

14(5)

SOV/112-59-1-1401

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 193 (USSR)

AUTHOR: Bondarenko, V. G., Faynberg, G. S., and Kaplan, I. A.

TITLE: Device for Remote Checking of the Tension of Hoist Ropes

PERIODICAL: Shakhtnoye str-vo, 1958, Nr 2, pp 28-29

ABSTRACT: A description and data on the DKK-20 device are supplied; the device includes a differential inductive primary element and an AC measuring bridge. The device continuously checks on rope tension and disengages the hoist mechanism when the tension rises above permissible. The device, however, does not stop the hoist mechanism when the object being lowered sticks or when the rope is slack. Three illustrations.

M.R.S.

Card 1/1

^G
BONDARENKO, V., inzh.; FEDORENKO, V., inzh.

Device for remote control of the rope pull in hoisting and
transporting machines. Biul. tekhn. inform. 4 no.9:16-17
S '58. (MIRA 11:10)

(Remote control) (Hoisting machinery)

BONDARENKO, V.G., inzh.; SEDOV, B.N., inzh.

Centralized communications by loud-speaker in building mine surfaces.
Shakht. stroi. no.9:18-19 '58. (MIRA 11:10)
(Mine communications) (Automatic control)

14(8),14(11)

AUTHORS:

~~Bondarenko, V. G.~~, Kaplan, I. A.,
Fedorenko, V. G., Engineers

SOV/119-59-1-15/20

TITLE:

Device to Control the Tension of Cables (Pribor dlya kontrolya natyazheniya kanatov)

PERIODICAL:

Priborostroyeniye, 1959, Nr 1, pp 27-28 (USSR)

ABSTRACT:

The Vsésoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva (All-Union Scientific Research Institute for the Organization and Mechanization of Mining) developed, constructed and tested the testing device DKK-20. The cable to be controlled runs over 2 fixed rolls and a load roll to receive the tension component of the cable. This load roll runs inside a tube and is connected with a ferromagnetic nucleus which is mobile in two cylindrical coils. A bridge circuit consisting of 2 inductances (the two mentioned coils) and apart from this 2 variable inductances is in equilibrium if there is no tension in the cable. There is therefore no current in the diagonals of the bridge. If there is a tension in the cable the nucleus of the first coil moves into the second. Thus a change of induction in the coils is caused,

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Device to Control the Tension of Cables

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the bridge loses the state of equilibrium and a microammeter records the difference between the zero position and the new position with the extent of the shift of the nucleus being proportional to the tension in the cable. The scale of the microammeter is calibrated in tons. The device covers two ranges, e.i. from 0-10 and from 0-20 t. It can be used for cable diameters from 19 to 30 mm. By electrical measuring it is possible to measure the tension in the cable also at distant points of the cable. A special device permits an interruption of the movement of the cable at the moment where the desired tension is exceeded. The accuracy of measurement of the device is in the range of 3-5%. There are 4 figures.

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ZHITKEVICH, R.G., kand.tekhn.nauk, nauchnyy sotrudnik; BONDARENKO, V.G.

Method of stabilizing the operation of automatic gain control devices
in V-12 apparatus. Vest. svyazi 20 no.10:16-18 0 '60.

(MIRA 13:11)

1. Kiyevskoye otdeleniye Tsentral'nogo nauchno-issledovatel'skogo instituta svyazi Ministerstva svyazi SSSR (for Zhitkevich).
2. Starshiy inzhener Kiyevskogo otdeleniya Tsentral'nogo nauchno-issledovatel'skogo instituta svyazi Ministerstva svyazi SSSR (for Bondarenko).

(Amplifiers (Electronics))

BONDARENKO, V.G.

Single-stage RC-generator with a bridge phase-shifting
network. Elektrosviaz' 16 no.9:14-25 S '62. (MIRA 15:9)
(Oscillators, Transistors)

BONDARENKO, V.G. (Simferopol')

Pillow lava. Priroda 52 no.7:82-84 J1 '63.
(Lava)

(MIRA 16:8)

BONDARENKO, V.G.

An RC oscillator. Elektrosviaz' 18 no.3:78-80 Mr '64.
(MIRA 17:4)

BONDARENKO, V.G.; NETUPSKIY, B.A.

Conversion of low-frequency amplifiers of individual converter
bays to transistor operation. Vest. svyazi 24 no.1:5-6 Ja '64.
(MIRA 17:3)

1. Starshiy inzhener Kiyevskogo otdeleniya Tsentral'nogo nauchno-
issledovatel'skogo instituta svyazi Ministerstva svyazi SSSR (for
Bondarenko). 2. Nachal'nik laboratorii Kiyevskoy mezhdugorodnoy
telefonnoy stantsii (for Netupskiy).

BONDARENKO, V.G., master

Reconditioning parts by the method of hard steel plating. Inform.
bful.VDNKH no.583-4 My '64. (MIRA 18:5)

3. Saratovskiy avtoremontnyy zavod.

L 44364-66 EWT(d)/EWP(c)/EWP(k)/T/EWP(v)/EWP(l) LJP(c)

ACC NR: AP6021385 (A)

SOURCE CODE: UR/0101/66/000/002/0020/0021

AUTHOR: Yamshchikov, V. S. (Candidate of technical sciences); Levushkin, L. N. (Engineer); Bondarenko, V. G. (Engineer); Sviridov, V. M. (Engineer) 56B

ORG: Moscow Institute of Radioelectronics and Mining Electromechanics (Moskovskiy institut radioelektroniki i gornoy elektromekhaniki); Podol'sk Cement Plant (Podol'skiy tsementnyy zavod)

TITLE: The use of ultrasonic waves in the quality control of carbonate rocks

SOURCE: Tsement, no. 2, 1966, 20-21 14

TOPIC TAGS: cement,
sonic wave propagation

carbonate, quality control, ultra-

ABSTRACT: The feasibility of applying ultrasonic wave propagation for quality control of carbonate rocks to be used in the cement industry was investigated. A correlation between the mineral composition of the carbonate rocks and the rate of ultrasonic wave propagation was established. Maximum wave propagation of 2500 m/sec corresponds to dolomite-free rocks. For rocks containing from 0 to 16-20% dolomite, the ultrasonic wave propagation is 2500-2000 m/sec. The accuracy of the determination of the carbonate rock composition by the ultrasonic wave propagation technique is ±2%. Be-

UDC: 666.94.022 : 620.179.16

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ACC NR: AP6021385

cause of the high degree of accuracy and simplicity, the ultrasonic wave propagation method is recommended for use by the cement industry. Orig. art. has: 1 table.

SUB CODE: 08,20,11/ SUBM DATE: none/ ORIG REF: 003

Card 2/2 hs

COUNTRY : USSR
 CATEGORY : Cultivated Plants. M
 Grains. Legumes. Tropical Cereals.
 ABS. JOUR. : RZhBiol., No. 3, 1959, No. 10876
 AUTHOR : Zadontsev, A. I., Bondarenko, V. I., Povzik, M. M.
 INST. : All-Union Scientific Research Institute of Corn.
 TITLE : Characteristics of the Overwintering of Winter Crops in
 1955-1956 in the Steppe Regions of Ukraine.
 ORIG. PUB. : Byul. Vses. n.-i. in-ta kukuruzy, 1957, No. 1, 21-27
 ABSTRACT : The chief cause of the loss or thinness of the sowings in
 1955/56 (data of Sinel'nikovo Plant Breeding and Experi-
 mental Station) was the low temperatures at the end of
 the third ten days of January and in the beginning of Feb-
 ruary. Data are cited on the results of overwintering and
 on the yield of winter wheat of different sowing periods,
 and also on the results of the overwintering of different
 wheat varieties. The minimum temperature of the atmos-
 phere, on the soil surface and at the depth of the tiller

CARD: 1/2

COUNTRY : USSR
 CATEGORY : Cultivated Plants. Methods of Overwintering
 ABS. JOUR. : RZhBiol., No. 3, 1959, No. 10871
 AUTHOR : Stankov, N. Z.
 INST. : -
 TITLE : Methods and Procedures of the Study of the Root Systems
 of Plants Under Field Conditions.
 ORIG. PUB. : Byul. geogr. seti opytov s udobreniyami, 1957, No. 1,
 34-66.
 ABSTRACT : Described are: the procedures in taking the test samples
 of the roots during the agricultural soil testing (the
 trench field method and the method of the soil column)
 and in combination with the scientific agricultural
 studies (the columnar method and the boring method), pro-
 cedures in washing off the roots, and determination of
 their volume. Also discussed is the problem of the relia-
 bility of the field methods of calculating the roots. Of
 the methods of the study of the root systems in permanent
 field installations, there are described the trench method
 and the box method. Bibliography of 52 titles.

