

SHUMEYKO, G.K., starshiy kapitan-nastavnik

Present-day trends in navigational safety devices. Rech.transp.
17 no.9:60-61 S '58. (MIRA 11:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i
ekspluatatsii vodnogo transporta.
(Aids to navigation)

ШУМЕЙКО Г.
SHUMEYKO, G.

New radar systems. Mor. flot 18 no.1:29 Ja '58.

(MIRA 11:1)

1. Starshiy kapitan-nastavnik Tsentral'nogo nauchno-issledovatel'skogo instituta ekonomiki i ekspluatatsii vodnogo transporta.
(Radar in navigation)

SHUMEYKO, G.

Improving navigational safety devices. Mor. flot 18 no.8:23-24
Ag '58. (MIRA 11:9)

1. Starshiy kapitan-nastavnik Tsentral'nogo nauchno-issledovatel'-
skogo instituta ekonomiki i ekspluatatsii vodnogo transporta.
(Buoys)

SHUMEYKO, Georgiy Konstantinovich; IVANOV, N.A., red.; LAVRENOVA,
N.B., tekhn.red.

[Compiling marine radar guides] Sostavlenie morskikh radio-
lokatsionnykh posobii. Moskva, Izd-vo "Morskoi transport."
1959. 40 p. (MIRA 12:8)
(Radar in navigation)

RUL'KOV, Dmitriy Ivanovich; SARATOV, Vladimir Fadeyevich; SHUMEYKO, G.K.,
retsenzent; KONSTANTINOV, V.P., retsenzent; KUSHCH, L.K., red.;
LOBANOV, Ye.M., red.izd-vs; BOBROVA, V.A., tekhn.red.

[Nautical equipment of ships for inland navigation] Navigatsionnoe
oborudovanie sudov vnutrennego plavanija. Moskva, Izd-vo "Rechnoi
transport," 1959. 127 p. (MIRA 13:1)
(Inland navigation) (Nautical instruments)

SHUMEYKO, G., starshiy kapitan-nastavnik

Aids to navigation wth the help of radar. Mor. flot 19 no.2:7-9
F '59. (MIRA 12:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i
ekspluatatsii vodnogo transporta.
(Aids to navigation) (Radar in navigation)

BUKHANOVSKIY, I., starshiy kapitan-nastavnik; SHUMEYKO, G., starshiy kapitan-nastavnik

Technical developments in the use of radar as a means of preventing collisions at sea. Mor.flot 19 no.8:8-9 Ag '59. (MIRA 12:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i ekspluatatsii vodnogo transporta. (Radar in navigation) (Collisions at sea--Prevention)

BUYANOV, Nikolay Fedorovich; SHUMEYKO, G.K., red.; PETIN, M.I., red. izd-va;
TIKHONOVA, Ye.A., tekhn. red.

[Bried radar description of a route from the Black Sea to the Far
East] Kratkoe radilokatsionnoe opisanie marshruta Chernoe more -
Dal'nii Vostok. Moskva, Izd-vo "Morskoi transport," 1960. 26 p.
(MIRA 13:5)

(Radar in navigation)

SHUMEYKO, G., starshiy kapitan-nastavnik

Efficient arrangement of navigating bridges and deck houses.
Rech. transp. 20 no.10:53-54 0 '61. (MIRA 14:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki
i ekspluatatsii vodnogo transporta.
(Ship handling)

SHUMEYKO, Georgiy Konstantinovich; FEDOROV, V.P., red.; LAVRENOVA,
N.B., tekhn. red.

[Navigation in the zone of tropical hurricanes] Plavanie v zone
tropicheskikh uraganov. Moskva, Izd-vo "Morskoi transport,"
1962. 199 p. (MIRA 15:6)
(Navigation) (Hurricanes)

SHUMEYKO, G.K.

Present-day demands made by navigators on meteorologists
and oceanographers. Vop. geog. no. 62:27-34 '63.
(MIRA 17:3)

ENHANCED SECURITY INFORMATION

...the results of navigating bridges and dehouses of
...in 1954 ...

(MIRA 18:8)

SHUMEYKO, G.

The strength of workers is in unity of action. Sov.profsoiuzy 3
no.4:74-80 Ap '55. (MLRA 8:5)
(Trade unions)

SHUMEYKO, Grigoriy Vasil'yevich

[The struggle for working class unity and trade unions] Bor'ba za
edinstvo rabocheho klassa i profsoiuznoe dvizhenie. Moskva, Izd-vo
"Znanie," 1956. 47 p. (MIRA 10:2)
(Trade unions) (World Federation of Trade Unions)

SHUMEYKO, G.

For unity in action of the working class. Sev.prefseluzny 4 no.3:
76-80 Mr '56. (Labor and laboring classes) (MIRA 9:7)

SHUMEYKO, G.

For international unity of workers. Sov. profsoiuzy 5.no.4:81-87
Ap '57. (MLRA 10:6)

(Labor and laboring classes)

SHUMEYKO, G.

Reformist illusions and capitalist reality. Vsem. prof. dvizh. no.3:
41-42 Mr '58. (MIRA 11:2)

(Capitalism)

SHUMEYKO, G.; PIMENOV, P.; ORFANITSKIY, V.; VLADYCHENKO, I.; RYABOV, N.;
YEGORICHEV, A.; TARNOPOL'SKIY, A.; GURVICH, A.; USHATIKOV, N.,
profsoyuznyy aktivist

Let's strengthen fraternal international connections. Sov.
profsoiuzy 16 no.16:49-54 Ag '60. (MIRA 13:8)

1. Nachal'nik Tsentral'nogo turistsko-ekskursionnogo upravleniya Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shumeyko).
2. Predsedatel' Tsentral'nogo komiteta profsoyuza rabochikh ugol'noy promyshlennosti (for Vladychenko).
3. Sekretar' Tsentral'nogo komiteta profsoyuza rabochikh elektrostantsiy i elektropromyshlennosti (for Ryabov).
4. Predsedatel' zavkoma Kuznetskogo metallurgicheskogo kombinata (for Yegorichev).
5. Predsedatel' pravleniya Doma kul'tury stroiteley "Oktyabr'" (for Tarnopol'skiy).
6. Predsedatel' komissii po zarubezhnym svyazyam zavodskogo komiteta stankostroitel'nogo zavoda imeni Sergo Ordzhonikidze (for Gurvich).
7. Avtomobil'nyy zavod imeni Likhacheva (for Ushatikov).
(Russia--Relations (General) with foreign countries)

SHUMYKO, I. P.

Sugar - Manufacture and Refining

Successes of the collective of the Veselyy Podol sugar factory. Sakh. prom. 26 No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

S/133/61/007/011/010/010
A054/A127

AUTHORS: Litvinov, A. A., Shumeyko, R. I., Engineers

TOPIC: Using high-strength cold-drawn wire without low-temperature annealing

PERIODICAL: Stal', no. 11, 1961, 1043 - 1044

TEXT: ГОСТ 8480-57 (GOST 8480-57) prescribes for high-strength, cold-drawn wires of the steel grades 70 and 90 used in prestressed, reinforced concrete structures a minimum strength of 150 kg/mm² and a yield point of 120 kg/mm², with a relative elongation of not less than 5% and a minimum bending number of 3. These characteristics are only attained after low-temperature annealing of the wire in a lead or sodium nitrite bath. To eliminate this expensive process, reinforcement wire has been produced since 1959 by electrothermal and combined electrothermal-mechanical drawing. Tests carried out at the Donetskoy nauchno-issledovatel'skiy institut nauchakirovogo stroitel'stva (Donets Scientific Research Institute of Mine Surface Structures) proved that at a certain correlation of heating time and temperature, low-temperature annealing of the wire can be omitted and it can be used with a lower relative elongation than required by GOST. The authors presented a table showing the change in mechanical properties of 5.0-mm diameter wires (with a

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S/133/61/009/011/018/019
A054/A127

Using high-strength cold-drawn wire...

