DOMAN, N.G.; SHKOL'NIK, R.Ya.; TERENT'YEVA, Z.A.

Direct proof of the participation of phosphoglyceric acid in the reducing photosynthetic cycle of carbon. Dokl. AN SSSR 156 no. 3:698-701 '64. (MIRA 17:5)

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SHKOL'NIK, R.Ya.; DOMAN, N.G.; SPEKTOROV, K.S.; LIN'KOVA, Ye.A.

Insoluble products of photosynthesis of a synchronous culture of Chlorella pyrenoidosa at various stages of development. Fiziol.rast. 12 no.6:1005-1011 N-D '65. (MIRA 18:12)

1. Institut biokhimii imeni A.N.Bakha AN SSSR i Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR, Moskva. Submitted October 5, 1964.

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Assimilation of carbon of monocarboxylic compounds by budding bacteria Hyphomicrobium vulgare Stuts. et Hartleb. Mikrobiologiia 24 no.1:3-11 Ja-F '65. (MIRA 18:7)

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CHKOL'NIK, R.Ya.; DOMAN, N.G.; KOBAS, T.S.

Additional data on chromatographic separation of metabolic products in fractions. Biokhimiia 30 no.2:265-267 Mr-Ap '65. (MIRA 18:7)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

ROMANOVA, A.K.; DOMAN, N.G.; RUBAN, Ye.L.

Products of short-term chemosynthesis in Nitrosomonas europaea. Mikrobiologiia 34 no.3:391-396 My-Je '65. (MIRA 18:11)

1. Institut biokhimii imeni A.N.Bakha AN SSSR, Moskva.

DOMAN, N.G.; TIKHONOVA, G.V. (Moskva)

Some problems of the energy of lithotrophic organisms. Usp. sovr. biol. 60 no.2:238-256 S-O '65. (MIRA 18:10)

1. Institut biokhimii AN SSSR.

GEYKO, N.S.; KRETOVICH, V.L.; ROMANOVA, A.K.; DOMAN, N.G.

Ketoacids of hydrogen bacteria. Dokl. AN SSSR 160 no.6:1414-1416 F '65. (MIRA 18:2)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Tekhnologicheskiy institut pishchevoy promyshlennosti, Moskva. 2. Chlen-korrespondent AN SSSR (for Kretovich).

L 43932-65 EWG(j)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(c) Pb-4/Pe-5 DD

ACCESSION NR: AP5011543 UR/0020/65/161/005/1231/1234

40

AUTHOR: Shkol'nik, R. Ya.; Doman, N. G.; Spektorov, K. S.; Lin'kova, Ye. A. 39

TITLE: Intermediate products of photosynthesis of a synchronous Chlorella culture at different stages of development

SOURCE: AN SSSR. Doklady, v. 161, no. 5, 1965, 1231-1234

TOPIC TAGS: photosynthesis, Chlorella, algae, phosphoglyceric acid, chromatography

ABSTRACT: Experiments were conducted to determine the inclusion of C^{14} in the primary products of photosynthesis of a synchronous Chlorella culture at different stages of its development. Chlorella pyrenoidosa was kept at 39C with a light-dark cycle of 8:16 hr. Four stages of development of the culture were selected, from the beginning of the light period to the formation of new autospores in the early part of the dark period. After filtration of a 5-ml suspension of each stage, the chlorella-coated filter was placed in a chamber at room temperature with 15% $C^{14}O_2$ in the air and exposed to light for periods of 2 and 10 sec, and 1 and 5 min. Intermediate products were fixed and extracted with alcohol. The activity of radioactive substances, both soluble and insoluble in alcohol, was determined. A large percentage of radioactivity (25—41%) was observed in the insoluble residue

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of different stages after 2-sec exposure. This finding does not agree with literature data on the solubility of early photosynthesis products. The failure of phosphoglyceric acid to pass into the alcohol solution may be explained by the presence of early phosphorus-containing products of photosynthesis in combined form, which are insoluble in acidified alcohol. As the culture develops, the rate of photosynthesis, i.e., the rate of C^{14} absorption per volumetric unit of the suspension, increases steadily except in the third stage (7 hr, 20 min of illumination). Of all durations of exposure to light, fixation of $C^{14}O_2$ is greatest in the fourth stage (9 hr, 20 min after the beginning of illumination). Chromatographic analysis of alcohol-soluble intermediate products of photosynthesis after 2-sec exposure showed one extremely radioactive compound. In the autospore stage, it appears in the zone of phosphoenolpyruvic acid, and in all other stages, in the zone of α-analine. Determination of the radioactivity of substances of the alcohol fraction, some of which are soluble and some insoluble in water, showed that 60—80% of the radioactivity for all exposures and at all stages of development is located in the water-soluble substances. Orig. art. has: 2 figures and 1 table. [JS]

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry, Academy of Sciences SSSR)

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L 43932-65

ACCESSION NR: AP5011543

SUBMITTED: 19Jun64 ENCL: 00 SUB CODE: IS

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Card 3/3

ACC NR: AP6025809 (A,N) SOURCE CODE: UR/0326/66/013/004/0595/0601

AUTHOR: Kraft, V. A.; Doman, N. G.; Vasileva, Z. A.

