

STAMPONIN, P. S.

"Cooperative Living of Fishhounds and Crickets, Muskrats, and River Beaver," Zool. Zhur.,
23, No. 4, 1979. Mbr., Kalmian Oblast Dept., All-Russian Society Natural Preservation,
-1979-.

SHAPOSHNIKOV, F.D.

Daily habits of the muskrat from the point of view of trapping. Uch.zap.
Gor'.un. no.19:121-125 '51. (MLRA 6:6)
(Muskrats)

SHAPOSHNIKOV, F.D.

Certain data on the results of the introduction of beavers, muskrats and
desmans into the Pustynskoye preserve of the biological station of the
Gor'kiy State University. Uch.zap.Gor'.un. no.19:127-133 '51. (MLRA 6:6)
(Pustynskoye Preserve--Fur-bearing animals)

SHAPOSHNIKOV, F.D.

Mineral intake of wild hoofed animals in the Altai mountains and taiga.
Biul.MOIP. Otd.biol. 58 no.1:3-10 '53. (MLBA 6:5)
(Animals, Food habits of) (Altai mountains region--Minerals in soil)

SHAPOSHNIKOV, F.D.

SHAPOSHNIKOV, F.D.

Ecology and morphology of the Altai reindeer. Zool.zhur.34 no.1:
191-207 Ja-F '55. (MIRA 8:3)

1. Glavnoye upravleniye po zapovednikam i okhotnich yemu khozyaystvu
Ministerstva sel'skogo khozyaystva SSSR.
(Altai Mountains--Reindeer)

SHAPOSHNIKOV, F.D.

Data on the ecology of musk deer in the northeastern Altai [with
English summary in insert]. Zool.zhur.35 no.7:1084-1093 JI '56.
(MLRA 9:9)

1.Glavnoye upravleniye po zapovednikam i okhotnich'yemu khozyaystvu
Ministerstva sel'skogo khozyaystva SSSR.
(Altai Mountains--Musk deer)

SHAPOSHNIKOV, F. D.

USSR/Biology - Zoology

Card 1/1 Pub. 86 - 23/42

Authors : Shaposhnikov, F. D., Cand. Biol. Sc. (Thymen' Pedagog. Inst.)

Title : Mountain sheep of west Tyan'-Shan'

Periodical : Priroda 45/1, 109-110, Jan 56

Abstract : Two kinds of mountain sheep are distinguished in Central Asia -- Ovis ammon nigrimontana and Ovis ammon Karelini. A description is given of these covering their habits, habitats numbers and migrations. Two Sov. references (1951-1953). Illustration; map.

Institution :

Submitted :

SHAPOSHNIKOV, F.D., kandidat biologicheskikh nauk.

Panther in the western Tien Shan. Priroda 45 no.7:113-114 J1 '56.
(MLRA 9:9)

1.Tyumenskiy gosudarstvennyy pedagogicheskiy institut.
(Tien Shan--Panthers)

SHAPOSHNIKOV, F. D.

Preliminary data on the results of the acclimatization of beavers
in Tyumen' Province. Trudy Inst. biol. UFAN SSSR no.18:169-184 '59.
(MIRA 13:8)

1. Zaveduyushchiy kafedroy zoologii Tyumenskogo pedagogicheskogo
instituta.

(Tyumen' Province--Beavers)

SHAPOSHNIKOV, Yu.G.; SHAPOSHNIKOV, G.D.(Moskva)

Single staple blood vessel suturing apparatus with a magazine.
Eksper. khir. i anest. no.2:13-16'63. (MIRA 16:7)
(BLOOD VESSELS—SURGERY) (STAPLERS (SURGERY))

SHAPOSHNIKOV, G., KH.,

Pa. 15016

USSR/Biology - Botany
Aphides

1 Oct 49

"Full Cyclic Alimentary Relations of Aphides of the
Yezabura Family (Aphidoidea) With Grassy Vegetation,
G. Kh. Shaposhnikov, 3 $\frac{1}{2}$ pp

"Dok Ak Nauk SSSR" Vol LXVIII, No 4

A large group of Aphides of the Anuraphidae family
has Pomioidea as its initial or only host. However,
recent studies show that all Yezabura Iappae Koch
and Y. boionidi H.R.L. live on grassy plants. It is
impossible to determine time of change-over. Details
Y. Alzenbergi Shaposhnikov sp. nov. found in Smolensk

15016

USSR/Biology - Botany (Contd)

1 Oct 49

Penetery, Leningrad in 1947. Submitted by
Acad Ye. N. Pavlovsky 25 Aug 49.

