"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 10207-63
ACCESSION NR: AP3000053

3

greatly indebted to A. V. Gaponov and V. P. Dokuchayev for discussing the results." Orig. art. has: 8 formulas.

ASSOCIATION: Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta (Radiophysics Institute, Gor'kiy State University)

SUBMITTED: 22Nov62 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: PH NR REF SOV: 005 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, L.A.; STEPANOV, N.S.

Parametric generation of electromagnetic waves in a magnetoactive plasma. Zhur. eksp. i teor. fiz. 45 no.5:1473-1478 N '63. (MIRA 17:1)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

ACCESSION NR: AP4025929 S/0056/64/046/003/0963/0969

AUTHORS: Ostrovskiy, L. A.; Yakubovich, Ye. I.

TITLE: Averaged laser equations and their stationary solutions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 963-969

TOPIC TAGS: laser, laser nonlinear equations, laser rigorous nonlinear equations, laser averaged equations, two level laser, stationary nonlinear laser oscillations, oscillation frequency spectrum, field spatial distribution, nonlinear laser modes, periodically varying oscillation amplitude

ABSTRACT: The difficulties involved in solving the rigorous nonlinear laser equations are listed, and it is shown that some of the solutions obtained are incorrect. Some laser theory aspects connected with the influence of the nonlinear medium on the field struc-

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

ACCESSION NR: AP4025929

ture are considered, and it is shown that the initial equations can be averaged under some general assumptions and reduced to a lower order system for slow time-varying quantities. In particular, averaged equations are derived for the electromagnetic field in a two-level active medium without expansion in the eigenfunctions of the unperturbed system, and are solved for stationary nonlinear oscillations in a plane layer with arbitrarily reflecting boundaries, which can be regarded as a one-dimensional laser model. The frequency spectrum of such oscillations and the corresponding spatial distributions of the field phase and amplitude are obtained. The components obtained determine the finite number of possible nonlinear oscillations (modes) whose frequencies differ from the natural frequencies of the unperturbed system, and whose amplitudes and phases depend on the coordinates. It is emphasized that the superposition of these modes is not the solution of the problem and that the question of existence of other stationary processes (such as oscillations with periodically varying amplitudes) still remains open. Orig. art. has: 2 figures and 19 formulas.

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ACCESSION NR: AP4025929

ASSOCIATION: Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta (Radiophysics Institute of the Gor'kiy State University)

SUBMITTED: 09Aug63 DATE ACQ: 16Apr64 ENCL: 00

SUB CODE: PH NO REF SOV: 008 OTHER: 001

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 60989-65 EEO-2/EEC-4/EED-2/EEC(k)-2/EWA(h)/EWT(d)/EWT(1)/EEC(m)/EWT(1) Pe-5(c)
BC

AM5017153 BOOK EXPLOITATION UR/ 621.317.01.077

Ostrovskiy, Lev Aleksandrovich

Principles of the general theory of electric measuring instruments (Osnovy obshchey teorii elektroizmeritel'nykh ustroystv) Moscow, Izd-vo "Energiya", 1965. 530 p. illus., biblio., index. 9500 copies printed.

TOPIC TAGS: electric measuring instrument, transducer, energy conversion, electromechanical transducer, oscillatory circuit, frequency response, error correction, servo measuring system, servosystem, digital measuring circuit, astatic serosystem, servosystem

PURPOSE AND COVERAGE: This book is intended for technicians and engineers concerned with the development of methods of electrical measuring and with the computation and design of all types of electrical measuring equipment. It can also be used as a textbook

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electrical engineering: general theory of measuring converters, problems pertaining to their

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matching, and their frequency and transient characteristics. The structural forms of the basic types of various measuring circuits, their special features, specific errors, and some common correction methods are discussed. The basic types of modulation and demodulation in open measuring circuits, as well as the properties of closed astatic and static measuring servosystems, are investigated.

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Bibliography -- 524

SUB CODE: EC SUBMITTED: 01Feb65 NO REF SOV: 091

OTHER: 001

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 48092-65 EWA(k)/FBD/EWG(r)/EWT(1)/EEC(k)-2/EEC(t)/I/EEC(b)-2/EWP(k)/EWA(m)-2/EWA(1)
Pm-4/Pn-4/Po-4/Pi-4/Peb/Pi-4/Pl-4 SCTB/IJP(c) wG

ACCESSION NR: AP5010681 UR/0141/65/008/001/0091/0097

AUTHOR: Ostrovskiy, L. A.; Yakubovich, Ye. I.

TITLE: Steady-state oscillation of a laser with distributed losses

SOURCE: IVUZ. Radiofizika, v. 8, no. 1, 1965, 91-97

TOPIC TAGS: laser oscillation, laser loss, laser operating mode, laser active medium

ABSTRACT: This is a continuation of an earlier work (ZhETF v. 46, 962, 1964) devoted to possible stationary (monochromatic) processes in a laser. In the present article the authors study the behavior of electromagnetic oscillations in a plane active medium under the assumption that the energy losses are due not only to radiation through the layer boundary, but also to losses in the medium itself, which contains active molecules. The report considers the one-dimensional problem of oscillations in a plane-parallel layer containing two-level active molecules. A phase-

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nonlinear oscillations and the corresponding distribution of the amplitude and

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ACCESSION NR: AP5010681

phase of the field in space. It is shown that several stationary frequencies are possible in the case of a thick but limited layer. If the layer is sufficiently thick, then to each frequency there corresponds also a finite number of modes with different field distributions in space and with different values of output power. To determine the exact oscillation that will be produced it is necessary to analyze the nonstationary processes in each case, including the initial disturbance [illegible] of the laser. "The authors thank A. V. Gapongy for in-

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due to self excitation of [illegible]
terest in the work and for a discussion of the results." Orig. art. has: 3 figures and 16 formulas. [02]