CARD: 1/1

Country : USSR
Category: Cultivated Plants. Grains.

Abs Jour: RZhBiol., No 22, 1958, No 100217

Author : Zadontsev, A.I.; Bondarenko, V.I.
Inst : AS UkrSSR
Title : Characteristics of the Germination of Winter
Wheat and Rye Seeds in Relation to the Depth
of Embedment.

Orig Pub: Dopovidi AN URSR, 1957, No 1, 58-62

Abstract: Experiments of many years at the Laboratory
of Agrophysiology, Ukrainian Scientific
Research Institute of Grain Cultivation, and
under field conditions at Sinel'nikovskaya
Breeding and Experiment Station. Large seeds
produce vigorous sprouts with a long and

Card : 1/3

M-11

Country : USSR
Category: Cultivated Plants. Grains.

M

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206220012-6"

Abs Jour: RZhBiol., No 22, 1958, No 100217

strong coleoptile which facilitates the
passage of the sprouts in the soil. Selection
of large seeds for sowing acquires important
significance when necessity exists (in droughty
years) for increasing the depth of seed em-
bedment. In the steppe regions of the Ukrainian
SSR, when the upper layer dries up, the appli-
cation of a deeper embedment of full-weight
seeds of winter wheat to 9-10 centimeters and
rye to 6-7 centimeters, secures a high germi-
nation in the field. Thus, with the embedment
of winter wheat seeds to 9 centimeters, the
sprouting in the field on the 10th day com-

Card : 2/3

Country : USSR
Category: Cultivated Plants. Grains.

M

ZADONTSEV, A.I.; BONDARENKO, V.I., kand.sel'skokhoz.nauk

How deep to sow wheat. Zemledelie 6 no.8:47-53 Ag '58. (MIRA 12:11)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I. Lenina i an USSR (for Zadontsev).
(Wheat)

BABAYAN, G.D.; BARKHATOV, G.V.; BOBROV, A.K.; BONDARENKO, V.I.; VASIL'YEV, V.G.; KOBELYATSKIY, I.A.; NIKOLAYEVSKIY, A.A.; TIKHOMIROV, Yu.P.; CHEPIKOV, K.R.; CHERSKIY, N.V.; CHICHMAREV, V.G.; BEKMAN, Yu.K., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Geology, and oil and gas potentials of the Yakut A.S.S.R.] Geologicheskoe stroenie i neftegazonosnost' Iakutskoi ASSR. Pod red. V.G.Vasil'eva. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gornotoplivnoi lit-ry, 1960. 478 p. (MIRA 13:11)

(Yakutia--Petroleum geology)
(Yakutia--Gas, Natural--Geology)

BERSONOV, S.A.; GRIGOR'YEV, S.V., kand.tekhn.nauk, zasluzhennyi deyatel' nauki Karel'skoy ASSR. Primali uchastiye: MEYKLOV, G.N., gidrolog; LITINSKIY, Yu.B., laborant; BONDARENKO, V.I.; PODRUGINA, R.A.; MINKINA, Ye.A.. KLOPOV, S.V., doktor tekhn.nauk, starshiy nauchnyy sotrudnik, retsenzent, otv.red.; TSVETKOV, N.V., red.izd-va; KRUGLIKOVA, N.A., tekhn.red.

[Water power resources of the Karelian A.S.S.R.; an account of potential resources of water power] Vodnoenergeticheskii kadastr Karel'skoi ASSR; kadastr potentsial'nykh zapasov vodnoi energii. Moskva, Izd-vo Akad.nauk SSSR, 1960. 406 p. (MIRA 13:9)

1. Zaveduyushchiy otdelom gidrologii i vodnogo khozyaystva Karel'skogo filiala Akademii nauk SSSR (for Grigor'yev). 2. Energeticheskii institut im. G.M.Krzhizhanovskogo AN SSSR (for Klopov). (Karelia--Hydroelectric power)

BRAZHNIKOV, N.V.; BONDARENKO, V.I.; CHISTOV, V.P.; GEKTINA, R.F., inzh., red.;
KUTENKOVA, G.M., tekhn.red.

[Automatic control of rail and girder rolling mills at the Nizhniy
Tagil Metallurgical Combine] Avtomatizatsiya rel'so-balochnogo
stana Nizhne-Tagil'skogo metallurgicheskogo kombinata. Sverdlovsk,
TSentr.biuro tekhn.informatsii, 1959. 46 p.

(MIRA 14:4)

1. Russia (1917- R.S.F.S.R.) Sverdlovskiy ekonomicheskii
administrativnyy rayon. Sovet narodnogo khozyaystva.
(Nizhniy Tagil--Rolling mills) (Automatic control)

BONDARENKO, V.I., Engineer

Control of the mechanical properties of welds in continuous locomobile boiler
production
Avtog. delo 23 no. 5, 1952

SOV/123-59-15-59363

Translation from: Referativnyy zhurnal. Mashinostroyeniya, 1959, Nr 15, p 72 (USSR)

AUTHORS; Brazhnikov, N.V., Gubert, S.V., Bondarenko, V.I.

TITLE; Automation Experience of a Rail-Structural Mill

PERIODICAL; Sb. statey. Ural'skiy z-d tyazh. mashinostr. im. S. Ordzhonikidze, 1958, Nr 1, pp 185 - 204

ABSTRACT; The experience of automating the milling machines for the finishing of rails, the mechanisms of the sawing section of the branding machine, the tables in front of the 800 planishing stand and the main drive of this stand as well as the tables, transporting the cold rails from the isothermic soaking pits to the central cooler of the rail mill 800, was examined. Besides, the operation of the fixing device of the cogging mill 900 was automated.

M.G.N.

