

PETROV, V.S.

Structural changes in articular cartilages, epiphyses, the meniscus, ligamentary apparatus and the capsule of the knee joint following peripheral nerve lesions. Ortop.travm. i protez. 18 no.6:11-14  
N-D '57. (MIRA 11:4)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. P.V.Simpvskiy) Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey in. S.M.Kirova (dir. - prof. N.I.Blinov)

(LEG, innerv.

exper. lesions causing changes of articular cartilages, epiphyses, meniscus, ligamentary appar. & capsule of knee in rabbits)

(KNEE, pathol.

changes of articular cartilages, epiphyses, meniscus, ligamentary appar. & capsule of knee after exper. lesions of peripheral nerves in rabbits)

USSR/Human and Animal Physiology - (Normal and Pathological). I  
Physiology of the Skeleton.

Abs Jour : Ref Zhur Biol., No 4, 1979, 17849

Author : Petrov, V.S.

Inst : -

Title : Roentgen-Morphological Investigation of Peculiarities of Calcium Exchange of Osseous Tissue under the Conditions of Disturbance of Its Innervation.

Orig Pub : Vestn. Khirurgii, 1957, 79, No 10, 40-47, 157

Abstract : In rabbits with dissection of the sciatic nerve in a roentgenological investigation in the bones of knee joint, regular regionary osteoporosis was discovered approximately between the 25-31st days of the experiment. Between the 109-120th days, the initial osteoporosis passed over into the next expressed stage of its development (remaining regular and regional). In experiments with the dissection of sciatic-femoral and obturator

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... .. In other experiments after sewing-in of silk ligatures into the sciatic, femoral and obturator nerves, roentgenological and microscopical changes in the bones of knee joint emerged in a sharper form and earlier than in the first series of experiments. However, the character of these changes in all three series was similar. Consequently, independently on the character of injury of peripheral nerves in the femoral and tibial bones, monotype neurotropic changes occurred. To the early changes belonged an increase of staining of

Card 2/3

GOL'DIN, L.S.; PETROV, V.S.

A method for embedding histological material in methacrylate. Biofizika  
5 no.3:375-378 '60. (MIRA 13:7)

1. Psikhonevrologicheskiy institut im. V.M. Bekhtereva, Leningrad.  
(HISTOLOGY) (METHACRYLIC ACID)

PETROV, V.S.

Effect of phosphacol on certain structural elements of the blood  
in rabbits according electron microscope data. Farm.i toks. 24  
no.1:88-94 Ja-F '61. (MIRA 14:5)

1. Laboratoriya elektronnoy mikroskopii (zav. - doktor meditsinskikh  
nauk L.S.Gol'din) Nauchno-issledovatel'skogo psikhonevrologicheskogo  
instituta imeni V.N.Bekhtereva.  
(PARASYMPATHOMIMETICS) (PHOSPHATES)  
(ERYTHROCYTES)

MYASISHCHEV, V.N.; GOL'DIN, L.S.; PETROV, V.S.; BOBKOVA, V.V. (Leningrad)

Changes in the cerebral cortex of white rats following some pathological effects. Arkh.pat. no.1:70-78 '62. (MIRA 15:1)

1. Iz laboratorii elektronnoy mikroskopii (zav. L.S. Gol'din)  
Psikhonevrologicheskogo instituta imeni V.M. Bekhtereva (dir. -  
prof. V.N. Myasishchev).

(CEREBRAL CORTEX)

S/205/62/002/005/012/017  
D243/D307

AUTHOR: Petrov, V.S. .

TITLE: Electrophysiological and electron-microscopic investigation of some peculiarities of early damage of nervous tissue by x rays

PERIODICAL: Radiobiologiya, v. 2, no. 5, 1962, 732 - 740

TEXT: A complex electroencephalographic, electron-microscopic and light-microscopic investigation was made to detect early morphological changes in nervous tissue and their part in functional brain disturbances as recorded on an EEG. Data on this subject were stated to be few, contradictory and noncomparative. 15 full grown white rats, weight 200 - 250 g, received a 600 r dose, at 12.7 r/min. from a RUM-3 (RUM-3) apparatus. Electrical activity of the brain was recorded before radiation, then after 30 - 60 min. and after 24 hours, by needle electrodes on the frontal, central and occipital regions of both hemispheres. Records of cardiac and respiratory activity were made at the same time. The animals were bheaded 24 hours after radiation. Sections of cortical and hypothalamic tissue, Card 1/3

Electrophysiological and ...

