

DMITREVSKIY, Yu. D.

Concerning a "traditional" error. Izv. Vses. geog. obshch., 84, no 4, 1952.

1. DMITREVSKIY, Yu.
2. USSR (600)
4. Description and Travel - Iraq
7. "Through Iran and Iraq." F. F. Talyzin. Reviewed by Yu. Dmitrevskiy. Vokrug sveta, no. 1, 1953.

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

DMITREVSKIY , Yn.D.

E.P. Kovalevskii in the fight against racism. Izv. Vses. geog. ob-va 85
no.3:292-295 My-Je '53. (MLRA 6:6)
(Race problems) (Kovalevskii, Egor Petrovich, 1811-1868)

DMITREVSKIY, Yu.D.

~~DMITREVSKIY, Yu.D.~~

Problems of utilizing the Nile, and English imperialism. Izv.Vses.geog.
ob-va 85 no.6:609-619 N-D '53. (MIRA 6:11)
(Nile river)

DMITRIYEVSKIY, Yu.D.

Two books on methods of teaching geography in the 6th class
("Problems of teaching world geography in the 6th class."
T.S.Panfilova; "Methods of teaching world geography." A.E.Bibik.
Reviewed by IU.D.Dmitrevskii). Geog.v shkole no.1:73-76 Ja-F '54.
(MLRA 7:1)
(Panfilova, T.S.) (Bibik, A.E.) (Geography--Study and teaching)

DMITREVSKIY, Yu.D.

"Physical geography of parts of the world; Africa." A.S.Barkov.
Reviewed by IU.D.Dmitrevskii. Izv.Vses.geog.ob-va 86 no.5:468-470
S-O '54. (MLRA 7:10)
(Barkov, Aleksandr Sergeevich, 1873-) (Africa--Physical
geography) (Physical geography--Africa)

DMITREVSKY, Yu.D.

~~DMITREVSKY, Yu.D.~~
"Egypt; economic geography outline." L.Sh. Gordonov. Reviewed by
Yu.D.Dmitrevskii. Izv. Vses. geog. ob-va 88 no.1:105-107 Ja-F '56.
(Egypt--Economic geography)(Gordonov, L.Sh.) (MLRA 9:6)

DMITREVSKIY, Yu.D.

"Africa: Physical geography sketch," "Australia and Oceania."
S.T. Belozorov. Reviewed by Yu.D. Dmitrevskii. Izv.Vses.geog.
ob-va 88 no.4:394-396 J1-Ag '56. (MLRA 9:10)

(Africa--Physical geography) (Australia--Physical geography)
(Belozorov, S.T.) (Oceanica--Physical geography)

DMITRIYEVSKIY, Yu.D.

Classification of rivers of Africa on the basis of economic geography.
Izv.Vses.geog.ob-va 89 no.4:356-359 J1-Ag '57. (MIRA 10:10)
(Africa--Rivers)

DMITRIYEVSKIY, Yu. D.
DMITRIYEVSKIY, Yu. D.

"A geography of Sierra Leone and Gambia" by H.R. Jarrett. Reviewed
by IU.D. Dmitrevskii. Izv. Vses. geog. ob-va 89 no.6:563-566 N-D '57.
(Sierra Leone) (Gambia) (Dmitrevskii, IU.D.) (MIRA 10:12)

DMITREVSKIY, Yu.D.

Inland water transportation in Africa; general characteristics.
Uch. zap. VGPI 27:347-361 '62. (MIRA 16:8)

(Africa—Inland water transportation)

DMITREVSKIY Yu.D.

Irrigation in North African countries. Vol. geog. no. 64:121-130
'64. (MIRA 17:10)

1. Vologodskiy pedagogicheskiy institut.

CHEKMAREV, V.A.; DMITROCHENKO, A.K., slesar'

Machine for fiber feeding to the dyeing apparatus. Tekst.prom.
23 no.1:18-19 Ja '63. (MIRA 16:2)

1. Zaveduyushchiy krasil'no-otdelochnym proizvodstvom
Klintsovskoy tonkosukonnoy fabriki imeni Kominterna (for
Chekmarev). 2. Otdel glavnogo mekhanika Klintsovskoy
tonkosukonnoy fabriki imeni Kominterna (for Dmitrochenko).
(Textile machinery)

DMITRIYENKO, A. P. (PROF) ~~Leningrad Veterinary Institute~~

"Role of the Factors of Feeding in the Etiology of Diseases of Agricultural Animals"

(Report given at a scientific-methodological conference, organized by the Administration of Higher Agricultural Educational Institutions (Min Agriculture USSR), held in the Leningrad Veterinary Institute, May, 1949)

Veterinariya, Vol 26, No 8, 1949, pp62--63.

DMITROCHENKO, A. P.

GUREVICH, Iona Yakovlevich, kandidat sel'skokhozyaystvennykh nauk;
DMITROCHENKO, A. P., professor, doktor sel'skokhozyaystvennykh
nauk, redaktor; BOLOGOV, G.N., redaktor; CHUNAYEVA, Z.V.,
tekhnicheskiy redaktor

[Feeding of farm animals] Kormlenie sel'skokhoziaistvennykh
zhivotnykh. Pod red. A.P.Dmitrochenko. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1957. 285 p. (MIRA 10:9)
(Feeding and feeding stuffs)

DMITRIY ROCHENKO A.P.

DMITROCHENKO, A.P., prof., red.; FSHENICHNYY, P.D., prof., red.;
BOLOGOV, G.N., red.; CHUMAYEVA, Z.V., tekhn.red.

[Raising young farm animals; a collection of scientific papers]
Vyrashchivanie molodniaka sel'skokhoziaistvennykh shivotnykh;
sbornik nauchnykh rabot. Moskva, Gos.isd-vo sel'khoz.lit-ry, 1957.
414 p. (MIRA 10:12)

(Stock and stockbreeding)

USSR/Farm Animals. Small Horned Cattle

Q-3

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49988

Author : Dmitrochenko, A.F., Gurovich, I.Ye.

Inst : Leningrad Film Institute.

Title : The Utilization of Certain Blood, Urine, and Milk Indicators
in Controlling the Feeding of Milch Cows.

Orig Pub : Sb. rabot Leningr. vet. in-ta, 1957, vyp. 16, 141-145

Abstract : In several experimental feedings of cows with various types of concentrates, the obtained blood, urine, and milk indicators were taken into account, and subsequently compared with indicators obtained from control group animals. When sub-concentrate and semiconcentrate diet types were used, a number of blood and urine indicators remained within normal limits. In concentrate type diets and when poor quality foods were used, blood and urine indicators deviated from the norm. Poor foods caused a decrease of the carotene content in the blood, as well as of the vitamins A and C contents in the milk.

Card : 1/1

DMITROCHENKO, A.P., prof., red.; BOLOGOV, G.N., red.; CHUNAYEVA, Z.V.,
tekhn.red.

