

VARSHAVSKIY, A.G.

Malignant tumors of the small intestine. Khirurgia 37 no.2:
68-74 F '61. (MIRA 14:1)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. A.G.
Varshavskiy) Altayskogo meditsinskogo instituta.
(INTESTINES--CANCER)

VARSHAVSKIY, A.G., prof. (Barnaul)

Neoplastic leukemia. Klin.med. 39 no.4:132-135 '61.

(MIRA 14:4)

1. Iz Barnaul'skoy gorodskoy bol'nitsy (glavnyy vrach - zas-
luzhennyy vrach RSFSR R.I. Vas'kova).
(LEUKEMIA)

VARSHAVSKIY, A.G., prof.; GUREVICH, P.S.

Pheochromocytomas. Kaz. med. zhur. no.2:69-71 Mr-Apr '62.
(MIRA 15:6)

1. Ul'yanovskaya oblastnaya bol'nitsa (glavnyy vrach - A.P.
Ivanov).

(CHROMAFFIN SYSTEM--TUMORS)

PARNES, V.A.; VARSHAVSKIY, A.G.

Development of leukemia and tumors in an experiment on mice of the
C3HA strain. *Biul. eksp. biol. i med.* 3[1.e.53] no.3:71-76 Mr '62.
(MIRA 15:4)

1. Iz leykoznoy gruppy Instituta epidemiologii i mikrobiologii
imeni pochetnogo akademika N.F.Gamalei (dir. - prof. S.N.Muromtsev
[deceased]) AMN SSSR i iz kafedry patologicheskoy anatomii (zav. -
prof. A.G.Varshavskiy) Altayskogo meditsinskogo instituta.
Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym.
(LEUKEMIA) (TUMORS)

VARSHAVSKIY, A. G.

Combination of leukemia and cancer (three observations). Vop.
onk. 8 no.1:87-92 '62. (MIRA 15:2)

1. Iz gorodskoy bol'nitsy (glav. vrach - zasl. vrach RSFSR R. I.
Vas'kova) g. Barnaula, Altayskogo kraya.

(LEUKEMIA) (CANCER)

VARSHAVSKIY, A.G., inzh.

Rapid methods for manufacturing electrodes. Suggested by A.G.Varshavskii.
Rats. i izobr. predl. v stroi. no.15:63-64 '60. (MIRA 13:9)

1. Po materialam Ukrglavstal'konstruktsii Ministerstv. stroitel'stva
USSR, Dnepropetrovsk. (Electrodes)

GORBACHEV, V.I.; VARSHAVSKIY, A.G.

Reorganization of the A-537 semiautomatic welder for welding metal structures. Avtom.svar. 18 no.1:76-77 Ja '65.

(MIRA 18:3)

VARSHAVSKIY, A.M., inzh.

Grounding high-voltage excavators in open-pit mines of the Dnieper
lignite basin. Izv. vys. ucheb. zav. gor. zhur. no.8:117-120 '60.
(MIRA 13:9)

1. Dnepropetrovskiy gornyy institut im. Artema. Rekomendovana kafedroy
razrabotki rudnykh mestorozhdeniy.
(Dnieper Basin--Strip mining)
(Electricity in mining)

VARSHAVSKIY, A.M., inzh.

Operation of the electric equipment of conveyer bridges in Ukrainian strip mines. Izv. vys. ucheb. zav.; gor. zhur. no.12:31-38 '60.
(MIRA 14:1)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy razrabotki rudynkh mestorozhdeniy Dnepropetrovskogo gornogo instituta.
(Ukraine--Strip mining--Equipment and supplies)
(Electricity in mining)

VARSHAVSKIY, A.M., inzh.

Accidental contact of an excavator with the contact line
of a traction network in a strip mine. Izv. vys. ucheb. zav.;
gor. zhur. no. 5:129-132 '61. (MIAR 14:6)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
institut imeni Artema. Rekomendovana kafedroy gornoy
elektrotekhniki Dnepropetrovskogo ordena Trudovogo Krasnogo Znameni
gornogo instituta imeni Artema.
(Mine railroads--Safety measures)
(Excavating machinery-- Safety measures)

VARSHAVSKIY, A.M., inzh.

Grounding quarry excavators. Bezop. truda v prom. 5 no. 2:20-21
F '61. (MIRA 14:2)

1. Dnepropetrovskiy gornyy institut.
(Excavating machinery--Safety measures)

NOVOZHILCV, I.G., prof., doktor tekhn.nauk; SHAIKOV, A.M., kand.tekhn.nauk;
TARTAKOVSKIY, B.N., gorn.inzh.; VARSNAVSKIY, A.K., gorn.inzh.

Practice in the operation of conveyor bridges for waste dumping
in the lignite open-pit mines of the Dnieper Basin. Ugol' 36
no.2:24-30 F '61. (MIRA 14:2)
(Dnieper Basin--Strip mining) (Mine haulage)

VARSHAVSKIY, Anatoliy Mikhaylovich; PALEY, Boris Zakharovich; LYUBIMOV,
N.G., ~~otv. red.~~; PROZOROVSKAYA, V.L., tekhn. red.

[Manual for pit-mine electricians] Spravochnik elektroslesaria
kar'era. Moskva, Gosgortekhzdat, 1962. 303 p. (MIRA 15:7)
(Electricity in mining--Handbooks, manuals, etc.)

VARSHAVSKIY, A.M., inzh.; DUNAYEVSKIY, Yu.N., inzh.

Geometric parameters of bearing supports of powerful belt conveyors.
Izv. vys. ucheb. zav.; gor. zhur. 5 no.3:119-123 '62. (MIRA 15:7)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
institut imeni Artema. Rekomendovana kafedroy razrabotki
rudnykh i rossypnykh mestorozhdeniy i otkrytykh rabot
Dnepropetrovskogo gornogo instituta.
(Conveying machinery)

KUZNETSOV, B.A., kand.tekhn.nauk; VARSHAVSKIY, A.M., inzh.

Geometric parameters of trucks for mine haulage equipment in open
pits. Vop. rud. transp. no.6:385-409 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads)

VARSHAVSKIY, Anatoliy Mikhaylovich, kand. tekhn. nauk; NOVOZHILOV,
Mikhail Galaktionovich, prof., doktor tekhn. nauk;
LYUBIMOV, N.G., otv. red.; IL'INSKAYA, G.M., tekhn. red.

