"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

Orig. Art. has: 2 figures and 3 tables.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo, Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 02Jul64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 006 OTHER: 017

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V., mayor meditsinskoy sluzhby

The problem is not only the shifting of attention. Av. i kosm. 47 no.3:68-69 Mr '65. (MIRA 18:3)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

MOTSAREV, G.V.; YAKUBOVICH, A.Ya.; PONOMARENKO, V.A.; SNEGOVA, A.D.; IVANOVA, T.M.

Substitution chlorination of phenyltrichlorosilane. Zhur. ob. khim. 35 no.4:756-757 Ap '65. (MIRA 18:5)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

MAYRANOVSKIY, S.G.; PONOMARENKO, V.A.; BARASHKOVA, N.V.; KADIKA, M.A.

Structure and polarographic behavior of some iodomethyltrialkyl (aryl)silanes. Izv. AN SSSR Ser. khim. no.11:1951-1956 N '64 (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

SADYKH-ZADE, S.I.; SULTANOV, R.; GASANOVA, F.A.; BOKOVOY, A.P.; LITVINOVA, O.V.; POKOMARENKO, V.A.

Synthesis of epoxyaminoorganosilanes. Dokl. AN Azerb. SSR 20 no. 6:25-27 '64. (MIRA 17:9)

1. Institut neftekhimicheskikh protsessov AN AzerSSR. Predstavleno akademikom AN AzerSSR M.A.Dalinym.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

SNEGOVA, A.D.; MARKOV, L.K.; PONOMARENKO, V.A.

Use of gas-liquid chromatography in the analysis of halogen-containing organosilicon and organogermanium compounds. Zhur. anal. khim. 19 no.5:610-614 '64. (MIRA 17:8)

1. Institut organicheskoy khimii AN SSSR imeni Zelinskogo, Moskva.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.A., kand. tekhn. nauk; KRAVCHINSKIY, S.Yu.; VERKLOV, B.A., kand. tekhn. nauk; LYSYUK, V.S., inzh.

Establishing an optimumchart for underground mine haulage by the electron modeling method. Ugol' Ukr. 9 no.12:19-21 D '65. (MIRA 19:1)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Ponomarenko, Kravchinskiy). 2. Kommunarskiy gornometallurgicheskiy institut (for Verklov, Lysyuk).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

MOTSAREV, G.V.; YAKUBOVICH, A.Ya.; PONOMARENKO, V.A.; SNEGOVA, A.D.; IVANOVA, T.M.

Substitution chlorination of phenyltrichlorosilane. Zhur.ob.khim. 35 no.12:2167-2176 D '65. (MIRA 19:1)

1. Submitted July 8, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

ACC NR: AP6030001 SOURCE CODE: UR/0256/66/000/008/0029/0030

AUTHOR: Shiyanov, G. M. (Hero of Soviet Union; Meritorious test pilot of SSSR); Ponomarenko, V. A. (Major m/s; Candidate of medical sciences); Zavalova, N. D. (Candidate of pedagogical sciences)

ORG: none

TITLE: Problems in the automation of aircraft control

SOURCE: Vestnik protivovozdushnoy oborony, no. 8, 1966, 29-30

TOPIC TAGS: aircraft control eqiupment, aircraft flight instrument, automatic control, AUTOMATIC FLIGHT CONTROL

ABSTRACT: The authors of this article state that at the XXIII Congress of the Communist Party much attention was given to the problem of automation, which is also directly applicable to aviation. The automation of aircraft control is an effective means of increasing flight safety and relieving the pilot from firing operations. It is also mentioned that the best method of transition to manual control is through direct information reflected by indicators located on the artificial horizon.

SUB CODE: 01, 13/ SUBM DATE: none/ OTH REF: 002/

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.F.

PONOMARENKO, V.F.

Controlling blood-sucking insects in the Volga-Akhtuba lowland. Med.paraz. i paraz.bol.supplement to no.1:55-56 '57. (MIRA 11:1)

1. Iz Stalingradskoy gorodskoy protivomalyariynoy stantsii
(VOLGA VALLEY--INSECTS, INJURIOUS AND BENEFICIAL)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

YEGOROCHKIN, A.N.; KHIDEKEL', M.L.; PONOMARENKO, V.A.; ZUYEVA, G.Ya.; RAZUVAYEV, G.A.

Certain regularities in proton magnetic resonance spectra of a number of germanium compounds. Izv.AN SSSR.Ser.khim. no.2:373-375 F '64. (MIRA 17:3)

1. Nauchno-issledovatel'skiy institut khimii pri Ger'kovskom gosudarstvennom universitete im. Lobachevskogo, Instituta khimicheskoy fiziki AN SSSR i Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V. A.

L 11325-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RPL DJ/RM
ACCESSION NR: AP4045056 S/0249/64/020/006/0025/0027

AUTHOR: Sadykh-Zade, S. I.; Gasanova, F. A.; Sultanov, K.; Bokovoy, A. P.; Litvinova, O. V.; Ponomarenko, V. A.

B

TITLE: Synthesis of [(epoxyamino)organo]silanes

SOURCE: AN AzerbSSR. Doklady, v. 20, no. 6, 1964, 25-27

TOPIC TAGS: silicone, silane, organosilicon compound

ABSTRACT: A study of the synthesis of organosilicon monomers containing epoxy groups in organic substituents on silicon has been continued. The feasibility was shown of synthesizing [(epoxyamino)organo]silanes by addition of alkyl(alkoxy)silanes to alkenylepoxyamines in the presence of chloroplatinic acid. Twelve [(epoxyamino)organo]silanes were prepared in 8—57.9% yields; their physical constants are tabulated in the original article. Most of the new compounds polymerize on standing. Their polymerization properties will be described in a separate paper. Addition of 1,3-diethyl-1,3-dimethyldisiloxane to diallylepoxyamine in the presence of chloroplatinic acid formed in quantitative yield a viscous oil polymer which sets on standing.

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

L 11325-65

ACCESSION NR: AP4045056

$[C_{15}H_{33}Si_2O_2N]$; the average molecular weight is 1780. Orig. art. has: 1 table and 10 formulas.

ASSOCIATION: Institut neftikhimicheskikh protsessov (Institute of Petrochemical Processes)

SUBMITTED: 25Feb64 ATD PRESS: 3106 ENCL: 00

SUB CODE: OC, IC NO REF SOV: 005 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.F.

