

SEMADENI, Z.

Projectivity, injectivity, and duality. Rozprawy matemat.
35:1-46 '63.

1. Institute of Mathematics, Polish Academy of Sciences,
Warsaw, and University of Washington Seattle, Washington.

SEMADENI, Z. (Poznan)

Spaces of continuous functions. Pt. 6. Studia math 23 no. 1:
59-84 '63.

SEMADENI, Z. (Poznan)

Isomorphic properties of Banach spaces of continuous functions.
Studia math Ser spec no.1:93-108 '63.

1. Mathematical Institute, Polish Academy of Sciences.

SEMAGIN, A.; KRYUKOV, A., glavnyy bukhgalter

Interests of industry demand it. Prom.koop. 12 no.12:11
D '58. (MIRA 12:2)

1. Zamestitel' predsedatelya pravleniya arteli "Krasnyy
partizan," g.Vologda.
(Vologda--Chemical plants)

SEMAGIN, A.T., inzhener; DRIVING, Ya.Ya., arkhitektor.

Precast, three-meter, reinforced concrete slabs. Stroi.prom. 31 no.11:
6-9 N '53. (MLRA 6:12)

(Precast concrete construction)

SARKISOV, G.M.; SEMAGIN, F.K.

Studying the strength of aluminum alloys used in the manufacture of
drill pipes. Izv.vys.icheb.zav.; neft' i gaz 5 no.8:95-100 '62.
(MIRA 17:3)

1. Kuybyshevskiy industrial'nyy institut im. V.V.Kuybysheva.

I 32722-65 EWT(d)/EWP(w)/EWT(m)/EWP(v)/EWA(d)/EWP(t)/T/EWP(E)/EWP(K)/EWP(I)/EWP(b)
ACCESSION NR: AT5004707 Pf-4 MJW/JD/WB/EM S/3130/64/000/012/0028/0047

AUTHCRS: Sarkisov, G. M.; Semagin, F. K.

52
50
8+1

TITLE: Investigating static and fatigue strength of aluminum alloys AV, D16, and V95

SOURCE: Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy tekhniki. Trudy, no. 12, 1964. Bural'nyye trubyy iz legkikh splavov (Drill pipes made of light alloys) 28-47

TOPIC TAGS: aluminum, aluminum alloy, steel, metal breaking, metal corrosion, metal failure, metal fatigue, static testing, fatigue, fatigue strength/ AV aluminum, D16 aluminum, V95 aluminum, D steel, M steel, T15K6 hard alloy, GOI paste, NU testing machine, 1A616 lathe, SGP1 hydraulic copying device

ABSTRACT: Static and fatigue strengths of the aluminum alloys AV, D16, V95 were tested. Their properties were compared to those of steels D and M used in drill-pipe production and were tested under identical conditions. AV and D16 underwent additional testing for tensile strength in impact, ductility, and resistance to ring flattening. Mechanical properties of D16 and D, when subjected to a 45-day corrosion in drilling mud, in a stressed state, did not change. The static strength of AV, D16, and V95 was respectively: high, medium, and low. Most of the pipe failures
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ACCESSION NR: AT5004707

were caused by stress concentration, corrosion in the circulation fluid, and weakening at couplings and joint threads. Fatigue strength was measured in the NU device designed for testing pipes and rods $l = 226$ mm, $d = 17$ mm in fluid. Repeated variable loads were applied according to the scheme shown in Fig. 1 on the Enclosure, where P is the force producing continuous bending moment M along the whole sample, a is the distance between the points of support and force application, d is the sample diameter. The metal fatigue limit was assumed to equal the largest stress withstood without failure (in air and in drilling mud) for 20×10^6 cycles at $n = 3000$ revolution/min. Two specimens of each metal were machined in a hydraulic copying lathe 1A616 equipped with the SGP1 copying device, with high-speed steel blades for aluminum and the T15K6 hard alloy blades for steel D. One of the specimens was polished. The polished pipe and rod specimens tested in air showed the highest fatigue resistance. Lowering of strength by stress concentrations at structural details was investigated in pipes with a single groove and in threaded specimens. This effect was found practically equal in all aluminum alloys, and it was greater in aluminum than in steel D. With the gradual increase in static strength, the endurance limit of grooved specimens increased at a different rate. The effect of corrosion was tested in the NU assembly shown in Fig. 2 on the Enclosure, which provided for mud circulation, mixing, and the necessary insulation of machine parts from the liquid. The test installation consisted of a box (2) fixed rigidly to the machine pedestal (1), a lid (8), and a rubber-layering (7). Grooved
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ACCESSION NR: AT5004707

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textolite disks (5) are fixed to the upper part of the box (2). Rubber deflectors (3) are placed on the sample (4). They do not touch the disks (5) but protect the machine parts from the fluid. Drilling mud is supplied through the connecting pipe (6) by a centrifugal pump with an electric motor synchronized with the motor of the testing machine for a simultaneous on- and off-switching. The AV alloy showed a satisfactory resistance to corrosion, D16 was less resistant, and V95 was more resistant in the machined specimens, but lower in the polished ones. Fatigue ruptures of the alloys were all perpendicular to the axes of specimens tested in air. Those tested in fluid showed several failure centers with fractures perpendicular to axes in AV and V95 but at an angle to the axis in D16. The best combination of static load and fatigue resisting properties under working conditions was found in the D16 alloy. Orig. art. has: 25 figures, 13 tables, and 7 formulas.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy tekhniki
(Scientific Research Institute of Drilling Technique)

SUBMITTED: 27May63

ENCL: 01

SUB CODE: MM, IE

NO REF SOV: 004

OTHER: 000

Card 3/4

L 32722-65
ACCESSION NR: AT5004707

ENCLOSURE: 01

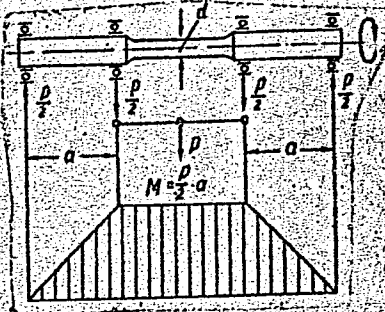


Fig. 1. Scheme for sample loading in the NU tester

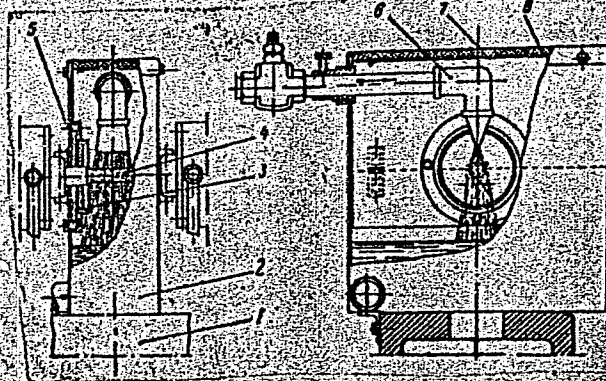


Fig. 2. Device for testing aluminum alloys in liquid

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SARKISOV, G.M.; SEMAGIN, F.K.

