APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

On the question of the reduction ... S/044/62/000/003/089/092
C111/C333

author presents the block diagram of the system for obtaining a step approximation of the video signal given by such a camera.
[Abstracter's note : Complete translation.]

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S/044/62/000/003/089/092
C111/C333

6,6000

AUTHOR: Makhonin, V.A.

TITLE: On the question of the reduction of the superfluous information in the television signal

PERIODICAL: Referativnyy zhurnal., Matematika, no. 3, 1962, 72, abstract 3 V 437. (Probl. peredachi inform. no. 4, M., ANSSSR, 1959, 140 - 151)

TEXT: In connection with the requirement of transmitting television programs over great distances it becomes necessary to reduce the quantity of informations transmitted by the television camera. The spectator does not perceive the superfluous information on small details of the transmission object, and this information must be eliminated before the input into the transmitting apparatus. The idea of a television camera simulating the human eye is described : the brightness of the preceding elements of the image and the speed of its variation (contrast) controls the exactness of transmission of the given image element. In order to simplify the control of such a camera it is proposed to determine in advance the motion of the camera. The

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

AUTHOR: Makhonin, V., Engineer 4-58-6-11/37

TITLE: Television and Cybernetics (Televideniye i kibernetika)

PERIODICAL: Znaniye - sila, 1958, Nr 6, p 10 (USSR)

ABSTRACT: The main deficiency in existing television transmission systems is their short range, due to the forced use of ultra-short waves. In order to make the application of the short wave band in transmitting television programs possible, the author proposes a kind of "thinking" filter, reducing automatically the number of television image signals. Another method recommended by the author is the transmission of codified television programs deciphered by the receiving stations. The author admits, however, that the technical problems in increasing the range of television transmissions are very complicated and are not yet solved.
There is 1 drawing.

1. Television transmission--Theory

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MAKHONIN, S.V., inzh.

Operation of unattended hydroelectric power stations. Elek. sta. 32 no.2:74-75 F '61. (MIRA 16:7)
(Hydroelectric power stations)
(Automatic control)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

IL'NITSKIY, Il'ya Ivanovich [Il'nyts'kyi, I.I.]; SOVA, Petr Petrovich; MAKHONIN, O.O., red.; LUCHKIV, M.R., tekhn. red.

[Uzhgorod; a guidebook] Uzhhorod; putivnyk. Uzhgorod; guide. Uzhhorod, Zakarpats'ke obl. knyzhkoho-gazetne vyd-vo, 1961. 158 p. (MIRA 17:3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHONIN, N., tokar'-rastochnik (g.Stalino)

Be persistently engaged in individual competition. Sov.profsoiuzy 6 no.8:53-54 Jl '58. (MIRA 11:9)

1.Mashinostroitel'nyy zavod imeni 15-letiya Leninskogo kommunisticheskogo soyuza molodezhi Ukrainy.
(Stalino--Socialist competition)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHONIN, A. N.

EYLER, S.A., inzh.. Prinimali uchastiye: KOZLINSKIY, N.A., inzh.; MAKHONIN, A.N., inzh.; KUZNETSOV, V.V.; POLYAKOV, V.F.. GURKIN, V.I., kand. tekhn.nauk, nauchnyy red.; PAKHOMOVA, M.A., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Pipeline construction] Montazh naruzhnykh truboprovodov. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 233 p. (MIRA 13:3)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Brigadiry tresta No.4 Mospodzemstroya (for Kuznetsov, Polyakov).
(Pipelines)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

ARONSON, V.Ye.; BALASHOV, Ye.T.; BERMAN, S.A.; BYZER, B.I.; KALININ, N.A.; MAKHONIN, A.K.; IMASHEV, N.U.; TOKAREV, V.P.

Plans for commercial prospecting for the Zhetybay and Uzen' deposits. Trudy VNIGRI no.218:62-73 '63. (MIRA 17:3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

LEYBSON, M.G.; MAKHOLIN, O.A.

Plans for estimating the reserves and output in unexplored oil fields. Neft.khoz. 41 no.10:1-7 O '63. (MIRA 17:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHO, L.

Effect of thyroid hormones on glucose metabolism. Biokhimiia 24 no.2: 288-290 Mr-Ap '59. (MIRA 12:7)

1. Endokrinologicheskiy institut Slovatskoy akademii nauk, Bratislava, Chekhoslovakia.

(GLUCOSE, metab.
eff. of thyroidectomy & thyroxin in animals (Rus))
(THYROXIN, eff.
on glucose metab. (Rus))
(THYROID GLAND, eff. of excis.
same)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

STAMATIU, Mikhail; MAKHO, G.P. [translator]; RUPPENEYT, K.V., doktor tekhn. nauk, red.; MESHCHANKINA, I.S., tekhn. red.

[Calculation of pillars in salt mines] Raschet tselikov na solianykh rudnikakh. Moskva, Gosgortekhizdat, 1963. 107 p. (MIRA 16:7)

(Mining engineering)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHO, G.P., inzh.

Pressure distribution near an unsupported vertical shaft.
Shakht. stroi. 5 no.7:14-17 Jl '61. (MIRA 15:6)

1. Moskovskiy gornyy institut.
(Rock pressure) (Shaft sinking)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNYUK, V., nauchnyy sotrudnik

Expansion of food serving enterprises in Ukrainian collective farms. Obshchestv. pit. no.12:17-21 D '62. (MIRA 16:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut torgovli i obshchestvennogo pitaniya.

(Ukraine—Restaurants, lunchrooms, etc.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNYUK, R.*

33350. O Kacheste Moloka Na Fermakh. Moloch. Prom-st', 1949, No. 10, C. 38-39.

SO: Letopis' Zhurnal'nykh Statey Vol. 45, Moskva, 1949

* i AL'TMAN, A.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

TYURIN, Sergey Timofeyevich; MAKHNYKINA, Tamara Alekseyevna

[Rubber packing materials for wine-making equipment] Prokladochnye rezinovye materialy dlia vinodel'cheskogo oborudovaniia. Simferopol', Krym, 1964. 12 p. (MIRA 18:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNUTIN, S.A.; YUDIN, I.A.

Museum of the Ural Mountains. Priroda 45 no.3:69-73 Mr '56.
(Sverdlovsk--Mineralogical museums) (MLRA 9:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKhmutin, M.A.