NBK (G-17) insecticidal smoke in the control of blood saving midges. Med. paraz. i paraz. bol. 27 no.4:500-501 Jl-Ag '58. (MIRA 12:2)

1. Iz parazitologicheskogo otdela Stalingradskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy varch V.I. Spitskaya, zav. otdelom K.D. Sharkova).

(INSECTS,
midges, control with insecticidal smoke boxes (Rus))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

Pokomarenko, V.F.

POKOMARENKO, V.F. (Stalingrad)

Relation of measure for controlling Anopheles maculipennis to the height and duration of the spring Volga floods. Med.paras. i paras. bol.supplement to no.1:29 '57. (MIRA 11:1)
(VOLGA VALLEY--MOSQUITOES--EXTERMINATION)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.F.

Control of blood-sucking Diptera in the Volga-Akhtubinsk flood plain. Med. paraz. i paraz. bol. no.2:149-153 Ap-Je '54. (MLRA 7:8)

1. Iz Salingradskoy gorodskoy protivomalyariynoy stantsii (glavnyy vrach K.D.Sharkova)
(MOSQUITOES,
*control in Russia)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.G.; ELLIS, S.V.

Static and dynamic characteristics of primary gas coolers.
Koks i khim. no.4:33-37 '62. (MIRA 16:8)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti.
(Cooling towers) (Coke-oven gas)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.G.

Factory testing of a unit for the denitration of sulfuric acid.
Koks i khim. no.11:54-57 '61. (MIRA 15:1)

1. Gosudarstvennyy vsesoyuznyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti.
(Sulfuric acid) (Denitration)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.G.

USSR/Forestry - Forest Plants.

K-5

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5908

Author : Khritsteva, L.A., Ponomarenko, V.G., Rumyantseva, V.M., Kotlyuba, V.G.

Inst : Kherson Agricultural Institute

Title : The Influence of Humic Acid on the Growth of Pines in Nurseries and Tree Plantations Set out in the Autumn on the Lower Dnepr Sands.

Orig Pub : Nauchn. zap. Khersonsk. s.-kh. in-t, 1957, No 6, 125-133

Abstract : In order to explain the effect of humic acid on the quality of planted material, experiments were conducted in 1953 in the Golopristanskiy Forest Economy, Khersonskaya oblast', in the nutrition of common pines which had not attained full growth. Sodium humate in a 0.001% concentration was used as a humic fertilizer. It was applied by

Card 1/3

sorts of seedlings; however, a greater effect was noted in the seedlings of the first sort. In the plantings the best growth of vegetative mass and roots derived from an intensification of the microbiological processes in the

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

Card 2/3

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

USSR/Forestry - Forest Plants.

K-5

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5908

zone around the roots; this in turn resulted from the direct influence of the humic acid on separate groups of microorganisms.

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.G. [Ponomarenko, V.H.]; TIMAN, M.F.

Classes of saturation of functions of several variables. Dop. AN URSR no.10:1282-1286 '62. (MIRA 18:4)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.G.; TIMAN, M.F.

Some generalizations of Zygmund's theorem. Uch. zap. Kaz. un. 124 no.6:266-270 '64. (MIRA 18:9)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.G.

Summation of Fourier integrals and the best approximation by integral functions. Dokl. AN SSSR 147 no.3:556-558 N '62. (MIRA 15:12)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut. Predstavleno akademikom V.I. Smirnovym.
(Fourier series) (Functions, Entire)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

S/020/62/147/003/008/027
B112/B186

AUTHOR: Ponomarenko, V. G.

TITLE: Summation of Fourier integrals and the best approximation by integral functions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 3, 1962, 556 - 558

TEXT: The author derives several estimates of

$$R_\lambda(f;\varphi)_{L_p} = \|f(x) - U_\lambda(f;x;\varphi)\|_{L_p},$$

where

$$U_\lambda(f;x;\varphi) = \int_{-\lambda}^{\lambda} \varphi_\lambda(u)F(u)e^{iux}du.$$

$F(u)$ denotes the Fourier transform of the function $f(x)$, and $\varphi_\lambda(u)$ is a function satisfying the conditions

$$\varphi_\lambda(u) = 1 \text{ for } u = 0, \quad \varphi_\lambda(-u) = \varphi_\lambda(u), \quad \varphi_\lambda(u) = 0 \text{ for } |u| \geq \lambda$$

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

$R_\lambda(f;\varphi)$ is compared with the best approximation $A_\sigma(f)_{L_p}$ of the function f by integral functions g_σ the degree of which does not exceed σ:

$$A_\sigma(f)_{L_p} = \inf_{g_\sigma} \|f(x) - g_\sigma(x)\|_{L_p}.$$

The most important result is the following:

$$R_\lambda(f;1 - |u|^r/\lambda^r)_{L_p} \leqslant (C_r/\lambda^r) \int_0^\lambda u^{r-1} A_u(f)_{L_p} du. \qquad (5)$$

ASSOCIATION: Dnepropetrovskiy sel'skokhozyaystvennyy institut (Dnepropetrovsk Agricultural Institute)

PRESENTED: June 11, 1962, by V. I. Smirnov, Academician

SUBMITTED: June 7, 1962

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.G.; ELLIS, S.V.; CHERNONOSOV, Ye.Ye.

Optimalizing control system for rapid technological processes. Koks i khim. no.11:57-62 '62. (MIRA 15:12)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti.
(Chemical apparatus) (Automatic control)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

S/020/62/147/003/008/027
B112/B186

AUTHOR: Ponomarenko, V. G.

TITLE: Summation of Fourier integrals and the best approximation by integral functions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 3, 1962, 556 - 558

TEXT: The author derives several estimates of

$$R_\lambda(f;\varphi)_{L_p} = \|f(x) - U_\lambda(f;x;\varphi)\|_{L_p},$$

where

$$U_\lambda(f;x;\varphi) = \int_{-\lambda}^{\lambda} \varphi_\lambda(u)F(u)e^{iux}du.$$

$F(u)$ denotes the Fourier transform of the function $f(x)$, and $\varphi_\lambda(u)$ is a function satisfying the conditions

$$\varphi_\lambda(u) = 1 \text{ for } u = 0, \quad \varphi_\lambda(-u) = \varphi_\lambda(u), \quad \varphi_\lambda(u) = 0 \text{ for } |u| \geqslant \lambda$$

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

$R_\lambda(f;\varphi)$ is compared with the best approximation $A_\sigma(f)_{L_p}$ of the function f by integral functions g_σ the degree of which does not exceed σ:

$$A_\sigma(f)_{L_p} = \inf_{g_\sigma} \|f(x) - g_\sigma(x)\|_{L_p}.$$

The most important result is the following:

$$R_\lambda(f;1 - |u|^r/\lambda^r)_{L_p} \leqslant (C_r/\lambda^r) \int_0^\lambda u^{r-1} A_u(f)_{L_p} du. \qquad (5)$$

ASSOCIATION: Dnepropetrovskiy sel'skokhozyaystvennyy institut (Dnepropetrovsk Agricultural Institute)

PRESENTED: June 11, 1962, by V. I. Smirnov, Academician

SUBMITTED: June 7, 1962

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V. G.