Investigating the static and fatigue strength of AC, D16,
and V95 aluminum alloys. Trudy VNIIBT no.12:28-47 '64. (MIRA 18:4)

SEMAGIN, V. I.

"The Application of Small Doses of Radiation in the Course of the Entire Embryonal Development."

report presented at the Conference on Influence of Ionizing Radiation upon the Higher Developed Parts of the Central Nerve System, Inst. of Higher Nervous Activity, AS USSR, # 6-10 May 1958.

ZEDGENIDZE, G.A.; KOSINSKAYA, N.S.; FANARDZHIAN, V.A.; ABDURASULOV, D.M.;
MIROLYUBOV, N.N.; SEMAGIN, V.M.

Tenth International Congress of Reontgenologists and Radiolo-
gists. *Med. rad.* 8 no.2:80-92 F'63 (MIRA 16:11)

*

SEMAGIN, V. N.

USSR/Medicine - Physiology

FD 256

Card 1/1

Author : Semagin, V. N.

Title : Simplified variation of actograph

Periodical : Fiziol.zhur. 2, 237-238, Mar/Apr 1954

Abstract : Simplified variation of an actograph for mechanical recording of behavior and activity cycle of animals is described. A diagram of the actograph and a sample actogram are presented. It is claimed that this actograph is superior to any other previously used because it is inexpensive, has greater sensitivity, and records clearly on any kind of paper. Illustrations. One USSR reference.

Institution : Laboratory of Physiology and Pathology of Higher Nervous Activity, Institute of Physiology, Academy of Sciences USSR; and Clinical Laboratory of the 72nd Naval Hospital.

Submitted : April 6, 1953

Semagin, V. N.
SEMAGIN, V. N.

Bioelectrical phenomena in muscles in space concepts. Uch.zap.
Ien. un no.185:164-167 '54. (MLRA 8:10)
(Space perception) (Muscle) (Electrophysiology)

SEMAGIN, V.N.

Second variant of a simplified actograph. Biul. eksp. biol. i med.
40 no.12:66-67 D '55. (MLRA 9:3)

1. Iz laboratorii fiziologii i patologii vysshey nernvnoy deyatel'nosti
Instituta fiziologii AN SSSR.

(PHYSIOLOGY, apparatus and instruments,
actograph for registration of various funct.)

SEMAGIN, V.N.

Device for quick washing of mixers. Lab. delo 3 no.2:55 Mr-Ap '57
(MLBA 10:5)

(MEDICAL LABORATORIES--APPARATUS AND SUPPLIES)

SEMAGIN, V. N. Cand Med Sci -- (diss) "The higher nervous activity of white rats which ~~had been~~ systematically irradiated with X-rays ^{during} ~~in~~ their embryonic period." Mos, 1959. 17 pp (Inst of Higher Nervous Activity, Acad Sci USSR), 150 copies (KL, 45-59, 150)

SEMAGIN, V.H.

Postnatal higher nervous activity in rats following daily
roentgen irradiation during the embryonic development. Med.
rad. 4 no.6:16-21 Je '59. (MIRA 12:8)

1. Iz laboratorii radiobiologii (zav. - prof.I.A.Piontkovskiy)
Instituta vysshey nervnoy deyatel'nosti AN SSSR.
(FETUS, eff. of radiation,
x-ray daily irradiation on postnatal conditioned
reflex activity in rats (Rus))
(REFLEX, CONDITIONED,
postnatal activity after daily x-irradiation
during embryonic develop. in rats (Rus))
(ROENTGEN RAYS, eff.
on postnatal conditioned reflex activity after
embryonic daily irradiation in rats (Rus))

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S/636/61/000/000/005/013
D298/D303

AUTHOR: Semagin, V.N.

TITLE: The higher nerve activity of adult rats, irradiated daily with X-rays during the embryonic period

SOURCE: Piontkovskiy, I.A. Vliyaniye ioniziruyushchego izlucheniya na funktsiyu vysshikh otdelov tsentral'noy nervnoy sistemy potomstva. Moscow, Medgiz, 1961, 79-101

TEXT: A study was conducted of the effects from small, fractionated daily doses of ionizing radiation, on the embryo to determine: 1) Whether 10 or 1 r doses cause changes of the higher nerve activity in the adult state and 2) whether the effect depends on the dose. The PYM-3 (RUM-3) X-ray apparatus, 190 kv, 15 ma, 0.5 mm copper and 1 mm aluminum filter, focal distance 3 m, 1 r/min energy - was used to irradiate the pregnant rats. Testing of the higher nerve activity, according to the Kotlyarskiy method, was started on the 42nd day of postnatal development, in three stages: a) Formation of conditional reflexes, b) work in the stereotype, c) func-

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S/636/61/000/000/005/013
D298/D303

The higher nerve activity of adult ...

tional testing: 65 female rats were irradiated, subdivided into 3 groups: 23 offspring irradiated with 10 r each, 22 - with 1 r each, and 20 control rats. Systematic irradiation of the mother rats caused a drop in the leucocyte count toward the end of pregnancy; most significantly noted in the 10 r group. No other signs of radiation sickness occurred. A statistical analysis of about 150,000 figures, obtained from the 65 rats, during formation of conditional reflexes, work in the stereotype and 6 functional tests, revealed the following facts: Difference in the higher nerve activity of rats irradiated repeatedly in the antenatal stage, as compared to normals. These differences were as follows: The irradiated animals showed changes in all the properties of the stimulation and inhibition processes. The strength of stimulation and internal active inhibition was lower. The equilibrium of stimulation and inhibition processes was destroyed, shifting toward a predominance of either stimulation or inhibition. The mobility of these processes was reduced. Thus, it is determined that systematic irradiation of rats in the embryonic period, with 10 or 1 r daily, leads to a change of the higher nerve activity in these rats during the adult stage.

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The higher nerve activity of adult ...