[Improving the conditions for exploiting heavy-duty,
continuous striping machine units] Sovershenstvovanie re-
zhima ekspluatatsii moshchnykh vskryshnykh kompleksov ne-
preryvnogo deistviia. Moskva, Gosgortekhzdat, 1963. 162 p.
(MIRA 16:10)

(Strip mining--Equipment and supplies)

TARTAKOVSKIY, Boris Nusimovich; VARSHAVSKIY, Anatoliy Mikhaylovich;
SHALIMANOV, Ioasif Petrovich; NURMUKHAMEDOVA, V.F., red.izd-
va; MAKSIMOVA, V.V., tekhn.red.; LOMILINA, L.N., tekhn.red.

[Mechanization of railroad track relocation in open-pit
mines] Mekhanizatsiia peredvizhki zheleznodorozhnykh putei
na kar'erakh. Moskva, Gosgortekhzdat, 1963. 183 p.
(MIRA 16:10)

(Mine railroads--1 track)

VABSHAVSKIY, A. M., kand. tekhn. nauk; ZADOROZHNYI, V. V., inzh.

Repair of continuous action stripping equipment. Met. i gornorud.
prom. no.1:92-95 Ja-F '63. (MIRA 16:4)

1. Dnepropetrovskiy gornyy institut.

(Excavating machinery—Maintenance and repair)

VARSHAVSKIY A.M., kand.tekhn.nauk; DUNAYEVSKIY, Yu.N., inzh.

Wear of the working part of a chain and bucket excavator. Izv. vys.
ucheb. zav.; ger. zhur. 6 no.7:122-131 '63. (MIRA 16:9)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut
imeni Artema (for Varshavskiy). 2. Semenovsk-Golovskiy kar'yer (for
Dunayevskiy).

(Excavating machinery--Testing)
(Mechanical wear)

TARTAKOVSKIY, B.N.; KOVALENKO, A.A.; BARSUKOV, M.I.; VARSHAVSKIY, A.M.

Improving mining technology using a transporter system
of mining with continuous machine units. Izv. AN Kir. SSR.
Ser. est. i tekhn. nauk 5 no.1:51-61 '63. (MIRA 16 :11)

SELYANIN, Vitaliy Georgiyevich, kand. tekhn. nauk; SHOLOMOVICH,
Abram Mikhaylovich, inzh. Primal uchastiye VARSHAVSKIY,
A.M., kand. tekhn. nauk; BOYKO, A.A., retsenzent;
NIKOL'SKIY, V.S., otv. red.; POKROVSKAYA, I.M., red.izd-va;
IL'INSKAYA, G.M., tekhn. red.; PROZOROVSKAYA, V.L., tekhn.
red.

[Reducing labor consuming operations in open pit mines] Sni-
zhenie trudoemkosti rabot na kar'erakh. Moskva, izd-vo
"Nedra," 1964. 213 p. (MIRA 17:3)

SHVERNIK, Aleksandr Mikhaylovich; SOKOLOV, Anatoliy Valentinovich;
POLUBELOV, Aleksey Sergeevich; KISELEV, Georgiy Ivanovich;
BERNSHTEYN, Rafail Lazarevich; SLAVUTSKIY, Samuil Oskarovich;
NEVEL'SHTEYN, Yuriy Grigor'yevich; KONDRATENKO, Leonid
Fedorovich; LASKIN, Anatoliy Aronovich; LUR'YE, Zakhar
Solomonovich; MAKAROV, Vladimir Aleksandrovich; NOVOZHILOV,
M.G., retsenzent; BILLICHENKO, N.Ya., retsenzent; VARSHAVSKIY,
A.M., retsenzent; TARTAKOVSKIY, B.N., retsenzent. Prinimali
uchastiye: ANTONOV, V.A., inzh.; VERBLYUNSKIY, Yu.I., inzh.;
ZEMSKOV, P.F., otv. red.

[Overall mechanization and automatic control in strip mines]
Kompleksnaya mekhanizatsiya i avtomatizatsiya na kar'erakh.
Moskva, Nedra, 1964. 582 p. (MIRA 18:4)

VARSHAVSKIY, A.M., kand. tekhn. nauk

Ways of improving the operating conditions of continuous
mining complexes. Met. i gornorud. prom. no.1:54-56 Ja-F '65.
(MIRA 18:3)

VARSHAVSKIY, A.M., kand. tekhn. nauk; EL'TERMAN, L.M.; LERNER, L.K.

Coupling of high-voltage cab-tire cables. Met. i gornorud.
prom. no.4:76-77 JI-Ag '65. (MIRA 18:10)

VARSHAVSKIY, A.M., inzh.; DUNAYEVSKIY, Yu.N., inzh.

Increasing the productivity of the conveyers of a transporter
bridge. Vop. rud. transp. no.6:43-49 '62. (MIRA 15:8)

1. ~~Semenovsko~~-Golovkovskiy burougol'nyy razrez. 2. Dnepropetrovskiy
gornyy institut (for Varshavskiy).
(Transporter bridges)

VARSHAVSKIY, A.N.

Activating acid and neutral granulated slags. Rats. i izobr. predl.
v stroi. no.95:31 '54. (MLRA 8:7)

1. Upravleniye promyshlennykh predpriyatiy Ministerstva zhilishchno-
grazhdanskogo stroitel'stva USSR. (Brickmaking) (Slag)

TKACHENKO, I.A., inzhener; DIKSHTEYN, Ye.I., inzhener; VARSHAVSKIY, A.R.,
inzhener; GONCHAREVSKIY, A.Ya., inzhener; NIKOLAYEV, A.G., inzhener;
CHERNOGRUD, P.G., inzhener.

Top casting of steel through two stepper tubes. Metallurg no.5:29-32
My '56. (MIRA 9:9)

1.Magnitogorskiy metallurgicheskiy kombinat.
(Smelting)

VARSHAVSKIY, A.P., inzhener; FOTEV, A.N., inzhener.

Mechanization and automatization of steel pouring. Metallurg
no.5:39-40 3 of cover by '56. (MIRA 9:9)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Smelting--Equipment and supplies) (Automatic control)

VARSHAVSKIY, A. P.

137-1958-1-338

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 52 (USSR)

AUTHORS: Agapov, V.F., Varshavskiy, A.P., D'yakonov, A.I.