Ponomarenko, V. G.

"On the linear processes of approximation of continuous periodic functions of two variables." Min Higher Education USSR. Kneprepetrovsk State U imeni 300th Anniversary of the Unification of the Ukraine with Russia. Denpropetrovsk, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Sciences).

Knizhnaya letopis'
No. 21, 1956. Moscow.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

L 33101-66 EWT(d)/FSS-2

ACC NR: AP6024080 SOURCE CODE: UR/0106/66/000/004/0020/0024

55
B

AUTHOR: Ponomarev, V. I.

ORG: none

TITLE: Approximation and normalization of characteristic delay times of long range communications channels

SOURCE: Elektrosvyaz', no. 4, 1966, 20-24

TOPIC TAGS: telecommunication, communication channel, HF communication, approximation calculation

ABSTRACT: An analysis of typical delay time characteristics of hf telephone channels. An expression is presented to approximate these delay times:

$$\tau_n = 0.8 \left[\frac{1}{f - f_{c1}} + \frac{1}{f_{c2} - f} - \frac{4}{f_{c2} - f_{c1}} \right]$$

Calculation of standard channels shows that the average values of f_{c1} and f_{c2} are 50 and 3800 cps respectively. The main factors effecting the changes in these characteristics are determined. A standard time characteristic of delay in a channel is recommended, as well as permissible norms for deviation of actural characteristics from the standard curve. Orig. art. has: 4 figures and 9 formulas. [JPRS]

SUB CODE: 17 / SUBM DATE: 06Oct65 / ORIG REF: 005 / OTH REF: 001

UDC: 621.395.51

Card 1/1 BK

6915 1644

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

LIAKUMOVICH, A.G.; PONOMARENKO, V.I.; FOMINA, A.S.

Effect of the standard specifications of the PN-6 oil on the plastic-elastic properties of the CKMS-30ARM-15 rubber. Kauch. i rez. 22 no.5:47-48 My '63. (MIRA 16:7)

1. Sterlitamakskiy zavod sinteticheskogo kauchuka.
(Rubber, Synthetic--Testing)
(Mineral oils--Standards)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

POMOMARENKO, V.I.; SAYFULLIN, R.Z.; SMIRNOV, V.V.

Floating chain level indicator. Priborostroenie no.10:22-23 O '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

BOLGOV, [illegible] kand. tekhn. nauk; [illegible], V.I., inst.

The problem of reduction in the [illegible] transmission [illegible] composing torsional schemes of the klaying machines. Trakt. [illegible] Sel'khozmash. no.12:13-14 D '64 (MIRA 18:2)

1. Altayskiy [illegible] institut.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

L 64743-65 EWT(1)/T/EWA(h) IJP(c) AT

ACCESSION NR: AP5015437 UR/0185/65/010/006/0615/0621

AUTHOR: Ponomarenko, V. I. 44,55

TITLE: Dependence of two-photon absorption in semiconductors on the impurity-center concentration

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 6, 1965, 615-621

TOPIC TAGS: photon, light absorption, energy band structure, impurity center, crystal impurity

ABSTRACT: The dependence of the two-photon absorption on the impurity-center concentration is investigated using expressions re- [illegible] to the band structure of the solid.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

discrete levels in the [illegible]

Card 1/2

L 64743-65

ACCESSION NR: AP5015437

acceptor impurity centers are differentiated and expressions are obtained for the absorption at low and sufficiently high temperatures. The absorption either increases quadratically with concentration or possibly reaches a minimum, differing for donor and acceptor impurities. "The author thanks M. P. Lysytsa for proposing the problem [illegible] discussion of the results, and S. I. Peker for a useful

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

discussion." Orig. art. has: 31 formulas and 2 figures.

ASSOCIATION: Instytut napivprovodnykiv AN URSR [Institut poluprovodnikov AN UkrSSR] [Institute of Semiconductors, AN UkrSSR]

SUBMITTED: 28Jul64 ENCL: 00 SUB CODE: SS, OP

NR REF SOV: 000 OTHER: 003

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.I.

Dependence of two-photon absorption in semiconductors on the concentration of impurity centers. Ukr. fiz. zhur. 10 no.6:615-621 Je '65. (MIRA 18:7)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

KRISANOV, A.F.; GONCHAROV, G.K.; NEVEINYAGA, V.T.; PONOMARENKO, V.I.

Equipment for use with coupling screw-thread cutting machines.
Metallurg 10 no.7:39 Jl '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

S/081/61/000/021/071/094
B138/B101

AUTHORS: Mayorov, V. I., Ponomarenko, V. I., Savel'yev, A. P.

TITLE: Homogeneous pyrolysis of hydrocarbons

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 402, abstract 21M86 (Vest. tekhn. i ekon. inform. N.-i. in-t. tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii, no. 10, 1960, 18 - 20)

TEXT: The article reports the results obtained in working up the process of homogeneous pyrolysis, i. e., the thermal decomposition of saturated hydrocarbons, using a gaseous heat carrier, on a pilot plant with a capacity of 60 kg/hr. The first series of trials was carried out with a mixed gaseous starting material and with low temperatures for the contact gas in the reaction zone (725°C). The C_3H_6 yield was 22 to 27.8% of the weight of the starting material. When the temperature was raised to 825°C the C_3H_6 yield diminished but the C_2H_4 yield increased from 8.1 to 18%. Another series of trials was carried out with the burner working on

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

O_2-enriched air blast with a temperature of about 928°C in the reaction zone. The C_2H_4 yield was 23.1 % by weight. A diagram of the plant is given. [Abstracter's note: Complete translation.]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

L 01060-67 EWT(1)/T IJP(c) AT/GD

ACC NR: AT6015130 SOURCE CODE: UR/0000/66/000/000/0013/0033

60
B+1

AUTHOR: Ponomarenko, V. I.