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S/636/61/000/000/005/013
D298/D303

This change is reflected in an impairment, weakening of all the main properties of the stimulation and inhibition processes. The relationship of the higher nerve activity changes to the applied dose could only be determined through quantitative characteristics of the stimulation and inhibition processes which, in turn, are judged from various indices of the higher nerve activity. Over 100 obtained statistical facts led to the conclusion, however, that a higher dose has a greater destructive action. The destructive effect is found to increase to a lesser degree than the irradiation dose. A comparison of several indices of the destruction degree of the higher nerve activity in rats, irradiated with a single dose, showed the former to have a much lesser destructive action. The following general conclusions were drawn: 1) Daily irradiation of pregnant rats with X-rays in doses of 10 and 1 r (total of 200 r and 20 r) causes malformations in the offspring, in about 4 - 8 % of the cases; an increased mortality in the early postnatal period, subsequent increased illness. 2) According to actographs on the 3rd week of postnatal development, the irradiated rats, as compared to the normals, showed an increased mobility and subsequent drop. A

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D298/D303

The higher nerve activity of adult ...

particularly sharp drop in the mobility is noted at the 4th week of the life. The development of mobility in irradiated rats is delayed. The 10 r dose has a greater effect than the 1 r dose. 3) The conditional reflex method points out a weakening in the force of stimulation and inhibition in adult animals, irradiated daily during the antenatal period with doses of 10 and 1 r. The equilibrium and mobility are impaired when irradiation with both 10 and 1 r doses is performed, although apparently to a lesser extent than the force of stimulation and inhibition. 4) Destruction of the connecting function was noted in all the irradiated rats: The connecting function was severely impaired in two out of 45 irradiated rats 5) A lesser number of animals with a strong higher nerve activity and a greater number of weak animals, with impaired equilibrium and inertia, were noted in the irradiated groups. 6) A lower absolute and relative brain weight, and also a thinning of the brain cortex was noted in rats, chronically irradiated antenatally. 7) The destructive action depends on the dose. The 10 r dose has a greater effect than the 1 r dose, both on the higher nerve activity as well as on the brain weight. There are 11 figures and 8 tables.

X 6

Card 4/4

SEMAGIN, V.N.

Sleep of people in Arctic regions. Fiziol.zhur. 47 no.8:950-957
Ag '61. (MIRA 14:8)

1. From the Laboratory of Physiology and Pathology of Higher Nervous
activity, I.P.Pavlov Institute of Physiology, Leningrad.
(SLEEP) (ARCTIC REGIONS)

PIONTKOVSKIY, I.A.; SEMAGIN, V.N.

Some characteristics of higher nervous activity in adult animals irradiated with ionizing radiations before birth. Report No.4: State of higher nervous activity in adult white rats irradiated daily with small doses of X-rays throughout the entire period of antenatal development. Biul. eksp. biol. i med. 52 no.11:18-22 N '61. (MIRA 15:3)

1. Iz Instituta vysshey nervnoy deyatel'nosti (dir. - chlen-korrespondent AN SSSR prof. E.A. Asratyan) AN SSSR, Moskva. Predstavlena deystvitel'nym chlenom ANM SSSR V.V. Parinym. (RADIATION SICKNESS) (NERVOUS SYSTEM) (FETUS)

SEMAGIN, V.N.

Radiobiology at the Tenth International Congress on Radiology.
Radiobiologia 3 no. 6:924-927 '63. (MIRA 17:7)

SEMAGIN, V. N.

Late changes in the higher nervous activity of rats following multiple antenatal irradiation. Radiobiologia 4 no.6:911-915 '64. (MIRA 18:7)

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

SEMANOV, V.N.

Correlation analysis of the missing function of the brain in
rats. Dokl. vys. shk. Ser. Med. Biol. Nauk, 1992-1994, 1:16-184.

(MIRA 17-12)

1. Institute of Higher Nervous Activity and Neurophysiology,
U.S.S.R. Academy of Sciences, Moscow.

L 23471-66 EWT(m)

ACC NR: AP6013996

SOURCE CODE: UR/0219/65/060/009/0043/0046

AUTHOR: Semagin, V. N. 22
B

ORG: Institute of Higher Nervous Activity and Neurophysiology/headed by Prof. E. A. Asratyan, Corresponding member AN SSSR, AN SSSR, Moscow (Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR)

TITLE: Conditioned reflexes in rats exposed to a single irradiation¹⁹ with x-rays in a dose of one r in the period of antenatal development

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 9, 1965, 43-46

TOPIC TAGS: conditioned reflex, rat, x ray irradiation, brain, biologic reproduction, radiation biologic effect

ABSTRACT: Thresholds of radiation injurious to the brain of the rat fetus were determined. On the 18th day of gravidity the abdominal wall of the animals was opened and the uterus was exposed. The rest of the body was protected by a lead shield. The uterus containing the fetus was then subjected to irradiation by x-rays in a dose of one r. After the radiation treatment the uterus was returned to the abdominal cavity and the abdominal opening was sutured. The control rats, also in a state of gravidity, were similarly treated without being subjected to irradiation. The births were natural, with eight of the animals having given birth to 53 antenatally irradiated young rats, and eight of the controls, to 62 nonirradiated young rats. At the age of 45 days the offspring of the irradiated and control

Cord 1/2

UDC: 612.825.1: 612.684.014.482-019 2

L 23471-66

ACC NR: AP6013996

rats were studied with regard to their responses to conditioned reflexes. It was found that conditioned reflexes to light and sound were stabilized at a considerably slower rate in the irradiated than in nonirradiated young rats. Further studies established a definite impairment of internal inhibition in the experimental animals as compared with the control rats. The experiments thus definitely established that irradiation of rats with x-ray doses of one r on the 18th day of embryonic development disturbs the inhibition and excitation functions of the brain of the offspring. Orig. art. has: 2 figures and 1 table. [JPRS]

SUB CODE: 06 / SUEM DATE: none / ORIG REF: 012 / OTH REF: 003

Card 2/2

L 8960-66

ACC NR: AP5026501

SOURCE CODE: UR/0286/65/000/019/0032/0032

AUTHORS: Gul'ko, L. V.; Semagina, E. P.

ORG: none

TITLE: Device for stabilizing the average value of a regulated periodic quantity.
Class 21, No. 175104.