TITLE: A Study of the Sequence and Rate of Fusion of the Free-flowing Materials in a Basic Open Hearth Furnace (Izucheniye posledovatel'nosti i skorosti plavleniya sypuchikh materialov v osnovnoy martenovskoy pechi)

PERIODICAL: V sb.: Primeneniye radioaktivn. izotopov v chernoy metallurgii. Chelyabinsk, Knigoizdat, 1957, pp 120-134

ABSTRACT: The sequence and rate of interaction of the ore and limestone with pig iron in accordance with level and order of charging was studied in seven heats in 380-t open hearth furnaces by means of isotopes P^{32} , F^{59} , and S^{35} , imbedded in pieces of the loose materials. Appearance of the isotopes in samplings of the metal and slag indicated that the layer of material containing them had liquefied. Curves of the radioactivity of the metal and slag as the heat progresses are adduced. It is noted that the deeper the layer of free-flowing metals, the more time is required to fuse it. The time required for the pig iron and ore to react diminishes as the amount of iron, the speed of charging, and the amount of light-

Card 1/2

137-1958-1-338

A Study of the Sequence and Rate of Fusion (cont.)

weight scrap increase. The mean fusion time of a single layer of ore and limestone in proportion to their level in the bath is determined. A plot is adduced showing the relationship between the time the isotopes appear in the samples and the depth at which they are located. It is established that fusion time is lowest when a single layer of ore is charged onto the hearth and the limestone is in the lowest possible position.

M.Kh.

1. Open hearth furnaces--Performance--Analysis
2. Iron--Production
3. Phosphorus isotopes (Radioactive)--Applications
4. Fluorine isotopes (Radioactive)--Applications
5. Sulfur isotopes (Radioactive)--Applications

Card 2/2

SOV/133-58-10-11/31

AUTHORS: Uziyenko, A.M., Tkachenko, I.A., Varshavskiy, A.P.,
Engineers and Rabinovich, Ye.I., Candidate of Technical
Sciences, Zayakin, B.I., Zarzhitskaya, N.G., Engineers

TITLE: Improvement in the Structure of the Top Part of Rimmed Steel Ingots
(Uluchsheniye struktury golovnoy chasti slitka kipyashchey
stali)

PERIODICAL: Stal', 1958, Nr 10, pp 899 - 905 (USSR)

ABSTRACT: A study of the mechanism of formation of the microstructure of the head part of rimming steel ingots and an investigation of methods of decreasing the height of the concentrated segregation zone are described. The influence of the following factors on the structure of ingots was studied: a) the duration of boiling of the metal in ingot moulds; b) addition to moulds of fluxes, and c) additions onto the top of the metal in the moulds of various deoxidants. Investigations were carried out on heats of steels 08kp, St1, St2 and St3, chemical compositions of which are given in the table. The influence of the duration of boiling of the metal in moulds on the distribution of carbon (A), sulphur (B) and phosphorus (V) along the ingot axis is shown in Figure 2 - that on the indices of mechanical properties (yield point, tensile

Card1/4

SOV/133-58-10-11/31

Improvement in the Structure of the Top Part of Rimmed Steel Ingots

strength and relative elongation) of metal from the head part of the ingots of St3kp steel in Figure 3 and the influence of the duration of boiling with and without the use of deoxidants on the distribution of carbon, sulphur and phosphorus in the axial zone along the height of ingots of St3 steel is shown in Figure 4, changes of mechanical properties of metal from the axial zone along the height of ingots and of rolled plate (with various boiling times and with the application of deoxidants) are shown in Figures 5 and 6, respectively. Variation in the distribution of non-metallic inclusions (SiO_2 , MnO and MnS) in the axial zone along the height of ingots of St3kp steel, with various boiling times and with the application of deoxidants are shown in Figure 7. It was found that in order to obtain dense structure of the top part of ingots of steels with low and higher carbon contents, different methods are necessary. An increase of the duration of boiling in ingot moulds and an addition of fluxes on the surface of metal decrease the depth of the position of axial porosity but improve the distribution of segregating elements and plastic properties of the

Card2/4

SOV/133-58-10-11/31

Improvement in the Structure of the Top Part of Rimmed Steel Ingots

axial zone of the head part of the ingots of low-carbon steels 08kp, St1 and St 2. On prolonged boiling of St3 steel, the structure of the head part of ingots improves but simultaneously its external state deteriorates. The use of deoxidants, e.g. 45% ferrosilicon (0.15 - 0.2 kg/t steel) gives in this case satisfactory results. Ingots deoxidised with ferrosilicon possess dense structure and increased plasticity in the head part. During rolling sheets, no laminations are formed. The use of a prolonged boiling and additions of microgranite for low-carbon rimming steel and killing of St3 steel with ferrosilicon permits decreasing standard crop head of ingots by 3-5% without decreasing the quality of the metal in the top part of ingots. There are 7 figures, 1 table and 3 Soviet references.

Card 3/4

SOV/133-58-10-11/31

Improvement in the Structure of the Top Part of Rimmed Steel Ingots

It is stated in the editorial note that the above findings should be additionally confirmed by experiments on a large scale.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat
(Magnitogorsk Metallurgical Combine)

Card 4/4

VARSHAVSKIY, A.P., inzh.; DIKSHTEYN, Ye.I.

Using various sinters in large-capacity open-hearth furnaces.
Stal' 22 no.1:20-23 Ja '62. (MIRA 14:12)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Sintering) (Open-hearth process)

VARSHAVSKIY, A.P., inzh.

Certain characteristics of the fusion of the charge mixture.
Stal' 23 no. 3:219-222 Mr '64. (MIRA 17:5)

1. Magnitogorskiy metallurgicheskiy kombinat.

VARSHAVSKIY, A.P.

Method of correcting the calculation of open-hearth charges.
Metall. 9 no.1:19-20 Ja '64 (MIRA 18:1)

1. Magnitogorskiy metallurgicheskiy kombinat.

VARSHAVSKIY, A.P. (Odessa)

Our demanding friend. Fel'd. i akush. 26 no. 2:61-62 F '61.
(MIRA 14:4)

(DUKA, PETR AFANAS'EVICH)

VARSHAVSKIY, A.P.

Collective farm university of health. Sov.zdrav. 20 no.2:58-59
'61. (MIRA 14:5)

1. Rabotnik Odesskogo goskozhhavoda imeni V.I.Lenina.
(DIVIZIYA--HEALTH EDUCATION)

DEMENT'YEVA, Anastasiya Nikolayevna; VARSHAVEKIY, A.S., red.; SHADRINA,
N.D., tekhn.red.

[Protecting workers and employees in the U.S.S.R.] Okhrana truda
rabochikh i sluzhashchikh SSSR. Moskva, Izd-vo VTsSPS Profizdat,
1959. 18 p. (MIRA 13:6)
(Industrial hygiene)

BORISKIN, Stepan Vasil'yevich; VARSHAVSKIY, A.S., red.; SHADRINA, N.D.,
tekhn. red.

[Organization and methods of operation of trade unions in the
U.S.S.R.] Organizatsiia i metody raboty profsoiuzov SSSR.
Moskva, Izd-vo VTsSPS, Profizdat, 1959. 22 p. (MIRA 13:6)
(Trade unions)

BULGAKOV, Aleksandr Aleksandrovich; GUSEYNOV, Kampan Asadovich;
SMIRNOV, Ivan Andreyevich; VARSHAVSKIY, A.S., red.; IGNAT'YEV,
V.A., tekhn. red.