ORG: Institute of Semiconductors, AN UkrSSR (Institut poluprovodnikov AN UkrSSR)

TITLE: Theory of nonlinear optical phenomena in extrinsic semiconductors

21

SOURCE: Respublikanskiy seminar po kvantovoy elektronike. Kvantovaya elektronika (Quantum electronics); trudy seminara. Kiev, Naukova dumka, 1966, 13-33

TOPIC TAGS: semiconductor laser, laser theory, semiconductor theory

ABSTRACT: The two-photon absorption and the second-harmonic generation in extrinsic n- and p-type semiconductors are theoretically considered. States of electrons are described within the framework of the band theory of solid body; the interaction between radiation and solid-body electrons is examined (R. Braunstein, Phys. Rev., 1961, 125, 475; R. Loudon, Proc. Phys. Soc., 1962, 80, 952). This Hamiltonian is used for studying the above interaction in crystals:

$H_{ns} = -\frac{e}{mc}\mathbf{A}\mathbf{p} = -\frac{e}{m}\sum_{k}\sqrt{\frac{2\pi\hbar}{\varkappa_k V\omega_k}}\,[a_k e^{ikr} + \overset{+}{a}_k e^{-ikr}]\,\mathbf{e}_k\mathbf{p}$, where p is the electron-impulse

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

L 01060-67

ACC NR: AT6015130

operator. It is found that the absorption factor of w_1 photons is proportional to the intensity of the second beam of w_2-frequency photons. Maximum 2-photon absorption is possible when one of the frequencies is low and the other is close to the frequency that corresponds to the fringe of self-absorption; the effect of 2-photon absorption is stronger in those crystals in which the virtual band lies close to the conduction band. The effect of impurities on the 2-photon absorption (donor and acceptor centers, high and low temperatures, concentration of impurities) is investigated. Generation of the second harmonic is first considered in intrinsic semiconductors (here, the band-structure effect is explored) and then the effect of impurities is evaluated. Orig. art. has: 11 figures and 86 formulas.

SUB CODE: 20 / SUBM DATE: 12Feb66 / ORIG REF: 000 / OTH REF: 006

awm

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

ATAMALYAN, E.G.; KONSTANTINOV, V.I.; KOMAROV, V.I.; LAPSHIN, N.S.; SIMONOV, A.F.; TOVSTOLES, V.Ya.; EMDINA, S.M.; PONOMARENKO, V.K., prof., red.; KHRUSTALEVA, N.I., red.; GOROKHOVA, S.S., tekhn. red.

[Methodology for solving general electrical engineering problems]Metodika resheniia zadach po obshchei elektrotekhnike. [By] E.G.Atamalian i dr. Pod red. V.K.Ponomarenko. Moskva, Vysshaia shkola, 1962. 167 p. (MIRA 15:12)
(Electric engineering)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

8 (2) SOV/105-59-6-11/28

AUTHOR: Ponomarenko, V. K., Doctor of Technical Sciences, Professor (Moscow)

TITLE: Calculation of the Making and Restraining Torques of an Induction-type Relay (Raschet vrashchayushchego i tormoznogo momentov induktsionnogo rele)

PERIODICAL: Elektrichestvo, 1959, Nr 6, pp 48-54 (USSR)

ABSTRACT: By this calculation a better understanding of processes in the relay is achieved and ways are shown for improving its design. In contradistinction to the paper cited by reference 1 it is stated that the currents are limited not only by the height of the rotor, but that they are also limited around the rotor perimeter and that they are dependent upon the position of the poles. The current distribution in the rotor is investigated first. Formulas (3) for the electric potential φ, (4) and (5) for the current density components δ_x and δ_y and formula (7), which is the condition for the generation of current tubes in the cylinder, are derived. The making and restraining torques for one pole pair are given by formulas (8) and (13), respectively. The exact method is compared with

Card 1/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

Calculation of the Making and Restraining Torques of an Induction-type Relay SOV/105-59-6-11/28

the approximation method by the example of the induction relay with a cylindrical rotor of the series IMB-171. The results are about equal. Hence the formulas given herein can be used in the production and the analytical investigation of relays and devices with a cylindrical rotor. In order to obtain approximative values, the approximation methods from references 2 and 3 can be used. In determining the dependence of the making torque upon the features of the design it is sufficient to use formulas which reproduce the physical processes in the relay. The formulas deduced herein meet this requirement. The investigation showed that under constant induction the magnetic flux, the emf and the currents in the rotor are proportional to the pole width. The wider the pole, the greater is the number of current tubes in the rotor underneath the pole. The investigation showed further, that under an induction and a magnetic flux of the pole assumed constant, the making torque remains practically constant, if the pole width is reduced by a factor of 0.8 b and the pole height is increased correspondingly. The rotor height determines the rotor resistance and the magnitude of currents induced

Card 2/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

Calculation of the Making and Restraining Torques of an Induction-type Relay SOV/105-59-6-11/28

therein. A variation of pole height results in a changed current distribution and hence in a changed interaction between current and gap induction. From the diagram (Fig 8) it can be seen that if the pole height exceeds 4.7 cm the making torque remains almost unchanged. The investigations carried out are based upon the assumption, that the poles are distributed symmetrically about the cylinder. In reality this is not always the case. An unsymmetry visible to the naked eye of 2-3 mm has only little influence upon the making torque. There are 9 figures and 3 Soviet references.

SUBMITTED: January 23, 1959

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V. K.

PONOMARENKO, V. K., Docent.

"Calculation of the Form of Poles for Dynamometric, Induction and Electromagnetic Relays". Vol 6, No. 2,

Avtomatika i Telekhanika No. 2, 3, 4, 5 (1941).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V. K.

23197 Odnoelementnoye trekhfaznoye rele napravleniya energii. Elektrichestvo, 1949, No. 7, c. 25-29.

SO: LETOPIS' NO. 31, 1949.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.K.