ORG: Institute of Plant Physiology im. K. A. Timiryazev, Academy of Sciences, SSSR, Moscow (Institut fiziologii rasteniy Akademii nauk SSSR); Institute of Biochemistry im. A. N. Bakh, Academy of Sciences, SSSR, Moscow (Institut biokhimii)

TITLE: Effect of defoliants on some products of photosynthetic assimilation of carbon dioxide

SOURCE: Fiziologiya rasteniy, v. 13, no. 4, 1966, 595-601

TOPIC TAGS: defoliant, defoliant effect, photosynthesis, plant physiology, defoliant agent, plant morphology, plant sensibility

ABSTRACT: The radioactive tracer method was used in studying the fixation of CO_2 in plant tissue treated with defoliants. Fig. 1 shows the effects of defoliants on the intensity of $C^{14}O_2$ fixation by cotton and bean leaves. Treatment with Butiphos and BEXT caused decreased photosynthetic fixation of labeled CO_2 in bean and cotton plants. The amino acid fraction increased in cotton plants, while labeled alanine and aspartic acid increased in both species. Both defoliants increase the amount of organic and phosphoric acids. CO_2 fixed in polysaccharides is decreased while pretreatment of the plants by

Card 1/2 UDC: 581.132+632.934+633.51+635.652

ACC NR: AP6025809

keeping half in darkness and half in light for several hours before applying defoliant had no effect on the final composition of photosynthetic products in the leaves of both groups of plants.

[WA-50; CBE No. 11]

SUB CODE: 06/ SUBM DATE: 19Jun 65/ ORIG REF: 018/ OTH REF: 006/

Card 2/2

POLAND/Physical Chemistry. Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B

Abs Jour: Ref Zhur-Khim., No 5, 1959, 14621.

Author : Doman P.
Inst :
Title : The Inhibitive Effect of Gases on the Oxidizing or Reducing Action of Ultrasonic Energy.

Orig Pub: Proc. II conf. ultrason., 1956, warszawa, PWN, 1957, 17-19.

Abstract: The effect of ultrasound (frequency, 800 cycles; intensity, 15 W/cm^2) on a $K_4Fe(CN)_6 \rightleftarrows K_3Fe(CN)_6$ system in the presence of gaseous H_2, O_2 and Cl- ions has been studied. The changes occurring during the sounding of the oxidizing-reducing potential (ORP)

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Wilms' tumors. Pol. przegl. radiol. 28 no.5 457-467 Sep '64

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DOMANCIC, A.

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UNCLASSIFIED

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SO: Monthly List of ~~Russian~~ East European Accessions, Vol. 2, No 9 Library of Congress, September 1953, Uncl.

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Fishing lamps using butane gas. p. 14.
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DOMANCIC, A. Should our fishing fleet be increased? Also, remarks by Anton Antoncic. p. 210

Vol. 8, No. 7, July 1956.
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AGRICULTURE
Rijeka, Yugoslavia

So: East European Accession, Vol. 6, No. 2, February 1957

DOMACINOVIC, Zorko, ing.

Investigations in the Sarajevo plain related to the water supply of Sarajevo. Vodoprivreda Jug 2 no.4/5:116-127 '59. (EEAI 9:10)

1. "Geoistrazivanja," Zagreb
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(Sarajevo--Water supply)

DOMANEVSKIY, L.N.

Available size of victims of a pike. Biul. Inst. biol. vodokhran. no.12: 50-53 '62. (MIRA 16:3)

1. Volgogradskoye otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo instituta ozernogo i rechnogo rybnogo khozyaystva.
(TSimlyansk Reservoir—Pike) (Fishes—Food)

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Characteristics of ecologic interrelations between pike and basic fishes in Tsimlyansk Reservoir. Vop. ekol. 5:53-54 '62. (MIRA 16:6)

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(TSimlyansk Reservoir--Fishes--Food)
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DOMANEVSKIY, L.N.

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1. Baltiyskiy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii - BaltNIRO, Kaliningrad.
(Tsimlyansk reservoir--Pike)

DOMANEVSKIY, L.N.

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DOMANEVSKIY, L.N.

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1. Baltic Research Institute of Fishery Management and Oceanography, Kaliningrad.

DOMANEVSKIY, N., kand.tekhn.nauk

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Rechnoi Transport, 10(2): 20-22, 1950.

DOMANEVSKIY, N. A. and BOZHICH, P. K.

"Control of Seacoasts and River Estuaries", Transzheldorizdat, Moscow-Leningrad, 1948, 314 pp. Textbook for river schools and technical schools.

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Domanevskiy, N. A. Gidrologiya i gidrometriya. [Hydrology and hydrometry.] Moscow, Izdat. Ministerstva Rechnogo Flota, 1951. 363 p. 133 figs. 52 tables. 17 refs. 192 eqs. DLC—This textbook for students of engineering or hydrology is divided into two sections and 25 chapters. The first section Hydrology takes up the hydrologic cycle and water balance in nature, meteorological factors (p. 16-18) including temperature, humidity, condensation, precipitation, evaporation, pressure, wind and meteorological stations, ground water, rivers, spring floods and freshets, rivers, runoff, lakes, bogs and forecasting runoff and water levels. Pt. 2, Hydrometry, deals with methods of measuring the various hydrologic parameters, including physico-chemical characteristics of water. Much tabular data as well as charts, nomograms and illustrations of equipment are included—for example, a chart (p. 38) of European U.S.S.R. shows isolines of annual evaporation in mm and a table (p. 37) shows monthly variations in evaporation for 6 Russian cities. *Subject Headings:* 1. Hydrology textbooks 2. U.S.S.R.—*M.R.*

DOMANEVSKIY, N., inzhener; IVANITSKIY, V., inzhener.

Experience in digging stones in winter. Mor.i rech.flot 14 no.1:26-27 Ja '54. (MLRA 7:1)
(Rivers--Regulation) (Quarries and quarrying)

DOMANEVSKIY, N., kandidat tekhnicheskikh nauk; IVANITSKIY, V., inzhener.