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 32

TOPIC TAGS: automatic regulation, voltage stabilization

ABSTRACT: This Author Certificate presents a device for stabilizing the average value of a regulated periodic quantity. The device contains a nonlinear unit with saturation and dynamic sections in the direct circuit and a ripple filter in the main linear feedback circuit (see Fig. 1). To increase the accuracy of stabilizing the regulated parameter, the main feedback circuit is spanned by two limiting units whose inputs are connected through attenuators determining the cutoff level to the output of the ripple filter.

Card 1/2

UDC: 621.3.078

L 8960-66

ACC NR: AP5026501

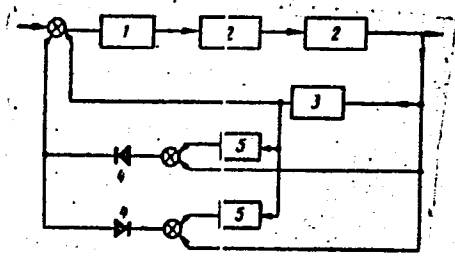


Fig. 1. 1 - Nonlinear unit; 2 - dynamic sections; 3 - ripple filter; 4 - limiting units; 5 - attenuators.

Orig. art. has: 1 (diagram.

SUB CODE: 09/ SUBH DATE: 25Jun62

BVK
Card 2/2

SEMAGO, L.L.

"Zoology made interesting." I.F. Zaianchkovskii. Reviewed by L.L.
Semago. Ist.v shkole no.3:94 My-Je '56. (MLRA 9:8)

1. Voronezhskiy gosudarstvennyy universitet.
(Zoology)

SEMAGO, L. L., Cand Biol Sci (diss) -- "The ornithofauna of the complex of field-protective forest strips and inter-strip sections of the southeast of the chernozem center, and methods of increasing its usefulness". Voronezh, 1960. 22 pp (Min Higher and Inter Spec Educ RSFSR, Voronezh State U), 150 copies (Kt, No 14, 1960, 130)

SEMAGO, L.L.

Migration of the tawny owl in Voronezh Province. Ornitologia
no.3:173 '60. (MIRA 14:6)
(Usman' region--Owls)

SEMAGO, M.I. (Moskva)

Oxygen therapy of ascariasis and trichocephaliasis. Klin.med.
38 no.3:129-130 Mr '60. (MIRA 16:7)
(OXYGEN THERAPY) (ASCARIDS AND ASCARIASIS)
(TRICHOCEPHALIASIS)

SEMAK, B.D.

Resistance to abrasion of summer dress fabrics of various fiber composition. Izv.vys.ucheb.zav.; tekhn.tekstil.prom. no.2:24-29 '63. (MIRA 16:6)

1. L'vovskiy torgovo-ekonomicheskii institut.
(Textile fabrics—Testing)

SEMIAK, B.D.

Studying the physico-mechanical properties of summer dress
fabrics of various fiber composition. Izv. vys. ucheb. zav.;
tekh. tekst. prom. no. 6:29-35 '63 (MIRA 17:8)

1. L'vovskiy torgovc-ekonomicheskii institut.

SEMAK, B.D., aspirant

Light resistance of summer dress fabrics made from synthetic
fibers. Tekst.pron. 23 no.8:76-81 Ag '63. (MIRA 16:9)

1. Kafedra tovarovedeniya promyshlennykh tovarov L'vovskogo
torgovo-ekonomicheskogo instituta.
(Synthetic fabrics--Testing)

SEMAK, B.D., assistant

Effect of finishes on the wear resistance of summer dress fabrics.
Tekst.prom. 23 no.11:79-82 N 63. (MIRA 17:1)

1. L'vovskiy torgovo-ekonomicheskij institut.

FILATOV, M.S.; SEMAK, B.D., assistant

High-quality finishing of summer dress fabrics. Tekst. prom.
24 no.4:57-58 Ap '64. (MIRA 19:6)

1. Direktor kombinata "Trekhgornaya manufaktura" imeni Dzerzhinskogo
(for Filatov), 2. Kafedra tovarovedeniya promyshlennykh tovarov L'vov-
skogo torgovo-ekonomicheskogo instituta (for Semak).

SEMAK, N.D., Assistant

Effect of the relative air humidity on some wear characteristics of
summer dress fabrics. Tekst. prom. 24 no.7:70-73 31 '64. (Lit 17:10)

1. Kafedra tovarovedeniya promyshlennykh tovarov L'vovskogo torgovo-
ekonomicheskogo instituta.

SEMAK, B.D., assistant

Testing the crease resistance of various light-weight summer dress fabrics. Tekst. prom. 24 no.9:61-63 S '64. (MIRA 17:11)

1. Kafedra tovarovedeniya promyshlennykh tovarov L'vovskogo
torgovo-ekonomicheskogo instituta.

SEMAK, B.I.; PIANICH, F.M.; PIKHOD'KO, N.V.

Effect of the relative humidity of air on the creasing of
textile fabrics. Izv. vys. ucheb. zav.; tekhn. tekst. prom.
no.6:12-14 '64. (MIRA 18:3)

1. Lvovskiy torgovo-ekonomicheskii institut.

KUSHNIR, N.K. [Kushnir, N.K.]; LEKUN, Ya.A. [Lehkun, IA.A.];
MAYCHEV, K.I.; SEMAK, B.D.

Need for a uniform all-union standard for clothing quality.
Leh. pron. no.4:27-29 O-D '65. (MIRA 19:1)

SEMAK, D., inzh.; VOL'VICH, N., inzh.

Multistory airtight building with stories for the building's
equipment. Prom.stroi.i inzh.soor. 4 no.1:15-17 Ja-F '62.
(MIRA 15:8)

(Industrial buildings) (Precast concrete construction)

41222

S/194/62/000/007/076/160
D295/D308

AUTHORS: Semak, D.G., and Chepur, D.V.

TITLE: Certain thermoelectric properties of copper iodide

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 7, 1962, abstract 7-4-69 i (Dokl. i soobshch.
Uzhgorodsk. un-t, Ser. fiz.-matem. n., no. 4; 1961,
58 - 59)

TEXT: The results of experimental investigations of the temperature dependence of conductivity and thermo-emf are reported. Compressed polycrystalline tablets were investigated, having $\sim 2 \times 10^3 \Omega$ cm resistivity at room temperature. As temperature varies from 20°C to 80°C the resistivity increases linearly by $\sim 10^3 \Omega$ cm. The temperature dependence of the thermal-emf was obtained using pressure copper electrodes. The cold electrode was at room temperature, while the temperature of the hot electrode varied from room temperature to 90°C. [Abstracter's note: Complete translation.]