S/205/62/002/005/012/017  
D243/D307

after fixation by G.M. Palade's method, were prepared for examination under electron-microscopes EM-5 (EM-5) and JEM-5A and light microscopic investigations of the brain and internal organs were made. 30 - 60 min. after irradiation, the amplitude of the dominant cortical rhythm rose from 20 - 70 to 24 - 100 mkv, particularly in the frontal and central regions, without a change of frequency. The  $\alpha$ -rhythm became more pronounced. The amplitude of the EEG 'R' wave almost doubled (75 - 90 mkv), with no frequency change, and that of the respiratory waves increased from 70 - 75 to 100 - 110 mkv, the frequency falling to 1.5/sec. or becoming irregular. After 24 hours the amplitude of the EEG potentials remained at 30 - 80 mkv., with a slight fall in frequency. The EEG 'R' wave was still 70 mkv., with frequency unchanged, and the amplitude of the respiratory waves oscillated to 200 mkv. This increased electrical activity was accompanied by disorganization of mitochondrial structure (swelling, vacuolization, breakdown) and of the structure of ergastoplasmic, nuclear and vessel membranes, by aggregation and regrouping of the granules of the nucleolus in the cytoplasm, nuclei and nucleoli of the neurones, glial cells, nerves and blood vessels of the cortex and hypothalamus. The disruptions of neurone, glial cell, Card 2/3

Electrophysiological and ...

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D243/D307

nerve and blood vessel structure, detectable by the electron microscope, can be regarded as the first changes in the brain after radiation. The key role of the mitochondria, highly vulnerable to radiation, in these disturbances, is stressed. There are 5 figures.

ASSOCIATION: Nauchno-issledovatel'skiy psikhonevrologicheskiy institut im. V.M. Bekhtereva, Leningrad (Scientific Research Psychoneurological Institute im. V.M. Bekhterev, Leningrad)

SUBMITTED: October 20, 1961

Card 3/3



PETROV, V.S. (Leningrad, S-19, ul. Bekhtereva, l. komnata 59)

Electron-microscope study of some structural characteristics of  
blood vessels of the central nervous system and autonomic  
nerve ganglia. Arkh. anat., gist. i embr. 45 no. 10:29-35 0 '63.  
(MIRA 17:9)

1. Laboratoriya elektronnoy mikroskopii (zav. - doktor med.  
nauk L.S.Gol'din) Gosudarstvennogo nauchno-issledovatel'skogo  
psikhonevrologicheskogo instituta imeni V.M.Bekhtereva, Leningrad.



NIKOLAYEV, N.I., otv. red.; LENSKAYA, G.N., zam. otv. red.; PASTUKHOV, B.N., zam. otv. red.; FENYUK, B.K., zam. otv. red.; ISHUNINA, T.I., red.; AKIYEV, A.K., red.; DOMARADSKIY, I.V., red.; DRCZHEVKINA, M.S., red.; ZHOVTYY, I F., red.; KOROBKOVA, Ye.I., red.; KRAMINSKIY, V.A., red.; KRATINOV, A.G., red.; LEVI, M.I., red.; LOBANOV, V.N., red.; MIRCNCV, N.P., red.; PETROV, V.S., red.; PLANKINA, Z.A., red.; PYPINA, I M., red.; SMIRNCV, S.M., red.; TER-VARTANOV, V.N., red.; TIFLOV, V.Ye., red.; FEDOROV, V.N., red.; PARNES, Ya.A., red.; PRONINA, N.D., tekhn. red.

[Especially dangerous natural focus infections] Osobo opasnye i prirodnoochagovye infektsii; sbornik nauchnykh rabot protivochumnykh uchrezhdenii. Moskva, Medgiz, 1962. 271 p.

(MIRA 16:5)

(COMMUNICABLE DISEASES)

PETROV, Viktor Semenovich; BELYAKOVA, Ye.V., red.; KOZLOVA, T.A.,  
tekh. red.

[Precious and semiprecious stones] Dragotsennye i tsvetnye  
kamni. Moskva, Izd-vo Mosk. univ., 1963. 134 p.

(MIRA 16:3)

(Precious stones) (Stone)

PETROV, V.S.

Genetic relationship between diamonds and carbonates found  
in kimberlites. Vest.Mosk.un.Ser.biol., pochv., geol., geog.  
14 no.2:13-20 159. (MIRA 13:4)

1. Kafedra kristallografi i kristallokhimii.  
(Diamonds)

PETROV, V.S.; NIKITIN, O.T.