Ways of improving the effectiveness of rock removal work. Rech.transp. 14 no.1:24-27 Ja '55. (MIRA 8:4)
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ROSENFEL'D, F.A.; KRAKOVSKIY, I.I., professor, laureat Stalinskoy premii, retsenzent; DOMANEVSKIY, N.A., kandidat tekhnicheskikh nauk, redaktor.

[Dredger pumps] Zemlesosnye snariady. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 243 p. (MLRA 7:7)
(Dredging machinery)

DOMANEVSKIY, N. A.

DOMANEVSKIY, N.A.; VENDROV, S.L., redaktor; VINOGRADOVA, N.M., redaktor; KHASNA, A.K., tekhnicheskiy redaktor.

[River and lake surveys and studies] Rechnye i ozernye izyskaniia i issledovaniia. Moskva, Vodtransizdat, 1953. 362 p. (MLRA 7:7)
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1. DOMANEVSKIY, N.A.; MYASNIKOV, M.V.

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4. Dnieper Basin - Navigation

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

DOMANEVSKIY, Nikolay Aleksandrovich; ANTONOV, B.S., redaktor; SOKOLOVA, Ye.I., redaktor izdatel'stva; BEGICHEVA, M.N., tekhnicheskiy redaktor

[River dredges and their operation] Rechnye zemsnaryady i ikh rabota. Moskva, Gos. izd-vo vodnogo transporta, 1954. 233 p. [Microfilm] (MLRA 10:6)
(Dredging; machinery)

DOMANEVSKIY, N.

New method of depth measurement. Rech.transp. 14 no.11:28 '55.
(Sounding and soundings) (MLRA 9:2)

ZHILIN, V.K., otvetstvennyy za vypusk; DOMANEVSKIY, N.A., kandidat tekhnicheskikh nauk, nauchnyy redaktor; MAKKAVEYEV, N.I., professor, doktor geograficheskikh nauk, nauchnyy redaktor; KRASNAYA, A.K., tekhnicheskiy redaktor

[River channel work] Putevye raboty na rekakh. Moskva, Izd-vo "Rechnoi transport," 1956. 89 p. (MIRA 9:8)

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(Rivers) (Hydraulic engineering)

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(Hydraulic engineering)

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[Channel processes and improvement of the navigable course in open-channel rivers.] Ruslovye protsessy i putevye raboty. Moskva, Izd-vo "Rechnoi transport," 1956. 458 p. (Moscow. Tsentral'nyi nauchno-issledovatel'skii institut ekonomiki i ekspluatatsii vodnogo transporta. Trudy, no.8). (MLRA 9:11)

(Rivers--Regulation) (Dredging)

DOMANEVSKIY, N.A.

BOGOSLOVSKIY, Mikhail Alekseyevich, dots., kand.tekhn.nauk; DOMANEVSKIY, N.A., kand.tekhn.nauk, retsenzent; SHERLAIMOV, A.P., retsenzent; MELEKHIN, A.N., retsenzent; VENDROV, S.L., kand.geograf.nauk, red.; MAKHUSHINA, A.N., red.izd-va; SALAZKOV, N.P., tekhn.red.

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(Inland navigation) (Hydraulic engineering)

DOMANEVSKIY, N.A.; IVANITSKIY, V.A., retsenzent; POPKOV, I.F., retsenzent; MATLIN, G.M., red.; VINOGRADOVA, N.M., red.izd-va; TSVETKOVA, S.V., tekhn.red.

[Dredging] Dnouglublenie. Moskva, Izd-vo "Rechnoi transport," 1957. 449 p. (MIRA 10:12)

(Dredging)

DOMANEVSKIY, N.A., kand.tekhn.nauk.

Planning and recording controlling depths. Rech.transp. 16 no.10: 27-29 O '57. (MIRA 10:12)
(Dredging)

DOMANEVSKIY, N.A.

DOMANEVSKIY, N.A., kand.tekhn.nauk; ZERNOV, S.A., inzh.

Development of U.S.S.R. inland waterways. Rech.transp. 16 no.11:41-43 N '57. (MIRA 10:12)

(Inland navigation)

MATUSEVICH, Valdimir Antonovich; POPKOV, I.F., retsenzent; DOMANEVSKIY, N.A., red.; VINOGRADOVA, N.M., red. izd-va; GORCHAKOV, G.N., tekhn.red.

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(Rivers—Regulation)

DOMANEVSKIY, N.A., kand.tekhn.nauk

Dredges in the very near future. Rech. transp. 17 no.8:43-44 Ag '58. (MIRA 11:10)
(Dredging machinery) (Shipbuilding)

DOMANEVSKIY, N.A., kand.tekhn.nauk

Determining average navigating depths in order to plan loading of the transportation fleet. Rech.transp. 18 no.6:35-38 Je '59. (MIRA 12:9)
(Hydrographic surveying) (Inland navigation)

DOMANEVSKIY, N., kand.tekhn.nauk

Shortcomings and the use of a new system of planning dredging operations. Rech. transp. 20 no.9:34-35 S '61. (MIRA 14:9)
(Dredging)

DOMANEVSKIY, N.A.

"Methods of improvement of navigable conditions along the free rivers in the USSR."

Report submitted to the Conf. on the Application of Science and Technology for the Benefit of the Less Developed Areas.
Geneva, Switzerland 4-20 February 1963

DOMANEVSKIY, N., kand. tekhn. nauk

Considering hydrological factors in the technical and economic substantiation of channel depth. Rech. transp. 24 no.3:40-43 '65. (MIRA 18:5)

DOMANEVSKIY, Nikolay Alekseyevich; GOLOVUSHKIN, M.N., retsenzent; SHAROV, I.M., retsenzent; SKOMOSHCHINSKIY, V.F., red.; FILIMONOVA, A.I., red.