[Feeding of farm animals; a collection of papers] Kormlenie
sel'skokhoziaistvennykh shivotnykh; sbornik rabot. Moskva,
Gos.izd-vo sel'khoz.lit-ry, 1958. 487 p. (MIRA 13:4)

1. Leningradskiy sel'skokhozyaystvennyy institut (for Dmitrochenko).
(Feeding)

DMITROCHENKO, Aleksandr Petrovich, zasl. deyatel' nauki RSFSR;
Pshenichnyy, Pavel Dmitriyevich, akademik; MAGON, E.E., red.;
BARANOVA, L.G., tekhn. red.

[Feeding farm animals] Kormlenie sel'skokhoziaistvennykh zhi-
votnykh. Leningrad, Izd-vo sel'khoz. lit-ry, zhurnalov i pla-
katov, 1961. 527 p. (MIRA 15:1)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for
Pshenichnyy).

(Feeding)

D'YAKOV, Mikhail Iudovich, akademik [deceased]; BELEN'KIY, N.G.,
obshchiy red.; DMITROCHENKO, A.P., prof., doktor sel'skokhoz.
nauk, obshchiy red.; KONDIYEV, V.Ye., kand.sel'skokhoz.nauk,
obshchiy red.. V redaktirovani priimali uchastiye: GOLU-
BENTSOVA, Yu.V., kand.sel'skokhoz.nauk, nauchnyy sotrudnik, red.
[deceased]; MYSYUTKINA, M.V., kand.sel'skokhoz.nauk, nauchnyy sotrud-
nik, red.; YEFIMOV, P.F., kand.sel'skokhoz.nauk, nauchnyy
sotrudnik, red.; KABOZEV, S.M., kand.sel'skhokhoz.nauk, nauchnyy
sotrudnik, red.; BEINARSKAYA, G.A., red.; BALLOD, A.I., tekhn.red.

[Selected works in two volumes] Izbrannye sochinenia v dvukh
tomakh. Moskva, Gos.izd-vo sel'khoz.lit-ry. Vol.1. 1959. 515 p.
Vol.2., 1959. 647 p. (MIRA 13:1)

1. Vsesoyuznaya akademiya sel'skokhoz.nauk im. V.I.Lenina (for
D'yakov). 2. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'sko-
khozyaystvennykh nauk imeni V.I.Lenina (for Belen'kiy). 3. Vse-
soyuznyy nauchno-issledovatel'skiy institut kormleniya sel'sko-
khozyaystvennykh zhivotnykh (for Golubentseva, Mysyutkina,
Yefimov, Kabozev).

(Agriculture)

DMITROCHENKO, A.P.

Effect of feeding conditions on certain aspects of the growth and development of farm animals. Trudy Inst.morf.zhiv. no.31:63-72 '60.
(MIRA 13:6)

1. Leningradskiy sel'skokhozyaystvennyy i veterinarnyy institut.
(Feeding)

DMITROCHENKO, A.P., prof., red.; BOLOGOV, G.N., red.; BARANOVA, L.G.,
tekhn.red.; CHUNAYEVA, Z.V., tekhn.red.

[Feeding farm animals; collected scientific papers] Kormlenie
sel'skokhoziaistvennykh zhivotnykh; sbornik nauchnykh rabot.
Leningrad, Gos.izd-vo sel'khoz.lit-ry, 1960. 371 p.
(MIRA 14:2)

1. Leningradskiy sel'skokhozyaystvennyy institut (for Dmitrochenko).
(Feeding)

KUZNETSOV, G.S., prof., otv. red.; BOCHAROV, I.A., prof., red.; VOKKEN, G.G., prof., red.; TSION, R.A., prof., red.; DMITROCHENKO, A.P., prof., red.; SINEV, A.V., prof., red.; FEDOTOV, B.N., prof., red.; CHERNYAK, V.Z., prof., red. Prinsipalni uchastiye: NIKOL'SKIY, S.N., prof., red.; KHEY SIN, Ye.M., prof., red.; GUSEV, V.F., dots., red.; KOLABSKIY, N.A., dots., red.

[Papers presented at the Conference on Protozoological Problems Dedicated to the 90th Anniversary of the Birth of Professor V.L. IAKimov] Sbornik rabot Nauchnoi konferentsii po protozoologicheskim problemam, posviashchennaia 90-letiiu so dnia rozhdeniia professora V.L.IAKimova. Leningrad, 1961. 292 p. (MIRA 15:6)

1. Nauchnaya konferentsiya po protozoologicheskim problemam, posvyashchennaya 90-letiyu so dnya rozhdeniya professora V.L. Yakimova.
 2. Stavropol'skiy sel'skokhozyaystvennyy institut (for Nikol'skiy).
 3. Institut tsitologii Akademii nauk SSSR (for Kheysin). 4. Leningradskiy veterinarnyy institut (for Kolabskiy).
- (Protozoology—Congresses)

KOVAL'SKIY, V.V., prof., red.; ~~DMITROCHENKO, A.P.~~, prof., red.;
KARTASHEVA, N.M., red.; PROKOF'YEVA, L.N., tekhn.red.

[Trace elements in stockbreeding] Mikroelementy v zhivotnovodstve. Pod obshchei red. V.V.Koval'skogo i A.P.Dmitrochenko. Moskva, Sel'khozizdat, 1962. 141 p.

(MIRA 15:11)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina. Otdeleniye zhivotnovodstva. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina i Biogeokhimicheskaya laboratoriya Instituta geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo Akademii nauk SSSR (for Koval'skiy).
(Trace elements—Physiological effect) (Feeding)

DMITROCHENKO, Aleksandr Petrovich, doktor sel'khoz. nauk; NAUMOV, Petr Andreyevich, doktor sel'khoz.nauk; KRYLOV, Vladimir Mikhaylovich, kand. sel'khoz. nauk; PARKHOMENKO, V.S., red.; PRESNOVA, V.A., tekhn. red.

[Feeding suckling pigs] Podkormka porosiat pod matkami.
Leningrad, Lenizdat, 1963. 20 p. (MIRA 16:6)
(Swine--Feeding and feeds)

DMITROCHENKO, Aleksandr Petrovich, prof.; MAGON, E.E., red.;
BARANOVA, L.G., tekhn. red.

[Manual of practical exercises in the feeding of farm
animals] Rukovodstvo k prakticheskim zaniatiyam po korm-
leniiu sel'skokhoziaistvennykh zhivotnykh. Moskva, Sel'-
khozizdat, 1963. 286 p. (MIRA 16:12)
(Feeding)

DMITROCHENKO, A.P., prof., red.; MAGON, E.E., red.

[Feeding and raising young farm animals; collection of scientific work] Kormlenie i vyrashchivanie molodniaka sel'skokhoziaistvennykh zhivotnykh; sbornik nauchnykh rabot. Moskva, Izd-vo "Kolos." No.5. 1964. 315 p. (MIRA 17:4)

L. Leningradskiy sel'skokhozyaystvennyy institut (for Dmitrochenko).

DMITROCHENKO, A.P.

[Feeding of farm animals] Kormlenie sel'skokhoziaistven-
nykh zhivotnykh. Leningrad, Kolos, 1964. 647 p.
(MIRA 18,11)

DMITROCHENKO, D.A.; LOBANOV, A.M.; MIKHAYLOV, G.P.; SHEVCHUK, V.A.