Study of the stable carbon isotopes in kimberlites. Vest.Mosk.un.  
Ser.4:Geol. 17 no.3:51-53 My-Je '62. (MIRA 15:6)

1. Kafedra kristallografii i kristallokhimii Moskovskogo  
universiteta.

(Carbon--Isotopes) (Kimberlite)

L 11142-66 EWP(e)/EWT(m)/EWP(h) WH

ACC NR: AP6000022

SOURCE CODE: UR/0368/65/003/005/0415/0420

AUTHOR: Malyshev, V. I.; Markin, A. S.; Petrov, V. S.

ORG: none

TITLE: Investigation of emission in extra-axial directions in cylindrical specimens of neodymium glass

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 5, 1965, 415-420

TOPIC TAGS: neodymium, optic glass, solid state laser, laser emission

ABSTRACT: This paper gives the results of a systematic experimental investigation of laser emission in extra-axial directions. The specimens were cylindrical and square glass rods with semi-reflecting ends and highly polished lateral surfaces. Optically uniform neodymium glass was used. Emission on a wavelength of  $1.06 \mu$  was recorded both photoelectrically and photographically. Distribution of radiative energy on the end of the specimen takes the form of rings, with no emission in the axial modes at pumping energies slightly higher than the emission threshold value (20%). Increasing the pumping energy leads to the appearance of more rings with a different emission threshold for each of them. Emission was observed at considerable angles to the axis of the specimens (up to  $70^\circ$ ). When the lateral surfaces of the specimens were properly finished, no axial emission was observed even when the pumping energy exceeded

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UDC: 535.89

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ACC NR: AP6000022

the emission threshold by a factor of three. The actual path of the beam within the specimen was determined by studying the distribution of radiative energy in the near and far zones. It was found that the beam follows a closed three-dimensional path within the laser. The time relationship between various points in the far zone was also studied. "In conclusion we thank P. A. Bashulin for constant interest in this work, and S. G. Rautian for useful consultation." Orig. art. has: 2 figures and 2 formulas. [14]

SUB CODE: 20/

SUBM DATE: 23Feb65/

ORIG REF: 004/

OTH Ref: 003

ATD PRESS: 4173

BC  
Card 2/2



PETROV, V.S. (Leningrad, S-19, ul. Bekhtereva, 1, komnata 59)

Electron microscopic characteristics of synaptic endings in the cortex, thalamus and hypothalamus of the brain. Arkh. anat., gist. i embr. 48 no.1:22-31 Ja '65. (MIRA 18:11

1. Laboratoriya elektronnoy mikroskopii (zav.- doktor med. nauk L.S. Gol'din) Nauchno-issledovatel'skogo psikhonevrologicheskogo instituta imeni Bekhtereva, Leningrad. Submitted July 15, 1967

CHIBRIKOV, V.I.; PETROV, V.T.

Selection of crude for the production of BN-IIIY bitumen. Nefteper.  
i neftekhim. no.10:16-18 '63. (MIRA 17:2)

1. Novokuybyshevskiy neftepererabatyvayushchiy zavod.

1. PETROV, V. T.
2. USSR (600)
4. Oaks
7. Development and rate of growth of young stands of oak in the steppe zone.  
Les. khéz. 5 no. 10, 1952

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

PETROV, V.V.; BRODSKIY, M.V.; SHOSHENKOV, V.D.

Basis for the selection of a system of automatic channel  
switching of radio links. Elektrosviaz' no.11:25-33 N '56.  
(MLRA 9:12)

(Radio relay systems)

6(4)

PHASE I BOOK EXPLOITATION SOV/2322

Borodich, S.V., N.I. Kalashnikov, A.M. Model', S.D. Manayenkov,  
and V.V. Petrov

Radioreleynyye linii svyazi (Radio Relay Networks) Moscow, 1957.  
36 p. (Series: Obzory po novoy tekhnike. Energetika) Errata  
slip inserted. 3,000 copies printed.

Sponsoring Agencies: USSR. Gosudarstvennyy komitet po novoy  
tekhnike, and Akademiya nauk SSSR. Vsesoyuznyy institut  
nauchnoy i tekhnicheskoy informatsii.

Ed.: V.I. Siforov, Corresponding Member, USSR Academy of Sciences.

PURPOSE: This booklet may be useful to engineering personnel  
working with radio relay systems.