[Dredging] Dnouglublenie. Moskva, Transport, 1965. 339 p. (MIRA 18:12)

DOMANEVSKIY, N., kand. tekhn. nauk.

Planning of dredging operations. Rech. transp. 23 no.1:37-39 Ja '64. (MIRA 18:11)

DOMANEVSKIY, N., kand. tekhn. nauk

Development of inland waterways in the U.S.S.R. Rech. transp. 24 no. 10:21-22 '65. (MIRA 18:12)

DOMANIEWSKI, Jan; NARTOWICZ, Edmund

Association of amyloidosis with chronic pyelonephritis.
Pol. tyg. lek. 20 no.29:1083-1085 19 Jl '65.

1. Z Zakladu Anatomii Patologicznej; Szpitala Ogolnego Nr. 1 w Bydgoszczy (Kierownik: dr. med. J. Domaniewski) i z III Oddzialu Chorob Wewnetrznych (Ordynator: lek. med. E. Nartowicz).

DOMANIEWSKI, Jan; REKOWSKI, Kazimierz; TERZIMAN, Eugeniusz

Endocardial fibroelastosis in a 65 year old woman. Pol. tyg. lek. 20 no.33:1251-1252 16 Ag '65.

1. Z Zakladu Anatomii Patologicznej (Kierownik: dr. med. J. Domaniewski) i z II Oddzialu Chorob Wewnetrznych (Ordynator: dr. med. K. Rekowski) Szpitala Ogolnego Nr. 1 w Bydgoszczy.

DOMANIEWSKI, Jan; NARTOWICZ, Edmund

Arterial hypertension and amyloid lesions of the adrenal cortex in patients with amyloidosis of the kidneys. Pol. arch. med. wewnet. 35 no.7:949-952 '65.

1. Z Zakladu Anatomii Patologicznej (Kierownik: dr. med. J. Domaniewski) i z III Oddzialu Chorob Wewnetrznych Szpitala Ogolnego Nr. 1 w Bydgoszczy (Ordynator: lek. med. E. Nartowicz).

DOMANIEWSKI, Jan , dr. med.

Morphological changes of the liver in diseases of the gall-bladder according to autopsy and biopsy findings. Pat. Pol. 15 no.4:425-443 O-D '64

1. Z Zakladu Anatomii Patologicznej Szpitala Ogolnego Nr.1 w Bydgoszczy (Kierownik Zakladu: lek. med. J. Domaniewski)

DOMANIEWSKI, JANUSZ.

Wedrowki ptakow.

Warszawa, Poland. Panstwowe Zaklady Wydawn. Szkolnych, 1954. 49p.

Monthly List of East European Accessions Index (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

S/117/60/000/005/003/013
A004/A002

AUTHORS: Domanik, I. V., Kiselev, M. I.

TITLE: The ЛФ-21 (LF-21) Heavy Parallel Milling, Planing and Boring Machine

PERIODICAL: Mashinostroitel', 1960, No. 5, p. 13

TEXT: The new unique machine tool is manufactured by the Lenstankolit Plant and designated for the roughing and finishing machining of split surfaces of big-sized steam turbine housing parts and other big-dimensioned machine parts weighing up to 100 tons. The machine is equipped with automotive spindle stocks with drilling and boring spindles, attachments and planing carriage, which make it possible to machine heavy components without removing them from the machine table. The table feed is stepless and is effected by a geared reducer driven during milling operations by a d-c motor of 29 kw and during planing operations by a d-c motor of 88 kw. A blocking mechanism prevents the movable parts of the machine from colliding. The machine is remote-controlled from a central control panel and two suspension panels. The authors cite the pertinent technical data of the new LF-21 machine. There is 1 photo.

Card 1/1

DOMANIN, S.

New pontoon crowbar. Voen.-inzh. 96 no.9:36-37 S '52. (MIRA 12:3)

(Wedges)

VUL'FSON, N.S.; ZARETSKIY, V.I.; DOMANINA, O.N.

Synthesis of ethyl-β-carbethoxyethyl ester of malonic acid. Zhur. VKHO 7 no.6:709 '62. (MIRA 15:12)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Malonic acid)

PRILEZHAYEVA, B.N.; FEDOROVSKAYA, N.P.; MIYESSEROVA, L.V.; DOMANINA, O.N.; KHAZKINA, I.M.

Methods of determining varieties of organic sulfur in solid fuels. Trudy IGI 21:159-168 '63.

Determining sulfur ether in solid fuel by the methyl iodide method. 202-210 (MIRA 16:11)

ACC NR: AP6024357 SOURCE CODE: UR/0280/66/000/002/0086/0093

AUTHOR: Buyanov, B. B. (Moscow); Domanishchkiy, S. M. (Moscow); Ozernoy, V. M. (Moscow)

ORG: none

TITLE: Construction of tests for the logic circuits synthesized from monofunctional elements

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1966, 86-93

TOPIC TAGS: logic design, logic circuit, mathematic operator, test monitoring

ABSTRACT: Tests of this kind are designed to verify the functioning of logic (m, 1)-terminal networks synthesized from monofunctional logic elements realizing the negation of the disjunction or conjunction of many variables. These tests are constructed on the premise that the following factors are known: the structure of the logic circuit, the various possible malfunctions in each element of the ensemble used to design the logic circuit. The circuit is tested by inserting logic variables into the ensemble inputs and verifying the state of the output. A subset of ensembles of logic variables may be used as a test of this kind if the correct functioning of the network with respect to this subset is a sufficient condition for the correct functioning of the circuit with respect to the entire set of input ensembles. The length L of the