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Radiophysics Institute at the Gor'kiy University)

SUBMITTED: 28Mar64 ENCL: 00 SUB CODE: EC

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 01178-66 EWT(d)/EEC(k)-2/EED-2 WS-4

ACCESSION NR: AP5017654 UR/0109/65/010/007/1176/1180
621.391.814

AUTHOR: Ostrovskiy, L. A. 44

TITLE: Propagation of frequency-modulated signals in dispersing systems

SOURCE: Radiotekhnika i elektronika, v. 10, no. 7, 1965, 1176-1180

TOPIC TAGS: As the Fourier method is inadequate for analyzing the propagation of FM waves (compressed pulses) in dispersing systems, the present article offers a more general solution based on a time-domain approach. Variation of frequency in a frequency-modulated wave, propagating in a system having an arbitrary dispersion characteristic, is described by a first-order nonlinear partial differential equation. A Riemann integral is the solution of this equation in a single-variable case. The variation of the wave amplitude depends on the shape of the frequency envelope. It is found that, under certain conditions, the dispersion results in a grouping of the wave energy within narrow intervals associated with abrupt frequency changes. A certain similarity between the propagation of group fronts in a FM-wave and the travel of particles in a velocity-modulated beam is noted. "The author wishes to thank A. V. Gaponov for discussing the results." Orig. art. has: 16 formulas.

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L 01178-66

ACCESSION NR: AP5017654

ASSOCIATION: none

SUBMITTED: 04May64 ENCL: 00 SUB CODE: EC

NO REF SOV: 007 OTHER: 002

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 9864-66

ACC NR: AP6003740 SOURCE CODE: UR/0104/65/000/004/0008/0013

AUTHOR: Ostrovskiy, L.A. (Engineer); Meyklyar, M.V. (Engineer)

ORG: none

TITLE: Type TPP-200 boiler for 800 Mw system

SOURCE: Elektricheskiye stantsii, no. 4, 1965, 8-13

TOPIC TAGS: electric power engineering, thermoelectric power, steam boiler

ABSTRACT: A general description of the design, construction and constructive lessons learned in producing a series of power system boilers, including the types TPP-110 and TPP-210 of 300 Mw capacity and the TPP-200, designed for use in power systems capable of producing 800 Mw. The group includes both single and double block boilers, the latter having been found to be preferable, since a breakdown requires only a temporary reduction in power output as one section is shut down, not a complete shutoff. Cross-sections and diagrams are presented to explain the operation and design features of the TPP-200. Orig. art. has: 5 figures, and 2 tables. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 1/1 UDC: 621.18.65

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 45774-65 EEC(b)-2/EWG(r)/EEC(k)-2/EWA(h)/EWA(k)/EWP(k)/EWT(1)/EEC(t)/FBD/T/EWA(m)-2 Pf-4/Pi-4/Pl-4/Pm-4/Pn-4/Po-4/Peb IJP(c) WG
ACCESSION NR: AP5010504 UR/0056/65/048/004/1087/1096

AUTHOR: Ostrovskiy, L. A.

TITLE: Interaction of oscillation modes in a laser

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 4, 1965, 1087-1096

TOPIC TAGS: laser, one mode laser, two mode laser, laser cavity, laser stability

ABSTRACT: It is pointed out in the introduction that the customary assumption made that laser transients involve only one fundamental cavity mode are not always satisfied in practice, and that more modes must be taken into account. The author then proceeds to obtain, within the framework of the model of a two-mode laser cavity, a sufficiently complete picture of both the stationary and nonstationary processes occurring in the laser. The modes are assumed to have different frequencies and the laser equations are reduced for this case, by an averaging method, to a system of dimensionless abbreviated equations of third order. The phase plane method is used to investigate the stability of the monochromatic and two-mode operations and to describe the transients in the laser. "The author is

Card 1/2

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L 45734-65

ACCESSION NR: AP5010504

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grateful to A. V. Gaponov and G. I. Freydman for a discussion of the results."
Orig. art. has: 2 figures and 17 formulas.

ASSOCIATION: Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta (Radiophysics Institute of the Gor'kiy State University)

SUBMITTED: 31Jul64 ENCL: 00 SUB CODE: EC

NR REF SOV: 007 OTHER: 004 ATD PRESS: 4001

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 10261-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h) SCTB/IJP(c) WG

ACC NR: AP6000212 SOURCE CODE: UR/0056/65/049/005/1535/1543

AUTHOR: Ostrovskiy, L. A. 44

ORG: Radiophysics Institute of the Gor'kiy State University (Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta)

TITLE: Automodulation of radiation of a laser with a two-mode resonator

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 5, 1965, 1535-1543

TOPIC TAGS: solid state laser, laser modulation, laser pulsation, laser emission

ABSTRACT: This is a continuation of earlier work by the author (ZhETF v. 48, 1087, 1965), dealing with a solid-state laser operating in two-resonator modes. Whereas in the earlier investigation it was assumed that the two modes are not close enough for the resonant bands to overlap, in the present article frequencies are assumed close enough to produce undamped automodulation of the laser emission. Using the same model as in the preceding paper, the author investigates the possible monochromatic processes and their stability, and also nonlinear intensity oscillations (spikes). A phase-space analysis shows that such oscillations can become undamped, inasmuch as the phase space of the averaged equations of the system contains a stable limit cycle. The waveform and the amplitudes of the corresponding spikes are determined on the basis of this analysis. Author is grateful to A. V. Gaponov for interest in the work and a discussion of the results. Orig. art. has: 13 figures and 22 formulas. [02]

SUB CODE: 20/ SUBM DATE: 03Jun65/ ORIG REF: 004/ OTH REF: 002/ ATD PRESS: 4161

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 26050-66 EWT(1) GG

ACC NR: AP5022797 SOURCE CODE: UR/0141/65/008/004/0738/0742

82
B

AUTHOR: Ostrovskiy, L. A.

