorniyakov; Ed. of Publish-
ing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff
members of spectral analysis laboratories in industry and scien-
tific research organizations, as well as for students of related
disciplines and for technologists utilizing analytical results.

COVERAGE: The collection presents theoretical and practical prob-
lems of the application of atomic and molecular spectral analy-
sis in controlling the chemical composition of various materials
in ferrous and nonferrous metallurgy, geology, chemical indus-
try, and medicine. The authors express their thanks to G. V.
Chentsova for help in preparing the materials for the press.
References follow the individual articles.

6

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Zolotukhin, G. Ya., N. M. Zykova, and T. A. Kravchenko. Temperature measurement in the "white spot" region of metallic electrodes in the current of an ac arc	23

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8

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Card 4/15

ZOLOTUKHIN, G.Ye.; YAROSLAVSKAYA, R.M.

Effect of the polarity and heat conductivity of an electrode
on the phase distribution of particles in an a-c arc. Izv. SO
AN SSSR no.2. Ser. tekhn. nauk no.1:127-130 '64.

(MIRA 17:8)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

ZOLOTUKHIN, G.Ye., otv. red.; PENKINA, N.V., red.

[Spectroscopy; methods and applications] Spektroskopija;
metody i primeneniye. Moskva, Izd-vo "Nauka," 1964. 213 p.
(MIRA 17:6)

1. Sibirskoye soveshchaniye po spektroskopii. 1st, Kemerovo,
1962.

ZOLOTUKHIN, I. M.

Traction calculations. Kharkiv, Derzh. naukovo-tekhnichne vyd-vo
Ukrainy, 1933. 141 p.

Cyr. 4. TJ63

1. Locomotives - Performance.

ZOLOTKIN, I M

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Mashciz, 1954.
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LISOVENKO, S.I.; KOLODUBIN, I.M.; KOSTYUK, A.P.; LISOVENKO, E.V.; FEL'D-
MAN, M.F.; KUZNETSOV, T.F.; PIVOVAROV, L.A., inzhener, retsenzent;
SHAROYKO, P.M., inzhener, retsenzent; TURIK, N.A., inzhener, retsenz-
sent; KIRILLOV, Yu.G., inzhener, retsenzent; SEVENOV, M.A., inzhener,
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[Locomotives] Parovozy. Pt. 2. [Theory, design, and calculations for
machinery, underframe, and auxiliary parts. Dynamics, traction calcu-
lations, and brief information on operation] Teoriia, konstruktsiia i
raschet mashiny, ekipazha i vspomogatel'nykh ustroist, dinamika, tiago-
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tekh. izd-vo mashinostroit. i sudostroit. lit-ry. 1954. 475 p.

[Microfilm]

(Locomotives)

(MLRA 7:11)

3/137/62/000/012/053/085
A006/A101

AUTHORS: Postnikov, V. S., Zolotukhin, I. V., Gorshkov, G. A.

TITLE: Investigating the mechanical and thermal metal fatigue by the internal friction method

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 103 - 104, abstract 12I637 (In collection: "Tsiklich. prochnost' metallov", Moscow, AN SSSR, 1962, 218 - 226)

TEXT: A description is given of using the internal friction method (low-frequency method of low-amplitude torsion oscillations) to study mechanical and thermal fatigue. The frequency of free oscillations of a 100-mm long specimen, of 0.7 - 1 mm section, was about 1 cps. The logarithmic decrement of damping divided by π , was considered as a measure of internal friction. To study mechanical fatigue, preliminary cyclic deformation of a specimen fixed in a relaxator, was produced with the use of a special device controlling the inertia band of the relaxator, which made it possible to twist the specimen through angles from 0° to 60°. (The angle of twist of the specimen during measurements

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Investigating the mechanical and...

S/137/62/000/012/053/085
A006/A101

of internal friction did not exceed 5'). The deformation frequency was 60 cycles/min. Thermal fatigue was measured with the use of an analogous torsion pendulum. Cyclic heat treatment was carried out by the automatic lifting and dropping of the relaxator furnace at a given speed. The heating time of the specimen was equal to the cooling time, and was 12 sec.; the total duration of the cycle was 32 sec. Results are presented from investigating the effect of periodic twisting of the specimen upon the nature of the temperature dependence of internal friction for Cd, Zn, Al and Au. The thermal fatigue and the effect of thermocyclic operation upon the internal friction level were also investigated. There are 11 references.