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ACC NR: AP6024367

test is the number of ensembles entering in the test. Thus, in the operator describing the performance of a n-input logic element realizing the negation of the disjunction of n variables is denoted as $N_n(\bar{x}_1^{\sigma_1}, \bar{x}_2^{\sigma_2}, \ldots, \bar{x}^{\sigma_n})$ and an arbitrary logic function of m variables $f(x_1, x_2, \ldots, x_m)$ may be represented by the following superposition of operators N_n:

$$f(x_1, x_2, \ldots, x_m) = N_k[N^1_{m_1}(\bar{x}_{11}^{\sigma_{11}}, \bar{x}_{21}^{\sigma_{21}}, \ldots, \bar{x}_{m1}^{\sigma_{m1}}), \ldots, N^j_{m_j}(\bar{x}_{1j}^{\sigma_{1j}}, \bar{x}_{2j}^{\sigma_{2j}}, \ldots, \bar{x}_{mj}^{\sigma_{mj}}), \ldots, N^k_{m_k}(\bar{x}_{1k}^{\sigma_{1k}}, \bar{x}_{2k}^{\sigma_{2k}}, \ldots, \bar{x}_{mk}^{\sigma_{mk}})]. \quad (1)$$

where $j = 1, 2, \ldots, k$ and m_j is the number of variables at the input of the j-th element $N^j_{m_j}$. If signals corresponding to all the logic elements and their inversions are employed, relation (1) is realized by a two-stage circuit of N_m operators (Fig. 1). Each expression $N^j_{m_j}(\bar{x}_{1j}^{\sigma_{1j}}, \bar{x}_{2j}^{\sigma_{2j}}, \ldots, \bar{x}_{mj}^{\sigma_{mj}})$ corresponds to the ensemble of logic variables $\alpha_j = \{x_1, x_2, \ldots, x_m\}_j$ for which $N^j_{m_j} = 1$ when $j = 1, 2, \ldots, k$ and $N^r_{m_r} = 0$ when $r \neq j$. During testing of the ensemble α_j of the circuit shown in Fig. 1 all the input variables of the first-stage input element with the subscript j have zero values while for all the other first-stage elements at least one of the variables must have the value of unity. The process

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ACC NR: AP6024367

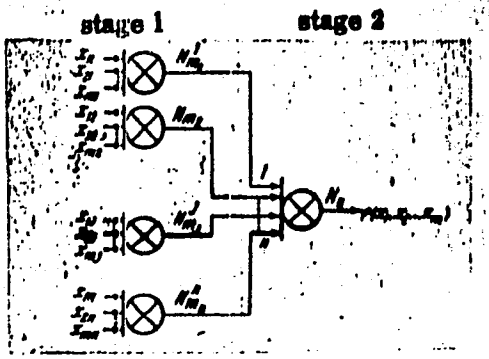

Fig. 1.

of construction of such tests is closely associated with the minimization of logic circuits and may be utilized to detect redundant elements. Orig. art. has: 12 formulas, 6 figures, 3 tables.

SUB CODE: 09, 12/ SUBM DATE: 16Sep64/ ORIG REF: 005

Card 3/3

DOMANITSKIY, A.P.

KUDRITSKIY, Dmitriy Mikhaylovich; POPOV, Igor' Vladimirovich; ROMANOVA, Yefrosin'ya Andreyevna; DOMANITSKIY, A.P., kandidat geograficheskikh nauk, redaktor; YASNOGORODSKAYA, M.M., redaktor; FLAUM, M.Ya., tekhnicheskiy redaktor

[Principles of hydrographic deciphering of aerial photographs] Osnovy gidrograficheskogo deshifrirovaniia aerofotosnimkov. Pod red. A.P.Domanitskogo. Leningrad, Gidrometeorologicheskoe izd-vo, 1956. 343 p. (MLRA 9:9)

(Photogrammetric pictures)
(Hydrographic surveying)

DOMANITSKIY, A. P., (Editor)

"Research Problems of Lakes and Reservoirs," Trudy Gosudarstvennogo Gidrologicheskogo instituta (Transactions of the State Hydrological Institute), no 66, 1957. 140 pp.

DOMANITSKIY, A.P.

NEZHILOVSKIY, Ruvim Afroimovich; DOMANITSKIY, A.P., otvetstvennyy red.; YASNOGORODSKAYA, M.M., red.; VLADIMIROV, O.O., tekhn.red.

[The Neva River] Reka Neva. [Izd.2-oe, dop.i perer.] Leningrad, Gidrometeor.izd-vo, 1957. 190 p. (MIRA 11:1)
(Neva River)

POPOV, Igor' Vladimirovich; DOMANITSKIY, A.P., otv. red.; ROGOVSKAYA, Ye. G., red.; VLADIMIROV, O.O., tekhn. red.

[Nile River] Reka Nil. Leningrad, Gidrometeor. izd-vo, 1958. 112 p. (MIRA 11:12)

(Nile River)

URYVAYEV, V.A., kand.tekhn.nauk, ; v.red.; ALEKIN, O.A., red.; VELIKANOV, M.A., red.; BLIZNYAK, Ye.V., red.; BORSUK, O.N., kand.geogr.nauk, red.; DAVYDOV, L.K., red.; ~~LOMANITSKIY, A.P.,~~ red.; KALININ, G.P., red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.; MANOIM, L.F., red.; MENKEL', M.F., red.; ORLOV, B.P., red.; POPOV, I.V.,red.; PROSKURYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A., red.; CHEBOTAREV, A.I., red.; CHERKAVSKIY, S.K., red.; GROSMAN, R.V., red.; SERGEYEV, A.N., tekhn.red.