0.81% carbon content) produced at the Knarstyzek Plant, with and without a water-temperature annealing, after brief electric heating to 350, 400, 450, 500 and 550°C within 5, 10, 15 and 20 seconds, (based on a series of 1,290 tests). The maximum strength of the nonannealed wires is obtained at 350°C and a heating time of 5 sec. Heating to higher temperatures reduces the strength. The critical strength (150 kg/mm^2) could be maintained for all heating periods tested (5 - 20 sec) up to 350 - 400°C, when heated to 450 - 460°C, only for 20 seconds. The yield limit reaches the maximum when the wire is heated to 350°C for 10 seconds; relative elongation increases with the rising temperature and attains 9% at 550°C for heating times of 10 - 20 seconds. The number of bendings is also raised although a clearly defined regularity could not be found. The effect of electric heating is similar for specimens subjected to low-temperature annealing. The microstructure of electric-heated specimens with and without annealing is the same. It belongs to the sorbitic-broostite and sorbitic-type, with a microhardness of 310 - 450 units. Another advantage of electrically heated wires is that they can be coiled into small coils, weighing 20 kg at the minimum, as electric-heated wire-lengths are not longer than 6 m, whereas in the conventional process the wire is coiled into coils 550 - 2000 mm in diameter and as a rule they have to be uncoiled and

Card 2/3

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3/13/68, 11/14/68
A064/A109

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L 27090-66 EWT(m)

ACC NR: AP6017412

SOURCE CODE: UR/0097/65/000/010/0015/0018

AUTHOR: Gorodnitskiy, F. M. (Candidate of technical sciences); Yukhvets, I. A. (Candidate of technical sciences); Korenev, K. I. (Engineer); Riskind, B. Ya. (Engineer); Shumeyko, R. I. (Engineer); Livchak, T. N. (Engineer); Litvinov, A. A. (Engineer); Makarevich, A. A. (Engineer)

ORG: none

TITLE: Properties of high-strength reinforcement material subjected to electrical heating

SOURCE: Beton i zhelezobeton, no. 10, 1965, 15-18

TOPIC TAGS: concrete, wire, solid mechanical property

ABSTRACT: Specimens of high-strength reinforcing wire for concrete were subjected to mechanical tests to determine the effects of electrothermal prestressing on the strength of reinforcing materials. The experimental procedure is described and the mechanical characteristics, chemical composition and geometric shape of the various wires studied are given. It is found that the optimum pretensioning temperature (i.e. the highest temperature which does not reduce the ultimate strength of the wire) is 400°C for a 5-mm wire and 350°C for a 3-mm wire. These temperatures meet the standard requirements for permanent elongation of wire which is not low-temperature annealed during manufacture. Since 3-mm wire is not sufficiently tensioned

Card 1/2

UDC: 666.982.4

Card 2/2

TOVPENETS, Ye.S., kand. tekhn. nauk; IVASHCHENKO, V.M., inzh.; STYCHINSKIY,
L.P., inzh.; ZHUKOV, A.I., inzh.; MERSHCHIIY, N.P., inzh.; KORENEV,
K.I., inzh.; SHUMEYKO, R.I., inzh.; IVANOV, F.I., inzh.

Mechanical properties of reinforcement rods after heat treatment
from the rolling process temperature. Stal' 25 no.2:157-160
F '65. (MIRA 18:3)

1. Donetskii politekhnicheskii institut; Makeyevskii metallurgi-
cheskii zavod; Nauchno-issledovatel'skii institut "Donpromstroy"
i Novo-Kramatorskii zavod tyazhelogo mashinostroyeniya.

SHUMEYKO, R.I., inzh.

White zone in the microstructure of wire and its properties.
Stal' 25 no.2:185 F '65. (MIRA 18:3)

SHUMENKO, S.I.

Use of the method of electron-microscopic replicas in
studying Upper Cretaceous Coccolithophoridae.
Dokl. AN SSSR 147 no.2:471-473 N '62. (MIRA 15:11)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
Predstavleno **akademikom N.M. Strakhovym.**
(Algae, Fossil)
(Electron microscopy)

ANNAMURADOV, N , kand. med. nauk; SHUMEYKO, T., red.; SAKHATOV, B., tekhn.
red.

[Archman Health Resort and its therapeutic properties]
Kurort Archman i ego tselebnye svoistva. Ashkhabad, Turk-
menskoe gos. izd-vo, 1960. 73 p. (MIRA 16:5)
(ARCHMAN--HEALTH RESORTS, WATERING PLACES, ETC.)

NOVIKOV, Leonid Dmitriyevich; SHUMEYKO, T., red.; SAKHATOV, B., tekhn.
red.

[Power engineering of Turkmenistan] Energetika Turkmenistana. Ash-
khabad, Turkmenskoe gos. izd-vo, 1961. 31 p. (MIRA 14:11)
(Turkmenistan--Power engineering)

RODYUKOV, V.I.; SHUMEYKO, T.I., red.; PURLIYEVA, M.K., tekhn.
red.

[Economic relations of Soviet Turkmenistan] Ekonomicheskie
sviazi sovetskogo Turkmenistana. Ashkhabad, Turkmengosiz-
dat, 1963. 82 p. (MIRA 16:12)
(Turkmenistan—Industries)
(Turkmenistan—Freight and freightage)

USSR/Diseases of Farm Animals - Diseases Caused by Viruses
and Rickettsiae.

R-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, 54410

Author : Nikiforova, N.M., Shumcyko, U.Ya., Anikeyev, A.P.,
Rubinskiy, Ye.N.

Inst : -

Title : Experience in the Hyperimmunization of Horses for the
Purpose of Obtaining Serum Against Swine Erysipelas
According to the Technique in Use in the German Democratic
Republic.

Orig Pub : Inform. byul. biol. prom-sti, 1957, No 2, 20-25

Abstract : No abstract.

Card 1/1

- 15 -

SHUMEYKO, V., starshiy shikhtovshchik

Progressive method of furnace charging. Metallurg 6 no.12:18-
19 D '61. (MIRA 14:11)

1. Martenovskiy tsekh zavoda "Zaporozhstal".
(Open-hearth furnaces--Equipment and supplies)

SHUMEYKO, V.D. (Kiyev)

Applying the Rayleigh-Ritz method for determining the frequency of natural vibrations of a bar. Prykl.mekh. 7 no.3:332-335 '61.

(MIRA 14:6)

(Elastic rods and wires--Vibration)

ARTISAN, H. A., J. A. A. A. A., Engineers

Artisan; jacks

Investigating the work of metal jacks. Typol' no. 6 (315), 1972.

KNOWLEDGE OF THE ENGINEER'S WORK, BUREAU OF ENGINEERS, WASHINGTON, D. C. 1952. UNCLASSIFIED.

8(0)

SOV/112-59-4-6947

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 75 (USSR)

AUTHOR: Shumeyko, V. I.

TITLE: Higher Explosion-Safety Qualities of Flexible Rubber Cables

PERIODICAL: V sb.: Gorn. elektrotehnika, M., Ugletekhizdat, 1957, pp 35-54

ABSTRACT: Raising the safety of rubber-insulated cables in the mines is considered. The safety can be attained by a high-speed protective system that would cut off the damaged cable, forestalling a short-circuit. Methods for determining the safe operating time for a protective system in case of cable damage by a falling rock or a sharp object are presented, as well as the principles of high-speed protective systems. Methods for hazard elimination in case of cable damage by spark-ignited methane-air mixture are discussed; the spark can be caused by a self-excitation EMF of the motor, when the motor is turned off, and by an EMF induced in the grounded cable conductor. Schemes, graphs, and oscillograms are supplied.