A. Nikonov

[Abstracter's note: Complete translation]

Card 2/2

ZOLOTKHIN, I.V.; POSTNIKOV, V.S.

Defects in single crystals of alumina obtained during cyclic
heat treatment. Fiz. mat. i metalloved. 18 no.6:933-935 D '64.
(MIRA 18:3)

1. Voronezhskiy politekhnicheskiy Institut.

ACCESSION NR: AP4009391

S/0126/63/016/0016/0937/0939

AUTHORS: Postnikov, V. S.; Zolotukhin, I. V.

TITLE: The effect of cyclic thermal treatment on the internal friction and relative elongation of Al-Zn alloys

SOURCE: Fizika metallov i metallovedeniye, v. 16, no. 6, 1963, 937-939

TOPIC TAGS: Zn-Al alloy, internal friction, cyclic thermal treatment, metal elongation, Zn-Al alloy elongation

ABSTRACT: The samples studied here consisted of Al with 10, 20, 30, 60, 80 and 98% (by weight) of Zn. The initial purity of Al and Zn was 99.99 and 99.97% respectively. The alloy ingots were 12 mm long and 6 mm in diameter. They were annealed in a special device designed for measuring the internal friction. Subsequently they were subjected to cyclic thermal treatment, after which the change in their length was determined with a MIR-12 microscope. The curves of the relation between internal friction and temperature showed a peak, increasing in length with the increase in Zn content from 32 to 98 wt%. Cyclic thermal treatment had almost no effect on the position of the peak in respect to the temperature axis, but it broadened the peak considerably and increased its height. With the increase in the number of thermal

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ACCESSION NR: AP4009391

cycles the internal friction decreased and reached its minimum at 570 cycles and then started increasing again. This was true for the samples with 10, 20, 30 and 40% of Zn. The variation in the internal friction with respect to the number of cycles was different in the samples with 60 and 80% of Zn. The curve of the 60% alloy had a maximum at about 600 thermocycles, while that of the 80% sample increased gradually. Orig. art. has: 2 figures.

ASSOCIATION: Voronezhskiy politekhnicheskiy institut (Voronezh Polytechnical Institute)

SUBMITTED: 12 May 63

DATE ACQ: 03 Feb 64

ENCL: 00

SUB CODE: ML

NO REF SOV: 009

OTHER: 000

Card 2/2

MAL'TSEVA, G.K.; ZOLOTUKHIN, I.V.; POSTNIKOV, V.S.

Effect of temperature on the internal friction of copper alloys.
Fiz. met. i metalloved. 16 no.5:754-759 N '63. (MIRA 17:2)

1. Kemerovskiy pedagogicheskiy institut, Voronezhskiy tekhnologicheskiy institut i Voronezhskiy politekhnicheskiy institut.

POSTNIKOV, V.S.; ZOLOTUKHIN, I.V.

Effect of cyclic heat treatment on the internal friction and relative elongation of aluminum-zinc alloys. Fiz. met. i metalloved, 16 no.6: 937-939 D '63. (MIRA 17:2)

1. Voronezhskiy politekhnicheskii institut.

ZOLOTUKHIN, I. V.

SOVETSKOYE VOENNOYE NAUCHNOYE OTCHESTVO
NOV/1983

Soveshchaniye po ustalosti metallov. Ser. 1, kn. 1, 1980.

Tsilicheskaya prelozheniya: Tsilicheskaya prelozheniya po ustalosti metallov. Ser. 1, kn. 1, 1980. (The Strength; Materials of Metals and Alloys on the Effect of Metals, held for at - 87, kn. 1, 1980, Moscow, 1980. 338 p. Reprint of the original publication.)

Resp. Ed.: I. A. Oiler, Chief of the Institute of Sciences of the USSR; Ed.: I. A. Oiler; Tech. Ed.: A. P. Gerasimov.

PURPOSE: This collection of articles is intended for scientific research workers and students.

COVERAGE: The collection contains papers presented and discussed at the second conference on fatigue of metals, which was held at the Institute of Metals and Alloys. The papers deal with the nature of fatigue of metals and alloys.

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