[Proceedings of the third All-Union Hydrological Congress] Vsesoiuznyi gidrologicheskii s"ezd. 3rd, Leningrad, 1957. Trudy. Leningrad, gidrometeor. izd-vo. Vol.1 [General information, decisions, and papers presented in plenary sessions] Obshchie svedeniia, resheniia i plenarnye doklady. 1958. 242 p. (MIRA 12:1)
(Hydrology--Congresses)

FEDOROV, Vladimir Vladimirovich, dotsent, kand.tekhn.nauk; GONCHAROV, V.N., prof., retsenzent; ZERNOV, S.A., inzh., retsenzent; DOMANITSKIY, A.P., red.; VOLCHOK, K.M., tekhn.red.

[Hydrology and investigation of waters] Gidrologiia i vodnye izyskaniia. Leningrad, Izd-vo "Rechnoi transport," Leningr. otd-nie, 1960. 344 p. (MIRA 13:10)
(Hydrology--Research)

URYVAYEV, V.A., kand.tekhn.nauk; red.; CHEBOTAREV, A.I., kand.tekhn. nauk, red.; VOSKRESENSKIY, K.P., kand.geogr.nauk, red.; DOMANITSKIY, A.P., kand.geogr.nauk, red.; PROTAS'YEV, M.S., kand.geogr.nauk, red.; SOKOLOVSKIY, D.L., doktor tekhn.nauk, red.; SHATILINA, M.K., red.; VLADIMIROV, O.G., tekhn.red.

[Surface water resources in regions of reclaimed virgin and idle lands] Resursy poverkhnostnykh vod raionov osvoeniia tselinnykh i zalezhnykh zemel'. Pod obshchei red. V.A.Uryvaeva. Leningrad, Gidrometeor.izd-vo. No.5. [North Kazakhsten Province, Kazakh S.S.R.] Severo-Kazakhstanskaia oblast' Kazakhskoi SSR. 1960. 418 p. (MIRA 13:11)

1. Leningrad. Gosudarstvennyy gidrologicheskiy institut.
2. Direktor Gosudarstvennogo gidrologicheskogo instituta (for Uryvayev).
(North Kazakhstan Province--Water supply)

FEDOROV, N.N., kand.tekhn.nauk; POPOV, I.V., kand.geogr.nauk; BORSUK, O.N., kand.geogr.nauk; GRUSHEVSKIY, M.S., kand.tekhn.nauk; VELIKANOV, M.A., prof., doktor tekhn.nauk, red.(Moskva); URYVAYEV, V.A., otv. red.; ALEKIN, O.A., red.; BLIZNYAK, Ye.V., red. [deceased]; BORSUK, O.N., red.; DAVYDOV, L.K., red.; DOMANITSKIY, A.P., red.; KALININ, G.P., red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.; MANOIM, L.F., red.; MENKEL', M.F., red.; OHLOV, B.P., red.; PROSKURYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A., red.; CHEBOTAREV, A.I., red.; CHERKOVSKIY, S.K., red.; SHATILINA, M.K., red.; VLADIMIROV, O.G., tekhn.red.

[Transactions of the Third All-Union Hydrological Congress] Trudy III Vsesoiuznogo gidrologicheskogo s"ezda. Vol.5. [Section of Hydrodynamics and River-Bed Evolution] Sektsiia gidrodinamiki i ruslovykh protsessov. 1960. 421 p.

(MIRA 13:11)

1. Vsesoyuznyy gidrologicheskiy s"ezd. 3d, Leningrad, 1957.
2. Gosudarstvennyy gidrologicheskiy institut (for Fedorov, Popov).
3. Chlen-korrespondent AN SSSR (for Velikanov).

(Hydrology--Congresses)

DOMANITSKIY, A.P.; KUZIN, P.S.; MAKAREVICH, T.N.

Aleksandr Mikhailovich Norvatov; obituary. Meteor. i gidrol. no.4: 58 Ap '63. (MIRA 16:5)
(Norvatov, Aleksandr Mikhailovich, 1905-1962)

ACCESSION NR: AP4031111

S/0213/64/004/002/0325/0339

AUTHORS: Romanitskiy, Ye. A. (Leningrad); Strunskiy, M. G. (Leningrad)

TITLE: Measuring the natural electrical field in the sea

SOURCE: Okeanologiya, v. 4, no. 2, 1964, 325-339

TOPIC TAGS: natural electric field, oceanic electric field, telluric current, STT 59 telluric current meter, EDA 57 autocompensator, EPO 6 oscillograph, TV 8 remote control switch

ABSTRACT: The authors' object was a study of the changes in the natural electrical field that has periods ranging from several minutes down to parts of a second. Measurements were made at depths from 1 to 100 m on a continuous record for periods ranging from 10 to 70 minutes. An STT-59 telluric-current meter, normally employed for geophysical surveys, was used for measurments and proved to be most satisfactory. It contains an EDA-57 autocompensator, an EPO-6 oscillograph, and a TV-8 remote-control switch. It was found that variations in the electrical field obey very complex laws, are not harmonic, and consist of oscillations

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ACCESSION NR: AP4031111

of different periods and amplitudes superimposed on each other. The variation vector changes not only in value but also in direction. Oscillations of larger periods have larger amplitudes. Horizontal components of oscillations in the field are at least 100 times the vertical components. Observations on mutually perpendicular coordinates show that oscillation periods of more than a few seconds are almost always in phase or 180° out of phase. Oscillations of shorter periods show no particular interdependence. With increase in depth and increase in distance from shore, the magnitude of variation in the natural electrical field generally declines. Orig. art. has: 8 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 04Oct62 DATE ACQ: 01May64 ENCL: 00

SUB CODE: ES NO REF SOV: 013 OTHER: 000

Card 2/2

DOMANITSKIY, S. M.