I. V. Kh.

Card 1/1

SHUMBYKO, V.I., inzh.

Flexible shielded cables. Bezop.truda v prom. 2 no.5:24-26 My '58.
(Cables) (MIRA 11:4)

SHUMAYKO V.I.
LEYBOV, R.M., prof.; SHUMEYKO, V.I., starshiy nauchnyy sotrudnik; SUMIN, I.F.
starshiy nauchnyy sotrudnik

Flexible, shielded cables in mines. Ugol' 33 no.4:29-31 Ap '58.
(MIRA 11:4)

1. Donetskiy industrial'nyy institut (for Leybov). 2. Makeyevskiy
nauchno-issledovatel'skiy institut po bezopasnosti gornykh rabot (for
Shumeyko, Sumin).

(Electricity in mining)

SHUMEYKO, V.I., gornyy inzhener

Protection of mine workings in the Lvov-Volyn Basin. Ugol'
Ukr. 3 no.6:10-13 Je '59. (MIRA 12:11)

1. Donetskiy ugol'nyy institut (DonUGI).
(Lvov-Volyn Basin--Subsidences (Earth movements))

SHUMEYKO, V.I.

Purpose of flexible shielded cables and methods of testing
them. Trudy MakNII 9 no.2:193-227 '59. (HIRA 12:8)
(Electric cables--Testing)

KOLOMIYTSSEV, N.M.; SHUMEYKO, V.I., starshiy nauchnyy sotrudnik

Making progress in the expansion of coal mining in the Lvov-Volyn'
Basin. Ugol' Ukr. 5 no.1:15-17 Ja '61. (MIRA 14:1)

1. Nachal'nik upravleniya toplivnoy promyshlennosti L'vovskogo
sovnarkhoza (for Kolomiytsev). 2. Sotrudnik Donetskogo ugol'nogo
instituta (for Shumeyko).

(Lvov-Volyn' Basin—Coal mines and mining)

SHUMEYKO, V.I., gornyy inzh.

Efficient type of metal supports for stopes. Ugol' 36 no.7:6-8
Jl '61. (MIRA 15:2)

(Time timbering)

SHUMEYKO, V.I., gorny; inzh.; ORESHKIN, V.L., gorny inzh.

Location of development workings in the ground of mined coal seams.
Ugol' Ukr. 6 no.5:11-13 My '62. (MIRA 15:11)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Coal mines and mining)

SHUMEYKO, V.I., inzh.; ORESHKIN, V.L., inzh.

Results of studies of the movement of a rock massif enclosing a seam being mined. Sbor. DonUGI no.29:31-41 '63. (MIRA 16:10)

(Lvov-Volyn' Basin--Subsidences (Earth movements))

MOROZOV, V.A.; SHUMEYKO, V.N.

New loci of *Alectorobius asperus verrucosus* in Krasnodar Territory. Med.paraz. i paraz.bol. 28 no.3:342-343 My-Je '59. (MIRA 12:9)

1. Iz Krasnodarskoy krayevoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach Ye.V.Strikhanova).

(TICKS,

Alectorobius asperus verrucosus in Russia (Rus))

SHUMEYKO, V. P.

Subject : USSR/Meteorology AID P - 2611
Card 1/1 Pub. 71-a - 14/26
Authors : Simonov, Ya. P. and V. P. Shumeyko
Title : A universal model of a heliograph
Periodical : Met 1 gidr, 4, 49, J1/Ag 1955
Abstract : The design of the universal heliograph used at hydro-meteorological stations is criticized for its complex operation and frequent failures. However, it is mentioned that this type is the only one which operates efficiently in polar regions.
Institution : None
Submitted : No date

SHUMEYKO, V.P.

"The climate of the Russian lowland in the past" by I.E.Buchinskii.
Reviewed by V.P.Shumeiko. Meteor.i gidrol. no.10:48-50 O '57.

(MIRA 10:11)

(Climate--History)

(Buchinskii, I.E.)

SHUMEYKO, V.P.

"Climate of the Ukraine" by I. E. Buchinskii. Reviewed by V. P. Shumeiko. Meteor. i gidrol. no.4:50-51 Ap '61. (MIRA 14:3)
(Ukraine--Climate) (Buchinskii, I.E.)

SHUMEYKO, V.P.

"Climate of the Ukraine in the past, present and future"
by I.E. Buchinskii. Reviewed by V.P. Shumeiko. Izv. Vses.
geog. ob-va 96 no.5:439-440 S-0 '64. (MIRA 17:12)

SHUMIKHIN, N. kapitan-leytenant

Navy friendship is indissoluble. Voen.znan. 36 no.12:15-16
D'60. (MIRA 13:11)

(Russia--Navy)

SHUMIKHIN, N., kapitan 3 ranga

Ships' electricians. Voen. znan. 38 no.7:21-22 J1 '62.

(MIRA 15:6)

(Submarine boats)

SHUMIKHIN, V., mayor

A lad from Kineshma. Av.i kosm. 45 no.8:76-78 '62. (MIRA 15:8)
(World War, 1939-1945—Aerial operations)

SHUMIKHIN, Yu.

USSR/Radio - Pulse Techniques
Television

Aug 50

"Pulse Technique," B. Krivitskiy, Yu. Shumikhin

"Radio" No 8, pp 20-23

Explains basic elements of pulse transmitters and receivers and properties of video pulses and radio pulses. States many Soviet scientists are working on this subject.

PA 164T98

1. SHUMIKHIN, YU. A.
2. USSR (600)
4. Technology
7. Introduction to impulse technology, Moskva, Gosenergoizdat. 1952

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

SHUMIKHIN, Yu., kandidat tekhnicheskikh nauk

Radio in aviation. Izv. vuzov. 3 no.5:14 My '52. (MLRA 8:8)
(Radio in Aeronautics)

YEVDOKIMOV, P.I., redaktor; KRIVITSKIY, B.Kh., redaktor; Shumikhin, Yu.A.,
redaktor; TRASKIN, K.A., inzhener-podpolkovnik, redaktor; ~~MIASNI-~~
KOVA, T.F., tekhnicheskiiy redaktor

[Transmitting electric measurement data by radio; collection of
translations on radiotelemetry] Tekhnika peredachi resul'tatov izme-
renii po radio; sbornik perevodov po radiotelemetrii. Moskva, Voen.
izd-vo Ministerstva oborony SSSR, 1955. 148 p. [Microfilm](MLRA 8:6)
(Telemetering)

AID P - 4398

Subject : USSR/Radio

Card 1/1 Pub. 89 - 7/11

Authors : Maksimov, M. and Yu. Shumikhin, ~~Yu.~~

Title : Radio-telemetering

Periodical : Radio, 3, 43-46, Mr 1956

Abstract : The measuring at a distance by radio recording is discussed. A block diagram of a 23 channel voltage type measuring system is presented. Samples of radio recording of wave signals by means of a measuring radio instrument mounted on a rocket are shown. A detailed description of the instruments' functions is given. Five diagrams.

Institution : None

Submitted : No date

SHUMIKHIN, Yu.

Automatic tracking. Radio no.10:18-22 0 '57. (MIRA 10:10)
(Radar)

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PHASE I BOOK EXPLOITATION

SOV/2244

Shumikhin, Yuriy Artem'yevich

Televideniye v voyennom dele (Television in Military Operations)
Moscow, Voen. izd-vo M-va obor. SSSR, 1958. 79 p. No. of
copies printed not given.

Ed.: A.I. Usikh, Engineer, Colonel; Tech. Ed.: R.L. Solomonik.

PURPOSE: The book is intended for the general reader.