Apparatus for measuring the dielectric loss and dielectric
constant of solid dielectrics. Zav. lab. 25 no. 9: 1121-1124
'59. (MIRA 13:1)

1. Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR.
(Dielectrics)

DMITROCHENKO, D. A

PHASE : ECSS EXPLOITATION

504/6379

Восстановиле конференция по физике дисертация. 24, 1958
 Физика дисертация: труды первой конференции (Физика дисертаций)
 Transactions of the 24 All-Union Conference on the Physics of Dislocations
 Moscow, Izdat. AN SSSR, 1958. 502 p. Extra slip inserted. 5,000 copies
 printed.

Sponsoring Agency: Akademya Nauk SSSR, Fizikooskiy Institut Imeni P.N. Lebedeva.
Ed. of Publishing House: "Izdat. Stroi. Mashiny"; Tech. Ed.: I.N. Doroshina; Editorial Board: (Resp. Ed.) G.I. Samoylov, Doctor of Physics and Mathematics (Deceased); and K.Y. Filipova, Candidate of Physics and Mathematics.

NOTE: This collection of reports is intended for scientists investigating the physics of dielectrics.

CONCLUDED. The Second All-Union Conference on the Physics of Plasmas held in Moscow at the Physico-Mathematical Institute of the Academy of Sciences (P.M. I.) in December 1968 was attended by representatives of the principal scientific centers of the USSR and of several other countries. This collection contains most of the reports presented at the conference and summarizes all the discussions that followed. The reports in this collection deal with theoretical properties, losses, and polarization, and with specific indicative experiments of various crystals, chemical compounds and ceramics. Photoelectric effects, ferroelectric crystals, and various relations and irradiation effects on dielectrics are investigated. The volume contains a list of other papers presented at the conference dealing with polarization losses, and a bibliography of dielectrics which were published in the journal *Izvestiya AN SSSR, Seriya fizicheskaya*, No. 1 and 2, 1969. To personalities are mentioned. References accompany each report.

Alexandrov, L.A., K.Ye. Lisker, and I.D. Fridberg. Temperature Dependence
of Certain Ion Dielectric

Specialty Inductive Capacitance and Dielectric Losses of Some
Ceramic Materials in Strong High-Frequency Electric Fields at High Temperature
[Siberian Physico-technical Institute, Novosibirsk] (Siberian Physics and Technical
Scientific Research Institute, Tomsk)].

Discussion

on the Problem of the Static Specific Inductive Capacitance of Heterogeneous Dielectrics [Voronishkiy, sel'skhozgostevnyy institut (Voronesh Agricultural Institute)]

Arkhangel'skiy, K.V. Dielectric Parameters of Double Liquid Systems in the Physical Region [Voronezh Agricultural Institute]

Acoustic Dispersion Observed in Some Dielectrics at Audio Range [Varanasi Agricultural Institute]

Parnas, Ya.H., and K.I. Lebedeva. Dielectric Properties of Heterogeneous Dielectrics at Super-High Frequencies.

Discussion

Ushakov, O. P., and A. N. Lobachev. Study of α and γ in Polymers as a Function of Temperature at Superhigh Frequencies [Institute of Molecular Physics Academy of Sciences of USSR, Leningrad (Institute of High Molecular Compounds, USSR Academy of Sciences, Leningrad)]

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Department of Energy
Nuclear Energy Research Institute (NERI)
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polymeric

Elements of the Dynamic Theory of Thermal Phenomena in

Alkopy, I. B., A. Krasopolsky, Yu. G. Orlov and V. V. Parygin. On the Development of Diodes in an Electric Field [unpublished electrochemistry abstract in V. V. G. Pavlov (Leningrad) Leningrad Electrochemical Institute and V. I. M. Yarnov (Leningrad)]

mitrobenko, D.A., and V.A. Shevelov. Use of Coated

STRUCTURAL ORDER Dielectric losses and specific inductive capacitance in relation to temperature [Institute of High Molecular Compounds, Academy of Sciences USSR, Leningrad]

130
Photoelectrode and the Electrophotographic
Institute of the USSR Academy of Sciences (Moscow)

Obektin, A.N.; and Y.P. ~~Selez'nyuk~~ On Charge Stability of Inorganic Electrodes
N.V. Kuznetsov Institute of Electrodynamics, P.N. Lebedev, AS USSR, Moscow

S/032/62/028/002/028/037
B124/B101

AUTHORS: Mikhaylov, G. P., Shevelev, V. A., and Dmitrochenko, D. A.

TITLE: Device for measuring dielectric losses and dielectric constant of solid polymer dielectrics

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 234-236

TEXT: ϵ' and $\tan \delta$ can be measured in a wide temperature range with a setup based on the standard measuring device. The measuring circuit was connected with the standard-signal generator ГСС-17 (GSS-17) through attenuator АС-1 (AS-1) and УР-1А (UR-1A) or УР-2 (UR-2) broad-band amplifier. The measuring amplifier 28НМ (28EM) was used as resonance indicator. The resonance frequency was checked with a УВР- (UVR) wavemeter. The first modification of the measuring circuit, shown in Fig. 1,a, is designed for use in a wide temperature range. The dielectric sample is placed into the gap of measuring capacitor 2 containing no mobile electrodes. Insulation 3 is made of a high-frequency ceramic material. Thermostat 5 ensures constant temperature of loop 6, induction coil 7, detector crystal 8, and screen 9. The second modification, shown Card 1.2/ ✓

Device for measuring dielectric losses ... S/032/62/028/002/028/037
B124/B101

in Fig. 1,6, is designed for measurements at room temperature, with trimming condenser 10 being as close as possible to the gap of the measuring capacitor, thereby permitting accurate measurement of the sample capacitance. Plane parallel sample disks with a thickness of 0.001 to 0.005 mm in excess of that of the gap between the electrodes were used, the diameter of which was calculated from $D_0 \ll D - 1.14d$, where D_0 is the diameter of the sample, D is that of the electrodes, and d is the thickness of the sample. With the first modification, ϵ' is found from the change of resonance frequency after the introduction of the sample into the gap of the measuring capacitor, i. e., from $\epsilon' = (C_n/C_0) \left[(f_1/f_2)^2 - 1 \right] + (f_1/f_2)^2$;

$$\tan \delta = \left[1 + (C_n/\epsilon' C_0) \right] \cdot \left[(1/Q_2) - (1/Q_1) \right]; C_0 = D_0^2/16d, \text{ and } C_n = C - C_0,$$

where C is the total capacitance of the circuit, f_1 and f_2 are the resonance frequencies in the absence and presence of the sample, Q_1 and Q_2 are the efficiencies of the circuit in the absence and presence of the

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Device for measuring dielectric losses ...