ORG: Radio-physics Scientific Research Institute of Gor'kiy University (Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete)

TITLE: Rotational discontinuities in electrodynamics of nonlinear media

SOURCE: IVUZ. Radiofizika, v. 8, no. 4, 1965, 738-742

TOPIC TAGS: electrodynamics, shock wave, electromagnetic field, shock wave interaction

ABSTRACT: Only one type of electromagnetic field discontinuities in nonlinear medium has been investigated--electromagnetic shock waves in which the direction of field polarization during transition through the discontinuities is not changed. In view of the vector character of the electromagnetic field, it should be expected that discontinuities with a change in direction of the field vectors are also possible. In order to ascertain in general how the types of discontinuities are possible, boundary conditions are examined in a discontinuity in their vector form. A. V. Gaponov, G. I. Freydman (Izv. vy*ssh. uch. zav. Radiofizika, 3, 79, 1960).

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ACC NR: AP5022797

$$[n, E_2 - E_1] = \frac{v_n}{c}(B_2 - B_1), \quad D_{n2} = D_{n1},$$

$$[n, H_2 - H_1] = -\frac{v_n}{c}(D_2 - D_1), \quad B_{n2} = B_{n1}.$$

Here n is the normal in the discontinuity surface, v_n is the normal component of discontinuity transit rate; indexes 1 and 2 are related to field strength values and inductions before and during discontinuity. It is shown that, under general conditions, two types of electromagnetic field discontinuities in the nonlinear medium are possible: shock wave and rotational discontinuities. The formation of rotational discontinuities has been considered in shock wave interaction. The stationary rotational configurations form only at a slow (quasi-static) field rotation. The relaxation and dispersion effects lead to diffusion of the rotational discontinuities. There is an analogy between the processes examined in an infinite space and waves in coupled transmission lines. Orig. art. has: 2 fig. and 12 equations.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

ACC NR: AP6036058 SOURCE CODE: UR/0056/66/051/004/1189/1194

AUTHOR: Ostrovskiy, L. A.

ORG: Radiophysics Institute of the Gor'kiy State University (Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta)

TITLE: Propagation of wave packets and the space-time self-focusing in a nonlinear medium

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 4, 1966, 1189-1194

TOPIC TAGS: ~~nonlinear optics, self-focusing~~, light propagation, light modulation
laser mode, light pulse, laser optic material

ABSTRACT: The author discusses a self-focusing phenomenon occuring when modulated waves propagate in a transparent nonlinear dispersive medium. This phenomenon consists of space-time deformation of the modulated wave envelopes. Equations are derived for the envelopes, and both nonstationary and stationary (periodic and single) solutions are obtained for them. It is shown from an analysis of the equations that a monochromatic wave can be unstable against traveling perturbations of both its amplitude and its frequency. Cases when these perturbations undergo cumulative deformation instead of growing are also shown to exist. It is also shown that the physical real-

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izability of self-focusing of the type discussed depends essentially on the degree of nonlinearity of the medium and on its dispersive properties. A numerical estimate shows that with contemporary lasers the perturbations of a light pulse can become appreciable after propagating over a distance on the order of 1 meter, the modulation frequency corresponding to a wavelength of about 0.1 mm. The similarities and differences between ordinary spatial self-focusing and space-time self-focusing are discussed briefly. The author thanks A. V. Gaponov for a discussion of the results. Orig. art. has: 2 figures and 10 formulas.

SUB CODE: 20/ SUBM DATE: 23Apr66/ ORIG REF: 010/ OTH REF: 002 / ATD PRESS: 5106

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

KUZ'MENKO, P.P.; OSTROVSKIY, L.F.

Mobility of Ag^{110} in magnesium. Fiz.tver.tela 4 no.10:2984-2986 O '62. (MIRA 15:12)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko.
(Silver—Isotopes) (Magnesium)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

S/181/62/004/005/042/055
B139/B102

AUTHORS: Kuz'menko, P. P., and Ostrovskiy, L. F.

TITLE: Mobility of silver in nickel

PERIODICAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1358-1360

TEXT: The polished front faces of round nickel rods, 5 mm in diameter and 15 - 20 mm in length, were coated with a layer of radioactive silver 0.5 - 1.0 μ thick. The specimens were electrically connected in vacuo, the areas of contact being preheated to 900°C and then brought up to the temperature required for the experiment. Current density was 40 - 120 a/mm^2. Subsequently, the depth distribution of integral activity $N_{(a)}$ was measured in the anode and cathode parts of the layers removed by mechanical means. Owing to a notable evaporation of silver, this amounted to only 300 - 700 imp./min, with a background of 4 imp./min. As an example experiment no. 5 gave the following results: t= 3 hrs, T = 1643°K, current density i = 74 a/mm^2, ion velocity v = 16.3×10^{-7} cm/sec, diffusion coefficient D = 15.6×10^{-9} cm^2/sec, electric resistance of nickel

Card 1/2

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Mobility of silver... S/181/62/004/005/042/053
B139/B102

at the experimental temperature ρ = 60.7 x 10^{-6} ohm.cm, $\frac{F}{eZ}$ = 26. These results cannot be explained by field action on the positive charge of the silver ion, but rather on the assumption that the electronic holes play the same part as the electrons in simple metals. In the case of transition metals through which d-c flows, the force of the hole wind is decisive for migration. In interpreting experimental results, this fact must be taken into account when migration proceeds toward the cathode. There are 1 table and 1 figure.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko (Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: December 30, 1961

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

KUZ'MENKO, P.P.; OSTROVSKIY, L.F.; KOVAL'CHUK, V.S.

Mobility of Sb, Fe, Co in solid copper. Fiz.tver.tela 4 no.2:490-493 F '62. (MIRA 15:2)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko.
(Radioisotopes) (Copper)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

S/148/62/000/011/007/013
E111/E435

AUTHORS: Kuz'menko, P.P., Ostrovskiy, L.F.