COVERAGE: The author briefly discusses the fundamentals of television technique. He describes methods of using television equipment for military purposes, in particular, for ground and air reconnaissance. He also describes the use of television for controlling flights of pilotless objects. The use of television for air, marine, and submarine navigation is also discussed. No personalities are mentioned. There are 23 references: 13 Soviet (including 2 translations), 9 English, and 1 French.

Card 1/3

Television in Military Operations

SOV/2244

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Television in Military Operations

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1. Television in air navigation systems
2. Television in marine navigation systems
3. Submarine television

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Bibliography

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AVAILABLE: Library of Congress

JP/jmr
8-26-59

Card 3/3

BOGATOV, Gerał'd Borisovich; SHUMIKHIN, Yu.A., red.; LARIONOV, G.Ye.,
tekhn. red.

[Achievements and objectives of present-day television] Dosti-
zheniia i zadachi sovremennogo televideniia. Moskva, Gos. energ.
izd-vo, 1961. 175 p. (Massovaia radiobiblioteka, no.425)
(MIRA 15:2)

(Television)

BAR SUKOV, Filipp Ivanovich; SHUMIKHIN, Yu.A., red.

[Low-frequency generators and selective amplifiers] Generatory i selektivnye usiliteli nizkoi chastoty. Moskva, Energiia, 1964. 79 p. (Massovaia radiobiblioteka, 535) (MIRA 17:9)

FEL'DMAN, Lev Davidovich; SHUMIKHIN, Yu. A., red.

[Television reception] Televizionnyi priem. Moskva,
Energia, 1965. 207 p. (Massovaia radiobiblioteka,
no.565) (MIRA 18:8)

MERENKOV, B.Ya.; TOLSTIKHINA, K.I.; SHUMIKHINA, I.V.

Dehydration of chrysotile-asbestos and serpophite. Trudy IGBM
no. 31:54-67 '59. (MIRA 12:7)

(Asbestos)

ZAGREBIN, D.V.; SHUMIKHINA, K.G.

Tables of basic precession values for 1950-2000. Biul.Inst. teor.
astron. 5 no.10:682-693 '54. (MIRA 8:4)
(Precession)

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PHASE I BOOK EXPLOITATION

SOV/5461

Akademiya nauk SSSR. Institut teoreticheskoy astronomii.

Astronomicheskiy yezhegodnik SSSR na 1962 g. (Astronomical Yearbook of the USSR for 1962) Moscow, Izd-vo Akademii nauk SSSR, 1960. 647 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Institut teoreticheskoy astronomii Akademii nauk SSSR.

Resp. Ed.: M. F. Subbotin, Director of the Institute of Theoretical Astronomy of the Academy of Sciences USSR, Corresponding Member, Academy of Sciences USSR.

PURPOSE: This book is intended for astronomers and geophysicists.

COVERAGE: The Astronomical Yearbook of the USSR for 1962 has been compiled in accordance with changes proposed by the International Astronomical Union to member organizations at its meeting in 1958. In addition to usual

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Astronomical Yearbook (Cont.)

SOV/5461

information on the Sun, Moon, Earth, and planets, the Yearbook contains the ephemerides of the lunar crater Moesting A, which until 1960 were published by the Berliner Astronomisches Jahrbuch, [Berlin Astronomical Yearbook], and whose regular publication has now been undertaken by the Institute of Theoretical Astronomy of the USSR at the request of the Union's Committee on Ephemerides. The solar, lunar, and planetary coordinates in the Yearbook are based on data supplied by the British Nautical Almanac as stipulated by the Astronomical Union. The material in the Yearbook was compiled and prepared by the following scientists: computation of ephemerides of the lunar crater Moesting A on high-speed computer BEMS at the Vychislitel'nyy tsentr AN SSSR (Computer Center AS USSR) - D. K. Kulikov; reduction of solar and lunar ephemerides - A. G. Mal'kova and G. A. Mazing; computation of nutation on high-speed computer BEMS - D. V. Zagrebin, O. M. Gromova and A. Ya. Faletova; computation of reduction values of visible positions of ten-day and near-polar stars - M. B. Zheleznyak and M. A. Fursenko; preparation of original data on visible positions of ten-day and near-polar stars -

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Astronomical Yearbook (Cont.)

SOV/5461

E. A. Mitrofanova (in charge), O. M. Gromova, G. A. Mazing, T. I. Mashinskaya, G. M. Poznyak, K. G. Shumikhina, and P. A. Gutkina; heliocentric coordinates of the large planets - O. M. Gromova, A. G. Mal'kova; reduction values (trigonometric system) - E. A. Mitrofanova, and K. G. Shumikhina; mean positions of stars - E. A. Mitrofanova, M. B. Zheleznyak, O. M. Gromova, K. G. Shumikhina, M. A. Fursenko; solar and lunar eclipses - E. A. Mitrofanova, M. A. Fursenko; planetary configurations - E. A. Mitrofanova, O. M. Gromova; ephemerides for physical solar observations - P. A. Gutkina, T. I. Mashinskaya; ephemerides for physical lunar observations - G. A. Mazing, P. A. Gutkina, K. G. Shumikhina; ephemerides of the illumination of the discs of Mercury and Venus - T. I. Mashinskaya, G. M. Poznyak; ephemerides for physical observations of Mars - G. M. Mazing, T. I. Mashinskaya; ephemerides for physical observations of Jupiter - T. I. Mashinskaya, E. A. Mitrofanova; Saturn's rings - G. A. Mazing, T. I. Mashinskaya; sunrise and sunset - A. I. Frolova; rising and setting of the moon - P. A. Gutkina and K. G. Shumikhina; altitudes and azimuths of the Polar Star - A. G. Mal'kova

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Astronomical Yearbook (Cont.)

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and K. G. Shumikhina; table for determining latitude by the altitude of the Polar Star - K. G. Shumikhina and P. A. Gutkina; preparation of manuscript for publication - V. G. Kudinova; review and edition of "Explanatory Notes", D. K. Kulikov. There are no references.

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KONTOROVICH, P.G.; BUSARKINA, L.R.; SHUMIKHINA, N.A.

Some set-theoretical partitions of bodies. Mat. zap. Ural.
mat. ob-va UrGu 4 no.1:49-56 '63.

(MIRA 17:9)

BLOKHIN, V.N.; GRIGOR'YEV, M.G.; KOZHEVNIKOV, A.I.; KOROLEV, B.A.; MATYUSHIN,
I.F.; PARIN, B.V.; TSIMKHES, I.L.; KALININA, G.V.; FEDOROV, A.M.;
KOLOKOL'TSEV, M.V.; SOKOLOV, V.V.; PRILUCHNAYA, O.A.; SHUMILKINA,
Ye.I.; ABRAMOV, Yu.G.; RYURIKOV, A.Kh.; IKONNIKOV, P.I.; VOZNESENSKIY,
I.Ya.; TEPOV, S.V.; MIZINOV, N.N.; KUKOSH, V.I.

V.M.Durmashkin; obituary. Ortop., travm. i protez. 21 no.8:81 Ag
'60. (MIRA 13:11)

(DURMASHKIN, VIKTOR MARKOVICH, d. 1960)

L 17783-66 EWT(m)/EWP(j) RM

SOURCE CODE: UR/0081/65/000/012/S058/S058

ACC.NR: AR5020054

AUTHOR: Kessenikh, R.M.; Sotnikov, V.G.; Trippel', V.G.; Shumikov, Yu.N.;
Gruzdeva, Yu.G.; Povelichenko, A.P.