COVERAGE: The authors discuss radio relay lines existing in the  
USSR and abroad. They also describe the utilization of tro-  
pospheric scattering of radio waves in radio and television  
broadcasting. There are 10 references: 2 Soviet (both trans-

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Radio Relay Networks

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lations) and 8 English.

TABLE OF CONTENTS:

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Brief characteristics of radio relay communication	3
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ПЕТРОВ, В. В.

TRANSMISSION

"Remote Signalization and Remote Control over Radio Relay Lines", by M.V. Brodskiy, V.V. Petrov, G.D. Novspasskiy, and V.F. Zatselin, Elektrosvyaz', No 8, August 1957, pp 26-31.

Brief presentation of the fundamental principles of the construction of automation, remote-control, and remote-signalization circuits for the presently designed radio R-60 and "Vesna", relay lines with a number of trunks up to 2.5. The operation of the relay remote-control and remote-signalization circuits in the main and intermediate stations is analyzed.

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- 56 -

BRODSKIY, Mikhail Valentinovich; PETROV, Viktor Vasil'yevich; PRONIN,  
F.A., otv.red.; PETROVA, V.Ye., red.; MARKOCH, K.G., tekhn.red.

[Automation of radio relay lines] Avtomatizatsia radioreleinykh  
linii. Moskva, Gos.izd-vo lit-ry po voprosam svyazi i radio,  
1960. 49 p. (MIRA 14:1)

(Radio relay systems)



S/019/60/000/018/164/170  
A152/A029

AUTHORS: Petrov, V.V.; Karpov, Yu.P.

TITLE: A Device for Measurement the Burning-Out Time of Rod-Shaped Fuses

PERIODICAL: Byulleten' izobreteniy, 1960, No. 18, p. 76

TEXT: Class 721, 1<sub>01</sub>. No. 132100 (650635/40 of January 13, 1960). This device for measuring the time of burning-out of rod-shaped fuses fitted with a delaying substance or of other similar pyrotechnical articles is assembled in a case provided with an appliance for the arrangement of tested articles, and contains ionizing transmitters for switching the timer on-and-off at the beginning and end of burning of the fuse. The device has the following special feature: in order to shorten testing-time, the appliance for arranging tested articles is made in the form of a disk with radially arranged sockets. It can rotate round the vertical axis synchronously with the timer, e.g., an oscillograph calibrated for time.

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BOVKUN, Viktor Georgiyevich; KAZARINOV, Ivan Alekseyevich; KOKOSHKIN, Pavel Aleksandrovich; LYUBSKIY, Gennadiy Severianovich; MEDOVAR, Anatoliy Isayevich; PETROV, Viktor Vasil'yevich; PIONTKOVSKIY, Bronislav Aleksandrovich; SERYAKOV, Nikolay Ivanovich; ELINSON, Mikhail Mikhaylovich; SERGEYCHUK, F.Ya., red.; GRIGOR'YEV, B.S., red.; FORTUSHENKO, A.D., red.; BUSANKINA, N.G., red.; SHEPHER, G.I., tekhn. red.

[Engineering manual on electric communications; electric equipment] Inzhenerno-tekhnicheskii spravochnik po elektrosviazi i elektronustanovki. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1962. 671 p. (MIRA 15:6)  
(Telecommunication--Handbooks, manuals, etc.)  
(Electric engineering--Handbooks, manuals, etc.)

SERYAKOV, N.I.; SHEYKINA, T.S.; PETROV, V.V.; IDBRIL', Z.Ya.;  
SHESTERIKOV, V.G.; PRONIN, V.M.; LYUBSKIY, G.S.;  
ISAKOV, I.K.; VLODARSKAYA, V.Ye., red.

[Automated power supply guarantee systems for telecommunication apparatus] Avtomatizirovannye ustroistva garantirovannogo pitaniia apparatury sviazi; informatsionnyi sbornik. Moskva, Izd-vo "Sviaz'," 1964. 132 p.  
(MIRA 17:6)

TITCHENKO, Maksim Pavlovich; AYOLLO, Mikhail Guseynovich; NEZHIVVOY, Nikolay Yakovlevich; PETROV, Viktor Yakovlevich; BATSER, D.M., red.; SIEFER, G.I., tekhn. red.

[Accounting in communications enterprises] Bukhgalterskii uchet v predpriatiakh svyazi. [By] M.P.Titchenko 'i dr. Moskva, Svyaz'-izdat, 1962. 422 p. (MIRA 15:12)  
(Accounting) (Communication and traffic)

LEMAN, M.Yu., doktor tekhn. nauk, prof. (Germanskaya Demokraticeskaya Respublika); PETROV, V.Ya., kand. tekhn. nauk

Arithmetic device with parallel action and components operating in cadence. Vych. tekhn. [MVTU] no.3:182-205 '63.