[With the Italian workers] U rabochikh Italii. Moskva, Izd-vo
VTsSPS Profizdat, 1961. 135 p. (MIRA 15:2)
(Italy--Labor and laboring classes)

MOROZOV, German Petrovich; SABSOVICH, Rafail Leonidovich; VARSHAVSKIY,
A.S., red.; SHIKIN, S.T., tekhn. red.

[Studies on the history of trade-union movement in France] Ocherki
istorii profsoliuznogo dvizheniia vo Frantsii. Moskva, Izd-vo
VTsSPS Profizdat, 1961. 219 p. (MIRA 14:11)
(France--Trade unions)

TURCHANINOV, Dmitriy Il'ich; VARSHAVSKIY, A.S., red.; ANDREYEVA,
L.S., tekhn. red.

[The All-African Federation of Trade Unions] Vseafrikanskaia
federatsiia profsoiuzov. Moskva, Profizdat, 1962. 59 p.
(MIRA 16:1)

(Africa--Trade unions)

POPOV, Yuriy Nikolayevich; VARSHAVSKIY, A.S., red.; IGNAT'YEV, V.A.,
tekh. red.

[The working class of Africa in the struggle for unity] Rabochii
klass Afriki v bor'be za edinstvo. Moskva, Profizdat, 1962.
69 p. (MIRA 15:9)
(Africa--Labor and laboring classes)

KANAYEV, Georgiy Yeliseyevich; VARSHAVSKIY, A.S., red.; IGNAT'YEV, V.A.,
tekhn. red.

[Trade-union movement in Morocco] Profsoiuznoe dvizhenie v
Marokko. Moskva, Profizdat, 1962. 93 p. (MIRA 15:6)
(Morocco--Trade unions)

KLYUCHNIKOV, Boris Fedorovich; VARSHAVSKIY, A.S. red.; KOROBOVA,
N.D., tekhn. red.

[Fifth column in the trade unions of the Federal Republic
of Germany] Piataia kolonna v profsoiuzakh FRG.. Moskva,
Profizdat, 1962. 125 p. (MIRA 15:11)
(Germany, West--Trade unions)

VARSHAVSKIY, A.S., red.; ANDREYEVA, L.S., tekhn. red.

[Modern problems of the international labor and trade-union movements] Sovremennye problemy mezhdunarodnogo rabocheho i profsoiuznogo dvizheniia; materialy. Moskva, Profizdat, 1962.
253 p. (MIRA 15:12)

1. International Trade Union Congress. Moscow, 1961.
(Trade unions) (Labor and laboring classes)

VARSHAVSKIY, A.S.; SMIRNOV, I.A.; BATISHCHEV, V.A.; KANAYEV, G.Ye.;
CHUYKO, F.M.; VETROV, V.D.; YURIN, B.A., red.; KOROBova,
N.D., tekhn. red.

[Handclasp of millions] Rukopozhatie millionov. [By] A.S.
Varshavskii i dr. Moskva, Profizdat, 1962. 270 p.
{MIRA 16:4}

1. World Trade Union Congress. 5th, Moscow, 1961.
(Trade unions--Congresses)

VARSHAVSKIY, Aleksandr Sargayevich; SHERGUYEV, S., redaktor; TROYANOVSKAYA,
M., tekhnicheskiiy redaktor

[Notes on Yugoslavia] Zametki o Iugoslavii. Moskva, Gos. izd-vo
polit. lit-ry, 1956. 76 p. (MIRA 9:9)
(Yugoslavia--Description and travel)

VARSHAVSKIY, Anatoly Semenovich; KUMKES, S.N., redaktor; FMDOTKIN, V.M.,
tekhnicheskiy redaktor; MAL'CHEVSKIY, G.N., redaktor kart

[Laperouse] Laperuz. Moskva, Gos. izd-vo geogr. lit-ry, 1957. 53 p.
(Laperouse, Jean Francois de Galaup, 1741-1788) (MLRA 10:4)

VARSHAVSKIY, A.V., inzhener.

What track machinery stations should be like. Zhel.dor.transp.
38 no.10:59-63 Q '56. (MLRA 9:11)
(Railroads--Maintenance and repair)

VARSHAVSKIY, A.V., nachal'nik opyt'noy putev'noy mashin'noy stantsii.

~~VARSHAVSKIY, A.V.~~
Improve the system of carrying out track maintenance. Put' 1 put.
khoz. no. 7:3-6 J1 '57. (MIRA 10:8)
(Railroads--Maintenance and repair)

VARSHAVSKIY, A.V.

Some problems of the anomalous birefringence and internal
morphology of diamonds. Dokl. AN SSSR 166 no.3:691-694
Ja '66. (MIRA 19:1)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR. Submitted
September 10, 1965.

DEMIN, A.M., kand. tekhn. nauk; KOKH, P.I.; CHERTKOV, V.K.; VASIL'YEV, M.V., kand. tekhn. nauk; YEFIMOV, I.P.; KMITOVENKO, A.T., dots.; PRISEDSKIY, G.V., inzh.; DUNAYEVSKIY, Yu.N.; VOLOTKOVSKIY, S.A., doktor tekhn. nauk; KUR'YAN, A.I., kand. tekhn. nauk; MAYMIN, A.I.; MIROSHNIK, A.M.; PETROV, I.P.; TUIYSHEV, B.F.; SHISHKOV, A.I.; AVERBUKH, I.D., inzh.; VARSHAVSKIY, A.V.; KRYUKOV, D.K.; LUKAS, V.A.; MINEYEV, V.A.; SMIRNOV, A.A., otv. red.; LYUBIMOV, N.G., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Handbook for the mechanic in a coal pit] Spravochnik mekhanika ugol'nogo kar'era. Moskva, Gosgortekhzdat, 1961. 639 p.

(MIRA 15:12)

(Coal mining machinery—Handbooks, manuals, etc.)

ACCESSION NR: AP4036516

S/0103764/025/005/0718/0723

AUTHOR: Varshavskiy, A. Ye. (Moscow); Kuzin, L. T. (Moscow)

TITLE: Investigation of discrete variable-parameter systems by simulators

SOURCE: Avtomatika i telemekhanika, v. 25, no. 5, 1964, 718-723

TOPIC TAGS: automatic control, discrete automatic control, variable parameter automatic control, simulator

ABSTRACT: An extension of Duncan's theory of continuous systems ("Response of Linear Time-Dependent Systems to Random Inputs," J. Appl. Phys., May, 1953) over the case of discrete systems is reported. Discrete automatic-control systems described by linear difference variable-coefficient equations are considered. A set of difference equations describing the dispersion of the system output signal is developed. Unsolvable by analytical means, this set can be solved on a computer or a digital differential analyzer. The method permits determining

Card 1/2

ACCESSION NR: AP4036516

the mean square of a random signal of a discrete linear variable-parameter control system. The entire series of dispersion values can be obtained by a single simulation. Orig. art. has: 4 figures and 20 formulas.