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sample at the frequency f_2 . By comparison with a standard polyethylene sample C_n/C_0 was found to be about 10. For the second modification, $\epsilon' = (\Delta C/C_0) + 1$, and $\tan \delta = \frac{(\Delta C_2 - \Delta C_1)}{2(\Delta C + C_0)}$, where ΔC is the change of total capacitance of the circuit with the sample introduced; ΔC_1 and ΔC_2 are the capacitances corresponding to the width of the resonance curve of the circuit in the absence and presence of the sample. Corrections are made for the change of inherent resonance frequency f_1 of the circuit in the absence of the sample, and for its efficiency Q_1 , at high and low temperatures. ϵ' between 2 and 4 and $\tan \delta$ between $5 \cdot 10^{-4}$ and 10^{-1} can be measured with a relative error of less than 2% and 10 to 15%, respectively. The error depends on the dielectric losses in the dielectric. The relative changes due to this factor are less than 1% for ϵ' , and 3 to 5% for $\tan \delta$. Results obtained for the temperature dependence of polyvinyl acetate, polyethylene terephthalate, and polymethyl methacrylate at 40 Mc/sec agree well with experimental data of other authors. There are

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Device for measuring dielectric losses ... S/032/62/028/002/028/037
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2 figures and 9 references: 6 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: ASTM, D150-54T; W. Reddish, Transactions of the Faraday Society, 46, 459 (1950). ✓

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(Institute of High-molecular Compounds of the Academy of Sciences USSR)

Fig. 1. Schematic diagram of the measuring circuits. Legend: (A) water.

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DMITROCHENKO, D.A.

USSR/ Chemistry of High-Molecular Substances

F.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11925

Author : Mikhaylov G.P., Borisova T.I., Dmitrochenko D.A.

Title : Dielectric Relaxation Losses in Polymethacrylate

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 9, 1924-1928

Abstract : In the frequency range of 12-80 hertz and the temperature interval of 17-120°, an investigation was made of dielectric losses of plasticized and unplasticized polymethylmethacrylate. Measurements were made by means of a Schering bridge, adapted for carrying out measurements in the above-stated frequency region. The results obtained show that frequency changes within the above-stated limits affect only the position of the region of $\text{tg } \delta'$ maximum of the glassy state; a shift of the region of $\text{tg } \delta''$ maximum of highly-elastic state is not observed. Addition of plasticizer affects only orientation processes of high temperature relaxation. The authors consider that losses at high temperatures are dipole-elastic, and those at low temperatures are of dipole-radical nature. Absolute values

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USSR/ Chemistry of High-Molecular Substances

F.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11925

of losses in the glassy state are substantially higher. The authors are of the opinion that dipole losses of both regions are due to the orientation of the dipole of group $O=C-OCH_3$; in the elastic state movement of the carbon chain inhibits free movement of these groups; on transition to the glassy state, wherein the principal chains become stationary while packing density remains unchanged, the polar groups can follow the field more readily. Thus the mobility of polar groups remains high on transition to a glass and therefore $tg \delta$ has herein a higher value, in contrast with the situation that is observed in the case of mechanical losses, wherein segmental movement of the chain plays the primary role. High mobility of polar groups explains, according to the authors, the good qualities of polymethylmethacrylate as an organic glass of low brittleness.

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28(5)

SOV/32-25-9-36/53

AUTHORS: Dmitrochenko, D. A., Lobanov, A. M., Mikhaylov, G. P.,
Shevelev, V. A.

TITLE: Apparatus for Measuring Dielectric Losses and the Permeability
of Solid Dielectrics

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 9, pp 1121-1124(USSR)

ABSTRACT: The angles of dielectric losses $\text{tg } \delta$ and the dielectric
constant ϵ within the range of decimeter waves are at present
being measured according to two methods - 1) of the coaxial
line, 2) of the coaxial resonator (CR) (Refs 1-5). The available
constructions of (CR) do not, however, allow measurements
within a wide temperature range. A (CR) has been designed,
which allows measurements of the values $\text{tg } \delta$ and ϵ within a
rather wide temperature range. The (CR) consists of a brass
cylinder with two covers, the inner rod being soldered with
silver to the inner side of the lower cover. The supports
and connecting tubes of the (CR) to the generator and detector
are mounted opposite each other on the side walls. The inside
surfaces of the (CR) are all silver-plated and polished. The
Q-factor of the (CR) attains the value 6800, with a theoretical
Q-factor of 10,000. From the block diagram of the system
(Fig 2) it can be seen that the (CR) is connected via an ab-

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 Apparatus for Measuring Dielectric Losses and the Permeability of Solid Dielectrics

sorption-attenuator (with attenuation - 20 decibels) to a generator of type GSS-12 (frequency range 180-1000 megacycles). An amplifier 20-IM is used as indicator. Temperature was measured according to an already described method (Ref 9). The method of calculation to determine the values $\tan \delta$ and ϵ is described and measurement results concerning the temperature function of these values, gathered from samples of molten quartz and polytetrafluoro ethylene (Fig 3), are quoted. The results show that the described determination method is suitable for the examination of polymer dielectrics, in which $\tan \delta$ reaches magnitudes of 10^{-2} . There are 3 figures and 10 references, 5 of which are Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
 (Institute for High Molecular Compounds of the Academy of Sciences, USSR)

Card 2/2

DMITROCHENKO, D.A.; LOBANOV, A.M.; SHEVELEV, V.A.

Apparatus for measuring the temperature dependencies of the dielectric constant ϵ' and dielectric loss ϵ'' . Zav.lab. 29 no.12:1495-1497 '63.
(MIRA 17:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

40840

S/535/62/000/147/006/010
1011/1211

AUTHOR: Dmitrochenko, L. A., Engineer

TITLE: To the design of accelerometers with force compensation

SOURCE: Moscow. Aviatsionnyy institut. Trudy, no. 147, 1962. Navigatsionnyye i giroskopicheskiye ustroystva, 51-61

TEXT: In the force compensation type transducers the measured non-electric variable is first transformed into a mechanical one (force, torque) and then counter-balanced by a force created by the feedback device. A magneto-electric feedback device creates a linear current characteristic. It is called an "electric spring". Force compensation type transducers are used nowadays for pressure, angular velocities, and angular and linear accelerations measurements. And yet some problems of their theory and design are not developed. In particular, no attention has been paid to finding the relation between the construction parameters of the magneto-electric mechanism and the basic static and dynamic characteristics of the transducer. These relations are clarified on the example of a transducer of linear accelerations. A current proportional to the displacement of the moving part is injected into a coil rigidly fixed to this moving part and placed in a homogeneous constant magnetic field. The resultant force counter-balances the force that caused the displacement. The transfer function of this transducer is of the second order. The frequency of its self-oscillations, its degree of damping and its static sensitivity are determined as functions of the construction parameters of the feedback

Card 1/2

To the design of accelerometers...

S/535/62/000/147/006/010
I011/I211

coil. It is shown that the force developed by the feedback coil is proportional to the square root of the power dissipated in it. The lower limit of this power (which depends on the dry friction of the coil) is found. To make this limit as low as possible the weights of the coil frame and the moving part of the displacement transducer are to be minimized; the air-gap magnetic induction is to be increased; the friction coefficient is to be decreased; the feedback coil is to be wound of a low specific weight wire.