TITLE: Electro-transfer of silver in copper

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no.11, 1962, 146-149

TEXT: The transfer of silver in solid copper under the influence of heavy direct currents was studied with the aid of the radioactive isotope Ag^{110}. With intensive cooling of the electrode current densities of 200 to 300 A/mm^2 could be obtained. After current had passed for several hours the distribution of radioactivity along the specimen on one end of which a layer of Ag^{110} had previously been deposited was studied. Substantial transfer of silver towards the anode occurred indicating that, as in other systems studied by the authors, the motive force was the force of the electron wind. From the results obtained the average value of the effective charge of the activated (i.e. participating in the diffusion) silver ion in copper was found to be 0.73 electron units. There are 1 figure and 1 table.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiyev State University)

SUBMITTED: February 21, 1961

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

S/181/62/004/010/059/063
B102/B104

AUTHORS: Kuz'menko, P. P., and Ostrovskiy, L. F.

TITLE: The Ag^{110} mobility in magnesium

PERIODICAL: Fizika tverdogo tela, v. 4, no. 10, 1962, 2984-2986

TEXT: The Ag^{110} mobility in Mg of the variety МГ-1 (MG-1) was determined by a d-c method described in the authors' earlier papers (UFZh, 6, 525, 1961; FTT, 4, 490, 1962; 4, 1360, 1962). The measurements were made in the range 470-570°C at current densities of 38 - 63 a/mm^2. The curves showing the depth-dependence of the integral activity enabled the migration rate v was calculated. Then, by comparing the forces acting on the ion ($F/Ee = vakT/Dei\epsilon$) in accordance with the usual procedure, the effective charge of the silver ion and the mean scattering cross section are calculated, using Fiks' theory (V. B. Fiks, FTT, 1, 16, 1959):

$-F/eE = q^* - \bar{q}\,\sigma/\bar{\sigma}$, where q^* is the charge of the activated ion, $\bar{q}$ is the mean ion charge in the metal, σ the scattering cross section of the

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

The Ag^{110} mobility in magnesium

S/181/62/004/010/059/063
B102/B104

activated Ag ion and $\bar{\sigma}$ the mean scattering cross section. The results were: $\bar{\sigma} = 6.7 \cdot 10^{-16} cm^2$ which is almost equal to the cross section $r^2\pi$, and $\bar{q}_{Ag} = 1.5$. The great value of $\bar{q}$ shows that the Ag electron structure in Mg differs greatly from that of activated Ag in Ag. There are 1 figure and 1 table.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko (Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: June 14, 1962

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

S/126/62/013/003/011/023
E021/E180

AUTHORS: Kuz'menko, P.P., Ostrovskiy, L.F., and Koval'chuk, V.S.

TITLE: Mobility of small tin additions in copper and silver

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.3, 1962, 406-410

TEXT: The absolute transfer of tin in copper and silver during the passage of a direct current was studied by a method described previously (Ref.2: P.P. Kuz'menko, L.F. Ostrovskiy, Ukr.fiz.zhurnal, no.6, 1961, 525). A thin layer of radioactive tin was deposited electrolytically on one end of two similar samples (2.5-3.5 mm diameter and 15-20 mm length). The active surfaces were placed in contact and connected to the electrodes in a vacuum apparatus. Current densities varied from 140 to 400 A/mm^2. The contact region was heated by direct current to 220 °C and held for 15-20 minutes. Then the current was increased and the contact region heated to the test temperature. After the test, the sample was removed from the apparatus and

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broken along the contact plane, and the distribution of activity in the cathode and anode halves was measured. In all the experiments the tin migrated to the anode. Therefore, the force causing the migration is due to electrons, and arises from the scattering of valency electrons of the activated tin ions, because of the destruction of the periodicity of the lattice potential by the tin ions. The effective charge of the activated tin ion in electron units was calculated from the results obtained at different temperatures. For tin in pure copper, the effective charges at 1075, 1109, 1174 and 1153 °C are 1.6, 1.8, 1.3 and 1.0. For tin in copper + 0.1 atomic % tin the charges at 1101, 1161, 1159 °C are 1.5, 1.3 and 1.1. For tin in silver + one atomic % tin the charges at 1205, 1115, 1076, 1181, 1073 and 997 °C are 1.1, 1.2, 1.3, 0.9, 1.3 and 1.5 respectively. There are 4 figures and 2 tables.

ASSOCIATION: Kiyevskiy gosuniversitet im. T.G. Shevchenko (Kiev State University imeni T.G. Shevchenko)

SUBMITTED: June 21, 1961

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, L.F.; KUZ'MENKO, P.P.

Mobility of silver in bismuth and of antimony in tin. Fiz. met. i metallov-ved. 17 no.1:78-82 Ja '64. (MIRA 1[illegible])

1. Kiyevskiy ordena Lenina gosudarstvennyy universitet im. Shevchenko.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

USSR/Human and Animal Physiology - Blood, Blood Chemistry. T

Abs Jour : Ref Zhur Biol., No 3, 1959, 12590

Author : Ostrovskiy, L.F.

Inst : Zootechnical Veterinary Institute

Title : Variation in Protein and Protein Fractions of the Blood in Horses in Respect to Age, Season of Year, and Exploitation.

Orig Pub : Tr. Novocherkasskogo zootekhn.- vet. in-ta, 1957, vyp. 10, 229-237

In 21 healthy horses the blood contained total protein of 5.56 - 8.24, fibrinogen of 0.15 - 0.36, albumin of 2.98 - 4.30, globulin of 2.11 4.12, euglobulin of 0.05 - 0.55, pseudoglobulin of 2.06 - 3.87 g%, the A/G coefficient was 0.90 - 1.56, and residual nitrogen was 26.5 - 70.5 mg%. In the same animals maximal fluctuations

Card 1/3

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

USSR/Human and Animal Physiology - Blood, Blood Chemistry. T

Abs Jour : Ref Zhur Biol., No 3, 1959, 12590

increased. For an accurate evaluation of protein metabolism it is necessary to fully investigate the blood protein. -- M.B. Goldberg

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

KUZ'MENKO, P.P.; OSTROVSKIY, L.F. [Ostrovs'kyi, L.F.]