ASSOCIATION: none

SUBMITTED: 28Nov62

DATE ACQ: 03Jun64

ENCL: 00

SUB CODE: DP; IE

NO REF SOV: 003

OTHER: 002

Card

2/2

VARSHAVSKIY, B.

13606* (Effect of Nourishment Area on Sugar Beet Quality.)
Vliyanie ploshchadi pitanila na kachestvo sakharnoi svekly.
B. Varshavskii. *Zemledelie*, v. 2, no. 3, Mar. 1954, p. 73-78.
Number of plants per hectare and amount of sugar in roots.
Tables.

USSR / Cultivated Plants. Commercial. Oil-Bearing. M-5
Sugar-Bearing.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25182

Author : Varshavskiy, B.
Inst : Not given
Title : The Yielding Power of Square-Pocket Planting of
the Sugar Beet

Orig Pub: Kolkhoznoye proiz-vo, 1957, No 5, 19-21

Abstract: No abstract.

Card 1/1

KOZLOV, N.; VARSHAVSKIY, B.

"Sputnik" is the smallest Soviet automobile. Tekh.mol. 31 no.1:20-21
Mr '63. (MI-A 16:3)

(Automobilies)

VAFSPAVSKIY, B.

TELECOMMUNICATION

How the head of the office of communications spends his day., Sov. sviaz,
no. 8, 1951.

UNCLASSIFIED.
Monthly List of Russian Accessions, Library of Congress, March 1952.

Varshavskiy, Boris Georgiyevich

BELIKOV, Boris Stepanovich; VARSHAVSKIY, Boris Georgiyevich; GUSEV, Simon Stepanovich; KOROBOV, Yuriy Mikhailovich; PAPERNOV, Lev Zakharovich; PETROVSKIY, Stepan Ignat'yevich, [deceased]; YAKUSHEV, M.I., redaktor; PAPINAKO, I.G., redaktor; LEDNEVA, N.V., tekhnicheskij redaktor

[Postal and telegraph agent] Pochtovo-telegrafnyi agent. Moskva, Gos. izd-vo lit-ry po voprosam svyazi i radio, 1955.
254 p. (MLRA 9:4)
(Postal service) (Telegraph)

SOV/111-58-2-23/27

AUTHORS: Akhmerov, Sh. Sh., Engineer of the Technical Section of the RSFSR Ministry of Communication; Varshavskiy, B.G., Senior Economist of the Main Postal Directorate of the RSFSR Ministry of Communications

TITLE: Dissemination of the Experience of the Foremost Communication Workers (Rasprostraneniye opyta peredovykh svyazistov)

PERIODICAL: Vestnik svyazi, 1958, Nr 2, pp 30 - 31 (USSR)

ABSTRACT: The authors review literature on the experience of the foremost communication employees, for example telephone operators, line repair men, etc.

ASSOCIATION: Ministerstvo svyazi RSFSR (RSFSR Ministry of Communications)

Card 1/1

VARSHAVSKIY B.G.

AKHMEROV, Sh.Sh., inzh.; VARSHAVSKIY, B.G.

Spreading the experience of progressive communications men. Vest.
svyazi 18 no.2:31-32 F '58. (MIRA 11:2)

1. Tekhnicheskiy otdel Ministerstva svyazi RSFSR (for Akhmerov).
2. Starshiy ekonomist Glavnogo pochtovogo upravleniya Ministerstva svyazi RSFSR (for Varshavskiy).
(Communication and traffic)

VARSHAVSKIY, B.G.

A useful manual. Vest. svyazi 19 no.7:31-32 JI '59. (MIRA 13:8)

1. Starshiy ekonomist Glavnogo pochtovogo upravleniya Ministerstva
svyazi RSFSR.
(Telecommunication)

BELIKOV, Boris Stepanovich; VARSHAVSKIY, Boris Georgiyevich; GUSEV, Simon Stepanovich; PAPERNOV, Lev Zakharovich; ZAKHAROVA, N.V., red.; ROMANOVA, S.F., tekhn. red.

[Manual for workers in the postal, telegraph, and telephone communication services] Operator pochtovo-telegrafno-telefonnoi sviazi. By B.S.Belikov i dr. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1961. 215 p. (MIRA 15:1)
(Telecommunication)

VARSHAVSKIY, B.G.

For communist labor. Vest.sviazi 21 no.4:29-30 Ap '61.
(MIRA 14:6)

(Telecommunication--Employees)

VARSHAVSKIY, B.G., starshiy ekonomist

Inter-district inspectors aid in the improvement of telecommunications in the rural areas. Vest. svyazi 22 no.4:22-23 Ap '62. (MIRA 15:4)

1. Glavnoye poshtovoye upravleniye Ministerstva svyazi RSFSR. (Telecommunication)

VARSHAVSKIY, B.G.

Interdistrict newspapers should be delivered with greater speed.
Vest. svyazi 22 no.10:24 0 '62. (MIRA 15:11)

1. Starshiy ekonomist Glavnogo pochtovogo upravleniya Ministerstva
svyazi RSFSR.

(Postal service)

VARSHAVSKIY, B.M.

USSR/Medicine - Roentgen Rays,
Effects of
Medicine - Regeneration

Apr 49

"Sensitizing Tissues to X-Rays," E. Ye. Umanskiy,
B. M. Varshavskiy, V. P. Kudokotsev, Ukrainian
Roentgen-Radiol and Oncol Inst, Khar'kov, 3 pp

"Dok Ak Nauk SSSR" Vol LXV, No 4

Investigated sensitizing characteristics of
several contrast mediums (fluorescein, neutral
red, Congo red), using process of regeneration
of triton extremities. Submitted by Acad A. I.
Oparin, 2 Feb 49.

41/49T58

D'YACHENKO, M.N., dotsent; VARSHAVSKIY, B.M., dotsent.

Protective containers for work with radioactive materials. Vest.
rent i rad. no.6:76-79 N-D '55. (MLRA 9:4)

1. Iz Ukrainского rentgeno-radiologicheskogo i onkologicheskogo
instituta (dir.-dotsent Ye.A. Bazlov)
(RADIOTHERAPY, appar. and instruments
protective containers for radioactive materials)

VARSHAVSKIY, B.M.