PHASE I BOOK EXPLOITATION SOV/4431

Vostrikov, S.I., L.N. Zuyev, V.I. Kuznetsov, M.A. Makhmutin, A.N. Nespela, V.A. Pelishenko, A.K. Tokmakov, and A.M. Filin

Teoriya aviatsionnykh dvigateley, ch. 2: Teoriya reaktivnykh dvigateley (Theory of Aircraft Engines, Pt. 2: Theory of Jet Engines) Moscow, Voyenizdat, 1960. 281 p. No. of copies printed not given.

Ed. (Title page): I.V. Kotlyar, Candidate of Technical Sciences; Ed. (Inside book): M.S. Pisarev, Engineer-Colonel of the Reserve; Tech. Ed.: T.F. Myasnikova.

PURPOSE: This textbook is for students of aviation technical schools. It may also be useful to flying and ground personnel of the Air Force, Army, and DOSAAF (All-Union Society for Promotion of the Air Force, Army, and Navy).

COVERAGE: The book generalizes and systematizes problems of aircraft engine theory. Special attention is given to the physical causes of phenomena and processes which take place in parts and in the whole engine. No personalities are mentioned. There are 8 references, all Soviet.

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MAKHNUSHKIN, N.

Sixty enterprises of the capital work without accidents. Okhr. truda i sots. strakh. 6 no.9:24 S '63. (MIRA 16:10)

1. Zaveduyushchiy otdelom okhrany truda Moskovskogo gorodskogo soveta professional'nykh soyuzov.

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MAKHNUSHKIN, N.; ZVEREV, A.

Let's increase the role of public inspectors of industrial hygiene. Okhr. truda i sots. strakh. 5 no.8:22 Ag '62. (MIRA 15:7)

1. Zaveduyushchiy otdelom okhrany truda Moskovskogo gorodskogo soveta professional'nykh soyuzov (for Makhnushkin).
(Industrial hygiene)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNUSHKIN, N.

Creative work. Okhr. truda i sots. strakh. no.2:25-27 Ag '58.

1.Moskovskiy gorodskoy sovet profsoyuzov.
(Industrial hygiene)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

KOMAR, A.P., akademik; MAKHNOVSKIY, Ye.D.

Low-energy deuterons and tritons produced in the photodisintegration of Li^6. Dokl. AN SSSR 156 no. 4:774-777 Je '64. (MIRA 17:6)

1. Fiziko-tekhnicheskiy institut im. A.F.Ioffe AN SSSR.
2. AN UkrSSR (for Komar).

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L 20772-66

ACC NR: AP6012024

caused, not by many-particle decays of the beryllium nucleus, but by the reaction $Be^9(\gamma, d)Li^7$. The energy spectra for α-particles are presented. In the photodisintegration of Be^9 α-particles may appear in (γ, n) and (γ, α) reactions. A comparison of the integral cross sections shows that the form of the resulting α-particle energy spectrum is determined mainly by the reaction $Be^9(\gamma, n)Be^{8*} \rightarrow 2\alpha$. Orig. art. has: 4 figures and 2 formulas. [JPRS]

SUB CODE: 20 / SUBM DATE: 09Jul64 / ORIG REF: 004 / OTH REF: 015

Card 2/2

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L 20772-66 EWT(m)/EWP(t) DIAAP/IJP(c) JD/JG

ACC NR: AP6012024 SOURCE CODE: UR/0020/65/160/006/1300/1303

AUTHOR: Komar, A. P. (Academician AN UkrSSR); Makhnovskiy, Ye. D.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tekhnicheskiy institut AN SSSR)

TITLE: Charged low-energy particles in the photodisintegration of the Be sup 9 nucleus

SOURCE: AN SSSR. Doklady, v. 160, no. 6, 1965, 1300-1303

TOPIC TAGS: charged particle, beryllium, magnetic field, deuteron, proton

ABSTRACT: The authors investigated the energy spectra and yields of charged particles resulting from the irradiation of Be^9 by bremsstrahlung with $E_{\gamma\,max} = 35$ Mev. A beryllium target with a thickness of 4.7 mg/cm^2 was irradiated in a vacuum chamber with photoplates which was in a uniform magnetic field (H = 13,500 oersteds) approximately perpendicular to the direction of particle emission. Measured were the particle paths R and the orientations of their tracks in emulsion; the latter made it possible to determine the radii of curvature ρ of the trajectories in the magnetic field and, by a comparison with the calculated dependencies ρ (R) in the case of the given H, to identify the particles. The energy distribution of photoprotons from the Be^9 is given. A rather high ratio of deutron yield to proton yield was established, and the authors conclude that not less than half of the particles counted among the deutrons were evidently

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MAKHNOVSKIY, Ye. D.

Photoprotons from Li^6. Zhur. eksp. i teor. fiz. 46 no. 3:1136-1138 Mr '64. (MIRA 17:5)

1. Fiziko-tekhnicheskiy institut imeni A. F. Ioffe AN SSSR.

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MAKHNOVSKIY, Ye.D.

Photodeutrerons from Al^{27}. Zhur.eksp.i teor.fiz. 41 no.4:1091-1093 O '61. (MIRA 14:10)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.
(Deuterons) (Protons)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

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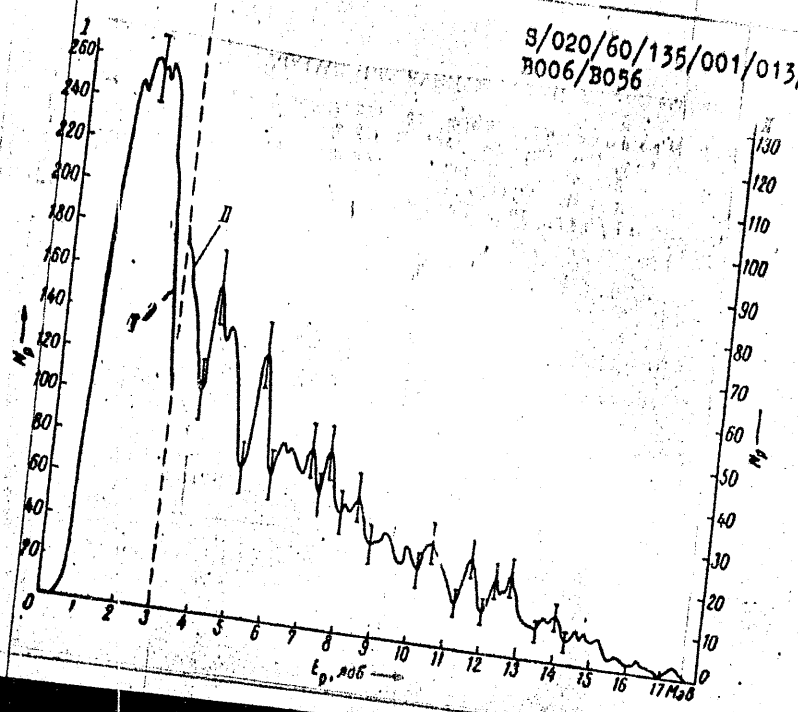
B006/B056