(MIRA 17:2)

JANUARY 1957

PERRY, T. Ya.

Determining the position of radio centers. Trudy SFTS W/TU

no. 3:76-89 157.

(MERA 1957)

(secretary's objective)

KAFASIK, M.A.; BUL'SHAEV, A.I.; BULKIN, G.A.; PETROV, V.Ya.

Characteristics of the distribution of mercury, antimony, and arsenic in the Nikitovka ore field. Sov. geol. Zh. no. 10: 66-78  
1964. (MIRA 17:11)

1. Institut mineralnykh resursov Akad. Nauk SSSR.

KARASIK, M.A. [Karasyk, M.A.]; VASILEVSKAYA, A.Ye. [Vasylevs'ka, A.IE.];  
PETROV, V.Ya.; RATEKHIN, Ye.A. [Ratiekhin, IE.A.]

Distribution of mercury in the fossil coal of the Tsentral'nyy  
and Donets-Makeyevka regions of the Donets Basin. Geol.zhur. 22  
no.2:53-61 '62. (MIRA 15:4)

1. Institut mineral'nykh resursov AN USSR.  
(Donets Basin--Mercury)



L 11226-67 EWT(d)/EWP(1) LJP(c) GG/BB/GD

ACC NR: AT6022375

SOURCE CODE: UR/0000/66/000/000/0037/0040

AUTHOR: Kartashov, D. N.; Nigay, A. A.; Petrov, V. Ya. 37

ORG: none

TITLE: Certain problems of the <sup>16c</sup> recognition of acoustic signals

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966.  
Sektaiya kibernetiki. Doklady. Moscow, 1966, 37-40

TOPIC TAGS: digital electronic computer, acoustic signal, harmonic analysis, pattern recognition / Minsk-2 digital electronic computer

ABSTRACT: The article deals with the possibilities of constructing a device recognizing various acoustic signals whose characteristics display certain stationary parameters. The authors experimented with a specially built converter of acoustic signals to digital data, whose upper limit of conversion frequency was 20 kilo-cps. This converter operated on the principle of pulse-time coding and it assured the automatic insertion of digital data onto the magnetic tape of a Minsk-2 digital electronic computer, with every one-minute interval of recording being represented in the computer's memory by 1,200,000 ordinates recorded in

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ACC NR: A18022375

5-unit binary code. The internal structure of the acoustic signals was analyzed according to the results of general harmonic analysis, involving the computation of a series of ordinates of the acoustic spectrum, correlation function and spectral density. If the value of each of  $N$  ordinates of this kind is regarded as a projection of a  $N$ -variate vector, then each specific acoustic signal may be referred as a pattern (thus converting it to a problem of pattern recognition) to a specific point in  $N$ -variate space of patterns. Then the space may be divided into two classes,  $S_I$  and  $S_{II}$  and the separation function for any point in the space may be computed as the difference between its distances to the regions of each of these two classes. It is concluded that linear methods of space-mapping may be employed with sufficient effectiveness for a number of comparatively simple problems of this kind. Orig. art. has: 1 figures.

SUB CODE: 06, 09, 20 / SUBM DATE: 05Mar66

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Card 2/2

12-10 (10) 1/6  
PRINTSEV, A.A., inzhener; ~~PETROV, V.Ya.~~; YEGOROV, V.V.; LAMANOV, K.A.,  
inzhener; KONSTANTINOV, B.A., kandidat tekhnicheskikh nauk.

Rates for electric power. Prom.energ. 12 no.1:18-22 Ja '57.  
(MLRA 10:2)

1. Energobvt Leningradskoy elektroenergeticheskoy sistemy  
(for Printsev, Petrov)
2. Energosbyt Estonskoy elektroenergeticheskoy  
sistemy (for Yegorov)
3. Leningradskiy pivovarennyy zavod  
(for Lamanov)
4. Leningradskiy inzhenerno-tekhnicheskiy institut  
(for Konstantinov).

(Electric utilities--Rates)

YERMOIAYEV, L.S., kandidat tekhnicheskikh nauk; PETROV, V.Ya., inzhener.