The problem of damping is then investigated. It is shown that the damping caused by the counter-e.m.f. induced in the coil by its motion in the magnetic field can bring about in the best case 5 to 10 per cent of the needed damping. The best way of increasing the damping without increasing the power dissipated in the coil is by adding on its frame another coil that provides a voltage proportional to the velocity of the moving part of the accelerometer. This voltage is amplified by an additional amplifier the output of which is added to the input to the feedback coil. The diameter of the wire in the two coils strongly influences the damping. This method of damping complicates the system and increases the dynamic error by the additional amplifier drift. There are 4 figures.

Card 2/2

DMITROFCHENKO, O.A.

USSR/Cultivated Plants - Grains

M-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1484

Author : I.G. Troitskiy, O.A. Dmitrofchenko

Inst : Not Given

Title : Which Wheat - Summer or Winter - Should be Sown on Clean Fallow Lands?

Orig Pub : Zemledeliy, 1956, No 9, 14-21

Abstract : Tests at the Kamyshinskaya selection station (from 1948 to 1951) have shown the non-expediency of using fallow lands for the purpose of sowing summer wheat in the chestnut soil zone of the Northern part of Stalingradskaya Oblast'. The fallow lands should be used for winter rye or wheat. Thus, for the years 1949 - 1951 the average winter rye on black fallow land produced a yield of 11.2 centners per hectare, winter wheat 10.1 centners per hectare, summer wheat 9.7 centners per hectare (on black fallow).

Card : 1/1

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PLEASE I BOOK KODLO TYA...

3001/27

Маслов, Анатолий Иванович Старо Орловский

(Problems in the Design of Aviation Instruments and Control Systems) Collection of Articles) Moscow, Gostoptech, 1960. 157 p. (Berliner: Int. Tech. 720). Extra copy inserted. 3,650 copies printed.

Administrato vyshego i srednego spetsial'nogo obrazovaniya.

Ko. (title page): B. A. Rybov, Doctor of Technical Sciences, Professor,
Ed. (Inside book): V. M. Tokar', Tech. Ed.: V. I. Oreshkin; Managing
Ed.: A. B. Zaymovskiy, Engineer.

and: A. S. Kuznetsov, Engineer.

REVIEW: This book is intended for engineers and technicians working in the planning and design of devices and control systems and can also be used by students in the electromechanical departments of schools of higher technical education.

[illegible]

STATE OF CONNECTICUT

Handy, H.J., Jr. 20-Y. Annals. On a Method of Modelling the Drive Engines of Low-Power Alternating Current Generators

Transferring Device for Transferring
Materials from a Moving Object to a Recording Device

Rejzinyan, L. I. Radiostaticoscopic Method of Measuring Flying Altitude 31

Advisable Design Device

McTearhead, L.A. Together With Temperature Reading Correctness 122

ANALYSIS OF DYNAMIC ERRORS OF MEASURING DEVICES HAVING A NONLINEAR ELASTIC ELEMENT

Poljak, T. H. On the Operation of Membranes in Power Systems 133

RE/EL/CI

AC/PA/PA
9-22-60

DMITROV, D.D. (g.Sofiya, Narodnaya Respublika Bolgariya)

Simple radio receivers using one triode. Radio no.4:48 Ap '60.
(MIRA 13:8)

(Radio--Receivers and reception)

VALETOV, V.V.; VESNIK, M.I.; GONCHAROV, I.S.; DMITROV, D.V.; LUNEV, A.A.;
MOKIN, M.I.; NESTEROV, S.N.; SMIRNOV, V.P.; ALEKSEYEV, S.A., re-
tsenzent; KARKAZOV, A.G., retsenzent; KONDRATOVICH, V.M., retsen-
zent; LEVIN, B.M., retsenzent; MALIKOV, A.N., retsenzent; SEGAL-
VICH, S.M., retsenzent; SHPAGIN, A.I., retsenzent; SHTERN, L.T.,
retsenzent; YAKOBI, A.A., retsenzent; TIKHANOV, A.Ya., tekhn. red.;
CHERNOVA, Z.I., tekhn. red.

[Establishing norms for the consumption of materials in machinery
manufacture; manual] Normirovanie raskhoda materialov v mashino-
stroenii; spravochnik. Pod red. V.V.Valetova. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry. Vol.1. 1961. 583 p.
(MIRA 15:2)

(Machinery industry)

DMITROV, G.

Teleskop i prinaldlezhnosti k nim /Telescope and accessories for it/. Moskva,
Gostekhizdat, 1947. 308 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

DMITROV, K.

Razbitie transporta v Bolgarii. [/The development of transportation in Bulgaria/.
(Sots. transport, 1940, no. 10, p. 80-84).

DLC: HE7.S6

Transport v stranakh novoi demokratii na pod"eme. (Rumyniia, Bolgariia, IUGoslaviia). [/Transportation in the countries of the new democracy on the rise/.

DLC: HE7.Z5

Vosstanovlenie transporta v demokraticheskoi IUGoslavii. [/Reconstruction of transportation in democratic Yugoslavia/. (Zhel-dor. transport, 1946, no. 10, p. 86-88).

DLC: HE7.Z5

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

DMITROV, K., kand.ekon.nauk

Bulgarian scholar on economic relations between the two systems
"Economic relations between socialist and capitalist countries"
by E.G. Kamenov. Reviewed by K. Dmitrov). Vnesh. torg. 41 no.1:
40-41 '61. (MIRA 14:1)

(International economic relations)
(Kamenov, E.G.)

DMITROV, S.

Study group and laboratory. Prof. tekhn. obr. 21 no.11:22-23
N '64 (MIRA 18:2)

1. Zamestitel' direktora po uchebno-proizvodstvennoy rabote
Nizhn'-Tagil'skogo professional'no-tekhnicheskogo uchilishcha
No.46.

DMITROV, Serafim Aleksandrovich, zasl. uchitel' proftekhobrazovaniya RSFSR; TIKHONOVA, N.V., red.

[Training of electricians in the field of control and measuring instruments and automatic control] Podgotovka elektroslesarei po kontrol'no-izmeritel'nyim priboram i avtomatike. Moskva, Vysshaya shkola, 1964. 73 p.
(MIRA 18:3)

1. Zamestitel' direktora professional'no-tekhnicheskogo uchilishcha No.46 Nizhnego Tagila (for Dmitrov).

VLASOV, K.F., kand. med. nauk, polkovnik meditsinskoy sluzhby;
DMITROV, V.S., podpolkovnik meditsinskoy sluzhby

Recurrent myocardial infarcts in elderly persons. Voen.
med. zhur. no.10:15-17 0 '65. (MIRA 18:11)

VLASOV, K.F., kand.med. nauk; SHUL'TSEV, G.P., doktor med. nauk; IMITROV,
V.S. (Moskva)

Intramuscular administration of strophanthin and corglycon in
circulatory insufficiency in patients with coronary disorders.
Sovet. med. 26 no.5: 18-22 My'63 (MIRA 17:1)

1. Iz Tsentral'nogo voyennogo Krasnoznamennogo gospihalya imeni
P.V. Mandryka (Nachal'nik zasluzhenny vrach RSFSR N.M.Nevskiy).