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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

The Fine Structure of the Energy Spectrum of Photoprotons and the Levels of the Li^6-Nucleus

S/020/60/135/001/013/030
B006/B056

reactions, was about 1% less than 10% of the measured tracks due to photodisintegrations of the Li^7 admixture. The background due to the apparatus (scattered radiation) was < 3%. The proton spectrum measured is shown in Fig. 1. The proton energy (Mev) was measured in the laboratory system. According to Refs. 2-4, the reactions (γ,n) and (γ,p) on Li^6 developed under formation of the non-stable nuclei Li^5 and He^6 especially in the ground state. The question is now discussed what E_p-peaks in the decay of these nuclei may occur in $\alpha+p$, also in the case of the formation of Li^5 and He^5 in excited states. The following E_p-peaks were measured: 4.1, 4.5, 5.5, and 11.6 Mev; determined levels: 11.2 and 18.3 Mev; proposed levels: 9.5 and 10.0 Mev. (According to Ref. 5 there exists a level with 9.3 ± 0.2 Mev and according to a paper by Ye. A. Al'bitskaya et al. one at 10 Mev). There are 1 figure, 1 table, and 5 references: 2 Soviet, 2 US, and 1 British.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk SSSR (Institute of Physics and Technology of the Academy of Sciences USSR)

SUBMITTED: July 13, 1960

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

S/020/60/135/001/013/030
B006/B056

AUTHORS: Komar, A. P., Academician of the AS UkrSSR and Makhnovskiy, Ye. D.

TITLE: The Fine Structure of the Energy Spectrum of Photoprotons and the Levels of the Li^6-Nucleus

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 1, pp. 52-54

TEXT: Following an earlier paper (Ref. 1), the authors report on measurements of the energy distribution of protons from Li^6 irradiated with gamma rays of the bremsstrahlung spectrum with $E_{\gamma max}$ = 28 Mev. The target, enriched in Li^6 to 90% was 8.6 mg/cm^2 thick. The protons were recorded by means of НИКФИ-Я2 (NIKFI-Ya2) nuclear emulsions (400 μ); the plates were orientated at an angle of 60° to the proton beam axis. Measurements were made on all tracks with a length of ≥ 4 μ, which began on the emulsion surface and satisfied the geometrical criteria. The plates were evaluated in 1350-fold enlargement. The background, due to $Li^6(\gamma,d)He^4$

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

The Relative Yield and the Energy Distribution of Photodeuterons From Copper

S/020/60/133/04/12/031
B019/B060

"error zone". The energy distribution of the identified protons that was obtained, is in good agreement with the results obtained by other authors. Fig. 3 shows the energy distribution of photodeuterons. In agreement with Byerly and Stephens (Ref. 1) the conclusion is drawn that the maximum of the energy distribution is below 4 Mev. The ratio of the deuteron yield with energies of 4 - 10 Mev and the proton yield of the same energy is found to be $0.07_8 \pm 0.04_1$. In the energy range of 3 - 10 Mev it is found to be $0.08_6 \pm 0.04_5$. There are 3 figures and 3 non-Soviet references.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk SSSR (Physicotechnical Institute of the Academy of Sciences, USSR)

SUBMITTED: May 3, 1960

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

S/020/60/133/04/12/031
B019/B060

AUTHORS: Komar, A. P., Academician of the AS UkrSSR, Makhnovskiy, Ye. D., Poddubnov, V. P.

TITLE: The Relative Yield and the Energy Distribution of Photodeuterons From Copper

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 4, pp. 797-799

TEXT: The authors measured the ratio between the photodeuteron yield and the photoproton yield from copper and the energy distribution of these particles at the maximum energy of the bremsspectrum of the 70 Mev gamma radiation. Basing on Fig. 1, the authors discuss details of the experimental setup. A special pulse method was developed for the identification of the particles, and formulas (1) and (2) are given for the calculation of the radius of curvature of the particle path in the magnetic field (11,500 oe) toward the emulsion. The authors worked with an НИКФИ-Я 2 (NIKFI-Ya2) 400 μ thick nuclear emulsion. Fig. 2 shows the radii of curvature as a function of the particle ranges in the emulsion and the

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MAKHNOVSKIY, Ye.D.

(γ, p)-Reaction on Au^{197}. Zhur. eksp. i teor. fiz. 38 no.1:95-99 Jan '60. (MIRA 14:9)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.
(Nuclear reactions) (Gold)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

SOV/56-36-3-13/71

The Ratio Between the Deuteron Yield and the Proton Yield in the Photo-disintegration of Au^{197}

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Physico-Technical Institute of the Academy of Sciences, USSR)

SUBMITTED: September 5, 1958

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

SOV/56-36-3-13/71

The Ratio Between the Deuteron Yield and the Proton Yield in the Photodisintegration of Au^{197}

(Figs 2-4). Figure 2 shows the distribution of recoil protons for grain counting on the last 90μ on the range; for comparison, also the normal distribution curve is plotted. Figure 3 shows the distribution of recoil protons for grain counting on the last 45μ of the range; figure 4 shows the normal distribution of photodeuterons, the normal distribution of photoprotons, and the total curve together with the measured distribution of the photoparticles (90μ). It holds that $N^d_{90\mu} = 2N^p_{45\mu}$ at the deviations $\sigma^p = 0.56\sqrt{N^p_{90\mu}}$ and $\sigma^d = 0.56\sqrt{N^d_{90\mu}}$. For the yield ratio ($E_d \sim (7 \div 14)$ Mev, $E_p \sim (5 \div 11)$ Mev) $Y(\gamma,d)/Y(\gamma,p) = 0.14 \pm 0.07$ is obtained.

The author finally thanks A. P. Komar for valuable remarks and collaboration and Ye. G. Stepanov for his help in carrying out calculations. There are 4 figures and 12 references, 2 of which are Soviet.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

21(7) SOV/56-36-3-13/71

AUTHOR: Makhnovskiy, Ye. D.