15016

USSR / General and Special Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11592

Author : Shaposhnikov G. Kh.

Inst : Zoological Institute of the Academy of Sciences

Title : The Establishment of a Phylogenetic Basis of the Systematics of Short-tailed Aphids (Anuraphidina) Considering their Connections with Plants.

Orig Pub: Tr. Zool. in-ta AN SSSR, 1956, 23, 215-320

Abstract: This is a critical evaluation of the formal-morphological approach to the systematics of the aphids and its opposition to the phylogenetic and historical-ecological approach, with a survey of all morphological, and biological characteristics of the aphids in connection with those environmental changes in harmony with which they were formed in the evolution-are process. The Severtsov morphobiological theory

Card 1/3

1. SHAFOSHNIKOV G. KH.
2. USSR (600)
4. Ural Mountain Region--Plant Lice
7. Dendrophilous aphids of the steppe and desert zones of the Ural foothills, Trudy Zool.inst. 11, 1952.

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

1. SHAFCSH. IKOV, G. KH.
2. USSR (600)
4. Crimea - Plant Lice
7. Aphids (aphididae) of fruit trees of southern Crimea. Trudy Vses. ent. obshch. 43, 1951.

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

SHAPOSHNIKOV, G. Kh.

A new aphid species (Homoptera, Aphididae) infesting cotoneasters.
Ent. oboz. 38 no.1:156-159 '59. (MIRA 12:4)
(Borzhomi region--Plant lice) (Cotoneaster--Diseases and pests)

1951, 2, 11.

File # 112

Map showing the location of Y. Hill (Y. Hill) from apple trees. Int. ob. 31 no. 3-4, 1951.

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

ARNOL'DI, L.V.; BORKHSENIUS, N.S.; GUR'YEVA, Ye.L.; DERBENEVA, N.N.;
YEMEL'YANOV, A.F.; KERZHNER, I.M.; KUZNETSOV, V.I.; LISINA,
L.M.; MISHCHENKO, L.L.; NARCHUK, E.P.; SHAPIRO, I.D.; SHAPOSHNI-
KOV, G.Kh.; SHTAKEL'BERG, A.A.; PUKHAL'SKAYA, L.F., red.izd-va;
KRUGLIKOVA, N.A., tekhn.red.

[Insect pests of corn in the U.S.S.R.; reference book] Naseko-
mye, vrediashchie kukuruze v SSSR; spravochnik. Moskva, 1960.
227 p. (MIRA 13:3)

1. Akademiya nauk SSSR. Zoologicheskiy institut. 2. Zoologi-
cheskiy institut AN SSSR (for Arnol'di, Borkhsenius, Gur'yeva,
Derbeneva, Yemel'yanov, Kerzhner, Kuznetsov, Mishchenko, Narchuk,
Shaposhnikov, Shtakel'berg). 3. Vsesoyuznyy institut zashchity
rasteniy Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni
V.I.Lenina (for Lisina, Shapiro).
(Corn (Maize)--Diseases and pests)
(Insects, Injurious and beneficial)

BATLASHVILI, I.D.; BEY-BIYENKO, G.Ya.; BOGDANOV-KAT'KOV, N.N.; GERASIMOV, B.A.; GILYAROV, M.S.; DMITRIYEV, G.V.; ZVEREZOMB-ZUBOVSKIY, Ye.V.; ZIMIN, L.S.; KOLOBOVA, A.N.; MEDVEDEV, S.I.; MISHCHENKO, A.I.; PETROV, A.I.; RYABOV, M.A.; SAVZDARG, E.E.; SELIVANOVA, S.N.; SKORIKOVA, O.A.; TROPKINA, M.F.; SHAPOSHNIKOV, G.Kh.; SHCHEGOLEV, V.N., prof., doktor sel'skokhoz.nauk; ESTERBERG, L.K.; YAKHONTOV, V.V.; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[Classification of insects on the basis of damage to crops] Opre-
delitel' nasekomykh po povrezhdeniyam kul'turnykh rastenii. Izd.4,
perer. i dop. Leningrad, Gos.izd-vo sel'khoz.lit-ry, 1960. 607 p.
(MIRA 14:1)

(Insects, Injurious and beneficial)

SHAPOSHNIKOV, G.A.M.