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SOV/98-59-10-4/20

8(6), 14(6)

AUTHOR: ~~Rondarenko, V.I.~~, Engineer

TITLE: Vertical Drainage in the Construction of the Stalingrad Hydroelectric Plant

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 10, pp 17-20 (USSR)

ABSTRACT: An account is first given of the geological and hydrogeological conditions of the foundation of the GES and spillway dam in which the drainage system described in the article is installed: gravel and sand deposits containing 2 water-bearing seams, one with a coefficient of filtration of 3-10 m/24 hours and situated at a depth of 18 m (at the GES) and 41 m (at the spillway dam) from the flood level of the Volga River; the other with a coefficient of filtration of 3-5 m/24 hours and at a depth of 26 m and 48 m respectively. A system of constant vertical drainage was devised to lower the water pressure at these points. The system in the lower water of the GES was installed in 2 lines, 103 m apart, each consisting of rows of pipes at a distance of 10 m from each other, the rows being 38-42 m apart. In the first group there were 32

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Vertical Drainage in the Construction of the Stalingrad Hydroelectric Plant

pipes, and in the second 13, containing 3 layer reverse filters for half their length, the first layer being sand and the third layer chippings (Fig.1). Tables 1 and 2 provide the key data to these filter materials and the drainage pipes. It was intended to use porous concrete for the second layer, but research and practice showed that porous asphalt concrete is superior, and it was decided to use this; details of the composition are given. The vertical drainage installed in the lower water of the spillway dam consisted of one group of 2 rows of pipes (distance between rows 10 m and between pipes 20 m), making up a total of 79 pipes from 15-25 m deep; Fig.1b shows the filter in diagram form, the first and third layers being roughly the same as in the GES drainage, while the second layer consisted of hollow blocks of porous concrete, made from aluminous cement and granite chips. Data is provided in the text and illustrated in table 3. Fig.2a illustrates the metal casing (diameter 250 mm and height 350 mm) used in the manufacture of the asphalt concrete blocks, while the cast used for the porous concrete blocks is shown in fig.2b, which

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Vertical Drainage in the Construction of the Stalingrad Hydroelectric Plant

contains a metal casing 350 mm in diameter, inside which is a tube 150 mm in diameter and 85 mm high. BU-20-2 and UKS-30 percussive cable machines were used in the construction of the drainage system, and drilling was carried out by 2 or 3 columns of pipes. A brief account of the insertion of the filtration layers is then given - the asphalt blocks were covered with a double layer of kuzbasslak (Kuznetsk Coal Field Slag) to prevent erosion and then lowered into the holes by means of a cable as shown in fig.3a; the method used for porous concrete blocks can be seen in fig.3b, whereby the blocks, .75 m in length, were rammed in position by means of the device illustrated. The drainage system in the spillway dam was subjected to intensive saturation by means of water-jet pumps in order to clean it and test its efficiency, the pumps being operated for periods of 4-16 hours, sometimes increasing to 50 hours. It was found that when the level of the water in the pipes dropped by 1-6.4 m, the pump discharge was 2-14 m³/hour, while when the filtration of the sand base in 2 pipes was tested by means of isolating the pipes concerned, at a drop in the level of

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SOV/98-59-10-4/20

Vertical Drainage in the Construction of the Stalingrad Hydroelectric Plant

the water of 10-11 m the first pipe showed a debit of $.6 \text{ m}^3/\text{hour}$ and the second of $1.2 \text{ m}^3/\text{hour}$. The author offers the conclusion that this system is suitable for use when the pressure from the reservoir amounts to 9-10 m. There are 3 diagrams and 3 tables.

Card 4/4

BOYNOV, B.M., inzh.; BONDARENKO, V.I., inzh.

Experience with construction of industrial buildings on macroporous
soil. Prom.stroi. 40 no.8:8-11 '62. (MIRA 15:11)
(Volgograd Province--Industrial buildings)
(Soil stabilization)

BONDARENKO, V.I.

Prostate adenoma in adolescence. Urologia 21 no.3:57-58 J1-S '56.
(MLRA 9:12)

1. Iz urologicheskoy kliniki (zav. - prof. A.M.Gasparyan) I Lenin-
gradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.
(PROSTATE HYPERTROPHY
in adolescence)

GORNSHTEYN, D.K.; GUDKOV, A.A.; KOSOLAPOV, A.I.; LEYPTSIG, A.V.;
MEL'NIKOV, V.M.; MOKSHANTSEV, K.B.; FRADKIN, G.S.; CHERSKIY,
N.V.; TROFIMUK, A.A., akademik, nauchn. red. vyp.; ROZHKOVA,
I.S., glav. red.; KOBELYATSKIY, I.A., zam. glav. red.;
SHATALOV, Ye.G., zam. glav. red.; BONDARENKO, V.I., red.;
GRINBERG, G.A., red.; YELOVSKIKH, V.V., red.; RUSANOV, B.S.,
red.; SEMENOV, G.T., red.; TKACHENKO, B.V., red.; KALANTAROV,
A.P., red.izd-va; GUSEVA, A.P., tekhn. red.

[Basic stages of the geological development and prospects for
finding oil and gas in the Yakut A.S.S.R.] Osnovnye etapy geo-
logicheskogo razvitiia i perspektivy neftegazonosnosti Iakut-
skoi ASSR. [By] D.K.Gornshtein i dr. Moskva, Izd-vo AN SSSR
1963. 238 p. (MIRA 16:12)

(Yakutia--Petroleum geology)
(Yakutia--Gas, Natural--Geology)

SHESTOPALOV, Aleksandr Osipovich, kand. tekhn. nauk; BONDARENKO, Viktor Ivanovich, inzh.; KOSTROV, I.N., inzh., retsenzent; ENGEL', F.F., inzh., nauchnyy red.; GENKIN, Ye.M., red.; SEMUSHKIN, I.S., tekhn. red.

[Lowering the water level in the construction of the Volga Hydroelectric Power Station (22d Congress of the CPSU)] Voponizhenie na stroitel'stve Volzhskoi gidroelektrostantsii imeni XXII s"ezda KPSS. Moskva, Gidroproekt, 1962. 86 p.
(MIRA 17:4)

ZADONTSEV, A.I., akademik; BONDARENKO, V.I., kand. sel'skokhoz. nauk

Effect of growing conditions on the development of the root system and the yield of corn. Agrobiologiya no.2:116-224
Mr-Apr '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy, Dnepropetrovsk. 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for Zadontsev).

L 16058-66 EWT(d) IJP(c)

ACC NR: AP6004067

SOURCE CODE: UR/0040/65/029/005/0828/0834

AUTHORS: Bondarenko, V. I. (Nizhniy Tagil); Krasovskiy, N. N. (Sverdlovsk); Filimonov, Yu. M. (Sverdlovsk)

ORG: none

TITLE: The problem of putting to rest a linear system

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 5, 1965, 828-834

TOPIC TAGS: differential equation, optimal control, steepest descent

ABSTRACT: The authors consider a controlled system described by the linear vector differential equation

$$\frac{dx}{dt} = Ax + Bu \quad (1)$$

where x is an n -dimensional vector of the phase coordinates of the controlled object and u describes the controlling influence. By the method of steepest descent they solve the problem of choosing the (optimal) control $u^0(t)$ which in given time T takes (1) from state x_0 to state $x(T)$ minimizing

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B

16, 44, 55

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ACC NR: AP6004067

$$J(u) = \max \left\{ \max_{\tau} |u(\tau)|, \theta \int_0^T |u(\tau)| d\tau \right\} = \min_{(\theta = \text{const})} \quad (2)$$

They treat several specific examples. Orig. art. has: 4 figures and 30 formulas.

SUB CODE: 12/

SUBM DATE: 10Jun65/

ORIG REF: 003

Card 2/2 *JH*

BONDARENKO, V. I.

"Materials on Clinical Treatment of Erysipelas." Thesis for degree of Cand.
Medical Sci. Sub 7 Jun 49, Central Inst for the Advanced Training of Physicians.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and
Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

SO: MLRA

BONDARENKO, V. I.

"Therapy in Food Toxinfections and Botulism," pages 61-71 of the book
"Treatment of Infectious Diseases," Moscow, 1953

Candidate of Medical Sciences

Presented 6 March 1953 (Moscow) at the All-Union Conference on the Control of
Dysentery sponsored by the Ministry of Public Health SSSR.

Translation No. 474, 19 Oct 1955.

BONDARENKO, V.I.

Relation of the results of the Weil-Felix reaction to agglutination properties of Proteus strains. Zhur.mikrobiol., epid. i immun. 30 no.12:15-21 D '59. (MIRA 13:5)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.
(TYPHUS immunol.)
(PROTEUS immunol.)
(AGGLUTINATION)

Bondarenko, V. I., Gutman, M. M., Zatulovskiy, B. G., Ponomareva, G. YE.,
and Dzetsina, L. V.