Effect of the precision in magnetic recording machines on the  
value of bending generatrices of wide magnetic tapes. Trudy NVTU  
no.55:62-75 '55. (MLBA 9:8)  
(Magnetic recorders and recording)

L 11444-67 EWT(d)/EWT(1)/EWP(1) LJP(c) TG/BB/GG  
ACC NRI AT6024284

SOURCE CODE: UR/2976/66/000/005/0164/0169

AUTHOR: Surkov, L. V.; Belov, B. I.; Petrov, V. Ya. 31

ORG: none

TITLE: Assignment of reliability norms to the individual units of a digital computer during the initial stage of design 160

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. Vychislitel'naya tekhnika, no. 5, 1966, 164-169

TOPIC TAGS: system reliability, reliability engineering, computer design

ABSTRACT: Two approaches are analyzed for achieving the efficient assignment of reliability norms to the various units of a digital computer, e. g., the arithmetic unit (AU), the control unit (CU), and the main memory unit (MU). The problem consists in finding the failure rate  $\lambda_i$  of these units which will satisfy a given probability of machine failure  $Q(T)$  in time  $T$ . In the first approach the approximate failure rates are expressed as functions of the complexity of units and the relative failure rates of the components. Table 1 gives the averaged failure rates and corresponding reliability factors  $K_K$  - the ratio of the failure rate of a component to the failure rate of a resistor for a  $K$ -th type Ural-2 circuit. Table 2 lists the reliability factors for the basic circuits of a Ural-2 computer, and the number of circuits per unit. A more realistic view of the failure rates of the units must take

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ACC NR: AT6024284

Table 1.

Parameter	Circuit component				
	Tube	Pulse trans- former	Induct- ance	Capac- itor	Resist- ance
Failure rate $\lambda_k$	$2.4 \cdot 10^{-6}$	$0.3 \cdot 10^{-6}$	$0.1 \cdot 10^{-6}$	$0.07 \cdot 10^{-6}$	$0.08 \cdot 10^{-6}$
Reliability factor $K_k$	30	1.62	1.25	0.875	1.0

into account their manufacturing and operating costs. The authors derive an expression for finding the failure rate of individual units for which the cost of a unit is minimum taking into account the cost of the entire computer complex. Orig. art. has: 7 formulas and 2 tables.

SUB CODE: 09/  
14/ SUBM DATE: none/ ORIG REF: 002

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I 11444-67  
ACC No: A16024284

Table 2.

Circuit	Number of components per circuit							Number of circuits per unit		
	Vacuum tube	Diode	Pulse transformer	Inductance	Resistance	Capacitor	Reliability factor	AU	CU	MU
Flip-flop	1	5	—	2	13	5	56.13	106	67	60
Inverter	1	—	—	2	8	2	42.25	60	5	13
Pulse shaper	1	—	—	1	4	3	37.87	24	109	49
Amplifier	1	4	2	—	8	4	49.74	17	60	—
Blocking oscillator	1	2	2	—	6	4	45.24	3	5	22
Gate	2	4	1	—	11	4	81.12	3	3	—

Im  
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S/050/60/000/05/14/020  
B007/B017

AUTHOR: Petrov, V. Ye.

TITLE: Shortcomings in Mercury Barometers <sup>nk</sup>

PERIODICAL: Meteorologiya i gidrologiya, 1960, No. 5, pp. 43-45

TEXT: It is pointed out that the usual regulations concerning the instrument correction for the cistern barometer are not always observed during production, before transportation, prior to its use, on its transference into another room, and at least every third year. For this reason the author tries to find out whether the instrument correction remains unchanged for several years. The investigation of plastic cistern and metal cistern barometers is described. The investigation showed that with metal cistern barometers, no essential changes in instrument correction are observed. Plastic cistern barometers, however, showed changes in instrument correction. These changes are mainly due to the mercury losses as a result of leakiness of the individual joints. Also other shortcomings of barometers are shown such as, e.g., the oxidation of mercury as a result of negligent treatment before it is filled into the

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Shortcomings in Mercury Barometers

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B007/B017

barometer. In standard barometers the main shortcoming is the sinking of mercury in the short side. The investigations were conducted within the system of the UGMS USSR (Hydrometeorological Service Administration of the Ukrainskaya SSR), i.e., at the meteorological stations of Gayvoron, Gorodok, Mogilev-Podol'skiy, Gaysin, and Kamenets-Podol'skiy. There is 1 figure. ✓

Card 2/2

GONCHAROV, Yuriy Grigor'yevich, inzh.; GANKEVICH, Tadeush TSezarevich, inzh.;  
~~PETROV, Vladimir Yagorovich, inzh.~~; SHAMANOV, L.G., inzh., retsenzent;  
IVANIK, V.F., inzh., retsenzent; VUL'P, V.V., inzh., red.; KHITROV,  
P.A., tekhn. red.