51
B

15.44.55

ORG: none

TITLE: Effect of plasticization on the physical properties of polyvinylchloride tar

SOURCE: Ref. zh. Khimiya, Abs. 128344

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 126, 196, 36-->

TOPIC TAGS: polyvinyl chloride, plasticizer, electric property, vinyl plastic, brittleness, thermal stress

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TRANSLATION: A study was made of the effect of low-molecular weight plasticizers (PL) from dioctylphthalate (DOP) and dibutylsebacinate (DBS) on the thermophysical and electric properties of polyvinylchloride (PVC). It was established that PL affects the maximum of dipole elasticity losses and when the content of PL is considerable it displaces the maximum to lower temperature areas and decreases its value; the effect on PVC produced by DBS is stronger than that of DOP. There is a considerable PL effect at 20° on the resistance of specific volume in plasticized PVC when the compound contains >20% of PL. The greatest effect is achieved by DBS, lowering the specific volume resistance by 3 points, as compared to pure PVC. If the compound contains 50% of DBS, the specific volume resistance goes down by 5 points and is further lowered at higher

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L 17783-66

ACC NR: AR5020054

temperatures. The introduction of PL lowers the embrittlement temperature (ET): with a content of 5% of PL in the compound, as referred to the ET of PVC, the ET equals 20°; with a 50% content of PL in the compound, the ET equals 4°. DOP and DBS have an almost identical effect on the thermal expansion and the ET in PVC plastics. By means of a roentgenographic analysis it was established that the introduction of PL into PVC ($\leq 20\%$) stimulates a better ordered structure of the material; however, a further increase of PL (50%) will disturb the order of the compound structure.

SUB CODE: 07

Card 2/2 vmb

Handwritten: SHUMIKOVSKIY, N.N.
SHUMIKOVSKIY, N.N.; MIKHAYLOVSKIY, V.N.

On selecting the channel and medium of communications in measuring
the "depth parameters" in oil wells. Nauch.zap. IMA L'viv.fil AN
URSR no.1:5-26 '53. (MIRA 8:11)
(Oil well logging, Electric)

SECRET, S. I. "Thomas Gallucci, a New York State Court Justice
(People v. ...) ... " Yankee Post, ... , ... , ...
SI-90-53, 15 Dec 1953

So: Sirra SI-90-53, 15 Dec 1953

SHIBALOV, N. F.

SHIBALOV, N. F. "Susceptibility of Winter Wheat and Rye to Fungus Diseases when Sown in Stubble," Doklady Vsesoyuznoi Akademii Sel'skokozyaystvennykh Nauk imeni V. I. Lenina, vol. 10, no. 4-5, 1945, pp. 41-44. 20 Ak1

So: Sira SI-60-53, 15 Dec 1953

SHUTTIENKO, T. F.

SHUTTIENKO, T. F. "Measures for the Control of Diseases of Vegetable Crops," Sa. i
Ozerod, no. 3, 1949, pp. 53-55. SC 3a13

So: Sira 37-98-53, 15 Dec 1953

1. SHUBILENKO, YE. F.

2. USSR (60)

7. "An Experiment in Supplementary Nourishment of Earley to Combat Striped Spotting", Trudy Vsesoyuzn. In-ta Zashchity Rasteniy (Works of the All-Union Institute of Plant Protection), No 3, 1951, pp 74-77.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

R.R.M. SHUMILENKO, Ye.P.

SHUMILENKO (E. P.). СПЕЦИАЛИЗАЦИЯ КОРОНЧАТОЙ РЖАВЧИНЫ ОВСА [Specialization of the crown rust of Oats.]--*Bot. Zh. [J. bot. U.S.S.R.]*, 36, 6, pp. 635-642, 1 diag., 1951.

In studies at the Pan-Soviet Institute of Plant Protection, Leningrad, *Rhamnus pallasii* was found to be an alternate host of oat crown rust (*Puccinia coronata*) in the U.S.S.R. [*R.I.M.*, 30, p. 62]. Eradication of *R. pallasii* is recommended as a preventative measure against further oat infection. The results of a three-year study of the complete life cycle of this fungus are described. In cross inoculation experiments with the basidiospores *R. pallasii*, *R. cathartica* [ibid., 29, p. 149], *R. dahuricus* [ibid., 23, p. 501], and *R. oleoides* were all infected, but not *R. frangula* [ibid., 29, p. 149]. The aecidiospores from *Rhamnus* attacked oats strongly.

1. SHUMILENKO, YE. P.

2. USSR (600)

4. Fungicides

7. Effectiveness of the preparation NIUIF-2 (granozan) in controlling diseases of the seeds of grain crops. Sel. i sem. 19 no. 10, 1952

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

SMILENKO, E. P.

The influence of several microelements on plant stability.
E. P. Smilenko. *Zemledelie* 1953, No. 5, 116-18.
Soaking clover seed in a 0.2% H_2BO_3 or 0.4% $MnSO_4$ for 10-15 hrs. followed by a dusting with granosan (probably an org. lig. compd.) after the seed has been dried proved to be very effective in reducing the injury by *Fu. artem. avenaceum* and *Ph. strobil. tenuis*, increasing the germination, accumulation of sugars in plants, and a lowering of peroxidase in plants.
J. S. Joffe

SHOMILENKO, E. P.
SHUMILENKO, E. P.

SHOMILENKO (E. P.). О предварительном програвливании семян зерновых культур Гранозаном. [Preliminary treatment of grain culture seeds with granosan.]—Земледелие. [Zemledelie, Moscow], 2, 3, pp. 85-88, 2 graphs, 1954.

In field trials conducted in 1952 by the Biological Institute of the Ural affiliation of the U.S.S.R. Academy of Sciences, seed treatment of wheat (varieties Diamond and Lutescens 62), oats (Zolotoy dozhd [Golden rain]), and barley (Weiner and Record) in the autumn with granosan (1, 2, and 1.5 kg. per t[on] of seed, respectively) freed them all completely from, respectively, bunt [*Tilletia caries*: R.A.M., 19, p. 391] and covered smuts [*Ustilago kollerii* and *U. hordei*: 18, p. 605], while those treated in the spring had 0.01 to 0.03 per cent. infection. Infection of spring-treated barley with *Helminiosporium* sp. was double that of the autumn-treated. Infection with loose smut [*Ustilago nuda*: 31, p. 113] was reduced by autumn treatment to 0.24 per cent. compared with 1 per cent. when seeds were sown immediately after treatment.

In 1953, seed treatment with granosan in March-April and November-December was tested at -26° [C.] on Diamond wheat and Odesky and Weiner barley. Barley infection with *Alternaria tenuis* [31, p. 596] from the treated seed was reduced. Wheat was completely free from bunt and loose smut [*U. tritici*: 33, p. 20] and barley from covered smut, though 2 per cent. loose smut occurred in barley plants from seed treated in April, 1953.

SHUMILENKO, Ye.P.; DEMIDOVA, Z.A., kandidat biologicheskikh nauk, otvetstvennyy redaktor

[Diseases of potatoes and ways of combating them] Bolezni kartofelia i mery bor'by s nimi. Sverdlovsk, Akademiia nauk SSSR, Ural'skii filial, 1956. 41 p. (MLRA 9:11)
(Potatoes--Diseases and pests)

BOGACHEVA, V.I.; KOROBEYNIKOVA, A.V.; SHUMILENKO, Ye.P., kand.biol.nauk,
otvetstvennyy redaktor; POTAPOVA, T.S., redaktor; IZHODENOVA, L.A.,
tekhn.redaktor

[Pests and diseases of clover in Sverdlovsk Province and ways of
controlling them] Vrediteli i bolezni klevera v Sverdlovskoi oblasti
i mery bor'by s nimi. Sverdlovsk, Akad. nauk SSSR, Ural'skii filial,
In-t biologii, 1957. 46 p. (MIRA 11:2)
(Sverdlovsk Province--Clover--Diseases and pests)

Country : USSR 0
Category : Plant Diseases. Diseases of Cultivated Plants.
Abs Jour. : Ref. Zhur.,-Biologiya No. 11, 1958. No. 49249
Author : Shumilenko, Ye.P.
Institute : Not given
Title : The Influence of Carbon Nutrient Sources on the
Morphological and Parasitic Properties of the
Clover Sprout Disease Agent *Alternaria tenuis* Nass.
Orig. Pub.: Mikrobiologiya, 1957, 26, No. 3, 374-379
Abstract : It was found that the form, dimensions and color
of spores and hyphae of the fungus *A. tenuis*, its
fermentative activity and virulency are related
to the source of C in its environment. When the
cultures soil was infected with the fungus grown
in medium with saccharose, considerable loss of
germinating ability and 100% infection in the
sprouts were observed. It is presumed that when
Card: 1/2

Country : USSR
Category : Plant Diseases. Diseases of Cultivated Plants.