Further studies of sporadic cases of typhus in Kiev, City. *g 116*

Materialy nauchnykh konferentsii, Kiev, 1949. 288pp
(Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

Bondarenko, V. I.

. About the application of the antigen of L'vov Institute of
Epidemiology, Microbiology and Hygiene (IEMH) in the complement
fixation reaction in spotted typhus. 111

Materialy nauchnykh konferentsii, Kiev, 1959. 288pp
(Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

BONDARENKO, V.I.

Experimental study of sporadic cases of typhus. Vop.virus. 5
no.3:346-351 My-Je '60. (MIRA 13:9)

1. Kiyevskiy institut epidemiologii i mikrobiologii.
(TYPHUS FEVER)

BONDARENKO, V.I.

Use of Lvov antigen in the complement fixation reaction in typhus fever. Vrach. delo no.12:121-123 D '60. (MIRA 14:1)

I. Kiyevskiy nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii (nauchnyy rukovoditel' - deyatvitel'nyy chlen AMN SSSR, prof. L.V. Gromashevskiy).
(ANTIGENS AND ANTIBODIES) (AGGLUTINATION)
(TYPHUS FEVER)

ZATULOVSKIY, B.G.; BONDARENKO, V.I.

Comparative characteristics of serological methods for the diagnosis
of typhus. Lab. delo 6 no.4, 36-41 JI-Ag '60. (MIRA 13:12)

1. Kiyevskiy institut epidemiologii i mikrobiologii (dir. S.N.Terekhov).
(TYPHUS FEVER) SERUM DIAGNOSIS

BONDARENKO, V. I.

Cand Med Sci - (diss) "Results of a study of sporadic cases of typhus [sypnyy tif]." Kiev, 1961. 18 pp; (Kiev Order of Labor Red Banner Medical Inst imeni Academician A. A. Bogomol'ts); 200 copies; price not given; list of author's works at end of text (10 entries); (KL, 5-61 sup, 201)

ZATULOVSKIY, B.G., starshiy nauchnyy sotrudnik; BONDARENKO, V.I., mladshiy
nauchnyy sotrudnik; KUTOMANOVA, N.P.

Q fever in some regions of the Ukrainian S.S.R.; clinical and
laboratory data. Vrach. delo no.1:126-130 Ja '62. (MIRA 15:2)

1. Kiyevskiy institut epidemiologii i mikrobiologii (nauchnyy
rukovoditel' - deystvitel'nyy chlen AMN SSSR, prof. L.V.Gromeshevskiy)
i Chernigovskaya gorodskaya bol'nitsa.
(UKRAINE_Q FEVER)

BOYNOV, B.M., inzh.; BONDARENKO, V.I., inzh.

Special operations in construction of the Volga
Hydroelectric Power Station (22nd Congress of the CPSU).
Mont. i spets. rab. v stroi. 24 no.2:21-24 F '62. (MIRA 15:6)

1. Volgogradgidrostroy.
(Volga Hydroelectric Power Station (22d Congress of the CPSU))

ZATULOVSKIY, B.G., starshiy nauchnyy sotrudnik; BONDARENKO, V.I., mladshiy
nauchnyy sotrudnik

Q fever of occupational origin in some provinces of the Ukrainian S.S.R.
Gig. i san. 27 no.3:94-96 Mr '62. (MIRA 15:4)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.
(UKRAINE—Q FEVER) (OCCUPATIONAL DISEASES)

ZADONTSEV, A.I., akademik; BONDARENKO, V.I., kand.sel'skokhozyaystvennykh nauk

Winter hardiness and productivity of uneven-aged shoots of winter wheat and rye as related to the growing conditions and the variety. Agrobiologiya no.1:44-50 Ja-F '63. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy, g. Dnepropetrovsk. 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina (for Zadontsev).
(Wheat) (Rye)

BONDARENKO, V.I.

Morphological changes in winter wheat and rye seedlings as related to the disposition of seeds in sowing. Bot. zhur. 48 no.6:888-890 Je '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy, Dnepropetrovsk.

ZADONTSEV, A.I., akademik; BONDARENKO, V.I.; SATAROVA, V.D.

Difference in winter hardiness and productivity of winter wheat
shoots of different age. Dop. AN URSR no.10:1376-1380 '64.
(MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy.
2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk
im. Lenina, chlen-korrespondent AN UkrSSR (for Zadontsev).

ZATULOVSKIY, B.G.; MEL'NIK, Ya.I.; BONDARENKO, V.I.

Use of luminescent serological methods for laboratory
diagnosis of rickettsiosis; an abstract. Lab. delo no.10:
629 '64. (MIRA 17:12)

1. Kiyevskiy institut epidemiologii i mikrobiologii (direktor
S.N. Terekhov, nauchnyy rukovoditel' deystvitel'nyy chlen AMN
SSSR prof. L.V. Gromashevskiy).

L 28431-56 EWT(1)/T JK

ACC NR: AP6019123

SOURCE CODE: UR/0016/65/000/011/0138/0139

AUTHOR: Zatulovskiy, B. G.; Sokol, A. S.; Bondarenko, V. I.; Chernaya, T.T.; Shkol'nik, L. Ya.; Bogachik, L. I.

33
B

ORG: Kiev Institute of Epidemiology and Microbiology (Kiyevskiy institut epidemiologii i mikrobiologii); Kiev Medical Institute im. Bogomolets (Kiyevskiy meditsinskiy institut); Zaporozh'ya Institute for the Advanced Training of Physicians (Zaporozhskiy institut usovershenstvovaniya vrachey)

TITLE: Ornithosis in some Ukrainian cities

SCURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 11, 1965, 138-139

TOPIC TAGS: epidemiology, antibody

ABSTRACT: The purpose of the investigation was to detect patients with ornithosis and to study the epidemiological and clinical characteristics of the cases discovered, mainly in Kiev and Zaporozh'ye. Twenty cases were discovered among 640 patients and convalescents from diseases with various diagnoses (influenza, pneumonia, typhoid, meningoencephalitis, etc.)

The onset of the diseases was generally abrupt, with elevated temperature and chills, headache, chest pain, and dry cough. Some patients complained of nausea and vomiting, loss of appetite, and insomnia. The feverish period ranged from 6 days to 2-3 weeks. The lungs were involved in al-

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UDC: 616.988.73

ACC NR: AP6019123

most all cases. Inflammatory foci were found within a day or two after admission to the hospital. The time that complement-fixing antibodies appeared and the height of the titers varied from person to person. ○

Epidemiological investigation revealed that, with the exception of a single family, the disease was random. Although many individuals were hospitalized late, none of their family or friends contracted the disease, the principal source of which was pigeons. [JPRS]

SUB CODE: 06/ SUBM DATE: 17Dec64 .

Card 2/2

78

ZADONTSEV, A.I., akademik; BONDARENKO, V.I., kand. sel'skokhoz.nauk; POVZIK, M.M.

Optimal soil moisture and productivity of wheat plants of various
ages. Dokl. Akad. sel'khoz. nauk no.3-8 Mr '65.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzv.

ZATULOVSKIY, B.G. [Zatulovs'kyi, B.H.]; BONDARENKO, V.I.

Duration of the preservation of specific antibodies in persons
who suffered from typhus in the past. Mikrobiol. zhur. 27
no.2:64-68 '65. (MIRA 18:5)

1. Kiyevskiy institut epidemiologii i mikrobiologii.

ZATULOVSKIY, B.G.; BONDARENKO, V.I.

Study of Q fever in the Ukrainian S.S.R. Zhur. mikrobiol.
epid. i immun. 33 no.10:116-121 0*62 (MIRA 17:4)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.