TITLE: The Ratio Between the Deuteron Yield and the Proton Yield in the Photodisintegration of Au^{197} (Otnosheniye vykhoda deytronov k vykhodu protonov pri fotorasshcheplenii Au^{197})

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 3, pp 739-743 (USSR)

ABSTRACT: The author carried out an investigation for the purpose of determining the yield ratio in the case of an irradiation of gold by bremsstrahlung with a maximum energy of 70 Mev, using the nuclear emulsion NIKFI Ya-2. A scheme of the experimental arrangement is shown (Fig 1). The gold foil target (99.1 mg/cm^2) is in a spherical chamber surrounded by a lead shield; the said chamber also contains the NIKFI emulsions (thickness 200 μ). The γ-beam emerging from the synchrotron passes through monitor and lead collimators, passes the clearing field of the electromagnet, and impinges upon the target at an angle of 40°. Investigation results are shown

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55005-65

ACCESSION NR: AP5009402

<code>::=<code position>|<code>|<code position>.
The type string should be assigned to variables and functions used as primary line expressions, the type code to those used as primary code expressions. The logical operations are defined only for codes of equal length. The length of strings is limited by the number of symbols in a memory cell, as is the length of codes. The results were tested by application to several specific programs. "The work was discussed in a seminar on the theory of digital computers. The authors express their sincere gratitude for a number of valuable observations and advice to V. M. Glushkov, A. A. Stogniy, N. Z. Shor and others."

ASSOCIATION: none

SUBMITTED: 29Jun64 ENCL: 00 SUB CODE: DP

NO REF SOV: 000 OTHER: 001

Card 2/2

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AUTHOR: Gladun, V. [illegible] (Kiev); Letichevskiy, A. A. (Kiev); Mikhnovskiy, S. D. (Kiev); Porkolzina, K. M. (Kiev); Rabinovich, Z. L. (Kiev)

TITLE: An extension of the logical possibilities of Algol-60 language

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 5, no. 2, 1965, 369-372

TOPIC TAGS: Algol language, computer language, computer programming

ABSTRACT: A variant of an extension of Algol-60 language is proposed in order to simplify the programming of non-arithmetic problems and to increase access to the intrinsic possibilities of the machine. In an effort to keep the language of Algol independent of the individual machine, only one machine parameter, the length of the machine word, was used in describing the semantics of the language. New variables are introduced: 1) a *string* is a variant of the Algol *line*: <line>::=any sequence of symbols not containing "or" |<empty>; 2) a *code* is defined syntactically as follows:
<code position>::=1|0

Card 1/2

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MAKHNOVSKIY, N.F.

Deformation of concrete in structural elements losing their carrying capacity. Sbor. trud. LIIZHT no.229:169-175 '64. (MIRA 18:8)

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MAKHNOVSKIY, N.F.

Reversing device for tensile tests on a press. Sbor. trud. LIIZHT no.229:83-87 '64. (MIRA 18:8)

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MAKHNOVSKIY, N.F.

Investigation of the supporting power of compressed bendable shafts made of ordinary and prestressed concrete and of reinforced concrete. Sbor. trud. LIIZHT no.192:147-220 '62.

Durability and deformation characteristics of heavy concrete. 221-240 (MIRA 16:9)

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MAKHNOVSKIY, N.F., inzh.

The problem of the bearing capacity of prestressed concrete compressed and compressed-curved rods. Sbor. trud. LIIZHT no.174:217-262 '60. (MIRA 15:11)
(Prestressed concrete--Testing)

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MAKHNOVSKIY, N.F., inzh.

Distribution of load on the main girders of city bridges. Sbor. LIIZET no.164:38-54 '59. (MIRA 13:8)
(Bridges, Iron and steel)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

KOZHEVNIKOV, A.R., prof.; POPOVA, G.I., dots.; VOROZHTSOV, I.P., kand. tekhn. nauk, dots.; GERASENKOV, B.I., kand. sel'khoz. nauk; YUMAGULOV, G.L., kand. sel'khoz. nauk; MAR'YASOV, V.G., assistent; VINOGRADOVA, N.I., kand. sel'khoz. nauk; ROKTANEN, L.P., dots., kand. biol. nauk; KOKHOMSKIY, F.M., Geroy Sotsialisticheskogo Truda, zasl. zootekhnik RSFSR; MAKHNOVSKIY, M.K., dots., kand. ekon. nauk; ARTAMONOV, F.D., assistent; MAKAROVA, I.V., red.

[Corn in the Virgin Territory and Western Siberia] Kukuruza v tselinnom krae i Zapadnoi Sibiri. Moskva, Kolos, 1965. 229 p. (MIRA 18:9)

1. Omskiy sel'skokhozyaystvennyy institut im. S.M.Kirova (for Kozhevnikov, Popova, Mar'yasov, Vinogradova, Kokhomskiy, Makhnovskiy, Artamonov). 2. Zamestitel' direktora po nauchnoy rabote Severo-Kazakhstanskoy opytnoy stantsii (for Yumagulov). 3. Zaveduyushchiy laboratoriyey kukuruzy Sibirskogo nauchno-issledovatel'skogo instituta sel'skogo khozyaystva (for Gerasenkov). 4. TSelinogradskiy sel'skokhozyaystvennyy institut (for Roktanen).

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MAKHNOVSKIY, M. (g. Zagorsk, Moskovskaya oblast')

Practices of suburban electric power technicians. Zhil.-komm.khoz. 9 no.8:26-27 '59. (MIRA 12:11)
(Zagorsk--Electric power distribution)

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VYSOCHIN, B. [Vysochnyn, B.], kand.tekhn.nauk; BELOUSOV, Ye. [Bielousov, IE.], arkhitektor; MAKHNOVSKIY, L. [Makhnovs'kyi, L.], inzh.

Built by students. Sil'.bud. 12 no.3:9-10 Mr '62. (MIRA 15:8)
(Lugansk Province—Farm buildings)

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MAKHNOVSKIY, I.P.

Conference of urban gas network builders. Stroi. truboprov. 7 no.8:24 Ag '62. (MIRA 15:9)
(Gas distribution--Congresses)

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MAKHNOVSKIY, I.G., kand. sel'skokhoz. nauk; GUZEYEV, G., nauchnyy sotrudnik; GALINSKIY, V.; OCHERETENKO, Ye.; VOLGINA, T.; MULLIN, S.; SAFIULLIN, M., aspirant; BABASYAN, A.