USSR/ General Problems of Pathology. Tumors

U-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 23041

Author : Burshteyn, Sh.A., Varshavskiy, B.M., Ilyevich, A.I.,
Landodub, Yu.Ye.

Inst : -

Title : The Effects of Radioactive Phosphorus on the Hematopoietic System in Leukemias and Polycythemia Vera.

Orig Pub : V sb.: Vopr. luchevooy terapii, Kiyev, Gosmedizdat, USSR
1956, 86-92

Abstract : The treatment of patients with chronic myeloid leukemia (CML) (22) and chronic lymphatic leukemia (CLL) (18) with P^{32} leads to clinical and hematologic remission of 6-12 months' duration. In cases of CML the therapy was followed by a return of the peripheral leucocyte count to normal, and a tendency toward normalization of the differential was noted; there was a significant decrease in the number of nucleated cells in the bone

Card 1/2

VARSHAVSKIY, B.M., dotsent; **IL'YEVICH, A.I.**, dotsent; **BURSHENYN, Sh.A.** starshiy
nauchnyy sotrudnik.

Radiophosphorus treatment of bone metastases of breast cancer. Vop.
onk. 2 no.1:51-55 '56 (MLRA 9:4)

1. Ukrainskiy rentgeno-radiologicheskii i onkologicheskii institut
(dir. dotsent Ye.A. Bazlov)

(BREAST, neoplasms

metastases to bones, ther., radioactive phosphorus)

(BONES, neoplasms

metastatic from breast, ther., radioactive phosphorus)

(PHOSPHORUS, radioactive

ther. of breast cancer & metastases to bones)

VARSHAVSKIY, B. M.; LIVERGANT, Yu. E.

Treatment of thyrotoxicosis with radioactive iodine in association with some thioureates, Med. rad. no.12:14-20 '61.
(MIRA 15:7)

1. Iz Khar'kovskogo instituta meditsinskoj radiologii i gorodskogo protivozobnogo dispansera.

(THYROID GLAND--DISEASES) (IODINE--ISOTOPES)
(URIC ACID--THERAPEUTIC USE)

PORUDOMINSKIY, I.M., ARTEM'YEV, S.A., VARSHAVSKIY, B.V., IOFFE, V.Ye.
KRIGER, S.M., SOBKIN, I.B.

Incidence, causes, and features of the clinical course of gonorrhea
reinfection in males [with summary in English]. Vest.derm. i ven.
32 no.3:42-46 My-Je '58 (MIRA 11:7)

1. Iz otdela gonorei (sav. - prof. I.M. Porudominskiy) Tsentral'nogo
nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta
(direktor - kand.med.nauk N.M. Turanov) Ministerstva zdravookhraneniya
RSFSR. 2. Tsentral'nyy kozhno-venerologicheskii institut
(for Artem'yev). 3. 4-y Moskovskiy kozhno-venerologicheskii
dispanser (for Varshvskiy). 4. 2-y Moskovskiy kozhno-venerologicheskii
dispanser. 5. Ob'yedinennaya poliklinika Ministerstva putey
soobshcheniya (for Sobkin).

(GONORRHEA,

reinfect., incidence & clin. course (Rus))

ARTEM'YEV, S.A., kand.med.nauk; AFANAS'YEV, B.A.; VOSKRESENSKAYA, G.A.;
VARSHAVSKIY, B.V.

DDT powder in the treatment of trichomonal urethritis in men.
Vest.derm.i ven. 34 no.12:41-43 '60. (MIRA 14:1)

1. Iz otdela gonorey (zav. - prof. I.M. Porudominskiy), otdela
mikrobiologii (zav. - prof. N.M. Ovchinnikov) Tsentral'nogo
kozhno-venerologicheskogo instituta (dir. - kand.med.nauk N.M.
Turantov) Ministerstva zdravookhraneniya RSFSR i polikliniki No.58
Moskvy.

(TRICHOMONIASIS) (URETHRA—DISEASES) (DDT)

VARSHAVSKIY, B.Ye.

Eliminate hand thinning of beets. Sakh.prom. 32 no.10:66-69
0 '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly.
(Sugar beets)

VARSHAVSKIY, Boris Yakovlevich [Varshavs'kyi, B.IA.], kand.sel'okokhoz.
nauk; NEGOVSKIY, M.O. [Nehovs'kyi, M.O.], doktor biolog.nauk,
glavnyy red.

[Growing monospermous sugar beets] Vyroshchuvannia odnonasinnnykh
tsukrovnykh buriakiv. Kyiv, 1959. 41 p. (Tovarystvo dlia poshy-
rennia politychnykh i naukovykh znan' Ukrain's'koi RSR. Ser.6,
no.11)

(Sugar beets)

(MIRA 12:12)

BUZANOV, Ivan Feoktistovich, akademik; VARSHAVSKIY, Boris Yakovlevich;
KUZ'MICH, Semen Iovlevich; POD'TYKAN, Yakov Petrovich; PRISYAZHNYUK,
Prokopy Fedorovich; USHAKOV, Aleksandr Fedorovich; ONOPRIYENKO,
M.M., red.; MANOYLO, Z.T., tekhn.red.

[Growing sugar beets with the least expenditures of labor] Vy-
rashchivanie sakharnoi svekly s minimal'nymi zatratami truda.
Kiev, Izd-vo Ukrainskoi akad.sel'khoz.nauk, 1960. 91 p.

(MIRA 13:11)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.
Lenina i Ukrainakaya akademiya sel'skokhozyaystvennykh nauk (for
Buzanov).

(Sugar beets)

BUZANOV, I.F., akademik, nauchnyy sotrudnik, laureat Leninskoy premii;
VARSHAVSKIY, B.Ya., nauchnyy sotrudnik; KUZ'MICH, S.I., nauchnyy
sotrudnik; PODTYKAN, Ya.P., nauchnyy sotrudnik; PRISYAZHNIUK, P.F,
nauchnyy sotrudnik; USHAKOV, A.F., nauchnyy sotrudnik; ONOPRIYENKO,
M.M., red.; VIDONYAK, A.P., tekhn.red.