Card 1/1

L 10620-65 EWT(1)/EWG(k)/EPR/REG(b)-2 Pa-6/Ps-4 AEDG(b)/IJP(c)/ASD(a)-5/SSD/
AFWL/ESD(t)/RAEM(t) AT

ACCESSION NR: AT4046105

S/3114/61/000/004/0058/0059

AUTHOR: Semak, D. G., Chepur, D. V.

TITLE: Some thermoelectric properties of cuprous iodide

SOURCE: Uzhgorod. Universitet. Doklady* i soobshcheniya. Seriya fiziko-matemati-cheskikh nauk, no. 4, 1961, 58-59

TOPIC TAGS: cuprous iodide, thermoelectric property, resistor, semiconductor, conductivity, thermocouple

ABSTRACT: This note presents some data on the thermoelectric properties of pressed semicrystalline "tablets" of cuprous iodide having a resistivity at room temperature of 2×10^3 ohm/cm. It was found that for the range 20--80C, a 1C increase in temperature lowered the resistance by 20 ohms. The thermoelectromotive force of cuprous iodide amounts to $3-5 \times 10^{-4}$ volts/degree. It was found that when the cool electrode is kept at room temperature, the thermoelectromotive force depends in a linear fashion on the temperature gradient between the electrodes, varying from 4.6 to 27.6 mv as the temperature gradient increased from 15 to 75C. Cuprous iodide may therefore be useful in the measurement of temperature gradients. Orig. art. has: 1 table.

Card 1/2

L 10620-65

ACCESSION NR: AT4046108

ASSOCIATION: Uzhgorodskiy gosuniversitet (Uzhgorod State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: SS

NO REF SOV: 000

OTHER: 000

Card 2/2

L 01054-67 ENT(1)/ENT(m)/ENT(t)/EPI IJP(c) JD/AT
ACC NR: ARG031889 SOURCE CODE: UR/0058/66/000/006/E095/E095
AUTHOR: Semak, D. G.; Chepur, D. V.; Goycr, D. B.
TITLE: Photostimulation and photoelectret state of mercury iodide single crystals
SOURCE: Ref. zh. Fizika, Abs. 6E748
REF SOURCE: Sb. Tezisy dokl. k XIX Nauchn. konferentsii. Uzhgorodsk. un-t,
1965. Ser. fiz. Uzhgorod, 1965, 47-52
TOPIC TAGS: electret, single crystal, mercury iodide, electrometer,
photostimulation
ABSTRACT: It has been found that HgJ₂ single crystals possess electret properties
at low temperatures. Investigation was carried out at 77K on single crystals of the
red modification of HgJ₂, grown from a solution in an acetone. To detect the
electret state, a standard procedure was used for measuring the polarization value
according to the initial deflection of the electrometer upon depolarization by light.
It is shown that the photoelectret properties of HgJ₂ are related to adhesion in this
compound. F. Nad'. [Translation of abstract]
SUB CODE: 20/

Card 1/1 mc

EWI(t)/EWT(t)/EWF(t)/ETI IJP(t) JD/GG

ACC NR: AR6031892

SOURCE CODE: UR/0058/66/000/006/E097/E097

AUTHOR: Magda, I. N.; Semak, D. G.; Chepur, D. V.

46
B

TITLE: The photodielectric effect of mercury iodide

27 27

SOURCE: Ref. zh. Fizika, Abs. 6E765

REF SOURCE: Sb. Tezisy dokl. k XIX Nauchn. konferentsii. Uzhgorodsk. un-t., 1965, Ser. fiz. Uzhgorod, 1965, 72

TOPIC TAGS: photodielectric effect, dielectric constant, space charge, grain boundary; mercury iodide

ABSTRACT: The photodielectric effect has been detected in HgJ_2 . When HgJ_2 placed as a dielectric between capacitor plates was illuminated, an increase in dielectric constant ϵ was observed. At low temperature this change is maintained with time, and with decrease in temperature value ϵ itself decreases only slightly. It is supposed that in HgJ_2 the photodielectric conductivity is linked to the formation of the space charge on the grain boundaries owing to the electron localization in the traps.

SUB CODE: 20, 09/

Card 1/1 *exp.*

POLIKARPOV, B.A.; SEMAK, E.F.

Foundry shop practice in working with investment patterns.
Sel'khozmaschina no.10:26-27 0 '57. (MLRA 10:9)

1. Noginskiy zavod toplivnoy apparatury.
(Precision casting)

1. SEMAK, I. L., PODLUTSKIY, N. P.
2. USSR (600)
4. Bagasse
7. Feeding cattle on sugar beet pulp. Sov. zootekh. 8, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

MOVCHAN, I.;SEMAK, I., kandidat sel'skokhozyaystvennykh nauk.

Fattening sheep on bagasse. Mias. ind. SSSR no.2:32 '57. (MLRA 10:5)

1. Direktor Pervuhinskogo otkormochnogo punkta (for Movchan).
(Bagasse) (Sheep--Feeding and feeding stuffs)

Semak I. L

Q-2

USSR/Farm Animals. Cattle

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35661

Author : Semak I.L.

Inst : Not Given

Title : The Influence of Diethylstilbestrol on the Increase of Meat Production in Young Cattle (Gliyeniye dietilstilbestrola na povysheniye myasnoy produktivnosti molodnyaka)

Orig Pub : Zhivetnovodstev, 1957, No 5, 54-55

Abstract : Three groups of calves, composed of 7 heads each, were fed wet beet pulp (per head, daily, in kg.) as follows: 1st group 46.0; 2nd group, 39.5; 3rd group, 40.7; diethylstilbestrol was administered (in mg.) as follows: 12, 8, 0, respectively. The other feeds (roughages, concentrates, and molasses) were given in equal amounts to all animals. The calves of the 1st group increased their weight gain by 19 kg., and those of the 2nd one, by 10 kg., as compared with the 3rd group. The slaughter output of meat was 45.7, 44.8, and 44.4% in the 1st, 2nd, and 3rd group, respectively, and the fat output was 3.1, 3.0, and 3.8% respectively.

Card : 1/1

SEMAK I. [4]

USSR / Farm Animals. Cattle.

Q-2

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54767.

Author : Semak, I.

Inst : Not given.

Title : The Rearing and Fattening of Young Cattle.

Orig Pub: Kolkhoznoye proiz-vo, 1957, No 12, 23-25.

Abstract: No abstract.