Use of toxic chemicals. Zashch. rast. ot vred. i bol. 10 no.8:21-24 '65. (MIRA 18:11)

1. Sredneaziatskiy institut lesnogo khozyaystva, Tashkent (for Makhnovskiy, Guzeyev). 2. Zaveduyushchiy Kabardino-Balkarskoy toksikologicheskoy laboratoriyey, Nal'chik (for Galinskiy). 3. Zaveduyushchiy kafedroy zashchity rasteniy Kamenets-Podol'skogo sel'skokhozyaystvennogo instituta (for Ocheretenko). 4. Starshaya laborantka Kamenets-Podl'skogo sel'skokhozyaystvennogo instituta (for Volgina). 5. Nachal'nik Tatarskoy stantsii zashchity rasteniy (for Mullin). 6. Kazanskiy pedagogicheskiy institut (for Safiullin). 7. Zaveduyushchaya Irkutskoy toksikologicheskoy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo instituta zashchity rasteniy, Irkutskaya oblast' (for Babasyan).

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MAKHNOVSKIY, I.K., kand.sel'skokhoz.nauk; GUZEYEV, G.F., mladshiy nauchnyy sotrudnik

Aerosols in controlling moths. Zashch. rast. ot vred. i bol. 8 no.5:17-18 My '63. (MIRA 16:9)

1. Sredneaziatskiy institut lesnogo khozyaystva, Tashkent.
(Kirghizistan—Moths—Extermination)

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MAKHNOVSKIY, Ivan Konstantinovich; ROMANENKO, Klavdiya Yevstaf'yevna; CHEBOTAREV, Ivan Nikolayevich; YUDENICH, V.P., red.; KOMEROVA, V.I., tekhn. red.

[Nut and fruit forests and their protection against pests in Kirghizistan] Orekhovo-plodovye lesa Kirgizii i okhrana ikh ot vreditelei. Frunze, Kirgizskoe gos.izd-vo, 1963. 67 p. (MIRA 17:3)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVSKIY, Ivan Konstantinovich; GUZEYEV, Grigoriy Fedorovich; PYLAYEVA, L.N., red.; SAMIKOV, S., tekhn. red.

[Using aerosols in controlling apple and ermine moths in mountain forest fruit stands in Central Asia] Primenenie aerozolei v bor'be s iablonevoi i plodovoi moliami v gornykh lesoplodovykh nasazhdeniiakh Srednei Azii. Tashkent, Redaktsionno-izdatel'skii otdel MSKh UzSSR, 1962. 60 p. (MIRA 16:5)

(Soviet Central Asia--Moths--Extermination)
(Spraying and dusting in agriculture)
(Soviet Central Asia--Fruit--Diseases and pests)

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MAKHNOVSKIY, I.K., starshiy nauchnyy sotrudnik

Develop machines for the protection of fruit forests in mountain areas. Zashch. rast. ot vred. i bol. 6 no.12:11-13 D '61. (MIRA 16:5)

1. Sredneaziatskiy institut lesnogo khozyaystva, g. Tashkent.

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MAKHNOVSKIY, I.K.; GUZEYEV, G.F.

Aerosol method for controlling apple and fruit tree ermine moths in the mountains of Central Asia. Zashch. rast. ot vred. i bol. 6 no.9:29-30 S '61. (MIRA 16:5)

(Soviet Central Asia--Fruit--Diseases and pests)
(Soviet Central Asia--Moths--Extermination)

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MAKHNOVSKIY, I.K.

USSR / General and Specialized Zoology - Insects 0-7

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 23278

Author : Makhnovskiy, I.K.

Inst : Not Given

Title : An Experiment in Controlling Apple Moths in the Samarkand Leskhoz [Forest collective]

Orig Pub : Byul. nauch.-tekhn. inform. Sredneaz. n.-i. in-ta les. kh-va, 1955, No 1, 40-42

Abstract : The best time for controlling moths is the period of movement of caterpillars after wintering from under cover toward opening buds. But this period is short (3-5 days) and it is difficult to treat large areas in this time. Hawthorns, apples and plums were sprayed by a 5% DDT suspension from May 6-26, while caterpillars were in their nests. On the section treated no chrysalis was found. Based on laboratory experiments and moth behavior in the flight period, the author considers that dusting plantings with DDT is effective against moths.

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MAKHNOVSKIY, I. K.

Juniper

Sanitation of stands of juniper in Uzebekistan. Les. khoz. 5 No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1953, 2 Uncl.

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MAKHNOVSKIY, I.

Here you can learn a lot. Zhi.-kom. khoz. 13 no.3:14-15 Mr '63. (MIRA 16:3)

(Ordzhonikidze--Gas manufacture and works)

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MAKHNOVSKIY, I.

Industrial methods for finishing operations. Zhil.-kom.khoz. 12 no.8:30-31 Ag '62. (MIRA 16:2)

(Msocow--Exhibitions)
(Czechoslavakia--Building--Details)

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MAKHNOVSKIY, I. (Gor'kiy)

The production conference has decided. Zhil.-kom. khoz. 12 no.5:13-14 My '62. (MIRA 15:10)

(Gorkiy--Streetcars)

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MAKHNOVSKIY, I.

Along the new paths. Zhil.-kom. khoz. 12 no.4:24-25 Ap '62. (MIRA 15:7)

(Cash registers)

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MAKHNOVSKIY, I. (Tula)

Collective and state farms need gas. Zhil.-kom.khoz. 11 no.6: 6-7 Je '61. (MIRA 14:7)

(Tula Province--Gas, Natural)

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MAKHNOVSKIY, I. (Ul'yanovsk)

If you undertake the matter together. Zhil.-kom.khoz. 11 no.5: 26-27 My '61. (MIRA 14:7)
(Ul'yanovsk—Landscape architecture)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVSKIY, I.

For municipal needs. Zhil.-kom. khoz. 11 no.1:32-33 '61.
(MIRA 14:2)

(Municipal services)

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MAKHNOVSKIY, I. (g.Voronezh)

Problems in installing a gas supply system in Voronezh. Zhil.-kom. khoz. 10 no.11:17-18 '60. (MIRA 13:11)
(Voronezh--Gas distribution)

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MAKHNOVSKIY, I.

How Ramenskoye power engineers prepared for the shift to the seven-hour workday. Zhil.-kom. khoz. 10 no.10:21-22 '60. (MIRA 13:10)

(Ramenskoye--Electric power distribution)
(Hours of labor)

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MAKHNOVSKIY, I.

New gas household appliances. Zhil.-kom. khoz. 10 no.8:3-4 '60.
(MIRA 13:9)

(Gas--Heating and cooking)

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MAKHNOVSKIY, I.