Electric transport of small admixtures of zinc and silver in solid aluminum. Ukr. fiz. zhur. 6 no.4:525-530 Jl-Ag '61. (MIRA 14:9)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.
(Mass transfer)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, L. F.

OSTROVSKIY, L. F.: "Changes in protein and the protein fractions of blook serum in horses in gastro-intestinal colics". Novocherkassk, 1955. Min Higher Education USSR. Novcherkassk Zooveterinary Inst imeni First Cavalry Army. (Dissertation for the Degree of Candidate of VETERINARY Sciences)

SO: Knizhnaya Letopis' No. 51, 10 December 1955

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

[illegible], I.S.; [illegible], A.V.; OSTROVSKIY, [illegible]; [illegible]
[illegible].

[illegible] the motor-vehicle driver, [illegible]
[illegible]hinev, Kartia moldoveniaske, 1965. [illegible] p. [illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

SHCHURENKO, Yu.; OSTROVSKIY, M.; SHPRINTSIN, V., dots.

Alternating-current electric dirve for cargo winches on "Andizhan"-type vessels. Mor. flot 20 no.11:24-27 N '60. (MIRA 13:11)

1. Starshiy inzhener-elektrik mekhaniko-sudovoy sluzhby Dal'nevostochnogo parokhodstva (for Shchurenko). 2. Nachal'nik elektrootdela Dal'nevostochnogo parokhodstva (for Ostrovskiy). 3. Dal'nevostochnyy politekhnicheskiy institut imeni Kuybysheva (for Shprintsin).
(Winches--Electric driving) (Electricity on ships)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

CETROVSKIY, M.

Precast reinforced-concrete elements for electric power and telephone and telegraph lines. Tr. from the Russian. p. 7.
INZHENYRSKE STAVBY. (Ministerstvo stavebnictvi, Praha.
Vol 4, no. 1, Jan. 1956.

SOURCE: SEAL LC Vol. 5, No. 10, Oct. 1956

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M., kandidat tekhnicheskikh nauk.

Trailers for moving large construction panels. Avt.transp. 32 no.3:6-7 Mr '54. (MLRA 7:8)
(Building materials--Transportation)(Automobiles--Trailers)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M. A.

OSTROVSKIY, M. A.

"The Problem of Designing Prismatic Lamps",

Elektrichestvo, No 6, 1949. Cand. Technical Sci., Acad.

Public Economy imeki Pomfilov. -c1949-.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

SA

B 68
a

623.9 : 621.326

1668. **Distribution of zonal luminous flux by prismatic systems.** M. A. Ostrovskii. *J. Tech. Phys., USSR*, 20, 738-44 (June, 1950) *In Russian.*

A theoretical and experimental investigation of the luminous flux distribution of the prismatic refracting systems of the "Golofan" lamps. Discrepancies between calculations and experimental data do not exceed 8-10% in the zones of maximum flux.

B. F. KRAUS

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

ZILIBERLAT, Ya. B. and OSTROVSKIY, M. A.

"Lighting of City Streets," Moscow, 1951.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M. A.

USSR/Electricity - Illuminating Engineering Nov 52
Instruments

"An Objective Luxmeter for Measuring Low Illuminations," Doc M. A. Ostrovskiy, Moscow Eng Construction Inst imeni Kuybyshev

"Elektrichestvo" No 11, pp 62-64

Describes new objective luxmeter designed to measure illuminations down to 0.1 lux in outdoor lighting installations. Testing of exptl luxmeter showed its suitability for this purpose. Submitted 14 Mar 52.

240168

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

ZIL'BERBLAT, Ya.B.; OSTROVSKIY, M.A.; FEDOTKIN, S.N.; AKATOVA, V.G., redaktor; GUBOVA, O.A., tekhnicheskiy redaktor.

[Layout for effective city lighting] Ratsional'nye skhemy osveshcheniia gorodov. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1954. 50 p. (MLR' 8:1)
(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M. A.

628.971 : 621.327.43

5391 Use of fluorescent lamps for outdoor lighting.

YA. B. ZIL'BERBLAT, M. A. OSTROVSKIĬ AND S. N. FEDOTKIN. *Elektrichestvo*, 1954, *No.* 6, 58–62. *In Russian.*

A reduction of the ambient temperature reduces the luminous flux of fluorescent lamps and renders their use for public lighting more difficult. An increase of the efficiency of fluorescent lamps for outdoor lighting may be achieved by enclosing the lamps in heat-insulating jackets. Special thermal relays should be used for reliable automatic connection of the lamps during the cold season. The maximum permissible voltage drop in lighting systems with fluorescent lamps is 8–10%. The experiments showed that the luminous flux of the lamps is a maximum when the lamp walls are kept at 30–40°C, and also that this may be assured by insulating jackets, except that the effectiveness of this protection is somewhat reduced by strong winds.

B. F. KRAUS

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A.

On the problem of improving Moscow's outside lighting. Gor.khoz.Mosk. 28 no.11:20-24 N '54. (MIRA 9:1)

1. Dotsent Moskovskogo inzhenerno-stroitel'nogo instituta im. V.V.Kuybysheva.
(Moscow--Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kandidat tekhnicheskikh nauk.

Investigation of the reflecting properties of asphalt street pavements. Svetotekhnika 2 no.1:11-16 Ja '56. (MLRA 9:3)

1. Moskovskiy inzhenerno-stroitel'nyy institut.
(Reflection (Optics)) (Pavements, Asphalt)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kandidat tekhnicheskikh nauk.