LYSAK, G.D.; BONDARENKO, V.I.

Eye for joining a hoisting vehicle with a steel cable.
Gor. zhur. no.10:72 0 '63. (MIRA 16:11)

BOYNOV, B.M. (Volzhskiy); BONDARENKO, V.I. (Volzhskiy)

Construction of a hydroelectric power station on semi-
crystalline soil. Osn., fund.i mekh.grun. 4 no.5:18-21 '62.

(MIRA 15:12)

(Volga Hydroelectric Power Station (22nd Congress of the CPSU -
Soil mechanics)

BRAZHNIKOV, Nikolay Vasil'yevich; BONDARENKO, Vladimir Ivanovich;
CHISTOV, Villen Petrovich; DRALYUK, B.N., retsenzent;
SMOL'NIKOV, L.P., red.; BUR'KOV, M.M., red. izd-va; KOROL',
V.P., tekhn. red.

[Automatic control of blast furnace and rolling mill processes with use of digital computers] Avtomatizatsia domennogo i prokatnogo proizvodstva s primeneniem tsifrovyykh schetnoreshaiushchikh ustroystv. Sverdlovsk, Metallurgizdat, 1962.
256 p. (MIRA 15:12)

(Blast furnaces) (Rolling mills)
(Electronic digital computers)

VASIL'YEV, Viktor Grigor'yevich; KOVAL'SKIY, Vitaliy Vladimirovich;
CHERSKIY, Nikolay Vasil'yevich; BONDARENKO, V.I., red.;
IGNAT'YEV, I.P., red. izd-va; PARNIKOV, Ye.S., tekhn. red.

[Origin of diamonds] Problema proiskhozhdeniaalmazov.
IAkutsk, IAkutskoe knizhnoe izd-vo, 1961. 151 p.
(MIRA 15:3)

(Diamonds)

BRAZHNIKOV, N.V., kand.tekhn.nauk; BONDARENKO, V.I., inzh.; OSADCHIY, N.I.,
inzh.; KHRIPKO, Yu.I., inzh.; CHISTOV, V.P., inzh.

Automatic-control system for scale cars. Mekh.i avtom.proizv. 14
no.10;23-26 0 '60. (MIRA 13:10)
(Weighing machines) (Automatic control)

L 12044-65 EWT(1)/EPA(s)-2/ENG(k)/EWT(m)/EPA(sp)-2/EPF(n)-2/EPA(w)-2/T/EWP(t)/
EWA/EWP(b) Pz-6/Pab-10/Pt-10/Pu-4 LJP(c)/SSD/ASD(m)-3/AFWL/ASD(f)-2/ESD(ga)/
ACCESSION NR: AP4045119 ESD(t)/SSD(b) JD/WW/JG/AT 8/0048/64/028/009/1545/1547

AUTHOR: Bondarenko, V.K.; Gus'ko, Yu.K.; Pashchenko, V.P.

TITLE: Determination of the thermoelectronic emission constants of metal film cathodes of converters Report, Tenth Conference on Cathode Electronics held in Kiev, 11-18 Nov 1983

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.9, 1984, 1545-1547

TOPIC TAGS: thermoelectric converter, cesium vapor diode, work function, thermionic emission, molybdenum, niobium

ABSTRACT: Two procedures for measuring the thermoelectronic emission constants of electrodes in cesium vapor diodes are discussed. The first technique is based on the conclusion, drawn from work of V.P.Karmazin, I.I.Kazikov and I.P.Stakhanov (Izv. AN SSSR, Ser.fiz.28, 2541, 1984 - Abstract Acc.Nr:AP4045318) that under conditions of thermodynamic equilibrium the change in the anode potential of a cesium vapor diode carrying a constant current due to a change in the anode temperature is essentially equal to the change in the anode work function. By measuring the equilibrium current as a function of the anode potential for different anode temperatures one can

1/3

L 12044-65

ACCESSION NR: AP4065319

thus determine the variation of the anode work function with temperature. The zero point on the resulting curve can be located by means of the known work function of the thick cesium layer that forms on the electrode at low temperatures (about 400°C). The work functions in cesium vapor of niobium at 0.12 torr and molybdenum at 0.23 torr were measured in this way, and the results are presented graphically. The molybdenum work function exhibited a pronounced minimum of 1.7 eV at 730°K. The second procedure consists in determining the thermionic emission (Richardson) current I_R from the relation $I = I_S / (1 - I/I_R)$, where I_S is the equilibrium current and I is the current through the converter under conditions of overcompensation. Results of such measurements of the emission current of molybdenum are presented. They are considered to be in satisfactory agreement with the measurements of R.L.Aamodt (J.Appl. Phys. 33, 2080, 1962). It is concluded that the proposed procedures can be employed to measure the thermoelectronic emission constants of metal film cathodes in cesium vapor atmospheres of relatively high pressure, and that by a combination of the two techniques both the work function and the Richardson constant can be determined. "In conclusion, the authors express their deep gratitude to the late Prof. I. I. Bondarenko for valuable discussions." Orig.art.has: 4 formulas and 3 figures.

2/3

L 12044285

ACCESSION NR: AP1045319

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EI, MM

NR REF SOV: 002

OTHER: 001

3/3

SHAKHOVENKO, G.V., podpolkovnik meditsinskoy sluzhby; BONDARENKO, V.I.,
kapitan meditsinskoy sluzhby

Experience in the use of sterilization and distillation equipment
under field conditions. Voen.-med.zhur. no.11:65-67 '64. (MIRA 18:5)

L 10760-65 EMT(m)/EPP(c)/EMP(j)/T Pc-lj/Pr-lj/Pa-lj RPL RM/JW

ACCESSION NR: AP4047210

S/0190/64/005/010/1825/1828

AUTHOR: Nikolayev, A. F.; Bondarenko, V. M. 5

TITLE: Reaction of polyvinylamine with benzaldehyde, salicylaldehyde and furfural

SOURCE: Vysshomolekulyarnyye soyedineniya, v. 6, no. 10, 1964, 1825-1828

TOPIC TAGS: polyvinylamine, polymeric Schiff base, Schiff base, benzaldehyde, salicylaldehyde, furfural, polyalkylidenevinylamine, polyarylidenevinylamine

ABSTRACT: The authors describe the preparation and properties of polymeric Schiff bases obtained by the interaction of polyvinylamine with benzaldehyde, salicylaldehyde and furfural. The three new polymers: poly-N-benzylidenevinylamine (PBVA), poly-N-furfurylidenevinylamine (PFVA) and poly-N-salicylidenevinylamine (PSVA) were prepared by mixing equimolar alcoholic solutions of polyvinylamine with the corresponding aldehyde at either 65-70C (one hour) or room temperature (24 hours). After drying in powder form, the purified polymers were insoluble in water but soluble in benzyl alcohol, dimethylformamide and glacial acetic acid. PSVA and PFVA were also soluble in ethyl alcohol and pyridine. In glacial acetic acid, all 3 polymers showed an abnormal dependence of viscosity on concentration; this is characteristic of polyelectrolytes due to the presence of an electron-attracting

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L 10760-65

ACCESSION NR: AP4047210

N atom in the polymer chain which is able to attract moving hydrogen ions. The glass temperature and yield point were higher for PSVA (80 and 200C) than for PBVA (60 and 180C) or PFVA (70 and 190C). The elasticity of all 3 polymers was practically the same at 120C; at 140C, however, the degree of deformation was 13% for PBVA, 20% for PFVA and 26% for PSVA. The rigidity of the molecular chains increased in the following order: PBVA < PFVA < PSVA. The polymers are readily hydrolyzed in dilute mineral acids at the -N=CH- bond, and more difficultly hydrolyzed in dilute alkali. The C, H, and N analysis for each polymer is presented. Orig. art. has: 2 figures, 1 table and 1 structural formula.