DMITROCHENKO, L.A., insh.

Tachometer with temperature correction of readings. Trudy MAI
no.120:122-129 '60. (MIRA 13:9)
(Tachometer)

85-57-12-8/29

AUTHOR: Dmitrov, M., Master of Sports (Minsk)

TITLE: How to Control a Slotted Parachute (Kak upravlyat' shchelevym parashyutom)

PERIODICAL: Kryl'ya rodiny, 1957, Nr 12, p 7 (USSR)

ABSTRACT: The author refers to an article dealing with the control of a slotted parachute, published in Kryl'ya rodiny, Nr 4 [1957]. He comments on some shortcomings of the model T-2 slotted parachute, and discusses tactics to be used in parachute jumps. He mentions Yuriy Peklin, pilot-parachutist, Master of Sports.

AVAILABLE: Library of Congress

Card 1/1 1. Parachute jumping

DMITROV, NIKOLAY, doktor (Bolgariya).

Controlling rabies among animals in Bulgaria. Veterinariia 34
no.1:83-86 Ja '57. (MLRA 10:2)

1. Zamestitel' nachal'nika Upravleniya zhivotnovodstva i
veterinarnogo dela.
(Bulgaria--Rabies)

DMITROV, V.S.

Technical education in boarding schools. Politekh. obuch. no.5:14-22
My '58. (MIRA 11:5)

1.Nauchno-issledovatel'skiy institut pedagogiki USSR.
(Ukraine--Technical education)

DMITROV, V.S.

Employment of graduates of general secondary schools in rural districts. Politekh. sbuch. no.10:20-21 O '58. (MIRA 11:11)

1. Nauchno-issledovatel'skiy institut pedagogiki USSR.
(Labor supply)

DMITROV, V.S.

Educational principles of industrial training. Politekh.obuch.
no.1:9-16 Ja '59. (MIRA 12:2)
(Technical education)

Aerospace Medicine

BULGARIA

DMITROVA, A., Colonel of the Medical Service; Scientific-Experimental Laboratory of Aviation Medicine (Chief Col. K. Kabakchiev)

"Some Characteristics of the Adaptation of Flight Personnel to Darkness"

Sofia, Voenno Meditsinsko Delo, Vol 21, No 5, Oct 66, pp 31-35

Abstract: Adaptation to darkness was studied for 6-7 years on the flight personnel of VVS and TABSO. Tests with a Kravkov-Vishnevskiy chamber were carried out on 590 persons 20-40 yrs old. An increase in the time of adaptation with age was found: the average time of adaptation was 15-20, 20-25, and 30 sec for the groups with an age up to 25, 35, and 40 yrs, respectively. This increase did not present a problem in view of the upper permissible limit of 55 sec. Consumption of alcohol increased the time of adaptation considerably. The existence of a seasonal variation with a minimum on the adaptation curve in the winter, as reported by URRS investigators (P. P. Lazarev, A. Gamburtseva et al), was not confirmed by the results obtained. As shown by the tests, the time of adaptation was lower in the winter than in the summer.

1/2

IGNATENKO, N.; DMITROVA, N.

Readers' letters. NTO 5 no.2:29-30 F '63.

(MIRA 1613)

1. Predsedatel' Belgorodskogo oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva pishchevoy promyshlennosti (for Ignatenko).
2. Zamestitel' predsedatelya Volgogradskogo oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva neftyanoy i gazovoy promyshlennosti (for Dmitrova).

(Technological innovations)

DMITROVA, N. A.

DMITROVA, N. A.

"Efficacy of Ultraviolet Treatment of Erythema in Children with Rheumatism."
Khar'kov Medical Inst, Khar'kov, 1955. (Dissertation for the Degree of
Candidate of Medical Sciences)

SO: M-972, 20 Feb 56

LEVITUS, Ye.L., DMITROVA, N.A., YASNAYA, L.V.

Functional capacity of the cardiovascular system in rheumatic children. Vop.okh.mat. i det. 3 no.6:80 N-D '58 (MIRA 11:12)

1. Iz revmaticheskogo otdeleniya (nauchnyy rukovoditel' Ye.L. Levitus)
Khar'kovskogo nauchno-issledovatel'skogo instituta Okhrany materinstva
i mladenchstva imeni N.K. Krupskoy (dir. kand.med.nauk A.I. Kornilova).
(RHEUMATIC FEVER)
(CARDIOVASCULAR SYSTEM)

DMITROVA, N.A. [Dmytrova, N.A.], kand.med.nauk

Late results of ultraviolet erythemotherapy for children with rheumatic fever. Ped., akush. i gin. 20 no.1:25-27 '58. (MIRA 13:1)

1. Revmaticheskoye otdeleniye nauchnyy rukovoditel' - starshiy nauchnyy sotrudnik Ye.L. Levitus) otdela profilaktiki i terapii detskikh bolezney Khar'kovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i detstva im N.K. Krupskoy (direktor - kand.med.nauk O.I. Kornilova).
(ULTRAVIOLET RAYS--THERAPEUTIC USE) (RHEUMATIC FEVER)

DMITROVA, O.A.

KLEYMAN, G.N.; ANTONOVA, A.S.; DMITROVA, O.A. (Odessa)

Treatment of lupus tuberculosis. Vrach.delo supplement '57:21-22
(MIRA 11:3)

1. Ukrainskiy lyupozoriy.
(LUPUS)

DMITROVIC, A.

Koncar-Durdevic, S. Dmitrovic, A.

"A simple adaptation of Lange's universal colorimeter for colorimetric analysis of solid planes in diffused reflected light." p. 297.
(Glasnik, Vol. 17, no. 5, 1952, Beograd.)

SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September 1953. ^Unc1.

DZMITROVICH, A. D., kandidat tekhnicheskikh nauk; PETROV, L., redaktor;
TRUKHANOVA, A., tekhnicheskiiy redaktor

[Increasing the productivity and economy of brick kilns and drying
apparatus] Povyshenie proizvoditel'nosti i ekonomichnosti kirpiche-
obzhigatel'nykh pechei i iskusstvennykh sushilok. Minsk, Gos. izd-
vo BSSR, 1956. 50 p. (MLRA 9:9)
(Kilns)

DMITROVICH, A. D.

USSR/Chemical Technology - Chemical Products and Their Application. Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62308

Author: Dmitrovich, A.

Institution: None

Title: Intensification of Brick Firing Process

Original

Periodical: Stroit. materialy, izdeliya i konstruktsii, 1956, No 2, 31-32

Abstract: Considered are equations for the computation of temperature drops occurring on heating of bricks and calculations of the time necessary for equalization of temperature throughout the brick cross-section. It has been found that on use of the method of surface overheating, the duration of temperature equalization is 4-6 times shorter than with constant surface temperature. On raising the rate of heating from 100 to 200°/hour duration of process increases 1.3-1.6 times. To intensify the firing process it is recommended to use charge of least thickness to be heated.