Machines for laundries. Zhil.-kom.khoz. 10 no.6:30 '60.
(MIRA 13:7)

(Laundry machinery)

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MAKHNOVSKIY, I. (Kursk)

Speed up installation of the urban gas-supply system in Kursk. Zhil.-kom.khoz. 10 no.5:19-20 '60. (MIRA 13:10)

1. Zaveduyushchaya sanitarnym otdelom gorodskoy sanitarno-epidemiologicheskoy stantsii, g.Chelyabinsk (for Kishkina).
2. Predsedatel' postoyannoy komissii po kommunal'nomu khozyaystvu ispolkoma Soveta deputatov trudyashchikhsy Traktorozavodskogo rayona, g. Chelyabinsk (for Panarin).
(Kursk--Gas distribution)

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MAKHNOVSKIY, I. (Saratov)

Work and needs of the apartment-house maintenance workers of Saratov. Zhil.-kom.khoz. 10 no.2:4-5 '60. (MIRA 13:5)
(Saratov--Apartment houses--Maintenance and repair)

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MAKHNOVSKIY, I. (g.Novosibirsk)

Industrial safety in communal economy enterprises of the city of Novosibirsk. Zhil.-kom.khoz. 9 no.12:5-6 '59.
(MIRA 13:4)

(Novosibirsk--Industrial safety)

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MAKHNOVSKIY, I. (Petrozavodsk)

On the road to mature mastery. Zhil.-kom.khoz. 9 no.11:18-19 '59. (MIRA 13:2)

(Moiseev, Viktor)

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MAKHNOVSKIY, I.

Efficiency promoters of the Yeisk Electric Power Plant. Zhil.-kom.khoz. 9 no.6:14-16 '59. (MIRA 12:10)
(Yeisk--Electric power plants--Equipment and supplies)

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MAKHNOVSKIY, I.

At the experimental plant. Zhil.-kom. khoz. 8 no. 8:27-28 '58.
(MIRA 11:8)
(Moscow--Electric apparatus and appliances)
(Moscow--Electric lighting)

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MAKHNOVSKIY, N.G.

Creating special sound effects for motion pictures. Tekh. kino i telev. no.6:72-73 Je '58. (MIRA 11:6)

1. Ordena Lenina kinostudiya "Mosfil'm."
(Sound—Recording and reproducing)
(Motion pictures)

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MAKHNOVSKAIA, N.D.

Effect of anilides and chloroanilides of salicylic acid on dermatomycetes and pathogenic yeasts. Vest.derm.i ven. 34 no.3:15-17 My-Je '60. (MIRA 13:10)
(SALICYLIC ACID) (FUNGI)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVICH, G.

Agriculture - Study and Teaching

Training agricultural experts. Kolkh.proizv. 12 No. 8, 1952.

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

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVICH, Anatoliy Timofeyevich

[Safety manual for workers servicing cement silos and bunkers] Pamiatka po tekhnike bezopasnosti dlia rabochikh, obsluzhivaiushchikh tsementnye silosy i bunkera. Moskva, Stroiizdat, 1965. 27 p. (MIRA 18:10)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

BARBARINA, T.M.; BUBYR', N.F.; BUTT, L.M.; VEL'SOVSKIY, V.N.; GORLOV, Yu.P.; GRIBANOVSKIY, V.G.; DROZDOV, I.Ya.; YEREMIN, I.A.; ZEZIN, V.G.; KEVESH, P.D.; KOCHAROV, E.P.; KOSYREVA, Z.S.; LEVIN, S.M.; MAKHNOVICH, A.T.; MERZLYAK, A.N.; RODOV, E.S.; ROZHNOV, A.I.; SEREBRYANSKAYA, B.I.; SUKHAREV, M.F.; USTENKO, A.A.; KHOMENKO, Z.S.; SHMIDT, L.M.; ETIN, A.O.; YAKHONTOVA, N.Ye.; KITAYTSEV, Vladimir Andreyevich, prof., doktor tekhn. nauk, red.; SKRAMTAYEV, B.G., glav. red.; TROKHIMOVSKAYA, I.P., zam. glav. red.; KRAVCHENKO, I.V., red.; KITAYGORODSKIY, I.I., red.; KRZHEMINSKIY, S.A., red.; ROKHVARGER, Ye.L., red.; BALAT'YEV, P.K. red.

[Manual on the manufacture of heat insulating and acoustical materials] Spravochnik po proizvodstvu teploizoliatsionnykh i akusticheskikh materialov. Moskva, Stroiizdat, 1964. 524 p. (MIRA 18:1)

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MAKHNOVICH, Anatoliy Timofeyevich; TABUNINA, M.A., red.; MIKHEYEVA, A.A., tekhn. red.

[Safety manual for workers repairing equipment in the molding shops of reinforced-concrete plants] Pamiatka po tekhnike bezopasnosti dlia rabochikh po remontu oborudovaniia formovochnykh tsekhov zavodov zhelezobetonnykh izdelii. Moskva, Gosstroiizdat, 1963. 31 p. (MIRA 16:10)
(Concrete plants--Safety measures)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVICH, A.T.; TABUNINA, M.A., red.izd-va; TARKHOVA, K.Ye., tekhn. red.

[Safety manual for workers subjected to vibrations while servicing equipment]Pamiatka po tekhnike bezopasnosti dlia rabochikh, podvergaiushchikhsia vibratsii pri obsluzhivanii oborudovaniia. Izd.2., perer. i dop. Moskva, Gosstroiizdat, 1963. 29 p. (Vibration) (MIRA 16:9)

(Building materials industry--Safety measures)

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DESHKO, Yu.I.; KREYMER, M.B.; MAKHNOVICH, A.T.; KATRANOV, I.G., spets.red.; TABUNINA, M.A., tekhn. red.; SHERSTNEVA, N.V., tekhn. red.; TEMKINA, Ye.L., tekhn.red.

[Materials on accident prevention and industrial hygiene in the building materials industry] Sbornik materialov po tekhnike bezopasnosti i proizvodstvennoi sanitarii v promyshlennosti stroitel'nykh materialov. Moskva, Gosstroiizdat, 1962. 634 p. (MIRA 15:11)

(Building materials industry—Hygienic aspects)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVICH, Anatoliy Timofeyevich, inzh.; TABUNINA, M.A., red. izd-va; TEMKINA, Ye.L., tekhn. red.

[Handbook on accident prevention for the molding machine operator; production of reinforced concrete products]Pamiatka po tekhnike bezopasnosti dlia mashinista formovochnoi mashiny; pro proizvodstvu zhelezobetonnykh izdelii. Moskva, Gosstroiizdat, 1962. 21 p. (MIRA 15:12)

(Concrete plants—Safety measures)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVICH, Anatoliy Timofeyevich; TABUNINA, M.A., red. izd-va; MIKHEYEVA, A.A., tekhn. red.