Abs. Jour.: Ref. Zhur.-Biologiya No. 11, 1958. No. 49249

Author :
Institute :
Title :

Orig. Pub.:

Abstract : this agent is grown on saccharose medium the virulence of the fungus is heightened, whereas cultivation on medium with mannite reduces its virulence.--V.V. Vlodayets

Card: 2/2

SHUMILENKO, Ya.P.

Hibernation of stem rust (*Puccinia graminis* Pers.) under conditions prevailing in Sverdlovsk Province. Bot.zhur.42 no.1:95-97 Ja '57.

1. Institut biologii Ural'skogo filiala Akademii nauk SSSR, Sverdlovsk.

(Sverdlovsk Province--Uredineae)

SHUMILENKO, Ye.P.

Diseases of clover in Sverdlovsk Province. Trudy Inst. biol.
UFAN SSSR no. 15:47-70 '60. (MIRA 13:10)
(SVERDLOVSK PROVINCE—CLOVER—DISEASES AND PESTS)
(FUNGI, PHYTOPATHOGENIC) (BACTERIA, PHYTOPATHOGENIC)

SHUMILENKO, Ye.P.

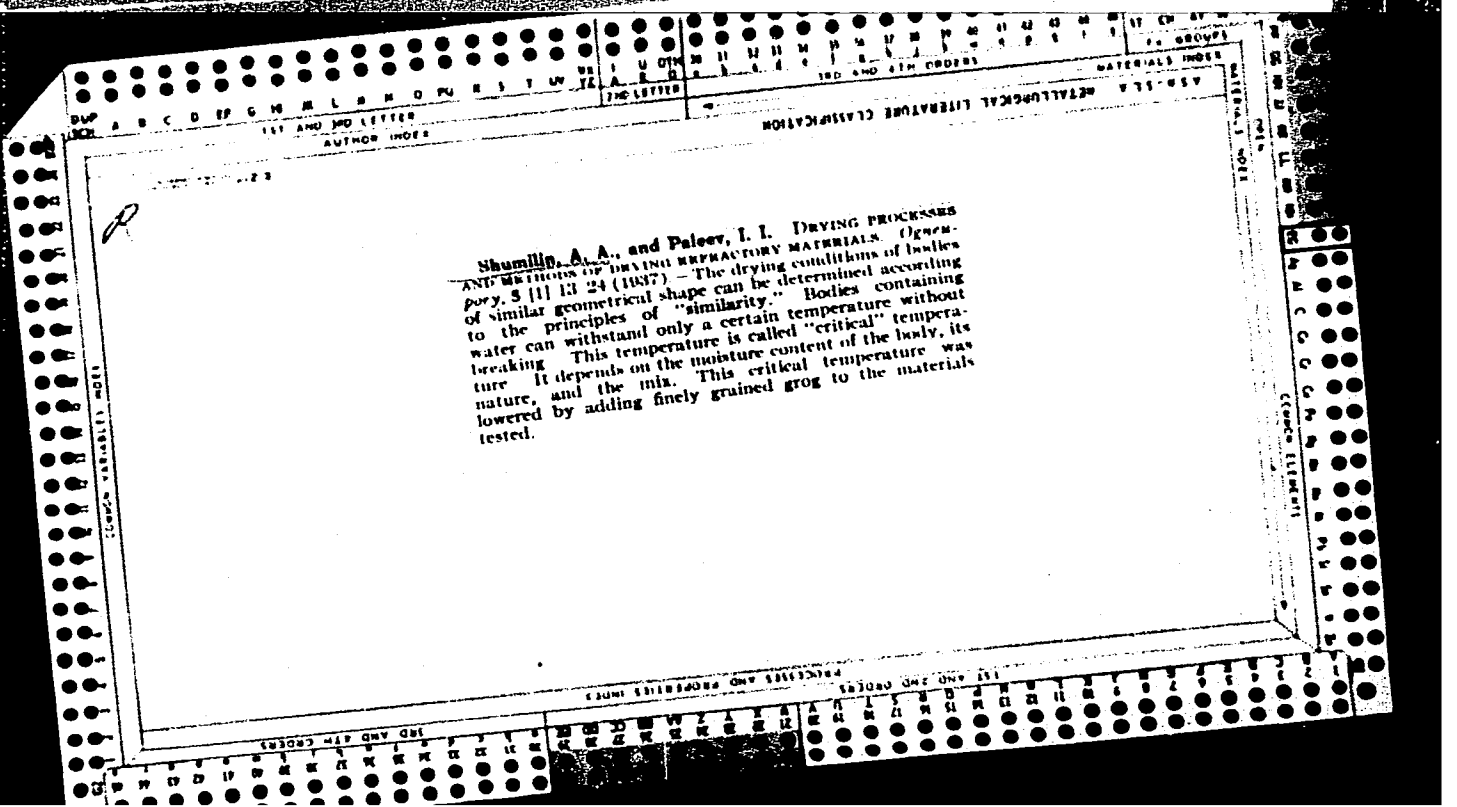
Transmission of brown rot by the seeds of flowering plants.
Biul.Glav.bot.sada no. 48:84-85 '63. (MIRA 17:5)

1. Ural'skiy nauchno-issledovatel'skiy institut Akademii
kommunal'nogo khozyaystva, Sverdlovsk.

SHUMILENKO, Ye.S.

Chemical and biological means of controlling some diseases
of flowering plants. Nauch. trudy AKKH no.24:125-136 '61.
(MIRA 18:1)

Results of testing copper preparations for controlling gray
leaf spot of poplars. Ibid. 2:137-140



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1ST AND 2ND ORDER) PROCESSES AND PROPERTIES INDEX

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ew

Drying of semi-dry pressed brick. A. A. Shumilin.
Ogneupory 5, 558-63(1937). E. Stefanowsky