[Operation and maintenance of a diesel locomotive] Upravlenie teplo-  
vozom i ego obsluzhivanie. Moskva, Vses. izdatel'sko-poligr. ob"edi-  
nenie M-va putei soobshchenia, 1961. 180 p. diagr. (MIRA 14:8)  
(Diesel locomotives)

AUTHOR: Ietrov, V. Ye. SOV/50-58-11-6 25

TITLE: Reduction of Wind Velocity to the Height of 2 Meters  
(Privedeniye skorosti vetra k vysote 2 m)

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 11, pp 28-30 (USSR)

ABSTRACT: The height of the devices used in a system of weather stations according to which the velocity of wind is measured almost exclusively, differs greatly. For this reason, the values recorded cannot be compared in most cases, which renders a critical review of the relative observational results even more difficult. Several branches of economy do however require data on the velocity of wind 2 meters above the ground, such as agriculture and health resorts. In order to determine these data, a knowledge of the changes in the wind velocity with height in connection with the position of weather-observation apparatus is necessary. The author gives a survey of the formulas used (1) and (2) (Refs 1-3). Assuming that  $1 - n = 0$  the author derives formula (3):

$$v = v_1 \frac{\lg \frac{z}{z_0}}{\lg \frac{z_1}{z_0}}$$

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Reduction of Wind Velocity to the Height of 2 Meters 30V/50-58-11-6/25

from formula (2). Formula (3) expresses the logarithmic law of wind velocity change with height (where  $v$  denotes the wind velocity in the height,  $v_1$  the known wind velocity in a height  $z_1$  - here, the height of the wind vane,  $z_0$  - the thickness of the ground friction layer, where the work of the turbulent tension forces degenerates practically to irregular pulsations (Ref 1) and the exponent  $1 - n$  depending on the stability of atmosphere). The values of  $z_0$  can be used only for level surfaces. For vaulted and especially for receding forms of the relief and also if the wind vane is not mounted according to instructions (e.g. near buildings, constructions and trees), they cannot be used. For the vaulted types of relief the  $z_0$ -values become somewhat smaller than those mentioned first. For receding forms they may increase several times (according to the depth of recess and on lack of local circulation). As the values of  $v_1$  contained in formula (3) can be taken directly from the meteorological data, only the values of factor  $k$  (Table 1) will have to be computed. This purpose serves the formula (4):

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Reduction of Wind Velocity to the Height of 2 Meters SOV, 50-58-11-6, 25

$$k = \frac{\lg \frac{z}{z_0}}{\lg \frac{z_1}{z_0}}$$

In (4) the value  $z$  is constant (2 m). For  $z_0$  the values are assumed according to the basement area in the respective season. After substitution of the  $z_1$ -values (height of wind vane in meters) and after the calculations required, one arrives at the values of  $k$  in table 1. In order to determine the average wind velocity 2 meters above the ground, it is sufficient if one multiplies the velocity recorded with the wind vane with the multiplier  $k$  (Table 1). There are 1 table and 3 Soviet references.

Card 3/3

PLYUSNIN, Aleksandr Kuz'mich, dots.; BOCHKO, N.A., inzh.,  
retsenzent; PETROV, V.Ye., inzh., retsenzent; FAKEYEV, A.D.,  
otv. red.; KIMMEL', L.S., red. izd-va; SHIBKOVA, R.Ye.,  
tekhn. red.

[Organization of machine repair and equipment assembly at  
lumbering enterprises] Organizatsiia remonta mashin i montazh  
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2. Povolzhskiy leso-tekhnicheskii institut (for Petrov).
3. Gosudarstvennyy planovyy komitet Soveta Ministrov SSSR (for Fakeyev).  
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PETROV, V. Ye.

"The procedure of microclimatic observations and compilation  
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[Lumbering camps; mechanization of work at lower timber  
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Verification of the Correctness of the Orientation of Wind Vanes and Methods for the Exact Determination of the Angle of Declination Without Angulometric Instruments. *Meteorol. i Hidrologiya*, No 4, 1953, pp. 47-49

The author describes and recommends two methods for the determination of the angle of declination of the actual direction for the iron bar of wind vanes with letter N from the direction of the meridional line. Both methods rely on elementary trigonometric representations and do not require any angulometric instruments. The first method uses the standard sine gauge ruler, and the second method relies on the ordinary clock. (*RZh* 601, No 5, 1954)

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(MLA 6:9)  
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plantations, and forests against pests and diseases in the  
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[Water transportation of lumber] Vodnyi transport lesa; spravochnik. Moskva, Goslesbumizdat, 1963. 560 p.