Calculation and measurement of pavement brightness. Svetotekhnika 2 no.2:14-18 Mr '56. (MLRA 9:7)

1.Moskovskiy, M.A., kandidat tekhnicheskikh nauk.
(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

KROL', TS.I., kandidat tekhnicheskikh nauk; OSTROVSKIY, M.A., kandidat tekhnicheskikh nauk.

Glare of fluorescent lamps. Svetotekhnika 2 no.4:22-25 Jl '56. (Fluorescent lamps) (MLRA 9:10)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, [illegible], kandidat tekhnicheskikh nauk.

[redacted]

The current situation and prospective development of municipal outdoor lighting. Svetotekhnika [illegible] 2-1[illegible] '57. (MLRA 10:8)

1. [illegible]skiy [illegible]-stroitel'nyy institut.
(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kandidat tekhnicheskikh nauk.

Street lighting from the point of view of road safety. Svetotekhnika 3 no.2:30-32 F '57. (MIRA 10:3)

1.Moskovskiy inzhenerno-stroitel'nyy institut.
(Street lighting) (Traffic accidents)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

BELOVA, L.T., kandidat tekhnicheskikh nauk.; OSTROVSKIY, M.A., kandidat tekhnicheskikh nauk.; YURKOV, S.G., kandidat tekhnicheskikh nauk.

Problem of reviewing the lighting norms for industrial buildings. Svetotekhnika 3 no.5:26-28 My '57. (MLRA 10:5)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Lighting--Standards)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kand.tekhn.nauk

Street lighting calculations. Svetotekhnika 4 no.4:22-23 Ap '58. (MIRA 11:4)

(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kand.tekhn.nauk

Saving electric power in street lighting devices. Svetotekhnika 6 no.3:1-7 Mr '60. (MIRA 13:6)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kand.tekhn.nauk

Measurement of the coefficient of glare of street lamps. Svetotekhnika 6 no.4:26-30 Ap '60. (MIRA 13:6)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., red.; MIRONOV, A.V., red. izd-va; PYRKINA, N.F., tekhn. red.

[Outside lighting in cities] Naruzhnoe osveshchenie gorodov. Moskva, 1961. 53 p. (MIRA 15:3)

1. Russia (1917- R.S.F.S.R.) Ministerstvo kommunal'nogo khozyaystva.

(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

S/196/61/000/011/010/042
E194/E155

AUTHOR: Ostrovskiy, M A

TITLE: Calculation of the brightness of road surfaces

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika no.11, 1961, 14, abstract 11V 150 (Svetotekhnika, no 5, 1961, 1-6)

TEXT: Three methods of calculating the brightness are considered. The analytical method of determining the brightness at any point on a street surface with any position of observer and light source uses the following formula:

$$r = r_o + \frac{a}{1 + b \cot^2 \gamma} \cdot \sec \theta e^{-c\gamma^2}$$

where: θ is the angle of observation, α is the incident angle of light; γ is the angle between the line of vision and the direction of mirror reflection; r_o, a, b, c are experimental constants (which depend upon the type and condition of road surface and the time for which it has been used etc.).

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

BELOVA, L.T., kand.tekhn.nauk; GORBACHEV, N.V., kand.tekhn.nauk; IVANOVA, N.S., kand.tekhn.nauk; KROL', TS.I., kand.tekhn.nauk; OSTROVSKIY, M.A., kand.tekhn.nauk; SHEFTEL', Ye.B., kand.tekhn.nauk; TSAR'KOV, V.M., inzh.

Proposed new version of "Norms on electric lighting." Svetotekhnika 7 no.8:14-22 Ag '61. (MIRA 14:7)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Electric lighting—Standards)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kand.tekhn.nauk

Nomenclature and range of light fixture sizes for lighting streets, city squares and settlements. Svetotekhnika 7 no.9:1-4 S '61. (MIRA 14:9)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Electric lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kand.tekhn.nauk; FLODINA, T.L., inzh.

Light fixtures with sodium lamps. Svetotekhnika 7 no.11:3-5 N '61. (MIRA 14:11)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Light fixtures)
(Electric lighting, Sodium vapor)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

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Z 019 62 019 007 004 004
1037 1237

AUTHORS Ostrovskij, M. A. and Flodina, T. I.

TITLE Illuminator for sodium discharge lamps

PERIODICAL Přehled technické a hospodářské literatury, no. 7, v. 19 1962, 322 Item no. E 62 4362

TEXT Brief description of a new Soviet illuminator for sodium discharge lamps of 140 W construction luminescence lines, properties in street illumination. There are 1 photo, 1 drawing and 4 references.

1961 XI Svetotechnika 7, No. 11, p. 3-5

Card 1/1

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OSTROVSKIY, M.A., kand.tekhn.nauk

Quantitative evaluation of the glare of street lighting [illegible]. Svetotekhnika 8 no.6:[illegible] Je '62. [illegible]

1. Vsesoyuznyy svetotekhnicheskiy institut
(Street lighting)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

ZIL'BERBLAT, Ya.B., kand.tekhn.nauk; OSTROVSKIY, M.A., kand.tekhn.nauk

Norms on street lighting. Svetotekhnika 8 no.10:4-8 O '62. (MIRA 15:9)

1. Akademiya kommunal'nogo khozyaystva i Vsesoyuznyy svetotekhnicheskiy institut.
(Street lighting—Standards)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

ZIL'BERBLAT, Ya.B., kand.tekhn.nauk; OSTROVSKIY, M.A., kand.tekhn.nauk

Proposed norms and regulations for the lighting of streets, roads, trains, and platforms. Svetotekhnika 8 no.10:9-11 O '62. (MIRA 15:9)

(Street lighting--Standards) (Electric lighting--Standards)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kand.tekhn.nauk

Basis for the norms on the aberage brightness of road surfaces in municipal outdoor lighting systems. Svetotekhnika 8 no.11:10-12 N '62. (MIRA 15:10)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Street lighting)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

SMIRNOVA, N.A.; OSTROVSKIY, M.A.