Card 1/1

SEMAK, I.L., kand.sel'skokhoz.nauk; MAKSAKOV, V.Ya., kand.sel'skokhoz.nauk;
MOSOLOV, N.I., kand.sel'skokhoz.nauk

Summer fattening of young cattle on corn silage. Zhivotnovodstvo
24 no.5:29-32 My '62. (MIRA 16:10)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva lesostepi i
Poles'ya UkrSSR.

MOSOLOV, N.I.; SEMAK, I.L.; MAKSAKOV, V.Ya.; US, L.A.

Effect of the type of feeding of young cattle on the thyrotropic and gonadotropic functions of the hypophysis. Nauch. dokl. vys. shkoly; biol. nauki no.1:79-83 '64. (MIRA 17:4)

1. Rekomendovana otdelom kormleniya sel'skokhozyaystvennykh zivotnykh Nauchno-issledovatel'skogo instituta zhitovnovodstva Lesostepi i Poles'ya.

SEMAK, I.L., kand. sel'khoz. nauk; MAKSAKOV, V.Ya., kand. sel'khoz. nauk; GROMOVA, A.V., red.

[Intensive fattening of cattle on succulent feeds] Intensivnyi otkorm krupnogo rogatogo skota na sochnykh kormakh. Moskva, Sel'khozizdat, 1963. 150 p.
(MIRA 17:12)

L 06328-67 EWT(d)/EWT(m)/EWP(c)/EWP(k)/EWP(h)/EWP(l)/EWP(w)/EWP(f)/EWP(v)/EWP(t)/
AGC NR: AR6013835 (A, N) SOURCE CODE: UR/0276/65/000/011/B053/B053

AUTHOR: Semak, I. T. ETI IJ? (c) EM/DJ/JD/HW

TITLE: Surface rolling of airplane chassis parts to increase wear resistance

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11B341

REF SOURCE: Sb. Uprochn. detaley mashin mekhan. naklepyvaniyem. M., Nauka, 1965, 170-173

TOPIC TAGS: surface hardening, metal rolling, bronze / BrOTs6-6-3 bronze

ABSTRACT: The effectiveness of surface hardening of parts by rolling to increase their resistance to wear was investigated under industrial conditions. During the design of friction couples it is recommended to choose the materials according to the operating conditions—high specific loads, low sliding velocities, insufficient or complete lack of lubrication. Chrome plating of the more expensive parts is practical because the wear of chrome-plated shafts is insignificant. Roller hardening of machine parts working under seizure conditions can have significant effects if the correct rolling regime is used. The roller hardening effectiveness depends on the load applied to the roller and the roller shape

Card 1/2

UDC: 621.787.4:621.81

L 06328-67

ACC NR: AR6013835

2

(specific pressure). Increasing the roller profile radius under the same loading conditions decreases the hardening effectiveness. Very high loads on a small profile radius also decrease the effectiveness. The optimum loads on a roller for bronze BrOTsS-6-6-3 are in the range 100-140 kg at a profile radius of 5 mm. 2 illustrations. Bibliography of 7 titles. Translation of abstract

SUB CODE: 13

Card 2/2 MLE

SEMAK, V.I.

Indian mustard in Ozak Province. Zemledelie 26 no.2:71
F '64. (MIRA 17:6)

1. Sibirskaya opytная stantsiya Vsesoyuznogo ordena Trudovogo
Krasnogo Znameni nauchno-issledovatel'skogo instituta maslichnykh
i efiromashlichnykh kul'tur.

SEMAK, V.S., slesar'

Results of an efficient organization of work. Bezop.truda v
prom. 6 no.4:32 Ap '62. (MIRA 15:5)

1. Vneshtatnyy tekhnicheskiy inspektor Dnepropetrovskogo oblastnogo
soveta professional'nykh soyuzov.
(Nikopol' region—Ore dressing)

SEMAKA, A.

A history of coal research from the remotest times to 1900.
Rev min 13 no.2:83-86 F '62.

SEMAKA, A.

History of coal research from the most ancient times up to
1900. Pt. 2. Rev min 13 no.3:123-127 Mr '62.

ILIESCU, O.; SEMAKA, A.

Contributions to the knowledge of the Rhaetian-Lias in the vicinity of Mehadia. Dari seama sed 48:113-119 '60/61 [publ. '62].

SEMAKA, A.

On the Bigar (Banat) Rhaetic. Dari seama sed 45 173-176 '57/58
[publ. '62].

SEMAKA, A.

Observations on the Toarcian-Aalenian flora in Banat.
Dari seama sed 46:225-237 '58/59 [publ. '62].

OARCEA, C.; SEMAKA, A.

Lias flora in the Anina collection. Dari seama sed 46:
239-244 '58/59 [publ. '62].

SEMAKA, A.

Observations on the Paleozoic and Mesozoic floras in the
Danubian area of Banat. Dari soama sed 47:309-321 '59/60
[publ. '62].

SEMAKA, A.

Special geological compass used in microtectonic studies.
Rev min 14 no.11:510-512 N'63.

SEMAKA, A.

Reconsideration of the Zamites schmiedelii Sternberg
group. Dari seama sed 46:93-99 58/59 [publ. '62].

Semake, A.

Mellostrobos n. G. (Coniferales) in the Aalenian deposits in Doman, Banat. p.215.

STUDII SI CERCETARI DE GEOLOGIE. Bucuresti, Rumania: Vol. 3, No. 3/4, 1958..

Monthly List of East European Accessions (MEAI) LC, Vol. 9, No. 1, Jan. 1960

Uncl.

SEMAKHIN, D.M.

Transplanters for sugar-beet state farms. Sakh.prom. 33 no.9:
62-64 S '59. (MIRA 13:1)

1. Kiyevskiy sovarkhoz.
(Sugar beets) (Farm equipment)

SEMAKHIN, D.M.

Mechanized conveyor line for conditioning sugar-beet seeds.
Sakh. prom. 35 no.2:59-60 F '61. (MIRA 14:3)
(Sugar beets)

SEMAKHIN, D.M.

Diagrams for early thinning and cultivation of sugar beet sprouts.
Mekh. sil'. hosp. 13 no.4:9-11 Ap '62. (MIRA 17:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii
i elektrifikatsii sel'skogo khozyaystva.

SENAKIN, A. M.

Senakin, A. M. "On the treatment of infections of the nervous system in the Varski-Yatchi Health Resort of Udmurt A.S.S.R.," Trudy Meditsinskaya (Izhev. gos. med. in-t), Vol. VII, 1949, p. 254-58

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949)

SEMAKIN, N. K.