"Excitation Automation in Train Generators in Diesel Locomotives When Using Magnetic Amplifiers," Official opponents were: Doctor of Technical Sciences Professor Ye. V. Nitusov and Candidate of Technical Sciences Docent A. D. Stepanov.

Dissertation for the Degree of a Candidate of Technical Sciences ~~1946-1953.~~
At the All-Union Scientific Research Institute of Railroad Traffic Engineers.
March 13, 1953 —

USSR/Scientific Organization Domanitskiy, S.M. FD-1391

Card 1/1 : Pub. 41-18/18

Author : Domanitskiy, S. M. (1), Kupriyanov, V. P. (2), Baron, L. I. (3), and Demidov, L. G. (4)

Title : In the scientific establishments of the Department of Technical Sciences of the Academy of Sciences of the U.S. S. R.

Periodical : Izv. AN SSSR. Otd. tekh. nauk 3, 155-172, Mar 1954

Abstract : Five articles with description of scientific activity as follows: (1) "Problems of the Automatization of the Consumer-Goods Industry" -- a report on a conference held 8-13 March, 1954, in Moscow. (2) "Conference on Heat-Insulating Materials" -- a report on problems of production and use of heat-insulating materials in construction industry; conference was held in 1953. (3) "Development of Improved Methods for Determining Content of Free Silica in Mine Dust and Rocks" -- a report on conference called by Commission for Prevention of Silicosis, 24 March 1954. (4) "All-Union Conference on Coal Dressing" -- a report on conference held in 1953 in Moscow. (5) "Defense of Dissertations" -- report on defense of dissertations by applicants for scientific degrees.

Institution :

Submitted :

DOMANITSKIY, S.M.

DOMANITSKIY, S. M.

"Chronicles. Conference on the Automatization of the production of industrial goods widely consumed and of subsistence goods", Avtomatika i Telemekhanika, Vol 15, No 3,4,5, 1954

Abs

W31148, 7 Feb 55

DOMANITSKIY, S.M.

GOROKHOV, N.V.; RUDAYA, K.I.; DOMANITSKIY, S.M.

Study of systems with magnetic amplifiers. Trudy TSNII MPS no.87:98-132 '54. (MLRA 8:3)

(Diesel locomotives)(Automatic control)
(Magnetic amplifiers)

PLATONOV, Ye.V.; STEPANOV, A.D.; DOMANITSKIY, S.M.; POPOV, S.D.; MURZHIN, I.I., inzhener, redaktor; [redacted], tekhnicheskiy redaktor.

[Results of comparative tests of automatic control circuits for diesel locomotives] Rezul'taty sravnitel'nykh ispytanii skhem avtomaticheskogo upravleniia teplovozov. Moskva, Ges. transportnoe shel-dor. izdvo, 1955. 157 p. (Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorognogo transporta. Trudy, no. 109) (MLRA 9:2)
(Diesel locomotives) (Automatic control)

AVEN, O.I., (Moskva); BARKOV, N.S., (Moskva); DOMANITSKIY, S.M., (Moskva)

Series of servomechanisms with contactless drives and proportional motor control. Izv. AN SSSR. Otd. tekh. nauk no.6:166-168 Je '56. (MLRA 9:9)

(Servomechanisms)

AVEN, O.I. (Moskva); DOMANITSKIY, S.M. (Moskva).

Magnetic amplifiers. Fiz.v shkole 16 no.5:12-14 S-O '56.
(Magnetic amplifiers) (MLRA 9:11)

AVEN, O.I. (Moskva); DEMIDENKO, Ye.D.(Moskva); DOMANITSKIY, S.M. (Moskva); KRUG, Ye.K.(Moskva).

Electric servomechanism with controllable speed. Avtom.i telem.17 no.3:238-249 Mr '56. (MLRA 9:7)
(Servomechanisms)

AVEN, O.I., (Moskva); DOMANITSKIY, S.M., (Moskva); LERNER, A.Ya., (Moskva)

Magnetic amplifier control of a two-phase induction motor.
Avtom. i telem. 17 no.8:717-721 Ag '56. (MLRA 9:10)

(Magnetic amplifiers) (Electric controllers)

3709. METHOD OF OBTAINING A VOLTAGE DEPENDING ON THE SPEED OF A THREE-PHASE INDUCTION MOTOR. 621.313.333

V.S.Kulebakin and S.M.Dozmitskii.

Dokl. Akad. Nauk SSSR, Vol. 107, No. 6, 831-3 (1956). In Russian.

Describes a bridge circuit, one branch consisting of a resistance and one of the stator phases, and the other of a resistance and a constant impedance. The bridge voltage is used in connection with an amplifier and a d.c. magnetized reactor for controlling the input voltage of induction motors with solid rotors. Working characteristics are given with nearly constant, relatively low speeds over a fairly large range of torque.

F.Busemann

AVEN, Oleg Ivanovich, kand. tekhn. nauk; BARKOV, Nikolay Sergeyevich, kand. tekhn. nauk; DOMANITSKIY, Sergey Mikhaylovich, kand. tekhn. nauk; SHTEYNBOK, G.Yu., inzh., red.; SOROKINA, T.M., tekhn. red.

[Contactless executive mechanism with increased sensitivity and a three-phase motor]Beskontaktnyi ispolnitel'nyi mekhanizm povyshennoi chuvstvitel'nosti s trekhfaznym dvigatelem. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1957. 36 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 42. No.P-57-4/3) (MIRA 16:2)
(Servomechanisms) (Automatic control)

DOMANITSKIY, S. M.

In the article, "Control of Rotation Velocity of Three-Phase, Induction Motors by Utilizing Bridge Sensitive Elements," V. S. Kulebakin and S. M. Domanitskiy discuss the speed control of low-power, three-phase, induction motors by a bridge sensitive element. The authors also give the theory of the suggested system for motors with a squirrel-cage and a wound rotor and for a motor with a solid iron rotor. (Avtomakika i Telemekhanika, No 2, Feb 57, pp 137-144) (U)

Domanitskiy, S.M.