[Workers' handbook on accident prevention when lubricating molds in the production of reinforced concrete elements] Pamiatka po tekhnike bezopasnosti dlia rabochikh pri smazke form pri proizvodstve zhelezobetonnykh izdelii. Moskva, Gosstroiizdat, 1962. 19 p. (MIRA 16:1)

(Concrete plants—Safety measures)
(Lubrication and lubricants)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVICH, A.T.; CHEKHOVSKAYA, T.P., red.izd-va; BRUSINA, L.M., tekhn. red.

[Guide to safety measures for workers in the manufacture of reinforced-concrete products by vibration rolling; for operators of the Kozlov mill] Pamiatka po tekhnike bezopasnosti dlia rabochikh po izgotovleniiu zhelezobetonnykh izdelii metodom vibroprokata; dlia operatora stana Kozlova. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 15 p. (MIRA 15:3)

(Building materials industry--Safety measures)
(Precast concrete construction)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVICH, A.; ANDRIANOV, V.

Let's join our efforts in the struggle against vibration sickness. Okhr. truda i sots. strakh. 6 no.3:6-8 Mr '63. (MIRA 16:4)

1. Tekhnicheskiy inspektor TSentral'nogo komiteta professional'nogo soyuza rabochikh stroitel'stva i promyshlennykh stroitel'nykh materialov (for Makhnovich). 2. Deverennyy vrach TSentral'nogo komiteta professional'nogo soyuza rabochikh stroitel'stva i promyshlennykh stroitel'nykh materialov (for Andrianov).

(Vibration—Physiological effect)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

GUR'YEV, Viktor Vasil'yevich [deceased]; MAKHNOVETSKIY, Solomon Iosifovich; SSORIN, Vladimir Aleksandrovich; POGEL', D.N., red.

[Principles and methods of the organization of permanent lumbering enterprises] Osnovy i puti organizatsii postoianno deistvuiushchikh lesozagotovitel'nykh predpriiatii. Moskva, Lesnaia promyshlennost', 1964. 287 p. (MIRA 18:3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

FOGEL', Dmitriy Nikolayevich; MAKHNOVETSKIY, Solomon Iosifovich; SOSHNIKOV, M.N., red.; MIKHAYLOVA, L.G., red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Possibilities for developing the lumbering industry in the region of the Angara Valley Hydroelectric Power Station Cascade; utilization of forests in flooded areas] Perspektivy razvitiia lesnoi promyshlennosti v raione Angarskogo kaskada GES; osvoenie lesov na zatopliaemykh territoriiakh. Moskva, Goslesbumizdat, 1961. 125 p. (MIRA 14:9)

(Angara Valley—Lumbering)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

KOZLOV, A.I., kand.ekon.nauk; MAKHNOVETSKIY, S.I., inzh.

Using hydrolysis lignites as waste additives. Stroi. mat. 6 no.12:19 D '60. (MIRA 13:11)

(Lignite)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

MAKHNOVETSKIY, I.M.

AID P - 3508

Subject : USSR/Power Eng

Card 1/1 Pub. 26 - 2/30

Author : Berson, S. Ya., I. P. Ivanov, I. M. Makhnovetskiy, S. P. Korsak, and M. D. Mikhel'man, Engs.

Title : Two stage hot air combustion of pulverized coal

Periodical : Elek. sta., 9, 5-8, S 1955

Abstract : The authors discuss in detail certain changes made on boilers of the PK-9-200/35 type, which use hard coal and are installed at one of the thermal power plants. The article describes the results of 4 years work in designing, testing and improving of the boiler design. Further research and tests are recommended. Three diagrams.

Institution : None

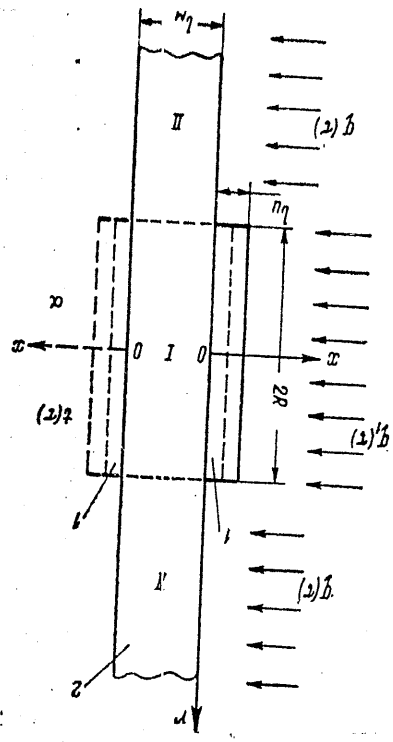
Submitted : No date

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

87874

S/146/60/003/006/011/013
B012/B060



Legend to Fig.1: Scheme of position of heat receiver 1 on wall 2, as seen from the side from which heat flow $q(\tau)$ comes. The broken line distinguishes the position of the heat receiver, as seen from the side of the medium with temperature $t(\tau)$.

Fig.1

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87874

Errors in the Measurement of Transient Surface Temperatures

S/146/60/003/006/011/013
B012/B060

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: May 24, 1960

Card 3/4

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

87874

Errors in the Measurement of Transient Surface Temperatures

S/146/60/003/006/011/013
B012/B060

the temperature being assumed to be uniform along the wall thickness. A study is first made of this field in the wall, and next, the temperature measurement errors are dealt with. These errors are those due to the nonuniform temperature distribution in the wall and the error due to the temperature drop in the thickness of the heat receiver. Formulas are derived for calculating the measurement errors in the heat flux and medium temperature varying monotonically in time. More precisely, this is done for the case where the measuring instruments are small resistance thermometers, thermocouples, and bolometers. If the fundamental premises are observed (uniform temperature distribution according to wall thickness and rectilinear distribution of temperature according to thickness of the heat receiver), the error estimation and the calculation of temperature distribution is then possible also for non-monotonic alternating heat action. The publication of this article was recommended by the kafedra teplovykh i kontrol'no-izmeritel'nykh priborov (Department for Thermal and Control Measuring Instruments). There are 3 figures and 7 references: 3 Soviet and 3 German.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

87874

S/146/60/003/006/011/013
B012/B060

9.6110

AUTHORS: Yaryshev, N. A., Makhnovetskiy, A. S.