ASSOCIATION: Leningradskiy tekhnologicheskii Institut im. Lensoveta (Leningrad Technological Institute)

SUBMITTED: 09Dec63

ENCL: 00

SUB CODE: 00, MT

NO REF SOV: 007

OTHER: 005

Card: 2/2

BONDARENKO, V.M.

Characteristics of circuits with controllable nonlinear resistors.
Mat. mod. i elek. tsepi no.1:208-213 '63. (MIRA 16:11)

BONDARENKO, V.M.

AUTHOR: BONDARENKO, V.M., Engineer, 105-8-8/20
PUKHOV, G.Ye., Dr. techn. sc.

TITLE: On a Numerical Method for Calculating Electric Circuits.
(Ob odnom chislennom metode rascheta nekotorykh elektri-
cheskikh tsepey, Russian)

PERIODICAL: Elektrichestvo, 1957, Nr 8, pp 44 - 46 (U.S.S.R.)

ABSTRACT: A method is proposed, by which the calculation of a certain class of electric circuits can be carried out not only without a joint solution of large systems of equations, but also without a substantial transformation of the circuit. A solution in a general form cannot be found by this method, but the numerical values of current intensities can be determined. The method proposed here is more complete than that proposed by O.M. BOGATYREV (Elektrichestvo, 1954, Nr 2), since an analytical solution can be found here and therefore a greater accuracy of calculation can be obtained. It is true that the method is intended for direct current here, but it can also be used for the calculation of alternating-current circuits, namely for linear circuits and, in form of an approximate calculation, for non-linear circuits. An example is calculated.

Card 1/2

On a Numerical Method for Calculating Electric Circuits. 105-8-8/20

(With 5 illustrations, 5 Slavic references)

ASSOCIATION: Institute of Radio Engineering in Taganrog. (Taganrogskiy radiotekhnicheskiy institut, Russian)
PRESENTED BY:
SUBMITTED: 14.6.1956
AVAILABLE: Library of Congress

Card 2/2

BONDARENKO, V.K., fel'dsher (Shakhta "Kochegarka," gorod Gorlovka)

How we organized the work of a health center. Fel'd. i akush. 21
no.9:34-36 S '56. (MLRA 9:10)

(MINES--DISEASES AND HYGIENE)

L. 16841-66 EWT(m)/T WE
ACC NR: AMB000299 (N)

Monograph

UR/

Gittis, Vladimir Yul'yevich; Bondarenko, Vladimir Leonidovich; YEFIMOV, Teodor
Petrovich; Polyakov, Yuriy Gavrilovich; Churbanov, Boris Mikhaylovich

Theoretical principles of the operation of marine diesel engines (Teoreticheskiye
osnovy ekspluatatsii sudovykh dizeley) Moscow [Izd-vo "Transport"] 1965. 375 p. ^{23.44.55} ⁴⁷ ^{E+1}
illus., biblio. 3000 copies printed.

TOPIC TAGS: diesel engine, internal combustion engine, engine performance character-
istic, shipbuilding engineering, marine engineering, marine engine

PURPOSE AND COVERAGE: This book is intended for engineers and technicians working
with marine diesel power units, and may be used as a textbook by students and degree
candidates in higher educational institutions and marine and shipbuilding institutes.
The book attempts to relate the theory of internal-combustion engines, propellers,
and hydraulic resistance to the actual operation of diesel-engine units. Problems
involving fuel combustion and heat distribution in engines are reviewed along with
the operating characteristics of diesels under shipboard conditions. The effect of
use conditions on diesel operation and the monitoring of the quality of diesel
operation under various ship running conditions are discussed. Recommendations are
given for selecting diesel operating conditions, and methods are presented for
plotting and using capacity charts for monitoring the propulsion gear (engine, screw
hull) of a vessel. The authors thank Doctor of Technical Sciences, Professor V. I.
Nebesnov for his valuable remarks and suggestions.

Card 1/2

UDC: 621.431.74.004(01)

L 16841-66

ACC NR: AM6000299

TABLE OF CONTENTS (Abridged):

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Ch. I. Theoretical fundamentals for the feasibility of an efficient operating cycle for a diesel --- 11

Ch. II. The variation in the working-process parameters of a diesel during operation according to different characteristics --- 33

Ch. III. The effect of use factors on marine diesel operation --- 118

Ch. IV. Operating conditions of marine diesels --- 227

Ch. V. The use of capacity (initial) charts for monitoring the quality of operation and condition of marine diesels --- 332

Appendices --- 365

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SUB CODE: 13,21/ SUBM DATE: 28Jul65/ ORIG REF: 089/ OTH REF: 007

Card 2/2 mc

TROFIMOV, V., inzhener; BONDARENKO, V. M. inzhener.

Apparatus for hardening concrete slabs by heat. Stroitel'
no.8:24-25 Ag '57. (MLRA 10:9)
(Concrete slabs)

KHML'NITSKIY, L.Ya.; BONDARENKO, V.M.; IVAIOV, P.S.; DUDKO, V.P.

Universal reinforced concrete element. Gor. zhur. no.10:31
O '58. (MIRA 11:10)
(Reinforced concrete construction--Patents)

BONDARENKO, V. M.

Cand Tech Sci - (diss) "Several problems of vibrations of reinforced-concrete and concrete structures." Khar'kov-Kiev, 1961. 21 pp; (Academy of Construction and Architecture Ukrainian SSR); 225 copies; free; (KL, 5-61 sup, 187)

LYUBIMOV, A.A.; BONDARENKO, V.M.; GERZHULA, L.B.; PALCHINSKIY, O.V.

Study of the deformation concrete. Sbor. nauch. trud. KGRI
18:29-44 '62. (MIRA 17:5)

BONDARENKO, V.M., inzh.

Labor safety in underground transportation in Ukrainian coal mines.
Bezop.truda v prom. 7 no.1:11-13 Ja '63. (MIRA 16:2)

1. Gosudarstvennyy komitet pri Sovete Ministrov UkrSSR po nadzoru
za bezopasnym vedeniyam rabot v promyshlennosti i gornom nadzoru.
(Ukraine -Mine haulage—Safety measures)

NIKOLAYEV, A.F.; BONDARENKO, V.M.

Poly-N-dimethylvinylamine. Vysokom. soed. 7 no. 10:1743-1745
0 '65. (MIRA 18:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

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

1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 3RD AND 4TH ORDERS

ca *25*

Fiber from bast. V. M. Bondarenko. Russ. 54,145, Nov. 30, 1939. The bast is boiled under atm. or higher pressure in an aq. extract of the charcoal obtained by carbonization of the residue from alc. fermentation of molasses.

COMMON ELEMENTS COMMON VARIANTS INDEX

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

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

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

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

PROCESSES AND PROPERTIES INDEX

100 AND 4TH ORDERS

ea

25

A chemical method for the preparation of hemp fibers. V. M. Bondarenko. *Len i Konoplya* 5, No. 10, 113 (1938); *Khim. Refrat. Zhur.* 2, No. 4, 120 (1939).—Pectin substances were destroyed and the fiber was freed from the accompanying components by treating hemp straw with H_2SO_4 and starch paste. The acid hydrolyzed starch to glucose and formed an acid medium in which pectin produced a gel that was washed away. The acid was neutralized with wood ash. A fiber was obtained which was equal to that obtained by natural retting in color strength and elasticity. Good results were also obtained by treatment with wood ash or with ash obtained from the combustion of malt grains from alc. distilleries. W. R. H.

WATERMILLS INDEX

OVEN

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

INDEX LETTERS

1ST AND 2ND ORDERS

INDEX LETTERS

BONDARENKO, V.M.; LITVINENKO, I.I.