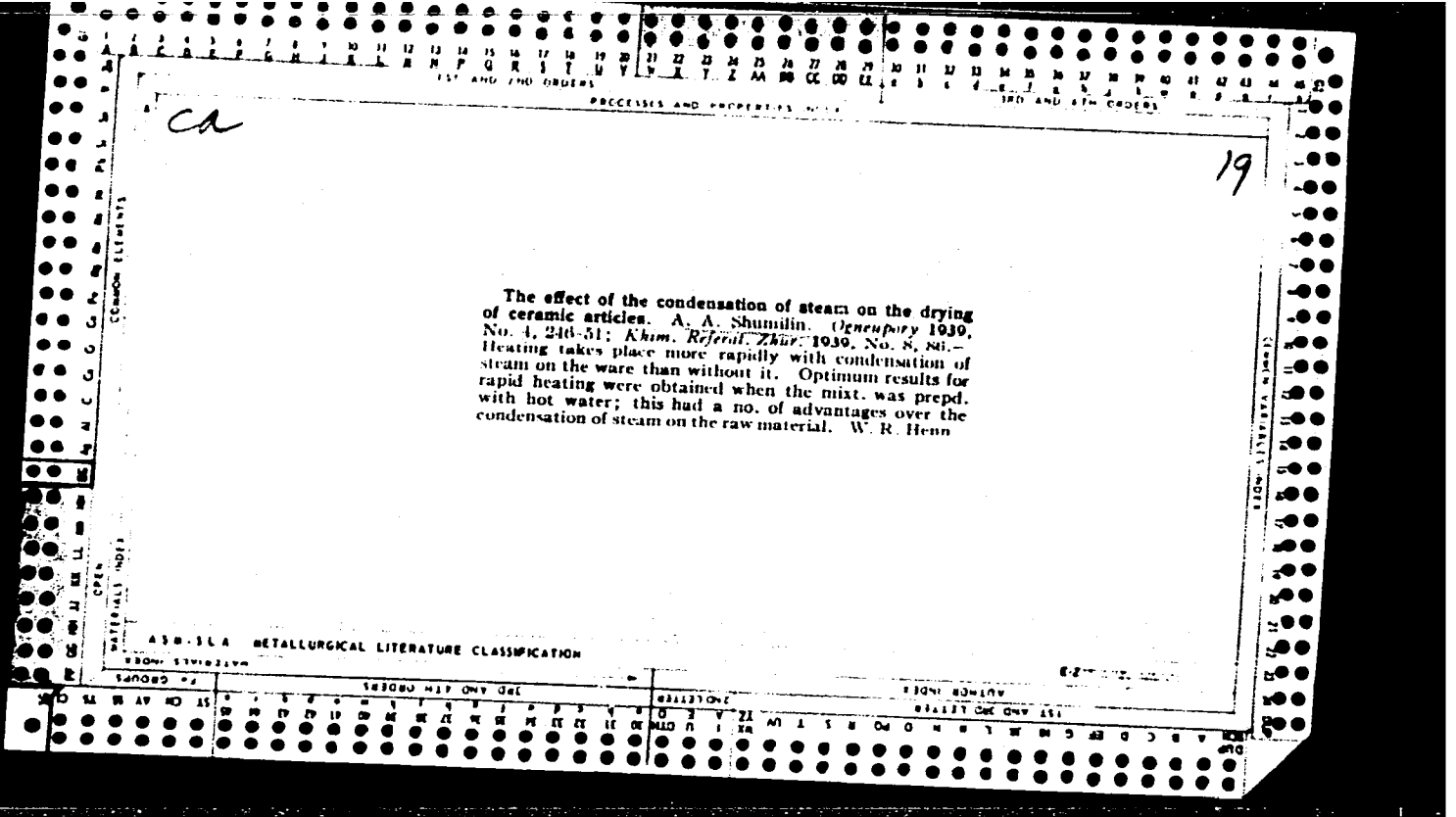
OPEN MATERIALS INDEX

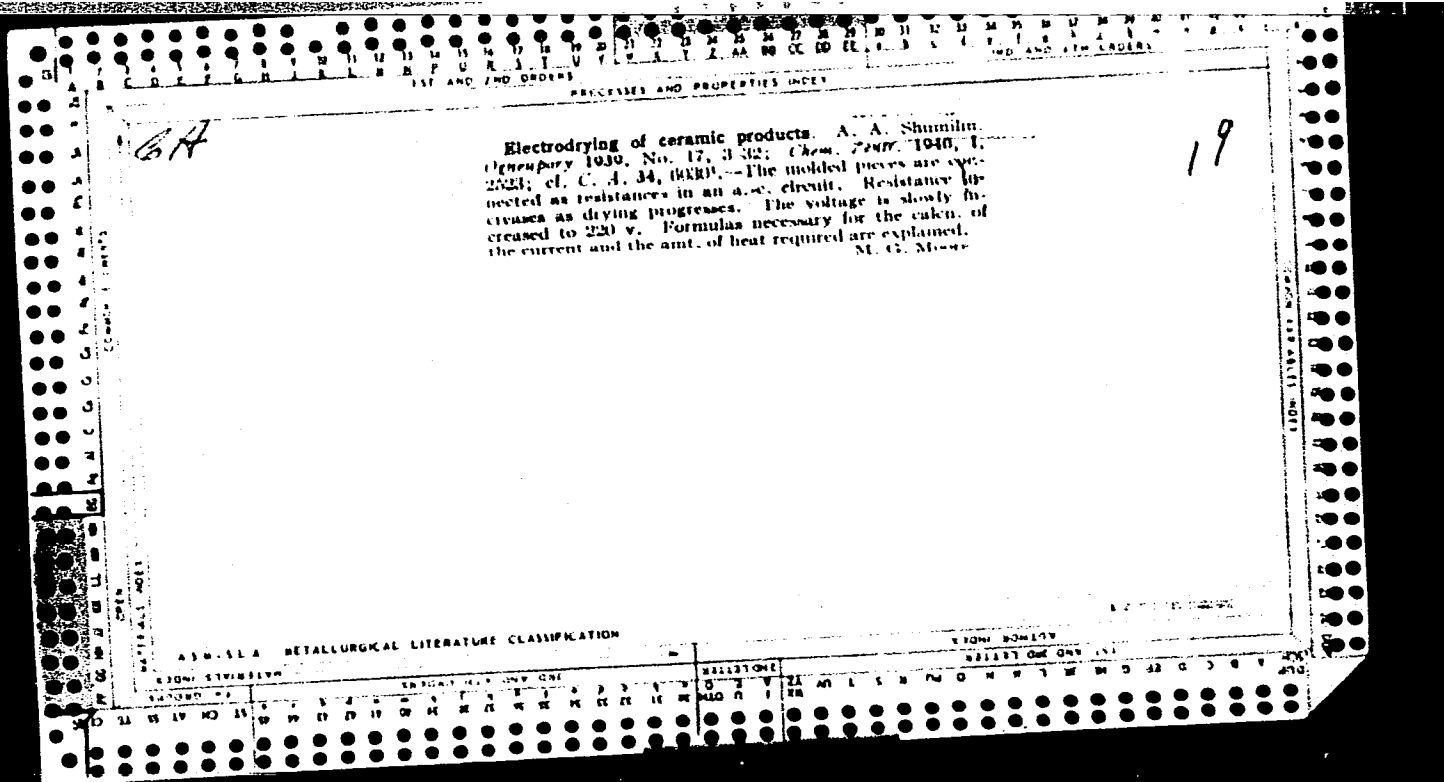
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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDER) PROCESSES AND PROPERTIES INDEX

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Graphic methods for making calculations on drying (ceramic) equipment. A. A. Shumilin. *Trudy Vsesoyuz. Inst. Okeanografii* 1939, No. 17, 33-44; *Chem. Zentr.* 1940, I, 2690; cf. *C. A.* 34, 6000; 35, 7688. A monograph on drying culens. M. G. Masre

METALLURGICAL LITERATURE CLASSIFICATION

151 AND 152 LETTER

151 AND 152 LETTER

PROCESSES AND PROPERTIES INDEX

Hydration of magnesite. A. A. SHUMILIN *Ogneupory*, 12 (12) 545-49 (1947). --The hydration of magnesite in a pit at the Magnesite Works proceeds without loss of water to the surrounding medium, and the water balance can be expressed by $x + W = x_1 + W_1$, where x = free absolute moisture (% based on absolute dry weight) of the material for any given period, W = water of hydration (% based on absolute dry weight) for the same period as for x , and x_1 and W_1 = moisture and water of hydration (%) for the initial period. At constant temperature of the material, x and W will depend only upon the length of time, t . By applying to this process the equation of the kinetics of a monomolecular reaction and solving, $x = x_1 e^{-kt}$ (I) and $W = W_1 + x_1 (1 - e^{-kt})$ (II), where k is a constant for the given temperature. It can be used to determine (a) free moisture in magnesite after a given time interval, if x_1 and k are known, (b) amount of water of hydration in the magnesite after, at a definite period, hydration has started, and (c) the time interval for which x will be equal to a given value of x_1 . II can be used to determine (a) amount of water of hydration after a time interval, t , for known values of W_1 and x_1 , (b) amount of remaining free water in the magnesite, and (c) time interval for which hydration of magnesite will have a given value of W_2 . Cf. *Ceram. Abstracts*, 1949, Aug., p. 1852. B.Z.K.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL DIVISION

MATERIALS INDEX

OPEN

COMMON ELEMENTS

LITHIUM ALUMINUM BORON

SHUMILIN, A. A.