[New technology of sugar beet cultivation] Novaia tekhnologiya
vozdelyvaniia sakharnoi svekly. Kiev, Izd-vo Ukrainskoi akad.
sel'khoz.nauk, 1961. 27 p. (MIRA 15:4)

1. Kiyev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy
svekly. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy
svekly (for all except Onopriyenko, Vidoryak). 3. Vsesoyuznaya akade-
miya sel'skokhozyaystvennykh nauk imeni V.I.Lenina i Ukrainskaya akade-
miya sel'skokhozyaystvennykh nauk (for Buzanov).
(Ukraine—Sugar beets)

VARSHAVSKIY, Boris Yakovlevich [Varshava's'kiy, B.Ya.], kand. sel'khoz. nauk;
KUZ'MICH, Semen Iovlevich [Kuz'mych, S.I.], kand. sel'khoz. nauk;
USHAKOV, Aleksandr Fedorovich, kand. tekhn. nauk; DERKACH, T.V.,
zasluzhennyy agronom URSS, Geroy Sotsialisticheskogo Truda, otv. red.;
GURENKO, V.A. [Hurenko, V.A.] red.

[Practices of growing monospermous sugar beets] Dosvid vyroshokuvan-
nia odnonasinnykh tsukrovyykh buriakiv. Kyiv, 1961. 42 p. (Tovarystvo
dlya poshyrennia politychnykh i naukovykh znan' Ukrain's'koi RSR. Ser. 5,
no. 3) (MIRA 14:7)

(Sugar beets)

BUZANOV, I.F., red.; VARSHAVSKIY, B.Ya., red.; ORLOVSKIY, N.I., red.;
PODTYKAN, Ya.P., red.; SHEVCHENKO, V.N., red.; POZHAR, Z.A.,
red.; AREF'YEV, T.I., red.; USHAKOV, A.F., red.; MAKSIMOVICH,
A.Ye., red.; SIDOROV, A.A., red.; DANIKOVA, M.G., red.;
SERDYUK, B.M., red.; LAPCHENKO, K.P., tekhn. red.

[Basic conclusions of research work in 1959-1960] Osnovnye vy-
vody nauchno-issledovatel'skikh rabot za 1959-1960 gg. Kiev,
Izd-vo UASKhN, 1962. 308 p. (MIRA 16:4)

1. Kiev. Vsesoyuznyy nauchno-issledovatel'skiy institut sa-
kharnoy promyshlennosti. 2. Deystvitel'nyy chlen Vsesoyuznoy
akademii sel'skokhozyaystvennykh nauk im.V.I.Lenina (for
Buzanova).

(Sugar beets--Research)

BUZANOV, I.F.; SAMBUROV, V.I.; YEMETS, G.M.; ORLOVSKIY, N.I.;
NEGOVSKIY, N.A.; FEDOROV, A.I.; GREKOV, M.A.; KURBATOV,
S.T.; MEL'NICHUK, A.N.; TONKAL', Ye.A.; GORNAYA, V.Ya.;
ROZHDESTVENSKIY, I.G.; SIDOROV, A.A.; KUDARENKO, F.F.;
BROVKINA, Ye.A.; GELLER, I.A.; DOBROTVORTSEVA, A.V.;
VARSHAVSKIY, B.Ya.; KUTSURUBA, N.V.; KUZ'MICH, S.I.;
PRESNYAKOV, P.V.; USHAKOV, A.F.; SHEVCHENKO, V.N.;
KHUCHUA, K.N.; PETRUKHA, Ye.I.; POZHAR, Z.A.; SHAPOVALOV,
P.T.; AREF'YEV, T.I.; GRIGOR'YEVA, A.I., red.; BALLOD,
A.I., tekhn. red.

[Sugar beets] Sakharnaia svekla. Moskva, Sel'khozizdat,
1963. 487 p. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sa-
kharnoy svekly. 2. Nauchnyye sotrudniki Vsesoyuznogo
nauchno-issledovatel'skogo instituta sakharnoy svekly
(for all except Grigor'yeva, Ballod).
(Sugar beets)

ANTONYUK, M.Ya. [Antoniuk, M.IA.]; VARSHAVSKIY, B.Ya. [Varshava'kyi, B.IA.], kand.sel'skokhoz.nauk, red.

[Work practices of consolidated mechanized teams] Dosvid roboty ukрупnenoi mekhanizovanoi lanky. Kyiv, 1959. 22 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' URSR. Ser.6, no.6) (MIRA 12:5)

1. Lankova kolhospu im. B. Khmel'nyts'koho, Shums'koho raionu, Ternopil's'koi oblasti (for Antonyuk).
(Agriculture)

VARSHAVSKIY, B. Ya.

Kidney function in oxygen inhalation. Farm. i toks. 28 no.6:727-
730 N-D '65. (MIRA 19:1)

1. Kafedra farmakologii (zav. - prof. Ye. B. Berkhin) Altayskogo
meditsinskogo instituta.

ANDRONOV, Leonid Petrovich, dots., kand. tekhn.nauk; VARSHAVSKIY, D.A.,
retsenzent; KRIVOSHAPKIN, A.A., retsenzent; PRIKHOD'KO, B.G.,
retsenzent; ~~SERKO, G.S., red.~~; LAVRENOVA, N.B., tekhn. red.

[Cargo handling and storage calculations] Skladskie i stividornye
raschety. Moskva, Izd-vo "Morskoi transport," 1962. 250 p.
(MIRA 15:6)

(Cargo handling)

(Warehouses)

VARGHAVSKIY, D. P., Decent

Cand Tech Sci

Dissertation: "Optimum Parameters of Steam for High-Pressure Condensation
Turbines."

27/12/50

All-Union Order of the Labor Red Banner Sci Res Inst of Thermal Engineering

imeni F. E. Dzerzhinskiy

EQ Vecheryaya Moskva
Sum 71

SHCHEMLAYEV, A.V.: VARSHAVSKIY, D.P.

Bearings (Machinery)

Analysis of breakdown of resistance bearing in a steam turbine. Izv. VTI,
21, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED

VARSHAVSKIY, D. P.

AID P - 2321

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 2/17

Authors : Varshavskiy, D. P., P. Ya. Boguslavskiy, Kand. of Tech. Sci. and Polumordvinova, I. G., Eng.

Title : Determining the creep of machine elements by using the method of analogies on appropriate models

Periodical : Teploenergetika, 5, 9-16, My 1955

Abstract : The use of models made of copper and steel for testing the effects of creep in various machine parts and elements is discussed. Theoretical calculation and experimental results are illustrated with stress-strain diagrams. Three Russian references, 1874-1948.

Institution : Moscow Branch of the Central Turbine-Boiler Institute

Submitted : No date

GUKHMAN, A.A., doktor fizike-matematicheskikh nauk, professor; VARSHAVSKIY,
D.P., kandidat tekhnicheskikh nauk.

Letter to the editor. Teploenergetika 3 no.1:63 Ja '56.(MLRA 9:2)
(Turbines)

RENNE, V.T., doktor tekhnicheskikh nauk; FAYNITSKIY, V.M., kandidat tekhnicheskikh nauk; VARSHAVSKIY, D.S., inzhener.