PAVLOVSKIY, Ye.N., akademik, redaktor; VINOGRADOV, B.S., redaktor;
ARNOL'DI, L.V.; BEY-BIYENKO, G.Ya.; BORKHSENIUS, N.S.; VINOGRADOV, B.S.;
GUTSEVICH, A.V.; KIRICHENKO, A.N.; KIR'YANOVA, Ye.S.; KOZHANCHIKOV, I.V.;
LEPNEVA, S.G.; LIKHAREV, I.M.; MALVICH, I.I.; NOVIKOV, G.A.; POPOV, V.V.;
POPOVA, A.N.; SOCHAVA, V.B.; STARK, V.N.; TEREENT'YEV, P.V.; KHARITONOV,
D.Ye.; CHERNOV, V.B.; SHAPOSHNIKOV, G.Kh.; SHTAKEL'BERG, A.A.; YUDIN, K.A.

[Animal life of the U.S.S.R.] Zhivotnyi mir SSSR. Vol.4 [Forest zone]
Lesnaya zona. Moskva, Izd-vo Akademii nauk SSSR, 1953. 737 p. (MLRA 7:3)
(Forest fauna) (Zoology)

SHAPOSHNIKOV, G.Kh.

Factors originating host alternation and diapause in plant lice
(Aphididae) in the process of adaptation to yearly cycles of host
plants. Ent. oboz. 38 no.3:483-504 '59. (MIRA 13:1)

1. Zoologicheskii institut Akademii nauk SSSR, Leningrad.
(Plant lice)

SHAPOSHNIKOV, G.Kh.

Specificity and appearance of adaptations to new hosts in
plant lice (Homoptera, Aphidoidea) during the process of
natural selection. Ent. oboz. 40 no.4:739-762 '61.

(MIRA 17:1)

1. Zoologicheskiy institut AN SSSR, Leningrad.

NARZIKULOV, M. Khumedkul Narzikulovich; GILYAROV, M.S., retsenzent; SMIRNOV, Ye.S., retsenzent; SHAPOSHNIKOV, G.Kh., retsenzent; LUPPOVA, Ye.P., otv.red.; VINOGRADSKAYA, S.N., red.izd-va; GELLER, S.P., tekhn.red.

[Fauna of the Tajik S.S.R. Vol. 9, no.1. Plant lice (Homoptera, Aphididae) of Tajikistan and adjacent republics of Central Asia.]
Tli (Homoptera, Aphididae) Tadjikistana i sopredel'nykh respublik Srednei Azii. Dushanbe, 1962. 271 p. (Akademiia nauk Tadjikskoi SSR. Institut zoologii i parazitologii. Trudy, vol.25. Fauna Tadjikskoi SSR, vol.9, no.1). (MIRA 17:2)

SHAPOSHNIKOV, G.Kh.

Aphids (Aphidinea) infesting Sorbus. Ent. oboz. 42 no.2:390-398
'63. (MIRA 16:8)

1. Zoologicheskii institut AN SSSR, Leningrad.
(Plant lice) (Sorbus--Diseases and pests)

SRAP VEBIKOV, G.B.

Plant line 100 is real indicator of energy plant and economy.
Sit. abas. 44 no. 20/45-201 7-4 (MIRA 1988)

To: Institute of Energy and Chemistry, Leningrad.

SHAFOSHNIKOV, G.Kh.

Morphological divergence and convergence in the experiment with
plant lice (Homoptera, Aphidinea). Ent. oboz. 44 no.1:3-25 '65.
(MIRA 18:7)

1. Zoologicheskiy institut AN SSSR, Leningrad.

15-57-5-8629

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,
p 133 (USSR)

AUTHOR: Shaposhnikov, G. N.

TITLE: New Data on Graphite-Bearing Rocks in the Metamorphic Sequence in the Northwestern Part of the Sangilen Uplands in Tuva (Novyye dannyye o grafitonosnosti porod metamorficheskoy tolshchi severo-zapadnoy chasti nager'ya Sangilen v Tavinskoy avtonomnoy oblasti)

PERIODICAL: Inform. sb. Vses. n.-i. geol. in-t, 1956, Nr 3, pp 90-92.