PA 32/49T65

USSR/Minerals
Refractory Materials
Firebrick

Aug 48

"The Mechanical Stability of Unburnt Magnesite
Brick (the Semifinished Product)," A. A. Shumilin,
Cand Mech Sci, 1 $\frac{1}{2}$ pp

"Ogneupory" No 8

Presents results of experiments on subject. Graph
shows mechanical strength plotted against hydration
moisture.

32/49T65

SHUMILIN, A. A.

PA 18/49T94

USSR/Minerals
Clays

Nov 48

"Drying Clays at the Locations Where They Are
Obtained," A. A. Shumilin, Cand Tech Sci, 4 $\frac{1}{4}$ pp

"Ogneupory" No 11

Ye. O. Domoratskiy ("Ogneupory" No 10, 1947) showed it
was possible to dry clays at the mine. Shumilin
discusses pros and cons of this arrangement.

18/49T94

PROCESS AND PROPERTIES INDEX

8 - ② - 49

Mechanical strength of unfired magnesite brick. A. A. SUCUMIKIS. *Ogarepory*, 13 [8] 349-50 (1948). Mechanical strength (S) of unfired magnesite brick as a function of the percentage of hydration moisture (H), before and after drying, is shown in two curves. Moisture content was initially 2.5% and, after drying, <0.1%. For the moist brick the function is rectilinear, and for the dry brick it is curvilinear, so that starting with any value of $H = H_0$, the mechanical strength approaches a constant magnitude of $S = S_0$. In the latter case, any further increase in the hydration moisture will cause no rise in mechanical strength and may even damage the brick during dehydration in firing. Prior to drying, $S = 18.0 + 16.35H$; after drying, $S = 106 - 100(0.75 - H)^2$ for unfired brick from the Magnezit works (no information is given on manufacture or characteristics of the brick). After drying, the mechanical strength is twice as great in the absence of hydration as in the case of optimum hydration. B.Z.K.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

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CG	107	CG	107
CH	108	CH	108
CI	109	CI	109
CJ	110	CJ	110
CK	111	CK	111
CL	112	CL	112
CM	113	CM	113
CN	114	CN	114
CO	115	CO	115
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CR	118	CR	118
CS	119	CS	119
CT	120	CT	120
CU	121	CU	121
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CU	143	CU	143
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CO	159	CO	159
CP	160	CP	160
CQ	161	CQ	161
CR	162	CR	162
CS	163	CS	163
CT	164	CT	164
CU	165	CU	165
CV	166	CV	166
CA	167	CA	167
CB	168	CB	168
CC	169	CC	169
CD	170	CD	170
CE	171	CE	171
CF	172	CF	172
CG	173	CG	173
CH	174	CH	174
CI	175	CI	175
CJ	176	CJ	176
CK	177	CK	177
CL	178	CL	178
CM	179	CM	179
CN	180	CN	180
CO	181	CO	181
CP	182	CP	182
CQ	183	CQ	183
CR	184	CR	184
CS	185	CS	185
CT	186	CT	186
CU	187	CU	187
CV	188	CV	188
CA	189	CA	189
CB	190	CB	190
CC	191	CC	191
CD	192	CD	192
CE	193	CE	193
CF	194	CF	194
CG	195	CG	195
CH	196	CH	196
CI	197	CI	197
CJ	198	CJ	198
CK	199	CK	199
CL	200	CL	200

PROCESSES AND PROPERTIES INDEX

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Drying of clay at the pits. A. A. SHUMILIN. *Geography*, 13 (11) 502-503 (1948). --Data are given on (1) equilibrium moisture of clays, (2) atmospheric temperatures, (3) relative humidity, (4) amount of precipitation, and (5) freezing depth of soil in various regions of the Soviet Union. The drying of clay at the pits is considered undesirable on the basis of technical and economic considerations. B.Z.K.

ASB-SLA METALLOGICAL LITERATURE CLASSIFICATION

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

c

Improving the construction of shaft kilns. I. F. CHUKUROV AND A. A. SHUMILIN. *Ogneupory*, 14 (4) 100-05 (1949). The chief defect of gas fired shaft kilns used for firing grog is the uneven distribution of the generator gas and combustion products within the space of the kiln. The construction of kilns with narrower shafts and the use of higher gas pressure did not result in more even distribution of the gas. In changing two shaft kilns to use gas fuel, the burners were constructed in the form of slits 1400 x 80 mm. and 1.8 m. (width of kiln) apart. The burners (slits) were in two rows, six in the upper and eight in the lower row. Gas was not delivered to the upper burners because combustion there was found to be largely incomplete. The slit burners produced satisfactory distribution of gas in the firing zone. Gas analysis at different points in the cross section of the kiln showed that the central part of the kiln was supplied with sufficient gas and that the excess of air along the periphery was somewhat greater than in the center. In two other kilns, all the 14 burners (slits) were in one row and 800 mm. above those in the first-mentioned kilns, the burners were 1400 x 25 mm. The outputs of both pairs of kilns were practically the same. B.Z.K.

METALLURGICAL LITERATURE CLASSIFICATION

ATTACHED INDEX

1ST AND 2ND DEGREES

3RD AND 4TH DEGREES

5TH AND 6TH DEGREES

7TH AND 8TH DEGREES

9TH AND 10TH DEGREES

11TH AND 12TH DEGREES

13TH AND 14TH DEGREES

15TH AND 16TH DEGREES

17TH AND 18TH DEGREES

19TH AND 20TH DEGREES

21ST AND 22ND DEGREES

23RD AND 24TH DEGREES

25TH AND 26TH DEGREES

27TH AND 28TH DEGREES

29TH AND 30TH DEGREES

31ST AND 32ND DEGREES

33RD AND 34TH DEGREES

35TH AND 36TH DEGREES

37TH AND 38TH DEGREES

39TH AND 40TH DEGREES

41ST AND 42ND DEGREES

43RD AND 44TH DEGREES

45TH AND 46TH DEGREES

47TH AND 48TH DEGREES

49TH AND 50TH DEGREES

51ST AND 52ND DEGREES

53RD AND 54TH DEGREES

55TH AND 56TH DEGREES

57TH AND 58TH DEGREES

59TH AND 60TH DEGREES

61ST AND 62ND DEGREES

63RD AND 64TH DEGREES

65TH AND 66TH DEGREES

67TH AND 68TH DEGREES

69TH AND 70TH DEGREES

71ST AND 72ND DEGREES

73RD AND 74TH DEGREES

75TH AND 76TH DEGREES

77TH AND 78TH DEGREES

79TH AND 80TH DEGREES

81ST AND 82ND DEGREES

83RD AND 84TH DEGREES

85TH AND 86TH DEGREES

87TH AND 88TH DEGREES

89TH AND 90TH DEGREES

91ST AND 92ND DEGREES

93RD AND 94TH DEGREES

95TH AND 96TH DEGREES

97TH AND 98TH DEGREES

99TH AND 100TH DEGREES