Persistent activity rhythms in the sea anemone. Nauch.dokl. vys.shkoly; biol.nauki no.1:56-59 '59. (MIRA 12:5)

1. Rekomendovana kafedroy fiziologii zhivotnykh Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.
(SEA ANEMONES) (ANIMAL LOCOMOTION)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

POSKONOVA, M.A.; OSTROVSKIY, M.A.

Periodic activity of the heart following prolonged excitation of the sympathetic nerve. Biul. eksp. i biol. med. 50 no. 8:3-8 Ag '60. (MIRA 13:10)

1. Iz kafedry fiziologii zhivotnykh i cheloveka (zav. - chlen-korrespondent Akademii nauk SSSR, Kh. S. Koshtoyants) Moskovskogo ordena V.I. Lenina gosudarstvennogo universiteta imeni M.V. Lomonosova. Predstavlena deystv. chlenom AMN SSSR S.Ye. Severinym.
(HEART) (NERVOUS SYSTEM, SYMPATHETIC)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A.

Succinic dehydrase activity in the retina of the frog and its change caused by light. Zhur. ob. biol. 22 no.6:471-474 N-D '61. (MIRA 14:11)

1. Institute of Higher Nervous Activity and Neurophysiology, U.S.S.R. Academy of Sciences.
(SUCCINIC DEHYDRASE) (RETINA)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A.

Localization of acetylcholinesterase in the frog retina. Zhur. ob biol. 22 no.6:474-477 N-D '61. (MIRA 14:11)

1. Institute of Higher Nervous Activity and Neurophysiology, U.S.S.R. Academy of Sciences.
(ACETYLCHOLINESTERASE) (RETINA)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A.

Descending effects on the retina in the frog. Biofizika 7 no.1:55-63 '62. (MIRA 15:5)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR, Moskva.

(RETINA--INNERVATION) (OPTIC NERVE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M. A.

Dissertation defended in the Institute of Higher Nervous Activity and Neurophysiology for the academic degree of Candidate of Biological Sciences: 1962

"Problem of Descending Effects on the Retina of Amphibian Eyes."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A.

Study of some links of the photoenzymochemical chain of processes in photoreceptors. Biofizika 10 no.3:470-475 '65. (MIRA 18:11)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR, Moskva. Submitted Sept. 26, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A.; FEDOROVICH, I.B.

Enzymatic (adenosinetriphosphatase) activity of digitonin extracts of rhodopsin (visual purple) and its change under the influence of visual light. Dokl. AN SSSR 162 no.6:1412-1414 Je '65. (MIRA 18:7)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR i Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR. Submitted October 12, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 27113-66

ACC NR: AP6017472 SOURCE CODE: UR/0020/65/162/006/1412/1414

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B

AUTHOR: Ostrovskiy, M. A.; Fedorovich, I. B.
ORG: Institute of Higher Nervous Activity and Neurophysiology, AN SSSR (Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR); Institute of Radiation and Physicochemical Biology, AN SSSR (Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR)

TITLE: Change in enzymatic (ATPase) activity of digiton in extracts of rhodopsin (visual purple) after exposure to visible light

SOURCE: AN SSSR. Doklady, v. 162, no. 6, 1965, 1412-1414

TOPIC TAGS: enzyme, organic phosphorus compound, biophysics, luminescence

ABSTRACT: In one series of experiments, a medium containing a buffer, $MgSO_4$, ATP, and rhodopsin or indicator yellow, with pH 7, was incubated for 25-30 min. Changes in ATP content were determined by the bioluminescence method in 0.2 ml of the medium withdrawn every 2-3 min. ATPase activity was evaluated from the decrease of ATP in the incubation medium. The experiments revealed considerable ATPase activity of the digitonin extracts of rhodopsin (obtained from dark-adapted intact frog retinas). The speed of the reaction was quite high. In control experiments of this series, a digitonin solution or visual pigment denatured by heating was added to the incubation medium instead of the rhodopsin. Neither had any significant effect on the amount of ATP in the medium.

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L 27113-66

ACC NR: AP6017472

In a second series of experiments, changes in ATP content under the influence of rhodopsin were recorded directly in a luciferin-luciferase system. As a control, digitonin was added to the luciferin-luciferase-ATP complex. It had no affect on the shape of the kinetic curve of bioluminescence extinction. The rate of the reaction was determined from the difference between the intensity of bioluminescence in the experiment (rhodopsin) and in the control (digitonin).

A comparison of the enzymatic activity of rhodopsin and the product of its decoloration showed that the latter had less ATPase activity.

The authors draw no conclusions from their experiments, but they conjecture that the enzymatic activity of visual pigment is largely dependent on the chromophore-protein bond and on a certain steric configuration of both opsin and retinene. Therefore, the activity of indicator yellow, in which this bond and the configuration of both parts of the chromoprotein molecule are sharply impaired, is much less.

The presence of enzymatic activity in visual purple and changes therein after exposure to visible light will help to elucidate the primary mechanisms of photoreception. This paper was presented by Academician V. A. Engel'gardt on 12 October 1964. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 06, 20 / SUBM DATE 12Oct64 / ORIG REF: 004 / OTH REF: 008

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A., kand.biolog.nauk

Chemistry of sight. Zdorov'e 9 no.4:9-10 Ap'65. (MIRA 18:7)
(VISUAL PURPLE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

AYZENBERG, Yu.B.; GORBACHEV, N.V.; GOREV, Z.M.; DEMCHEV, V.I.; YEFIMKINA, V.F.; IVANOVA, N.S.; KOMISSAROV, V.D.; MARKIZOVA, G.B.; MESHKOV, V.V.; OSTROVSKIY, M.A.; RATNER, Ye.S.; SHEFTEL', Ye.B.; YUROV, S.G.