Card 1/2

.USSR/Chemical Technology - Chemical Products and Their Application. Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62308

Abstract: Presented are changes in temperature conductivity coefficient of
Minsk clays during thermal treatment.

Card 2/2

DMITROVICH, A.^{D.}, kand.tekhn.nauk.; LOSKAT, F., inzh. BASHLAKOV, V., inzh.

~~www.scribd.com~~ Efficient method for thermal blocking of kilns and dryers.

Stroi. mat. 4 no.1:21-23 Ja '58.

(MIRA 11:2)

(Kilns, Rotary) (Drying apparatus)

DMITROVICH, A.D.; ZAYCHIKOVA, E.A., red. izd-va; KASIMOV, D.Ya.,
tekhn. red.

[Determining the thermophysical properties of building
materials] Opređenje teplofizicheskikh svoistv stroitel'-
nykh materialov. Moskva, Gosstroizdat, 1963. 202 p.
(MIRA 16:7)

(Building materials--Thermal properties)

DMITROVICH, Aleksandr Dem'yanovich; SLEPTSOVA, Ye., red.; DOMOVSKAYA, G.,
tekhn. red.; STEPANOVA, N., tekhn. red.

[Heat-insulation properties of building materials and elements]
Teplozashchitnye svoistva stroitel'nykh materialov i konst-
ruktsii. Minsk, Izd-vo "Belarus'," 1963. 210 p.
(MIRA 17:3)

DMITROVICH, A. I., Engineer Cand Tech Sci

Dissertation: "Investigation of the Wear Resistance
of Aluminum-base Metal Coatings in Application to the
Bearings of Rolling Stock."

31/5/50

Moscow Order of the Labor Red Banner Electromechanical
Inst of Railroad Engineers imeni F. E. Dzerzhinskiy

SO Vecheryaya Moskva
Sum 71

DMITROVICH, A.M.; GORANSKIY, G., redaktor; TRUKHANOVA, tekhredaktor

[Basic principles for metal workshop practice] Osnovnye svedeniia
po slesarnoi obrabotke metallov. Minsk, Gos.izd-vo BSSR red.
nauchno-tekhn. lit-ry, 1954. 136 p. (MLRA 8:4)
(Machine-shop practice)

DMITROVICH, A.M.; GORANSKIY, G., redaktor; STEPANOVA, N., tekhnicheskiy redaktor.

[Metals in machine building] Metally v mashinostrdenii. Minsk.
Gos.izd-vo BSSR, 1956. 166 p. (MLRA 9:6)
(Metals) (Machinery industry)

DMITROVICH, A.M., dotsent, kand.tekhn.nauk

Department of Mechanical Engineering. Sbór.nauch.trúd.Bel.politekh.
inst. no.66:19-27 157. (MIRA 16:9)

1. Dekan mekhanicheskogo fakul'teta Belorusskogo politekhnicheskogo
instituta imeni Stalina.

PHASE I BOOK EXPLOITATION

1157

Dmitrovich, A.M.

Tekhnologiya metallizatsii raspyleniyem (Technology of Metal Spraying) Minsk, Gosizdat, BSSR, 1958. 195 p. (Series: Bibliotekha rabocheho mashinostroitel'ya) 3,000 copies printed. Ed.: Kashtanov, F.; Tech. Ed.: Slavyanin, I.

PURPOSE: The book is intended to acquaint readers with the types, purposes, and methods of metal spraying and with various related data.

COVERAGE: The book deals with the basic principles of the spraying process, the properties of sprayed-metal coatings, spraying equipment, planning the spraying department, spraying methods, further finishing of sprayed surfaces, and safety techniques. No personalities are mentioned. There are 35 references, all Soviet.

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AVAILABLE: Library of Congress (TS655.D55)		

GO/mfd
2-11-59

Card 5/5

DMITROVICH, A.M., kand.tekhn.nauk

Some aspects of methodological work in a fawllly. Sbor. metod.
rab. Bel. politekh. inst. no. 1:119-127 '59. (MIRA 14:1)
(Technical education)

DMITROVICH, Anatoliy Mikhaylovich; KASHTANOV, F., red.; STEPANOVA, N.,
tekhn.red.

[Fundamentals of machine-shop practices] Osnovy slesarnoi obra-
botki metallov; vtoroe dopolnennoe izdanie. Minsk, Gos.izd-vo
BSSR. Red.nauchno-tekhn.lit-ry, 1960. 221 p.

(MIRA 13:12)

(Machine-shop practice)

YAKOVLEV, Nikolay Feofilovich; DMITROVICH, A.M., kand. tekhn. nauk, red.;
KASHTANOV, F., ved. red.; BELEN'KAYA, I., tekhn. red.

[Soldering, tinning, and electrolytic coating] Paika, luzhenie i
gal'vanicheskie pokrytiia. Pod red. A.M.Dmitrovicha. Minsk,
Gos.izd-vo BSSR, Red. proizvodstvennoi lit-ry, 1962. 146 p.
(Bibliotekha slesaria, no.3) (MIRA 16:2)
(Solder and soldering) (Tinning) (Electroplating)

DMITROVICH, Anatoliy Mikhaylovich; KASHTANOV, F., red.;
YERMOLENKO, V., tekhn. red.

[What a mechanic should know about metals and materials]
Chto nuzhno znat' slesariu o metallakh i materialakh.
Minsk, Gos.izd-vo BSSR, 1962. 156 p. (MIRA 16:10)
(Metals) (Materials) (Ceramic metals)

DMITROVICH, Anatoliy Mikhaylovich; KASHTANOV, F., red.; DOMOVSKAYA, G.,
tekh. red.

[Preparatory and fitting benchwork] Zagotovitel'nye i prigonoch-
nye slesarnye raboty. Minsk, Gos.izd-vo BSSR. Redaktsiia pro-
izvodstvennoi lit-ry, 1962. 166 p. (Bibliotekha slesaria, no.2)
(MIRA 16:3)

(Machine-shop practice)

BEL'SKIY, Ye.I., dots., kand. tekhn. nauk; DNITROVICH, A.M., dots.,
kand. tekhn. nauk; INTYAKOV, N.G., dots., kand. tekhn. nauk;
KAZACHENOK, V.I., dots., kand. tekhn. nauk; CHAYKA, V.A.,
dots., kand. tekhn. nauk; BOBRYAKOV, G.I., kand. tekhn. nauk,
retsenzent; KHUDOKORMOV, D.N., kand. tekhn. nauk, retsenzent

[Technology of the hot-working of metals] Tekhnologiya gorja-
chei obrabotki metallov. [By] E.I. Bel'skii i dr. Minsk,
Izd-vo M-va vysshego, srednego spetsial'nogo i professional'-
nogo obrazovaniia BSSR, 1962. 295 p. (MIRA 15:10)

1. Nauchno-issledovatel'skiy tekhnologicheskii institut avto-
mobil'noy promyshlennosti, Minskiy filial (for Bobryakov,
Khudokormov).

(Forging)

(Founding)

(Welding)

DMITROVICH, Anatoliy Mikhaylovich; KASHTANOV, F., red.; KARPINOVICH, Ya.,
tekh. red.