Axial vibration forces of induction devices with cylindrical rotors. Izv.vys.ucheb.zav.; prib. 4 no.2:20-26 '61. (MIRA 14:5)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut. Rekomendovana kafedroy obshchey elektrotekhniki.
(Electric motors, Induction--Vibration)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

B 64
R

54

3644. Single-element 3-phase directional power relay. PONOMARENKO, V. K. *Elektrichestvo* (No. 7) 25-9 (July, 1949) *In Russian*.—This relay is claimed to be a substantial improvement over other known designs. The torque of the multi-pole drum relay is investigated, indicating that the 8-pole 3-ph. relay is the best solution. B. F. K.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

LIAKUMOVICH, A.G.; PONOMARENKO, V.I.

Use of a mixing nozzle for the separation of unpolymerized butadiene from butadiene-styrene latex. Kauch. i rez. 24 no.4:43-44 Ap '65. (MIRA 18:5)

1. Sterlitamakskiy zavod sinteticheskogo kauchuka.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.M.

Large-flowered lilac in mountains of the southern Sikhote-Alin' and possibilities for its culture. Biul. Glav. bot. sada no.41: 108-110 '61. (MIRA 14:11)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.
(Sikhote-Alin' Range--Lilacs)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.M.

Timber line on Oblachnaya Mountain in the southern Sikhote-Alin. Soob.DVFAN SSSR no.13:73-77 '60. (MIRA 14:3)

1. Dal'nevostochnyy filial im. V.L.Komarova Sibirskogo otdeleniya AN SSSR.
(Oblachnaya Mountain--Timber line)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.M.

Reproduction of Korean spruce in the upper Ulukhe River basin. Soob.DVFAN SSSR no.13:103-105 '60. (MIRA 14:3)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.
(Ulukhe Valley—Spruce)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.M.

Echinopanax elatum Nakai as a valuable alpine plant of the southern Sikhote-Alin'. Mat. k izuch. zhen'shenia i lim. no.4:225-228 '60. (MIRA 13:9)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.
(SIKHOTE-ALIN' RANGE—ECHINOPANAX)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V. N.

USSR , Zooparasitology - Parasitic worms G

Abs Jour: Ref Zhur - Biol., No 7, 1958, 29123

Author : Ponomarenko, V.N.
Inst : Not given
Title : Possible Larval Development in Female Ascarides. (O vozmozhnosti razvitiya lichinok v tele samki askaridy).

Orig Pub: Sb. nauchn. rabot. Dnepropetr. med. in-t, 1956, 1, 63-64

Abstract: Holding of mature female ascarides containing eggs for 3 months in an anaerobic environment does not result in destruction of the embryo. Subsequent transfer of the ascaride

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

NIZOVTSEV, G.P.; PONOMARENKO, V.P.; SHASHLOVA, R.A.

New data on the representatives of the genus Liparis in the Barents Sea. Zool. zhur. 42 no.9:1415-1418 '63. (MIRA 16:12)

1. Polar Research and Designing Institute of Marine Fishery Management and Oceanography, Murmansk.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.P.

The Crucian carp of Lake Velikoye. Trudy OGZ no.5:87-93 '63.
(MIRA 17:10)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

3(9) SOV/26-59-2-17/53

AUTHOR: Ponomarenko, V.P.

TITLE: Rare Deep-Water Fish of the North Atlantic (Redkiye glubokovodnyye ryby Severnoy Atlantiki)

PERIODICAL: Priroda, 1959, 48- Nr 2, pp 83-85 (USSR)

ABSTRACT: Different species of rare deep-water fish belonging to the Ceratiidae and Linophrinidae species are described in this article. A female fish Ceratias holbölli Kröyer of the Ceratiidae species and another, Linophryne coronata Parr of the Linophrinidae species, were caught in the North Atlantic by Soviet ships during the fishing season in 1957. There are 2 drawings.

ASSOCIATION: Polyarnyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii im. N.M. Knipovicha (Polar Scientific Research Institute of the Maritime Fishing Industry and Oceanography imeni N. M. Knipovich), Murmansk.

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

KONSTANTINOV, K.G.; PONOMARENKO, V.P.

Long lasting group migrations of the codfish of the Barents Sea according to tagging data. Trudy MRBI no.2:207-210 '60. (MIRA 14:2)

(Barents Sea—Codfish) (Fishes—Migration)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.P.

Warm-water fish in northern seas. Priroda 49 no. 12:110 D '60. (MIRA 13:12)

1. Polyarnyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii, Murmansk.
(Bream)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.P.

Raja lintea Fries in the boundary region between the Norwegian and Barents Seas. Zool. zhur. 40 no.8:1260-1261 Ag '61. (MIRA 14:8)

1. Polar Research and Designing Institute of Marine Fishery Management and Oceanography (Murmansk).
(Norwegian Sea--Rays (Fishes)) (Barents Sea--Rays (Fishes))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

BARANENKOVA, A.S.; PONOMARENKO, V.P.; SEREBRYAKOV, V.P.

The skate Raja spinicauda Jensen in the Barents Sea. Vop. ikht. 2 no.1:18-24 '62. (MIRA 15:3)

1. Polyarnyy nauchno-issledovatel'skiy i proyektnyy institut morskogo rybnogo khozyaystva i okeanografii (PINRO), Murmansk.
(BARENTS SEA--SKATES (FISHES))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.P.

Gonad development and spawning time of the Arctic cod in the Barents Sea. Dokl. AN SSSR 161 no.3:697-700 Mr '65.
(MIRA 18:4)

1. Polyarnyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii, Murmansk. Submitted June 20, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

NORKIN, Yakov Abramovich, inzh.; VOZHDAYEV, Ivan Nikolayevich, inzh.; PODOL'SKIY, Viktor Il'ich, inzh.; PONOMARENKO, Vasiliy Timofeyevich, inzh.; PRONOV, Konstantin Konstantinovich, inzh.; REMPEL', Aron Iosifovich, inzh.; UGLINSKIY, Anatoliy Yakovlevich, inzh.; KHITROVA, N.A., tekhn. red.