Nikolai Nikolaevich Ermolinskii; obituary. Svetotekhnika 8 no.12:28 D '62. (MIRA 16:1)
(Ermolinskii, Nikolai Nikolaevich, 1894-1962)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.A.; KAYUSHIN, L.P.

Study of electron paramagnetic resonance in the retina during the action of light. Dokl. AN SSSR 151 no.4:986-988 Ag '63. (MIRA 16:8)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR i Institut biologicheskoy fiziki AN SSSR. Predstavleno akademikom N.N.Semenovym.
(ELECTRORETINOGRAPHY) (PARAMAGNETIC RESONANCE AND RELAXATION)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

KROL', TS.I., kand. tekhn. nauk; OSTROVSKIY, M.A., kand. tekhn. nauk

Why should the illuminance norms not be decreased when the installational height of the floodlights is increased? Svetotekhnika 9 no.5:24-25 My '63. (MIRA 16:7)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Electric lighting--Standards)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

L 17508-63

ACCESSION NR: AP3004437 S/0020/63/151/004/0986/0988

45

AUTHORS: Ostrovskiy, M. A.; Kayushin, L. P.

TITLE: Study of electron paramagnetic resonance in the retina in the presence of light.

SOURCE: AN SSSR. Doklady*, v. 151, no. 4, 1963, 986-988.

TOPIC TAGS: electron paramagnetic resonance, retina, Rana temporaria.

ABSTRACT: Isolated, dark-adapted retinas from the frog, Rana temporaria, which contained traces of the pigmented epithelium were examined in an electron paramagnetic resonance (EPR) spectrometer at temperatures below 0°C. The retinas gave a definite EPR signal at -20C. An average increase in amplitude of 50% occurred when the retinas were exposed to a 750 watt incandescent lamp. The amplitude returned to its initial level a few minutes after the lamp was turned off. Both light and dark signals had a singlet form; the g-factor of the spectrum approximated the g-form of a free electron; and the width of the absorption lines between points of minimal slope was about 6 oersteds. A similar response was obtained at -196C, but the decrease in amplitude after the lamp was switched off was very slow. These experiments indicate that there is a considerable increase in the number of unpaired electrons in the retina when it is exposed to visible

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L 17508-63

ACCESSION NR: AP3004437

light. "Pure" pigmented epithelium exposed to visible light gave signals which increased only 17-19% from the initial "dark" values. Increase in the amplitude of the signal in retinas with traces of pigmented epithelium may be due either to photochemical processes in the photoreceptors or to basic photochemical properties of the photoreceptor-pigmented epithelium system. The low temperatures employed in these experiments make it unlikely that enzymatic processes are involved. "Authors express deep gratitude to Prof. V. O. Samsonovaya for her constant interest in the work and valuable advice, and also to O. T. Rikherevaya and M. K. Pulatovaya for assistance in the work." Orig. art. has: 3 figures.

ASSOCIATION: Institut vy"sshey nervnoy dyeyatel'nosti i neyrofiziologii Akademii nauk SSSR (Institute for higher nervous activity and neurophysiology, Academy of sciences SSSR). Institut biologicheskoyi fiziki Akademii nauk SSSR (Institute for Biological Physics, Academy of Sciences, SSSR).

SUBMITTED: 04Feb63 DATE ACQ: 21Aug63 ENCL: 00

SUB CODE: AM, PH NO REF SOV: 002 OTHER: 006

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

DUBINSKIY, Yu.A. [Dubins'kyi, IU.A.]; OSTROVSKIY, M.B. [Ostrovs'kyi, M.B.]

Development of shoe upper construction models using two basic pattern designs. Leh.prom. no.1:24-29 Ja-Mr '63. (MIRA 16:4)

1.Kiivs'kiy ekstraktovo-lisoobrobniy kombinat (for Dubinskiy).
2.Kiyevskaya obuvnaya fabrika No.6 (for Ostrovskiy).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.I.; MARTYNOVA, T.A.

Study of magnetic properties of rocks of the Kursk Magnetic Anomaly. Izv.AN SSSR Ser.geofiz. no.3:349-356 Mr '56. (MIRA 9:7)

1.Akademiya nauk SSSR, Geofizicheskiy institut.
(Kursk Province--Rocks--Magnetic properties)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.I.

Small-size combination smoothing plane. Der. i lesokhim.prom. 3 no.8:25-26 Ag '54. (MLRA 7:8)

1. Belotserkovskaya mebel'naya fabrika.
(Planing machines)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

MYDRENKO, A.T.; OSTROVSKIY, M.I.

Making furniture in parts and joints without assembly at the factory. Der.prom. 4 no.10:18 O '55. (MIRA 9:1)

1.Belotserkovskaya mebel'naya fabrika.
(Furniture industry)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.I.

Heated gluing press for veneering edges. Der.prom. 8 no.4:22 Ap '59. (MIRA 12:6)

1. Belotserkovskaya mebel'naya fabrika.
(Veneers and veneering)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.I.; POPOVIN, V.V.

Basic features of the geological development of the southwestern regions of the Udmurtskaya A.S.S.R. in connection with the oil potential of the terrigenous Devonian. Geol. i geofiz. no.5: 20-24 '64.

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.I., podpolkovnik meditsinskoy sluzhby.

Medical evaluation of nocturnal enuresis in the armed forces. Voen.-med.zhur. no.10:22-24 O '47. (MLRA 6:11)

(Urine--Incontinence)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238510019-1

OSTROVSKIY, M.I.

Certain peculiarities of the course of early neurosyphilis. Nevropat. psikhiat., Moskva 20 no.2:68-69 Mar-Apr 1951. (CIML 20:9)

1. Colonel, Medical Corps. 2. Abstract.

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