Wax formation in the insulation of paper and oil condensers. Elektrichestvo
no.12:55-58 D '53. (MLRA 6:11)

1. Nauchno-issledovatel'skiy institut postoyannogo toka MESIP.
(Condensers (Electricity))

S/143/6C/000/009/002/006
A189/A026

9.2150

AUTHOR: Varshavskiy, D.S., Engineer

TITLE: A Method of Estimating the Electric Strength of the Thin-Layer Paper Dielectric of Power Capacitors

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1960, No. 9
pp. 27 - 29

TEXT: The purpose of this method is to determine the optimum combination of the number of layers and their thickness in low-voltage power capacitors. To achieve this, the capacitors are tested by the short-time application of voltage being increased step by step. The capacitance is measured on each stage and the number of broken down sections determined. The maximum voltage value is calculated from the necessary percentage of the sections lost due to breakdown (3 or 5%). Calculation formulas are given. Test results are represented graphically as segments of corresponding integral distribution curves for KMB-II(KMV-II) series of capacitors with layers made of KOH-1 (KON-1) paper, 10 micron thick. There are 2 figures and 3 Soviet references. ✓B

Card 1/2

S/143/60/000/009/002/006
A189/A026

A Method of Estimating the Electric Strength of the Thin-Layer Paper Dielectric
of Power Capacitors

ASSOCIATION: Gorno-metallurgicheskiy nauchno-issledovatel'skiy institut (Scientific
Research Institute of Mining and Metallurgy)

PRESENTED: Kafedra elektroizolyatsinnoy i kabel'noy tekhniki (Department of
Electrical Insulation and Cable Technology)

SUBMITTED: March 14, 1960

✓B

Card 2/2

VARSHAVSKIY, D.S.

Certain problems concerning the regeneration of ~~power~~ compensating
condensers. Prom. energ. 15 no.11:28-29 N '60. (MIRA 14:9)
(Electric capacitors) (Electric power distribution)

VARSHAVSKIY, D.S.

Calculation of dielectric losses in saturated condenser paper.
Izv. vys. ucheb. zav.; elektromekh. 4 no. 1:125-129 '61.

(MIRA 14:4)

(Electric capacitors)

RENNE, V.T., prof., doktor tekhn.nauk; VARSHAVSKIY, D.S., inzh.

Effect of vacuum treatment conditions on the magnitude of the loss angle in the drying and saturating of large power condensers with oil-saturated paper dielectric. Izv.vys.ucheb.zav.; energ. 4 no.4: 25-29 Ap '61. (MIRA 14:5)

1. Leningradskiy politekhnicheskii institut imeni M.I.Kalinina.
Predstavlena kafedroy elektroizolyatsionnoy i kabel'noy tekhniki.
(Electric capacitors) (Electric insulators and insulation)

VARSHAVSKIY, Div Solomonovich, mladshiy nauchnyy sotrudnik

Accelerated testing of the service life of paper-type
electric power condensers. Izv. vys. ucheb. zav.; elektromekh.
4 no.9:106-107 '61. (MIRA 14:9)

1. Gorno-metallurgicheskiy nauchno-issledovatel'skiy institut
AN KazSSR.

(Electric capacitors---Testing)

9.2/10 (1153, 1159, 1482)

31184
S/139/61/000/006/002/023
E194/E484

AUTHOR: Varshavskiy, D.S.

TITLE: Calculation of the electric stress that causes ionization in a laminated dielectric of impregnated capacitor paper

PERIODICAL: Izvestiya vyzhikh uchebnykh zavedeniy. Fizika. no.6, 1961, 22-26

TEXT: In his book (Ref.1: Electrical Capacitors, GEI, 1959) V.T.Renne proposed to represent a dielectric by an equivalent circuit consisting of a capacitance C_1 , corresponding to the equivalent capacitance of air inclusion in the insulation, in series with a capacitance C_2 , corresponding to the insulation that separates the gas inclusion from the electrodes, and in parallel with both of them is a capacitance C_3 , corresponding to the remainder of the insulation. From this circuit the following formula was derived for the electric stress that causes ionization

$$E_n = \frac{u_{np.}}{e d_1} \left[1 + \frac{d_1 (\epsilon - 1)}{d} \right]. \quad (1)$$

Card 1/4

Calculation of the electric ...

S/139/61/000/006/002/023
E194/E484

where $u_{pp. B}$ - the breakdown voltage of air at atmospheric pressure across a gap equal to the thickness of the air inclusion (when the air inclusion is 6 to 8 microns or less the breakdown voltage is taken to be 250 V); d_1 - the thickness of the air inclusion in microns; d - the thickness of the dielectric in microns; ϵ - the permittivity of the dielectric.

This formula gives the minimum ionization inception voltage that would be observed if the bubbles were thin but wide, in fact they are small and, moreover, the pressure in them is not atmospheric. Accordingly, their breakdown voltage is often much greater than 250 V. The corrections to the original equation made necessary by these and other considerations are discussed and the following expression derived

$$E_{up} = \frac{u_{pp. B}}{\epsilon_k d_1 d_p} \left\{ (d_p - d_1) \left[K \frac{\gamma}{\gamma_k} + \frac{\epsilon_k}{\epsilon} \left(1 - K \frac{\gamma}{\gamma_k} \right) \right] + d_1 \epsilon_k \right\}. \quad (13)$$

where γ - the density of the paper in g/cm^3 ; d_p - the equivalent thickness of the dielectric corresponding to the mean thickness of Card 2/4

34184

S/139/61/000/006/002/023
E194/E484

Calculation of the electric ...

a single sheet of paper multiplied by the number of sheets;
K - the compression factor of the dielectric; the suffix k -
corresponds to the unimpregnated cellular material. Results
obtained from this formula are compared with experimental data and
it is claimed that agreement is good. If the dielectric constant
of the material is known the following expression may be used to
calculate the ionization inception voltage

$$E_{n,\phi} = \frac{u_{np,n}}{\epsilon d_1} \left[1 + \frac{Kd_1(\epsilon-1)}{d_p} \right] \quad (15)$$

If the dielectric constant is not known the following expression
may be used:

$$E_{n,\phi} = \frac{u_{np,n}}{\epsilon_n d_1 d_p} \left\{ (d_p - Kd_1) d_p \left[\frac{\gamma}{\gamma_n} + \frac{\epsilon_n}{\epsilon_n} \left(1 - \frac{\gamma}{\gamma_n} \right) \right] + Kd_1 \epsilon_n \right\}, \quad (16)$$

where the suffix n corresponds to the impregnant.
Card 3/4