TITLE: Errors in the Measurement of Transient Surface Temperatures

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1960, Vol. 3, No. 6, pp. 100 - 110

TEXT: A study has been made of the errors in measuring transient temperatures of wall surfaces by means of resistance thermometers. Fig.1 is given to illustrate the case in which a plane wall of thickness l_M separates two liquid or gaseous media. $q(t)$ is the resulting heat flux hitting the unit area of the plane wall. $t(\tau)$ is the temperature of the medium skirting the wall from the other side. The intensity of heat exchange with the medium is described by the heat transfer number α, the latter being assumed to be constant throughout the measuring operation. For a simplification, the resistance thermometer is replaced by a disk of radius R and thickness l_u (Fig.1). The task consists in finding the temperature field in the system diagrammatically shown in Fig.1, with

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

69800

S/146/59/002/06/013/016
D002/D006

High-Speed Methods for Measuring Heat Losses and Graduating Calorimeters

measurements. The article was recommended by the Kafedra teplovykh i kontrol'no-izmeritel'nykh priborov (Chair of Heat and Checking-Measuring Devices). There are 3 diagrams, 2graphs, 2 tables, and 7 Soviet references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics).

SUBMITTED: September 14, 1959

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

69800

S/146/59/002/06/013/016
D002/D006

High-Speed Methods for Measuring Heat Losses and Graduating Calorimeters

heat regime theory. The methods were checked experimentally by simulating natural heat conditions, and by simulating the heat exchange processes on the hydro-integrator of the Luk'yanov system. The hydro-integrator simulated heat exchanges of a calorimeter having characteristics similar to a calorimeter of the LTIKhP type. The regular heat regime started after 2.5 - 3 minutes and lasted 10-12 minutes, a period long enough to record the necessary readings. For simulating heat conditions, a calorimeter model was made (Figure 3) having ebonite discs 56 mm in diameter glued on top of each other, and a weight of 14.5 g. The results are given in tables, and can be used for designing calorimeters and graduation devices for high-speed

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

69800

S/146/59/002/06/013/016
D002/D006

28(5) 24,5200

AUTHOR: Makhnovetskiy, A.S., Post Graduate Student

TITLE: High-Speed Methods for Measuring Heat Losses and Graduating Calorimeters

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1959, Nr 6, pp 89-99 (USSR)

ABSTRACT: Heat losses in industrial instruments are measured by means of calorimeters and micro-calorimeters, e.g. the microcalorimeter of the Institut "Teploproyekt" ("Teploproyekt" Institute) designed by Engineer S.D. Rakhmanovskiy, the compensation calorimeters of ORGRES by Engineers I.Ya. Zalkind, I.M. Kormer, A.V. Anan'yev, etc. The author of the present article discusses the theory of high-speed methods for measuring heat losses and graduating calorimeters, the graduation being based on the generalized

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

66215

SOV/146-59-1-17/21

A Method for Rapid Calibration of Plane Heat Flow Measuring Instruments

tion characteristic of plane measuring instruments. The time saving is expecially significant for massive inertia heat measuring instruments, for example, those of LTIKhP, or the thermotransitometers of the Institut stroitel'noy fiziki Akademii arkhitektury (Institute of Construction Physics at the Academy of Architecture), etc.; d) The method of regular calibrating permits a consideration of the nonlinearity of the calibrating characteristics (when plotted from the model of the instrument, the nonlinear characteristics $q = q(N_U)$ and $q = q\left(\frac{N\vartheta_r}{1+\eta_p}\right)$ coincided to a satisfactory degree). A diagram of an experimental model is shown in fig.2. There are 1 diagram, 3 graphs, 4 tables and 2 Soviet references.

Card 3/3

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: January 24, 1959

4

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

(10)

facilitate a determination of the magnitudes η and α with sufficient accuracy. In combination with the method of determining the magnitudes q_1 (more precisely R_{mm}, according to G.M. Kondrat'yev (Ref. 2)), and α by the regular method, all other required characteristics may be plotted in one experiment; b) The application of formulas (12) and (9)

$$\eta = \frac{N_{\vartheta} - N_U}{N_U} \qquad (9)$$

permits a determination of the magnitude by calculations or by experiments (the latter is required in case of a complicated design of the heat measuring instrument, when the calculation of the magnitude n is impossible); c) The recommended calibrating method reduces considerably the time required for plotting the calibra-

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

66215
SOV/146-59-1-17/21

~~24(6)~~ 24.5200

AUTHOR: Maknovetskiy, A.S., Post-Graduate Student

TITLE: A Method for Rapid Calibration of Plane Heat Flow Measuring Instruments

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1959, Nr 1, pp 110-118 (USSR)

ABSTRACT: The conventional process of calibrating plane heat flow measuring instruments is a labor-consuming operation requiring bulky equipment and qualified personnel. Therefore, in this paper a method of instrument calibration is discussed under the conditions of a regular heat flow of the first order. This method is distinguished by great speed and simplicity of the experimental work. Based on theoretical and experimental analyses, the author arrives at the following conclusions: a) The basic formulas of calibrating

(12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

OBUKHOV, V.M.; MAKHNOVETSKIY, A.S.; GUTOP, V.G., nauchnyy redaktor; GLADYSHEVA, S.A., redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[Automatization and heat control in glass production; work practice of the Dzerzhinskii glass factory in Gusev] Avtomatizatsiia i teplovoi kontrol' v proizvodstve stekla; iz opyta raboty Gusevskogo stekol'nogo zavoda imeni Dzerzhinskogo. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1956. 99 p. (MLRA 9:12)

(Gusev--Glass manufacture) (Automatic control)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

OBUKHOV,V.M.; MAKHNOVETSKIY,A.S.

Method of continuous surface temperature measurement and recording on ShS-500 conveyers. Stek. i ker. 12 no.9:28-29 S'55. (MLRA 8:12)

1. Gusevskoy stekol'nyy zavod
(Glass manufacture) (Thermometry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6

TALYZIN, Mikhail Dmitriyevich; LIPKOV, Iosif Abramovich; MAKHNOVETSKAYA, Rita Borisovna; DOROFEYEVA, Lyudmila Sergeyevna; KUDRYAVTSEV, D.S., retsenzent; DMITRIYEV, I.I., retsenzent; FROLOV, A.S., retsenzent; SHTEYNGART, M.D., red.; VINOGRADOVA, G.A., tekhn. red.

[Pile fabrics and artificial fur] Vorsovye tkani i iskusstvennyi mekh. Pod obshchei red. M.D.Talyzina. Moskva, Rostekhizdat, 1963. 351 p. (MIRA 16:4)
(Artificial fur) (Textile fabrics)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500004-6