[Hole machining and threaded joints] Obrabotka otverstii i
rez'bovye soedineniia. Minsk, Gosizdat BSSR, 1963. 149 p.
(Bibliotekha slesaria, no.5) (MIRA 17:1)

KOROLEV, Vitaliy Arkad'yevich; DMITROVICH, A.M., kand. tekhn.
nauk, red.; KASHANOV, F., red.

[Mechanization of benchwork] Mekhanizatsiia slesarnykh
rabot. Minsk, Izd-vo "Belarus'," 1964. 176 p. (Bib-
liotechka slesaria, no.6) (MIRA 18:1)

ARKHIPOV, Grigoriy Sergeyevich; BARANOV, Oleg Aleksandrovich;
PODOBEDOV, Aleksey Nikiforovich; TIKHOMIROV, Ivan
Nikolayevich; DMITROVICH, A.M., kand. tekhn. nauk, nauchn.
red.

[Semicontinuous casting of cast-iron pipes] Polunepreryv-
naia otlivka chugunnykh trub. Minsk, Nauka i tekhnika,
1965. 91 p. (MIRA 18:3)

KULIKOV, F.A., inzh.; MEL'NIKOVA, N.M., inzh.; DMITROVICH, N.A., inzh.

Faulty instructions for gas-generator operators. Bezop.
truda v prom. 4 no.7:35 JI '60. (MIRA 13:8)
(Gas producers--Safety measures)

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S/133/61/000/001/006/016

A054/A033

18.3200

AUTHORS: Sakharuk, P.A., Candidate of Technical Sciences; Dmitrovskaya, G.D.,
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TITLE: Decarbonization of Ferrochrome in Converters by Blowing Oxygen

PERIODICAL: Stal', 1961, No. 1, pp. 40 - 42

TEXT: Based on the chemical reactions of the decarbonization of ferrochrome with oxygen blown into the converter, the TsNIIChM established the technology for this process consisting of three phases: First phase: blowing oxygen through the metal, heating the metal above 1,700°C and accumulation of oxides in the converter; second phase: blowing oxygen into the converter over the metal, resulting in the oxidation of the main carbon mass, until a carbon content of 1.0 - 1.2% is attained with heating to 1,750 - 1,800°C; third phase: producing a vacuum in the bath and blowing a smaller amount of oxygen into the converter, while the carbon content is reduced to 0.2 - 0.5%. The converter is in the same position as in phase 2 but it is covered with a vacuum chamber. The technology has been tested on 4-ton castings in the Chelyabinskiy zavod ferrosplavov (Chelyabinsk Ferroalloy Plant) and the optimum conditions for the three phases have been de-

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terminated as follows:

	I	II	III
Phase			
Time, min	20 - 30	50 - 70	50 - 60
Oxygen consumption, m ³ /ton	50	40	10

In the Chelyabinsk Ferroalloy Plant optimum results were obtained with carbon containing ferro-chromium having a Si-content of 1.5 - 2.0%. At a lower Si-content (under 1%) the converter gradually fills up with slag (containing up to 80% Cr₂O₃) with a Si-content above 2.5%, however, the lining, consisting of melted magnesite is corroded by the slag, containing 20 - 30% SiO₂. The chromium yield after oxygen blowing amounted to about 75 - 80%. When establishing the industrial scale technology the most difficult items were: the construction of the tuyère which had to stand the oxygen blast into the metal, the suitable lining for temperatures above 1,800°C and the vacuum equipment. The best results were obtained with copper tuyères, 20 - 25 mm in diameter, with 22 - 24% water sprinkled into the oxygen blast. The most suitable lining was designed by the Vsesoyuznyy nauchno-issledovatel'skiy institut ogneuporov (All-Union Scientific Research Institute of Refractory Materials) in Kharkov with the cooperation of Ye.V. Ivanov et al., in the form of melted magnesite bricks. Giprostal' designed a converter for this

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Decarbonization of Ferrochrome in Converters by Blowing Oxygen

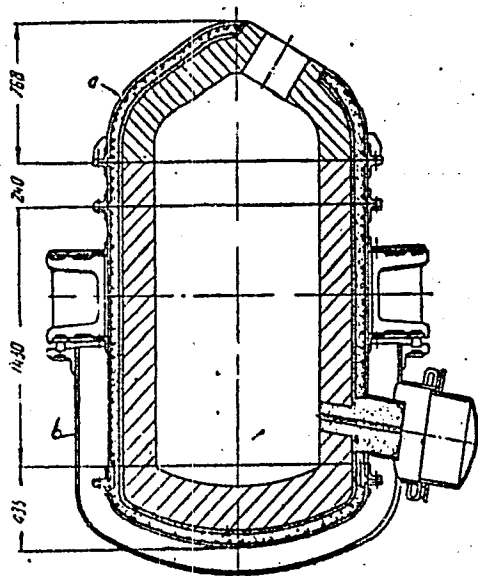
process with a capacity of 1.65 m³, for blowing 4 tons of ferrochromium, with two casings: one with a basic lining for the melting and an outer casing for the vacuum process (Fig. 2). The method has been introduced in the Aktyubinskiy zavod ferrosplavov (Aktyubinsk Ferroalloy Plant) by October 1958, which produced a metal with a lower Si-content (less than 1.0%) than in the Chelyabinsk Plant. The method applied was also different. The converter was lined with periclase-spinel-lime brick, 230 mm thick, which is rapidly corroded by slag when blowing ferrochromium with a Si-content above 1.5 - 2.0%. This plant, therefore, uses ferrochromium containing not more than 1.0% Si, which, however, results in an increase in chromium cinder. With this lining about 80 meltings can be carried out. This is still not sufficient and attempts are being made to produce a lining good for at least 100 meltings, preferably from melted magnesite. When melting ferrochromium with a higher (6.5 - 8.0%) carbon content, oxidation in the bath starts at a lower temperature, when the metal still is not liquid enough. In this case blowing has to be carried out somewhat slower. In May 1959, the cost of the converter steel produced with this method proved to be 200 rubles lower than the cost of medium carbon ferro-chromium produced by the silico-thermal method. Further improvement can be obtained by using Xp4 (Khr4) grade ferro-chromium with a lower

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Decarbonization of Ferrochrome in Converters by Blowing Oxygen

(4 - 6.5%) carbon content, in which case melting can be accelerated. There are 3 figures and 1 table.

ASSOCIATION: TsNIICHM, Aktyubinskiy zavod ferrosplavov (Aktyubinsk Ferroalloy Plant)

Figure. 2: converter for blowing oxygen into ferro-chromium in vacuum: a - basic casing; b - casing for vacuum treatment.

Card 4/4

DMITROVSKAYA, I.P.

KOROVIN, A.A.; DMITROVSKAYA, I.P.

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226-230 '53. (MLRA 7:8)

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serum)

(IMMUNE SERUMS,
anti-influenza)

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(MIRA 16:2)

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L.S., nauchn. red.; POLETAYEVA, T.G., red.

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stvennogo meditsinskogo instituta im. V.N.Molotova.
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