Visual observations of variable star UX Draconis. Per. zvezdy
9 no. 1:73-75 S'52. (MIRA 8:10)

1. Astronomicheskaya observatoriya (Kuybyshev)
(Stars, Variable)

SEMOKIN, N. K.

Rabota s astronomicheskim kruzhkom [Work with an astronomy study group]. Moskva, Uchpedgiz, 1953. 56 p.

SO: Monthly List of Russian Accessions, Vol 6 No 6 September 1953

Senakin, I. I.

"IX Cygni," *Turkmenyevskiy*, No 5, 1953, pp. 345

Analysis of photographs of the Moscow collection did not reveal a star of 11^m - 12^m on the spot marked by Ross. Therefore the existence of this star is dubious. (*RZhAstr*, No 9, 1954)

SO: W3118, 11 Jan 55

BERLIN, J. H., IX Cygni

Analysis of photographs of the Moscow collection did not reveal a star of
11^m - 12^m on the spot marked by Ross. Therefore the existence of this star is
dubious. (IzVest, No 9, 1954)

SO: W-31128, 11 Jan 55

SEMAKIN, N.K.

MX Cygni. Per.zvezdy 9 no.5:344-345 Je '54. (MLRA 7:8)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shtern-
berga.
(Stars, Variable)

SEMAKIN, N.K.

Visual observations of variable stars in 1949 and 1950. Per.zvezdy
10 no.1:52-54 Ja '54. (MLRA 8:2)

1. Kuybyshevskoye otdeleniye VAGO.
(Stars, Variable)

SEMAKIN, N.K.

Photographic observations of TV Camelopardalis. Per.zvezdy 10
no.1:63-6; Ja '54. (MLRA 8:2)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shtern-
berga.
(Stars, Variable)

SEMAKIN, N.K.

Studying 16 stars of the Mira Ceti type. Per.zvezd. 10 no.2:
100-115 Je '54. (MLBA 8:9)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shtern-
berga.

(Stars, Variable)

SEMAKIN, N. K.

Study of seven Mira-type stars. Per.zvezdy no.10:164-170 0'54.
(MIRA 8:12)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shtern-
berga

(Stars, Variable)

SEMAKIN, N. K.

Photographic observations of RW Cephei. Per. zvezdy 10 no.3:191-
192 0'54. (MIRA 8:12)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga
(Stars, Variable)

SEMAKIN, N.K.

Area set aside for the study of astronomy in schools. Fiz. v
shkole 14 no.3:37-41 My-Je '54. (MIRA 7:7)

1. 24-ya srednyaya shkola, g. Kuybyshev.
(Astronomy--Study and teaching)

USSR/Astronomy - Almanacs

Card 1/1 Pub. 86-30/33

Authors : Semakin, N. K.

Title : Soviet Astronomical Almanacs

Periodical : Priroda 43/11, 123-124, Nov 1954

Abstract : A description is given of some of the features of the astronomical almanacs published by various astronomical institutions throughout the Soviet Union. Some of these contain information equal to that found in textbooks and can be used for classroom work. Eight Russian references (1953-1954).

Institution : ...

Submitted : ...

SEMAKIN, N.K.

Photographic observations of twelve variable stars in Lacerta.

Per. zvezdy 10 no.5:283-291 '55.

(MLRA 9:9)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga,
Moskva.

(Stars, Variable)

SEMAKIN, N.K. (g.Moskva)

A year's work with astronomical visual aids. Fiz. v shkole 15
no.1:80-81 Ja-F '55. (MLRA 8:2)
(Astronomy--Audio-visual aids)

SEMAKIN, Nikolay Kuz'mich; DROZHZHIN, Yu.N., redaktor; RYBIN, I.V., tekhnicheskii redaktor.

[Teaching astronomy] Iz cpyta prepodavaniia astronomii. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956.
84 p. (Astronomy--Study and teaching) (MLRA 9:5)

SEMAKIN, N.K.

Study of NZ Cygni. Per. zhurny 11 no.2:131-134 Ap '57. (MLRA 10:7)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.
(Stars, Variable)

SEMAKIN, N.R.

Actinometric observations during the solar eclipse of February 25,
1952. Bin.VAGO no.20:32-36 '57. (MLRA 10:8)

L.Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo
obshchestva.

(Eclipses, Solar--1952)
(Solar radiation)

SEMAKIN N.K.

PHASE I BOOK EXPLOITATION 707

Tsentral'naya stantsiya yunykh tekhnikov, Moscow

Mezhdunarodnyy geofizicheskiy god, 1957-1958; bibliograficheskaya pamyatka kruzham yunykh uchastnikov MGG (International Geophysical Year, 1957-1958; a bibliographical booklet for groups of young participants in the I.G.Y.) [Moscow, 195-] 9 p. 1,500 copies printed.

Ed.: Stakhurskiy, A. Ye.

PURPOSE: The present bibliography was prepared for the scientist, technician, and amateur, on the pre-graduate level, participating in the program of the International Geophysical Year.

COVERAGE: The bibliography, published by the Central Station of Young Technicians (Tsentral'naya stantsiya yunykh tekhnikov), contains 169 titles of monographs and articles arranged in the following categories: general problems of geophysics and related subjects; manuals; problems and programs of the IGY; research in hydrology and glaciology during the IGY; study of the Arctic and Antarctic during the IGY; studies of the atmosphere, and meteorological observations during the IGY; literature on space rockets and artificial satellites; methods used in amateur scientific observations in astronomy and geophysics; atlases. The literature, all published prior to October 1, 1957, is designed

Card 1/2

International Geophysical Year, 1957-1958 (Cont.)

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to acquaint the reader with IGY's research programs, some of the equipment and methods used, and the results obtained thus far. Most of the books and periodicals, it is pointed out, may be obtained from libraries only, and are not available at bookstores. The list was compiled by N. K. Semakin. A brief introduction lists the various fields of activity of the IGY, emphasizing Soviet participation and contributions; e.g. one third of all observatories participating are Soviet. Last page lists books published and to be published by the Central Station of Young Technicians which works in close cooperation with the Interdepartmental Committee of the International Geophysical Year, and which coordinates, collects, and processes the observations obtained by the amateur circles.

AVAILABLE: Library of Congress

Card 2/2

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10-21-58

SEMAKIN, N.K.; VORONTSOV-VEL'YAMINOV, B.A., prof., red.; GUS'KOV, G.G., red.; NOVOSELOVA, V.V., tekhn.red.