[Repair of diesel locomotives]Remont teplovozov. [By] IA.A.Norkin i dr. Moskva, Transzheldorizdat, 1962. 300 p. (MIRA 15:12)
(Diesel locomotives—Maintenance and repair)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

S/114/60/000/002/007/007
E194/E155

AUTHORS: Sazonov, Yu.N., Engineer, and Ponomarenko, V.V., Engineer

TITLE: Removing Discs from a Turbine Rotor Shaft by Means of Induction Heating

PERIODICAL: Energomashinostroyeniye, 1960, No. 2, pp. 41-42

TEXT: During the process of assembly and testing of a turbine type BKT-100 (VKT-100) it was necessary to remove the discs of the fourth stage from the turbine rotor shaft. Unsuccessful attempts were made to heat the discs with an oxy-acetylene flame. Engineer N.I. Nekhayev then proposed to apply induction-heating equipment used for welding rotors. From a crane the rotor was suepended over blocks leaving a vertical gap of 10 mm so that the rotor would remain clear despite expansion. An inductor coil was made up of water-cooled copper tube; the heat insulation adopted is described. The coil was fed from a single-phase transformer with a ratio of 15:1, the primary being made of bare copper tube and the secondary of

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V.

Influence of the sexual reflexes (egg laying and clucking) on the normal course of conditioned reflexes in hens. Nauch. soob. Inst. fiziol. AN SSSR no.1:67-69 '59. (MIRA 14:10)

1. Laboratoriya fiziologii nizshikh zhivotnykh (zav. - M.Ye.Lobashev) Instituta fiziologii imeni Pavlova AN SSSR.
(CONDITIONED RESPONSE) (POULTRY RESEARCH)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V.

7

Colorimetric determination of small amounts of *p*-nitroaniline in the air. V. V. Ponomarenko. *Zavodskaya Lab.* 9, No. 1, 111(1940).—Take an air sample by drawing a 6-fold vol. of air through a dry 10-20-l. bottle, add to the bottle 60 ml. of 1% H_2SO_4 and let the sample stand for several hrs. with frequent mixing. Cool the soln. with ice, add 1-3 drops of 10% $NaNO_2$ soln., shake, let stand on ice for 15 min. and add with const. mixing 6 ml. of a freshly prepd. mixt. consisting of 10% soda soln. and alc. β-naphthol soln. (2 ml. of soda soln. + 1 drop of β-naphthol soln.). After the appearance of color bring the vol. of the soln. to 50 ml. and compare the color, after 15-20 min., with a series of standards contg. 0.015, 0.02, 0.03, 0.04 and 0.05 ml. of *p*-nitroaniline.

W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V.; SMIRNOVA, G.P.

Effect of increased excitation of the unconditioned food center in early ontogeny on the characteristics of nervous processes in adult animals. Zhur. vys. nerv. deiat. 14 no.3:537-543 My-Je '64. (MIRA 17:11)

1. Pavlov Institute of Physiology, U.S.S.R. Academy of Sciences, Leningrad.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

DZHAMUSOVA, T.A.; PONOMARENKO, V.V.

Contraction waves of the retractor in Priapulus caudatus. Vest.LGU 14 no.15:127-133 '59. (MIRA 14:4)
(Geophyrea) (Muscle)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

LOBASHEV, M.Ye.; SAVVATEYEV, V.B. [deceased]; KASIMOV, R.Yu.; PONOMARENKO, V.V.

Studying certain aspects of animal hypnosis. Fiziol. zhur. SSSR 46 no. 9:1083-1089 S '60. (MIRA 13:10)

1. From the Laboratory of Inferior Animals Physiology, Pavlov Institute of Physiology, Leningrad.
(HYPNOTISM)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V.

A study of certain aspects of higher nervous activity in chicks of different breeds. Dokl. AN SSSR 118 no.3:614-617 Ja '58. (MIRA 11:4)

1. Institut fiziologii im. I.P. Pavlova Akademii nauk SSSR. Predstavleno akademikom K.M. Bykovym.
(POULTRY) (NERVOUS SYSTEM--BIRDS)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V. V.

20-3-57/59

AUTHOR: Ponomarenko, V. V.,

TITLE: A Study of the Pecularities of Higher Nervous Activity in Hens of Different Breeds (Izucheniye osobennostey vysshey nervnoy deyatel'nosti u kur razlichnykh porod)

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 3, pp. 614-617 (USSR)

ABSTRACT: Some articles demonstrated the connection between the typological qualities of this activity and the manifestation of the vegetative functions of the organism, as there are: secretion character of the gastric juice (reference 2), pecularities of the respiration cycle (reference 3), course of metabolism-reactions (references 4-6) and others. The course and the character of the unconditional reactions are connected with certain pecularities of the conditional reflex activity. There has been only little investigation of the nature and the character of the connection, especially of the part that the unconditional reflexes play here. In thisconnection a comparative study of the conditional reflex activity in different breeds of the same species of animals is of interest (reference 7). The many differently specialized chicken breeds, as there are: fighting cocks, good layers, meat hens, and egg and meat breeds are distinctly different as to se-

Card 1/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

A Study of the Pecularities of Higher Nervous Activity in Hens of Different Breeds 2o-3-57/59

veral unconditional reflexes like: sexual instinct, hatching instinct, metabolism, and total constitution. In the present paper three breeds were used: Russkaya belaya (Russian White) as a good layer, Plimutrok (Plymouth Rock) as a good egg and meat breed, and Avstralorp (Australorp) similar to the last but with a tendency to the meat type. Type 1 shows some circumstances which characterize the unconditional reflex activity of the test animals. The tests mentioned in the title were conducted according to the methodology of motor conditional alimentary reflexes (reference 8). Positive stimulus (red light) was succeeded by negative stimulus (green light) with an interval of two minutes four times per test. All tests of the single qualities of the nervous processes were only made after a rebuilding of the signal meaning of the stimulations with the background (fon) of normal conditional reflex activity. The statements on the characteristic properties of higher nervous activity of the test hens are given in talbe 2. The statistically treated results show that the Avstralorp (Australorp) hens are characterized by a weaker excitation process compared to the other two breeds. The intensity of the inhibitory process was highest with Russkaya

Card 2/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

A Study of the Pecularities of Higher Nervous Activity in Hens 20-3-57/59
of Different Breeds

belaya and lowest with Plimutrok. Due to the weak inhibitory process with this last breed the nervous processes are less balanced than with the other two. The mobility of the nervous processes which is determined by the character and the velocity of the rebuilding of the signal meaning of the associated stimulus couple was lowest with Avstralorp. In this case the author did not find statistical work necessary, as there was no rebuilding at all with the other hens. From the mentioned results a conclusion may be drawn as to the differences of the nervous processes in the chicken breeds tested here. A comparison of the data of table 1 and 2 makes it possible to confront some characteristic properties of the unconditional and the conditional reflex activity of the test hens. Most intensively the duration of the hypnotic state is directly connected with the peculiarities of the higher nervous activity in hens. It was proved that this duration is connected with the intensity of the excitation process: the Avstralorp hens, as to the intensity of this process the weakest, showed the longest duration of the hypnosis. This applies to other breeds, too. The differences in the motion activity of different chicken breeds did not show any direct connections with the pecularities of the conditional reflex activity.