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PLS: W731.413

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[Investigating the effect of basic factors on lubrication conditions and the wear of the piston group of heat engines used in lumbering] Issledovanie vlianiia osnovnykh faktorov na rezhim smazki i iznashivaniie porshnevoi gruppy teplovykh dvigatelei, primeniamykh v lesnoi promyshlennosti. Leningrad, 1959. 75 p.  
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(Lumbering--Machinery) (Gas and oil engines--Testing)



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GAS PRODUCER UTILIZING LONG PIECES OF WOOD FOR USE ON SHIPS. Petrov, Ya. P.  
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(Steamboats)

SCV/112-58-1-556

Translation from: Referativnyy zhurnal, Elektrotehnika 1958, No. 1, p. 32 (USSR)

AUTHOR: Petrov, Ya. V.

TITLE: On the Calculation of Starting Currents in Coal-Cutter Electric Motors and Short-Circuit Currents in Branch Low-Voltage Networks (K voprosu raschetnogo opredeleniya puskovogo toka elektrodvigately zaboynykh mashin i toka korotkogo замыкания v uchastkovykh setyakh nizkogo napryazheniya)

PERIODICAL: Izv. Tomskogo politekh. in-ta, 1956, Vol 88, pp 248-250

ABSTRACT: It is noted that starting high-power coal-cutter motors from branch networks in a mine is accompanied by a considerable voltage drop that results in lowered starting currents and that increases currents in other normally operating consumers. It is noted that no simple and accurate method exists for calculating starting currents under such conditions. A simplified calculation method is suggested that is based on equivalent cable lengths from the transformer to the motor being started and to other points of concentrated loads and also on voltage drop across the transformer; starting currents and

Card 1/2

SOV/112-58-1-556

On the Calculation of Starting Currents in Coal-Cutter Electric Motors and Short-2-pole short-circuit currents are determined with due allowance of operation of other motors. A sample calculation, made by the above method, is presented for the case of a coal-cutter MA 191/10 motor with a rated starting current of 510 amp. As compared to a more accurate but more complicated method of equivalent resistances, the error is less than 1%.

AVAILABLE: Library of Congress

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- 1. Electric motors--Electrical properties
- 2. Electric motors--Performance

Card 2/2

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Izv. vys. ucheb. zav.; elektromekh. 1 no.4:54-60 '58. (MIRA 11:2)  
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Kiklevich). 2. Tomskiy politekhnicheskii institut (for Petrov).  
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Electricity in Mining

Comments on N. I. Ozernoi's book "Electric engineering in mining" (Moscow, 1953).

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SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

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(Atomic ships) (MIRA 10:6)

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(Lathes--Safety measures)

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Devices for the transportation of harmful liquids. Okhr.truda  
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(Liquids--Transportation)

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33-37, 39 My '63. (MIRA 16:5)  
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PETROV, Ye.; OVCHARENKO, N.

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PETROV, Yo.; OVCHARENKO, N.

Automatic control of electric lights. Okhr.truda i sots.strakh.  
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PETROV, Ye.

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(Loading and unloading--Safety measures)

BULGARIA/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29740

Author : Katsarov, K., Petrov, Ye.

Inst : -

Title : Introducing Correct Crop Rotations to Rice Cultures.

Orig Pub : Selskostop. mis"l, 1957, 2, No 4, 204-210 (bolg.).

Abstract : The area taken up by rice cultures in Bulgaria in 1956 amounted to 12,042 ha.; the crop totalled 30-40 centners per ha. of unscoured rice. The rice cultures may be extended and the crop increased by turning toward correct crop rotations with rice. A description of suggested crop rotations is given.

Card 1/1

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strakh. no.6:82 D '58. (MIRA 12:1)  
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PETROV, Ye.

Whose poster is better? Okhr.truda i sots.strakh. 4 no.12:20 D  
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PETROV, Ye., inzh.

Safety belt. Okhr. truda i sots. strakh. 3 no.8:62-63 Ag '60.  
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"Experience of Resettlement of Soviet Collective Farm Workers" Izvestia, 1950.

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(MIRA 18:12)

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