Chemical structure of hop strobiles following root and foliar feeding.
[with summary in English]. Dop. AN URSR no.1:67-70 '57. (MLRA 10:4)

1. Zhitomirs'ka naukovo-doslidnay stantsiya khmelyarstva. Predstaviv
akademik AN URSR P. A. Vlasnyuk.
(Hops)

USSR/Cultivated Plants - Technical, Chemicals, Sacchariferous. 17

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39460

Author : Bondarenko, V.M., Parshikov, V.M.

Inst : AS UkrSSR

Title : The Influence of Manganese on Physiological Processes and Productivity of Hops.

Orig Pub : Dopyvidi AN UkrSSR, 1957, No 2, 196-199

Abstract : The application of Mn in the form of $KMnO_4$ increased the yield of hops by 15.9%. A joint introduction of K_2CO_3 and lime on weakly acid clayey soil was less effective. Mn contributed to a more intensive transfer of sugars in plants. Therefore, their content in leaves of the lower part of the plant (1-1.5 m) diminished in the stage of blossoming. The growth intensity of hops and the content of chlorophyll in leaves increased. -- A.M. Smirnov

Card 1/1

- 133 -

COUNTRY : USSR
CATEGORY : Cultivated Plants - Industrial, Oleiferous, Sugar. M
NO. : 108201, No. 11, 1958, No. 00503
AUTHOR : Sondarenko, V. M.
TITLE : The Effect of Top Dressing on the Productivity of Hops
ORIG. PUB. : Byul. sel'sk'khozgosp. inform. zhitor. sbl. vid. r-va dlya
poshit. polit. ta nauk. zhani', 1957, No. 4, 70-75
ABSTRACT : No abstract.

Card: 1/1

KLIMENKO, V.S.; ZVEREV, M.P.; GRUZDEV, V.A.; BONDARENKO, V.M.; MICHURINA, G.A.

Synthetic fibers based on isotactic polypropylene. Khim.volok.
no.4:19-22 '59. (MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna.

(Textile fibers, Synthetic)
(Propene)

BONDARENKO, V. M.

2

15.11.66

87477
S/103/60/000/006/004/005
B020/8038

AUTHORS: Grushev, V. A.; Klisankov, V. S.; Seizova, L. A.;
Michurina, G. A.; Zhuchkova, M. G.; Bondarenko, V. M.
TITLE: Thermooxidative Destruction of Polypropylene and the
Fiber on Its Basis

PERIODICAL: Khimicheskiye volokna, 1960, No. 6, pp. 19-22

TEXT: The authors wanted to study the influence of the composition of the polypropylene fractions on the thermooxidative destruction and the identification of the possibilities of stabilizing the polymer in shaping and for the fiber. Polypropylene with the following characteristic values was used for the study: molecular weight 200,000, contents of the amorphous fraction 4.3%, contents of the heptane fraction 5.7%, ash contents 0.4%. The fibers were produced according to the process described in Ref. 3. The thermooxidative destruction of the polypropylene was studied between 140 and 240°C, since the fiber is shaped at these temperatures. The data obtained are given in Fig. 1, and show that a period of activation of the process exists, whose value decreases with rising temperature, and whose

occurrence depends on the accumulation of radicals. The dependence of the intrinsic viscosity of the polypropylene heated to 200°C (Fig. 2) and 140°C (Fig. 3) on the composition of the fractions is traced graphically. It can be seen from Fig. 2 that the change of the composition of the fraction at temperatures above the melting point of the polymer does not cause any change of the intrinsic viscosity during heating, and thus neither does the thermooxidative destruction. It can be seen from Fig. 3 that the introduction of 1% of the amorphous polypropylene fraction reduces the intrinsic viscosity of the polymer. Fig. 4 shows the change of the intrinsic viscosity of the polymer in dependence on the change of the temperature to 240°C (Table 1). The activity of the antioxidants used, which are Isonol B and Isonol A, however, increases when increasing the temperature. The thermooxidative destruction of polypropylene and stabilizers on the fibers is studied in Ref. 4. From the data obtained it can be seen that the addition of 0.1% Isonol and 0.15% Isonol B is sufficient for the stabilization of polypropylene at 200°C. Fig. 5 shows the dependence of intrinsic viscosity and strength of the fiber on the duration of heating and the polymer composition. Table 2 gives data on the effect of the stabilizer used and the duration of heating on the thermooxidative stability of the fiber, which shows that fibers with 1% Neosone B

and Isonol respectively, or a mixture of 0.5% Neosone B with 0.5% of a phenol-styrene condensation product do not change their properties when heated for 50 hours at 140°C. There are 3 figures, 3 tables, and 3 Soviet references.

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers)

L 12004-65

EPA(s)-2/ENI(m)/ENP(j)/EPF(c)/T Pc-4/Pr-4/Pt-10 RPL RM

ACCESSION NR: AP4047211

S/0190/64/006/010/1829/1831

AUTHOR: Bondarenko, V. M.; Nikolayev, A. F.; Makarov, K. A.

TITLE: Coordination polymers based on poly-N-salicylidenevinylamine ^B

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 10, 1964, 7
1829-1831

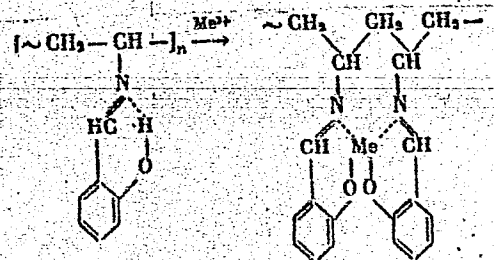
TOPIC TAGS: coordination polymer, chelate polymer, polysalicylidene-
vinylamine

ABSTRACT: Communication 2 of the series "Polyvinylamine and its derivatives" reports the synthesis and properties of 5 coordination polymers based on poly-N-salicylidenevinylamine (I). The coordination polymers were prepared by reacting solutions of I in dimethylformamide and acetates of divalent metals with coordination number 4 (Cu, Fe, Co, Ni, and Zn) in stoichiometric ratio:

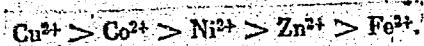
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L 12004-65

ACCESSION NR: AP4047211



The coordination polymers were amorphous colored powders insoluble in the common solvents, except the Cu- or Ni-containing polymers, which were soluble in dimethylsulfoxide. They softened above 250, and their weight loss after 2 hr at 250C in air was 5-10%. Their thermal stability depended on the metal present, decreasing in the order:



Orig. art. has: 1 figure, 1 table, and 1 formula.
Card 2/3

L 12004-65

ACCESSION NR: AP4047211

ASSOCIATION: Leningradskiy tekhnologicheskii institut imeni Lensoveta
(Leningrad Technological Institute)

SUBMITTED: 09Dec63

ATD PRESS: 3120

ENCL: 00

SUB CODE: OC

NO REF SOV: 007

OTHER: 004

Card 3/3

BONDARENKO, V.M., inzh.; VETROV, A.N., inzh.

Selection of oil samples for analysis from oil-filled 110 kv.
cable line systems. Energetik 12 no.12:1-5 D '64
(MIRA 18:2)

L 65181-65 EWT(d)/EWT(m)/EWP(w)/T/ESP(t)/EMP(b)/ETG(m) JD/WH/EN
ACCESSION NR: AR5019384 UR/0124/65/000/007/V081/V081

SOURCE: Ref. zh. Mekhanika, Abs. 7V657

AUTHOR: Bondarenko, V. M.; Shashin, V. V.