Card 3/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

A Study of the Peculiarities of Higher Nervous Activity in Hens of Different Breeds 2o-3-57/59

In spite of this within separate groups of breed a relatively shoter duration of the daily motion activity could be demonstrated in animals with a weaker excitation process. The connection between the differences in the laying capacity and in the quantity of consumed food and the conditional reflex activity seems to be more complicated. There are 2 tables, and 1o Slavic references.

ASSOCIATION: Institute for Physiology imeni I.P. Pavlov AN USSR (Institut fiziologii im. I.P. Pavlova Akademii nauk SSSR)

PRESENTED: July 2o, 1957, by K.M. Bykov, Academician

SUBMITTED: July 12, 1957

AVAILABLE: Library of Congress

Card 4/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V.

Studying individual and breed characteristics of higher nervous activity in chickens. Trudy Inst.fiziol. 8:179-185 '59. (MIRA 13:5)

1. Laboratoriya fiziologii nizshikh zhivotnykh (zaveduyushchiy - M.Ye. Lobashev) Instituta fiziologii im. I.P. Pavlova AN SSSR.
(CONDITIONED RESPONSE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V.; MARSHIN, V.G.; LOBASHEV, M.Ye.

Study of the inheritance of properties of the higher nervous activity in intervarietal and interspecific reciprocal crosses. Issl. po gen. no.2:8-20 '64. (MIRA 18:4)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

ALEKSEYEVICH, [illegible]; PONOMARENKO, V.V.; SMIRNOVA, G.P.

Comparative genetic study of the characteristics of the higher nervous activity in chickens in crossbreeding. Report No.2: Study of the characteristics of nervous processes in reciprocal crossbreeding of the species Australorps and Plymouth Rocks. Nauch.soob. Inst.fiziol. AN SSSR no.3:8-11 '65.

(MIRA 18:5)

1. Gruppa fiziologii nizshikh zhivotnykh. (Zav. - N.G.Lopatina) Instituta fiziologii imeni Pavlova AN SSSR.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V.

Study of the daily motor activity relating to the breed and individual characteristic properties of the higher nervous activity in chickens. Nauch.soob. Inst.fiziol. AN SSSR no.3: 126-130 '65. (MIRA 18:5)

1. Gruppa fiziologii nizshikh zhivotnykh (zav. - N.G.Lopatina) Instituta fiziologii imeni Pavlova AN SSSR.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V. V.

USSR/Medicine - Physiology PONOMARENKO, V. V. FD 247

Card 1/1

Author : Dzhamusova, T. A. and Ponomarenko, V. V.

Title : Relationship between excitability and rhythmic activity during parabiosis of striated musculature

Periodical : Fiziol.zhur. 2, 198-207, Mar/Apr 1954

Abstract : The effect of sodium citrate, Na_2SO_4, HCl, KCl, NaCl, galactose, and glycerine in various concentrations on the electrical excitability and rhythmic activity of the gastrocnemius muscle of frog was investigated. There is a parallelism in the increase of excitability and the appearance of rhythmic activity in solutions of sodium citrate, Na_2SO_4, HCl, KCl, and NaCl. Galactose does not change the excitability and does not produce rhythmic activity; glycerine, however, increases the excitability in concentrations from 5 to 10% without producing rhythmic activity. The most prolonged period of rhythmic activity occurs in concentration of 0.15 to 0.2% KCl, 1-2% Na_2SO, and 0.007 to 0.008-N HCl. Two graphs, three charts, and three tables. Nineteen references, 13 Soviet.

Institution : Laboratory of Histophysiology, Physiological Institute imeni A. A. Ukhtomskiy, Leningrad State University; and Laboratory of General and Cellular Physiology, Zoological Institute, Academy of Sciences USSR.

Submitted : February 23, 1953

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, V.V., Cand Biol Sci -- (diss) "Study of the properties of higher nervous activity in ~~hens~~ chickens of various breeds." Len, 1958, 23 p (Acad Sci USSR. Inst of Physiology im I.P. Pavlov. Laboratory of Physiology of ~~Inferior~~ lower Animals) 100 copies (KL, 27-58, 106)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

ACC NR: AT6034486 SOURCE CODE: UR/0000/66/000/000/0098/0105

AUTHOR: Gontkevich, V. S., (Khar'kov); Ponomarenko, V.V. (Khar'kov)

ORG: none

TITLE: Free oscillations of cylindrical shells in a hypersonic gas flow

SOURCE: Khar'kov. Politekhnicheskiy institut. Dinamika i prochnost' mashin (Dynamics and strength of machines), no.3, Kharkov, Izd-vo Khar'kovskogo univ., 1966, 98-105

TOPIC TAGS: cylindrical shell structure, hypersonic flow, gas flow, free oscillations, shell flutter, aircraft skin, rocket skin, shell vibration, computer calculation, aircraft fuselage

ABSTRACT: An analysis is presented of axisymmetric and nonaxisymmetric flutter of cylindrical shells in a hypersonic gas flow. The thin-shell and piston theories were used in the analysis. Numerical calculation were preformed on a "Ural-2" electronic computer for clamped, freely-supported, and cantilever shells. This investigation was prompted by the failure of aircraft and rocket skin during flights at supersonic speeds. Orig. art. has: 3 figures, 3 tables, and 16 formulas. [WA-76, 88]

SUB CODE: 20/ SUBM DATE: 01Jun66/ ORIG REF: 008

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

CHUMACHENKO, L.R., inzh.; PONOMARENKO, V.Ye., inzh.; VLASOV, P.V., inzh.

Unit for lead coating straight pipes. Khim. i neft. mashinostr. no.1:36-37 Ja '65. (MIRA 18:3)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, YA.

SMIRNOV, B., geroy Sovetskogo Soyuza; PROTCHEV, V., geroy Sovetskogo Soyuza; ZAMYCHKIN, S., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; SEMEL'NIKOVA, A., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; KOMAROV, A., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; PONOMARENKO, Ya., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; KHLOPTSEV, I., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; SOKOLOVSKIY, A., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; POSTNIKOVA, Z., geroy Sovetskogo Soyuza, sportsmen 1-go razriada.