AVEN, O.I., kand.tekhn.nauk; DOMANITSKIY, S.M., kand.tekhn.nauk; LERNER, A.Ya., kand.tekhn.nauk

Servomechanisms of variable speed with noncontact control by two-phase asynchronous motors. Priborostroenie no.10:3-6 O '57. (MIRA 10:11)

(Servomechanism)

DOMANITSKIY, S.M.

AVEN, O.I. (Moskva); BOGDANOV, D.I. (Moskva); DOMANITSKIY, S.M. (Moskva)

The theory of high-speed magnetic amplifiers. Izv.AN SSSR.Otd. tekh.nauk no.2:125-129 F '57. (MLRA 10:5)
(Magnetic amplifiers)

Domanitskiy, S. M.

45. **Quick-Acting Magnetic Amplifier Found Not Properly Exploited**

"Concerning the Theory of a Quick-Acting Magnetic Amplifier," by O. I. Aven, D. I. Bogdanov, and S. M. Domanitskiy, Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, No 2, Feb 57, pp 125-129

The authors depict the fundamental relationships of the quick-acting magnetic amplifier proposed by R. A. Ramey in 1951 and state that "the possibilities of the amplifier have not yet been fully appreciated." In the development that followed it was assumed that the material of the amplifier core had a rectangular hysteresis loop. (U)

AUTHORS: Aven, O. I., Domanitskiy, S. M., Pul'yer, Yu. M. (Moscow)

103-19-3-8/9

TITLE: A Linear Induction Potentiometer for General Industrial Determinations (Induktsionnyy lineynyy potentsiometr obshchepromyshlennogo naznacheniya)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 3, pp. 268-279 (USSR)

ABSTRACT: An induction potentiometer is described here. It especially serves as a substitute for the measuring slide wire in systems of control and regulation. The potentiometer has a maximum angle of rotation of 180° (± 90°). Then follows the description of the potentiometer and the method for its calculation. The fundamental formulae given in Ref 2 are used in the calculation. Here the calculation is given for the case where the feed voltage U_1, the magnitude of the maximum secondary voltage U_{2max} according to the modulus, $z_{2\,load}$ - loading resistance, $(\pm \delta U_2)_{max}$ - the effective component of the maximum error of the potentiometer (coincides with U_1 of the phase) (taken in relation to U_{2max} in relative units) are given. The fundamental di-

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103-19-3-8/9

A Linear Induction Potentiometer for General Industrial Determinations

mensions of the potentiometer, the number of windings, the wire diameter of the primary and the secondary winding are determined. The magnitudes of the primary current and of the secondary current as well as the voltages at the output are calculated for the mode of operation under load. - The magnetic system assumed here permits to construct a linear induction-potentiometer for general industrial purposes. The results of the current- and voltage-calculations of actual constructions under various methods of operation agree with the experimental data. The characteristics of these potentiometers surpasses those of the contactless position indicators with regard to the domain of linearity of the characteristics, their symmetry, as well as the low unbalanced residual voltages in the compensation scheme. There are 11 figures and 3 references which are Soviet.

SUBMITTED: July 20, 1957

Card 2/2

DOMANITSKIY, S.M.

AVEN, O.I., kand. tekhn. nauk; DOMANITSKIY, S.M., kand. tekhn. nauk.

Electric automatic control systems with noncontact regulators.
Biul. TSNIICHM no.6:31-37 '58. (MIRA 11:5)
(Electronic control)

DOMANITSKIY, S.M.

8(2); 28(1) PHASE I BOOK EXPLOITATION SOV/1433

Soveshchaniye po avtomatizirovannomu elektroprivodu peremennogo toka, Moskow, 1955

Trudy... (Transactions of the Conference on Automated A-C Electric Drives) Moscow, Izd-vo AN SSSR, 1958. 398 p. 4,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

Resp. Eds: V.S. Kulebakin, Academician, and M.G. Chilikin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: D.M. Ioffe; Tech. Ed.: I.P. Kuz'min.

COVERAGE: The conference was organized on the initiative of the Institute of Automation and Telemechanics of the Academy of Sciences, USSR, and the Moscow Power Engineering Institute and had as its aim the planning of the most progressive ways of developing automatic control of electric drives. The first conference on the subject of automated electric drive took place more than ten years before the present one and was concerned with d-c electric drives. The results of this conference were found to be most valuable in the task of rebuilding postwar Soviet industry and in furthering industrial development. Present technical development of Soviet industry demands high speeds, simplicity of construction, reliability of operation, and economy. The squirrel-cage induction motor with frequency control appears to be the most promising type of controlled a-c drive. For wide application of this drive in the Soviet economy there is a need of developing new types of frequency converters. Some interesting studies were made in this connection at the Institute of Automation and Telemechanics of the USSR Academy of Sciences and its Leningrad branch, at the Moscow Power Engineering Institute, the Central Design Bureau of the "Elektroprivod Plant, the State Design Institute of the Ministry of Construction of the RSFSR, and in other design organizations. These studies were discussed at the present conference. The transactions contain material concerning the theory and design of reactor, pulse, and frequency methods of controlling a-c electric drives. Candidate of Technical Sciences I.V. Utkin and Engineer V.A. Kokoreva participated in the preparation of this collection of papers. The volume was reviewed by Professor Ya. V. Mitusov, Doctor of Technical Sciences. Some of the papers include a bibliography.

TABLE OF CONTENTS:

Transactions of the Conference (Cont.) SOV/1433