TITLE: Effect of previous strain history on natural vibrations of bodies capable of creep

CITED SOURCE: Sb. Zhelezobeton. konstruktsii. Vyp. 1(30). Khar'kov, Khar'kovsk. un-t, 1964, 3-7

TOPIC TAGS: creep, structure vibration, vibration analysis, vibration stress, vibration theory, strain

TRANSLATION: It is noted that the stressed state of a body and the mechanical properties of many materials depend to a substantial degree on the previous history of strain. The property of creep, typical for the majority of materials, produces relaxation phenomena affecting the stressed state of a body. Characteristics of natural vibrations of bodies (i. e., amplitude, frequency, phase shift, logarithmic decrement of attenuation, zero position) are predetermined by the stressed state of such bodies, by the support specifications, and by mechanical strain factors. The report illustrates results of experimental studies carried out to evaluate qualitatively the effect of prior strain history

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L 65181-65

ACCESSION NR: AR5019384

on natural vibrations of bodies characterized by creep. Tests involved cantilever samples of ebonite (length = 250 mm, cross section 5x40 mm). Wire strain gages (base = 20 mm) were used to measure natural vibration strains, while static deformations during the prior strain history were measured by spring-type dial indicators. The samples were subjected to two different types of prior strain history: 1) Free development of creep flow at constant stress; 2) Preliminary deformation at total strain constant in time (relaxation conditions). The amplitude of vibration over a period of 7 days decreased in the latter case by 25% to 30% in comparison to the former case. The level of decrease over a period of 21 days was 60%. It is concluded that free vibrations of real bodies depend to a significant degree on the prior history of strain. I. I. Ulitskiy

SUB CODE: AS, MT

ENCL: 00

Card 2/2 *7/2/66*

BLOKH, Ya.L.; BONDARENKO, V.M.; KOVALENKO, N.D.; TARKHOV, A.G.

Use of cosmic radiation for the purposes of underground
geophysical prospecting. Prikl. geofiz. no.38:142-157 '64.
(MIRA 18:11)

ACC NR: AM7002843

Monograph

UR/

Bondarenko, Vladimir Mikhaylovich

Application of cosmic rays in geology (Ispol'zovaniye kosmicheskikh luchey v geologii) Moscow, Izd-vo "Nedra," 1965. 142 p. illus., biblio. 1,500 copies printed.

TOPIC TAGS: particle physics, cosmic radiation, cosmic ray measurement, cosmic ray particle, muon component

PURPOSE AND COVERAGE: This book is intended for scientific workers and students in the fields of geology, geophysics, and physical sciences; it may be of interest to general readers interested in the achievements of modern physics. The book deals with a method of geophysical prospecting for metal deposits based on the use of the high-energy muon component of cosmic rays. The physical concepts of the method are outlined and various types of equipment used for registering muons in mines and drill holes are described. An analysis is made of methods of processing data. The possibilities of using the method for solving various geological-geophysical problems are considered.

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UDC: 537.591:550.8

AGC NR: AM7002843

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Ch. 3. Methods of field work in underground registration of cosmic radiation -- 75

Ch. 4. Experience with the application of the method of underground registration of cosmic radiation -- 91

Ch. 5. Prospects of the future use of "geocosmic" methods -- 128

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SUB CODE: 20, 08/ SUBM DATE: 14Apr65/ ORIG REF: 025/ OTH REF: 037/

Card 2/2

9.72-00

28293
S/194/61/000/005/022/078
D201/D303

AUTHOR: Bondarenko, V.M.

TITLE: A method of determining the roots of characteristic equations using electronic analogue computers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 34, abstract 5 B241 (Tr. 1-y mezhvuz. nauchno-tekh. konferentsii po elektr. modelirovaniyu zadach stroit. mekhan. soprotivleniya materialov i teorii uprugosti, B.m. Novocherk. politekhn. in-t, 1960, 182-183)

TEXT: The roots are determined of the form

$$a_1x^n + a_2x^{n-1} + \dots$$

$$\dots + a_{n-1}x^2 + a_nx + a_{n+1} = 0$$

using an electronic analogue computer. The computing has n integra-

Card 1/2

A method of determining the roots...

28203

S/194/61/000/005/022/078
D201/D303

ting operational amplifiers, one summing amplifier, variable coefficients units, zero indicator and a CRT indicator. The procedure for determining the roots of the equation is described. Experiments have shown that the error in root evaluation does not exceed 5% for the modulus and 5° for the argument. 1 figure. 2 references.

[Abstracter's note: Complete translation]

Gard 2/2

BONDARENKO, Vladimir Mikhaylovich

Use of Newton's method for calculating instantaneous current values
in nonlinear electrical circuits. Izv. vys. ucheb. zav.; elektromekh.
6 no.11:1159-1166 '63. (MIRA 17:4)

1. Starshiy inzhener instituta kibernetiki AN UkrSSR.

BONDARENKO, V. M.

"A method of determining values for analysis of the non-linear electric and electronic circuits."

report submitted for Intl Conf on Microwaves Circuit Theory & Information Theory, Tokyo, 7-11 Sep 64.

Inst of Cybernetics, AS UkSSR.

BONDARENKO, V.M., kand.tekhn.nauk

Determination of instantaneous current values in nonlinear
circuits using V.IU. Lomonosov's method. Elektrichestvo
no.11:51-53 N '64. (MIRA 18:2)

1. Institut kibernetiki AN UkrSSR.

BONDARENKO, V.M.; ZVEREV, M.P.; KLIMENKOV, V.S.; BEREZKINA, T.A.;
GERSHANOVICH, Yu.G.

Fiber formation from polypropylene. Khim. volok. no.6:10-13 '65.
(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna (for Bondarenko, Zverev, Klimenkov). 2. Kurskiy kombinat
(for Berezkina, Gershanovich).

L 8771-66

ACC NR: AR5018768

SOURCE CODE: UR/0274/65/000/007/A021/A022

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz'. Svodnyy tom, Abs. 7A139

AUTHOR: Bondarenko, V. M.

TITLE: Some numerical methods for analyzing electronic circuits

CITED SOURCE: Sb. dokl. Tashkentsk. politekhn. in-t, no. 6, 1964, 8-22

TOPIC TAGS: electronic circuit, electronic network

TRANSLATION: Application of numerical methods for analyzing some typical electron-tube and transistorized circuits with an allowance for their nonlinear characteristics is set forth. Those currents and voltage are taken as initial which permit finding other quantities one by one by means of solving first-order nonlinear equations. It is proven that any complicated circuit with one electron tube or transistor contains one determining quantity, such as the grid voltage, anode voltage, anode current, collector voltage, or base voltage. The sequence of calculations is represented by a flowsheet of analytical and graphical operations. In a general case, for a multiple network, pole currents or interpole voltages are chosen as the determining quantities; all other currents and voltages are expressed through them. An example is cited. Bib 4, figs 17.

SUB CODE: 09

Card 1/1^{jw}

UDC: 621.372.63

S/169/62/000/011/013/077
D228/D307

AUTHORS: Bondarenko, V.M., Kovalenko, N.D. and Tarkhov, A.G.

TITLE: Geophysical investigations of uranium deposits by the method of radio wave translucence

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1962, 56, abstract 11A337 (Izv. vyssh. uchebn. zavedeniy, Geol. i razvedka, no. 2, 1962, 71-82)

TEXT: The Kafedra razvedochnoy geofiziki NGRI (Exploration Geophysics Department of the NGRI) undertook an attempt to apply the radio-wave translucence method in two uranium deposits and also carried out modeling on models of finite conductance. The usual shaft-type equipment, including a wide-band (from 0.37 to 20 Mc/s) generator with 20 fixed frequencies working off a rod antenna, was used in the field investigations, as was a standard $\text{M}\bar{\text{N}}-12-2\text{M}$ (IP-12-2M) receiver. In the latter the output was changed from the pin to the screened operating antenna. The modeling work aimed at exposing the possibilities of a new electromagnetic profiling method, allowing

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