Make a sport model jet airplane; letter to the editor. Kryl.rod. 6 no.1:8 Ja '55. (MLRA 8:3)
(Jet planes)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, Ya.D.

High yields of clary sage. Zemledelie 4 no.10:117-118 O '56.
(MLRA 9:11)

1. Glavnyy agronom Ryshkanskogo efiromaslichnogo sovkhoza "Trandafir".
(Sage)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

FRUMKIN, A.N., akademik; PONOMARENKO, Ye.A.; BURSHTEYN, R.Kh.

Chemisorption of oxygen and adsorption of electrolytes on activated carbon. Dokl. AN SSSR 149 no.5:1123-1126 Ap '63. (MIRA 16:5)

1. Institut elektrokhimii AN SSSR.
(Oxygen) (Electrolytes) (Adsorption)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

BURSHTEIN, R. Kh.; PONOMARENKO, Ye. A.

Mechanism of electrolyte adsorption on coal. Zhur. fiz. khim. 39 no. 1:255-257 Ja '65 (MIRA 19:1)

1. Institut elektrokhimii AN SSSR. Submitted November 10, 1963.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, Ye.P.

Heterogeneity of a Br.AZh9-4 heat-affected zone near the joining of bimetal bearings. Lit. proizv. no.10:33-34 O '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

POPOV, V.S., kand.tekhn.nauk; LYASHCHINSKIY, B.I., inzh.; PONOMARENKO, Ye. P., inzh.

Heavy-duty steel-bronze parts. Mashinostroenie no.4:107-110 Jl-Ag '63. (MIRA 17:2)

1. Zaporozhskiy mashinostroitel'nyy institut im. V.Ya.Chubarya.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

POPOV, V.S., kand. tekhn. nauk; PONOMARENKO, Ye.P., inzh.; LYASHCHINSKIY, B.I., inzh.; DROZDOV, N.G., inzh.; NEMZER, V.I., inzh.; VOKSHIN, I.I., inzh.

Selecting material for spindle-joint bushings of rolling mills. Vest. mashinostr. 43 no.12:29-31 D '63. (MIRA 17:8)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, Ye.P., inzh.

Strength of the bond area of the steel-bronze bimetal.
Mashinostroenie no.2:63-65 Mr-Ap '65. (MIRA 18:6)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, Ye.P.; LYASHCHINSKIY, B.I.; NEMZER, V.I.; VOKSHIN, I.I.

Bimetal bearings for rolling mill spindles. Lit. proizv. no.1:33-34 Ja '63. (MIRA 16:3)
(Rolling mills) (Bearing metals)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, Yevg.

Again perpetuum mobile. Izobr.i rats. no.2:51-52 F '61.
(MIRA 14:2)

(Perpetual motion)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, Yevg.

Perpetuum mobile. Izobr.i rats. no.4:50-53 Ap '60. (MIRA 13:6)
(Perpetual motion)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

~~65983~~ 69583

SOV/112-59-22-45363

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 22, p 10 (USSR)

2407700 159210 159220

AUTHOR: Ponomarenko, Ye.D.

TITLE: The Influence of the Moisture Sorption on Moisture and Electric Properties of Plastics With Fillers

PERIODICAL: Nauchno-tekhn. inform. buyl. Leningr. politekhn. in-t, 1958, Nr 7, pp 31 - 40

ABSTRACT: Studied was the water-absorption and changes in electric characteristics connected with it, of samples of specially prepared plastics in which polystyrene and polyurethan were used as binders and wood and quartz powder, talc, $CuSO_4$, $MgSO_4$, and $CaSO_4$ as fillers. The weight of the filler was 10, 30 and 50% of the weight of the binder. Each composition contained only one filler. The moisture sorption of plastics with fillers is determined by the nature not only of the binder, but of the filler also, as well as by the content of the filler in a plastic. The influence of temperature on the moisture properties of plastics with fillers causes an increase in the rate of the moisture sorption, but does not influence the amount of the sorbed moisture. An increase in temperature causes a decrease

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

69583

SOV/112-59-22-45363

The Influence of the Moisture Sorption on Moisture and Electric Properties of Plastics With Fillers

in the solubility coefficient and an increase in the diffusion coefficient. The increase in the diffusion coefficient takes a more intensive course, in connection with which the moisture permeability constant increases with an increase in temperature (see Ref. 45362). The moisture permeability coefficient of plastics increases with the introduction of fillers, and the stronger, the higher is the polarity of the binder, but by not more than by one order of magnitude. The water-absorption of plastics with fillers is determined by the activated, capillary and osmotic diffusion, depending on the nature and the relative humidity of the surroundings. The moisture absorption by plastics with fillers causes an increase in $tg\delta$ and decrease in ρ_v and $E_{пр}$; the change of these characteristics is determined by the nature and amount of the filler. The study has shown the usefulness of the introduction of fillers into high molecular substances. When choosing a filler, its moisture properties must be taken into account as, if its sorption capacity is known, the course of the change in the behavior of the electric characteristics at moistening of plastics can be foreseen. To secure good electric properties of plastics, the sorption capacity of the filler must be lower or not higher than that of the binder.

A.O.M.

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

YEVGEN'YEV, I.; PONOMARENKO, Yevg.

It is courageous to abandon an idea. Izobr. i rats. no.6:36-38 Je '61. (MIRA 14:6)

(Inventions)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

PONOMARENKO, Ye.A.; FRUMKIN, A.N.; BURSHTEYN, R.Kh.

Dependence of carbon electrode potential on the pH of a solution under isoelectric conditions. Izv. AN SSSR. Ser.khim. no.9: 1549-1555 S '63. (MIRA 16:9)

1. Institut elektrokhimii AN SSSR.
(Electrodes, Carbon) (Electromotive force)
(Hydrogen-ion concentration)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0

RENNE, V.T., doktor tekhn.nauk, prof.; PONOMARENKO, Ye.D., inzh.

Effect of polarity on the control of damp insulation. Izv. vys. ucheb. zav.; energ. 6 no.12:113-117 D '63. (MIRA 17:1)

1. Leningradskiy politekhnicheskiy institut. Predstavelna kafedroy elektroizolyatsionnoy i kabel'noy tekhniki.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342110018-0"