[Teaching astronomy in schools; collected articles] Prepodavanie astronomii v shkole; sbornik statei. Pod red. B.A.Vorontsova-Vel'iaminova. Moskva, 1959. 269 p. (MIRA 13:2)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov obucheniya. 2. Laboratoriya metodiki fiziki Instituta metodov obucheniya Akademii pedagogicheskikh nauk RSFSR i Shkola No.500 g. Moskvy (for Semakin). 3. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR i Pedinstitut imeni V.P.Potemkina, g.Moskva (for Vorontsov-Vel'yaminov).

(Astronomy--Study and teaching)

POKROVSKIY, A.A., kand.pedagog.nauk, starshiy nauchnyy sotrudnik;
BUROV, V.A., uchitel'; GLAZYRIN, A.I., starshiy nauchnyy sotrudnik,
pensioner; DUBOV, A.G., starshiy nauchnyy sotrudnik; ZVORYKIN, B.S.,
nauchnyy sotrudnik; KAMENETSKIY, S.Ye., uchitel'; KOSTIN, G.N., pre-
podavatel'; MIRGORODSKIY, B.Yu., uchitel'; OREKHOV, V.P., prepoda-
vatel'; ORLOV, P.P., prepodavatel'; RAZUMOVSKIY, V.G., aspirant;
RUMYANTSEV, I.M., aspirant; TEREENT'YEV, M.M., prepodavatel';
KHOLYAPIN, V.G., prepodavatel'; SHAKHMAYEV, N.M., nauchnyy sotrudnik,
uchitel'; VOYTENKO, I.A., uchitel' sredney shkoly, pensioner; STA-
ROSTIN, I.I., prepodavatel'; MOGILKO, A.D., aspirant; SEMAKIN, N.K.;
KOPTSEKOVA, L.A., red.; LAUF, V.G., tekhn.red.

[New school equipment for use in physics and astronomy] Novye
shkol'nye pribory po fizike i astronomii. Pod red. A.A.Pokrovskogo.
Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1959. 161 p. (MIRA 12:11)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov
obucheniya. 2. Laboratoriya metodiki fiziki Instituta metodov obuche-
niya Akademii pedagogicheskikh nauk RSFSR (for Pokrovskiy). 3. Sred-
nyaya zheleznodorozhnaya shkola st.Kratovo, Moskovskoy oblasti (for
Burov). 4. Institut metodov obucheniya Akademii pedagogicheskikh nauk
(for Glazyrin, Dubov, Razumovskiy, Rumyantsev).

(Continued on next card)

POKROVSKIY, A.A.---(continued) Card 2.

5. Institut metodov obucheniya Akademii pedagog.nauk; srednyaya shkola No.315 Moskvy (for Zvorykin). 6. Srednyaya shkola No.212 Moskvy (for Kamenetskiy). 7. Krasnodarskiy pedinstitut (for Kostin). 8. Srednyaya shkola No.18 g.Sumy (for Mirzorodskiy); 9. Ryazanskiy pedinstitut (for Orekhov). 10. Stalingradskiy pedinstitut (for Orlov)..11. Moskovskiy gorodskoy pedinstitut; srednyaya shkola No.443 Moskvy (for Terent'yev). 12. Balashevskiy pedinstitut (for Kholyapin). 13. Institut metodov obucheniya Akademii pedagog.nauk; srednyaya shkola No.215 Moskvy (for Shakhmayev). 14. Moskovskiy pedinstitut im. V.I.Lenina (for Starostin). 15. Pedinstitut im. V.I.Lenina v Moskve (for Mogilko). 16. Zaveduyushchiy narodnoy astronomicheskoy observatoriyey Dvortsa kul'tury Moskovskogo avtozavoda im. Likhacheva (for Semakin).

(Physical instruments)

Semakin, N.K.

PHASE I BOOK EXPLORATION

SOV/1654

Teoricheskoye astronomo-geodesicheskoye obshchestvo

Astronomicheskiy kalendar' 1960 (Astronomical Calendar, 1960) Moscow, Izdatel'stvo, 351 p. (Series: 131; Yezhegodniki: Pervennyya chisla, Yp. 63) 7,000 copies printed.

Ed.: I. Ye. Bablitskiy; Tech. Ed.: S.N. Anisimov; Editorial Board: P.I. Bakulin (Resp. Ed.), M.M. Danyev, S.G. Kalugin, A.G. Maslovich, P.P. Pervennyy.

REMARKS: The book is intended for astronomers and geophysicists and physicists interested in astronomical phenomena.

COMMENTARY: This yearbook on astronomy was compiled by a number of Soviet specialists participating in several different branches of astronomy.

The following persons participated in the work: L.D. Korshakov, who wrote the chapters on epicycles of the Sun and Moon; M.M. Danyev, who wrote the chapters on planets, ellipses, physical coordinates of the Sun, Moon, Mars, and Jupiter, and the satellites of Jupiter and Saturn; V.S. Latshevskiy, the chapters on epicycles and heliocentric longitudes of planets; Ye.G. Seidits, the chapters on occultation of stars and planets by the Moon, observations of Polaris and computation of coordinates of stars; V.A. Bronshteyn, the chapters on recent developments, sections on minor planets; and N.B. Perova, the chapters on variable stars. The appendices contain articles on recent developments in astronomy such as the launching of the first Soviet space rocket, the 10th Congress of the International Astronomical Union, held in Moscow in August 1960, the International Astronomical Union, held in Moscow in August 1960, and the International Astronomical Union, held in Moscow in August 1960. In 1958 during the XV. There are 385 references, all Soviet.

Frank-Kamenetskiy, D.A. Discussion on the Origin of Elements 237

Laykin, G.A. Symposium on the Hertzprung-Russell Diagram 240

Shchegolev, P.Z. Electron Telescopes 247

Bronshteyn, V.A. The Fifth Assembly of the Special Committee on the International Geophysical Year 252

Maslovich, A.G. Visits to Observatories in the United States 262

Semakin, N.K. The People's Observatory of the Plant Lenin Lithachov 284

Sakharovskiy, L.T. "Eternal" Calendar with Table of Lunar Phases 292

Perel', Yu.G. 30th Anniversary of Galileo's Discoveries with the Telescope 308

Perel', Yu.G. Anniversaries in Soviet and World Astronomy in 1960 313

Astronomy (compiled by Yu.G. Perel') 330

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