ABSTRACT: Graphite schists are found in the Proterozoic metamorphic gneiss-schist sequence in various places on the Sangilen uplands. In the middle part of the lower subseries (Prz₁) occurs a 4-m to 5-m layer of banded ferruginous quartzite. Lenses of graphite schist and layers of graphite-bearing quartzite are closely associated spatially with the ferruginous quartzite. The author has discovered large lenses of graphite

Card 1/2

15-57-5-6629

New Data on Graphite-Bearing Rocks in the Metamorphic (Cont.)

schist for the first time at the base of the series and not in association with ferruginous quartzites. One of these lenses extends along the strike for over 300 m and ranges up to 30 m in width. The lenses are composed of dark, dull black, fine-scaled graphite schists. The graphite is uniformly distributed in the schists. The flakes reach a size of 1 mm to 1.5 mm. The graphite schists of the middle series, the beds of which reach a thickness up to 4 m or 5 m, are locally traced for 100 m to 150 m.

Card 2/2

S. P. Sh.

SHAPOSHNIKOV, G.N.

New data on graphite-bearing rocks in metamorphic strata of the northwestern region of the Sangilen Upland in the Tuva Autonomous Province. Inform.sbor.VSEGEI no.3:90-92 '56. (MLRA 10:1)
(Tuva Autonomous Province--Graphite)

SHAPOSHNIKOV, G.N.

Caselike form of tourmaline crystals. Zap.Vses.min.ob-va 88 no.3:
336-338 '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii insitut,
Leningrad.

(Tourmaline crystals)

SHAPOSHNIKOV, G.N.; BURKOV, Yu.K.

Characteristics of Sinian sediments in the Davangra-Hugda belt
(southern Yakutia). Inform.sbor. VSEGEI no.22:3-11 '59.
(MIRA 14:12)
(Yakutia--Geology, Stratigraphic)

SHAPOSHNIKOV, G.N.; BURKOV, Yu.K.

Formation of anthr_zxolites in Sinian sediments of southern Yakutia.
Zap. Vses. min. ob-va 89 no.3:338-341 '60. (MIRA 13:8)
(Yakutia--Anthraxolite)

NEMTSOVICH, V.M.; SHAFOSHNIKOV, G.N.

Basic characteristics of the titanium metallogeny in the Tuva Autonomous Republic. Trudy VSEGEI 60:107-120 '61. (MIRA 15:3)
(Tuva A.S.S.R.--Titanium)

SHAPOSHIKOV, G.H.

Blomstrandin from pegmatite veins of southern Yakutia.
Zap.Vses.min. ob-va 89 no.6:709-710 '61. (MIRA 15:5)
(Yakutia--Blomstrandin)

SHAPOSHNIKOV, G.P.

Carbonization of burry wools. G. P. Shaposhnikov and V. A. Chekmarev. *Textil. Prom.* 14, No. 6, 11-10 (1954).
—Vegetable matter contaminating the wool (I) is removed by steeping I at room temp. for 15-30 min. in 20 pts. H₂O contg. H₂SO₄ 45 g./l. and a wetting agent 2-5 g./l., centrifuging, drying at 60-65°, and finally carbonizing at 85-90°. I is then dusted and washed with H₂O until 1% H₂SO₄ remains on the fiber, which is neutralized by addn. of NH₄OH 2-3%.
Elisaveth Barabash

SHAPOSHNIKOV, G.P.; KOVALEV, A.Ye.

Excellent wool fibers obtained from wool waste. Tekst. prom.
20 no. 11:18-19 N '60. (MIRA 13:12)

1. Nachal'nik tekhnologicheskogo konstruktorskogo byuro
Klintsovskoy tonkosukonnoy fabriki imeni Kominterna (for
Shaposhnikov). 2. Master ugarno-prigotovitel'nogo tsekha
Klintsovskoy tonkosukonnoy fabriki imeni Kominterna (for
Kovalev).

(Woolen and worsted manufacture)

BUDOV, V.M.; SHAPOSHNIKOV, I.A.; LATUSHINA, E.S.

Increasing the productivity of the 4ShPS machines. Stek. 1 ker.
19 no.1:31-32 Ja '62. (MIRA 15:3)

1. Irbit'skiy stekol'nyy zavod.
(Grinding and polishing)

BUDOV, V.M.; SHAPOSHNIKOV, I.A.

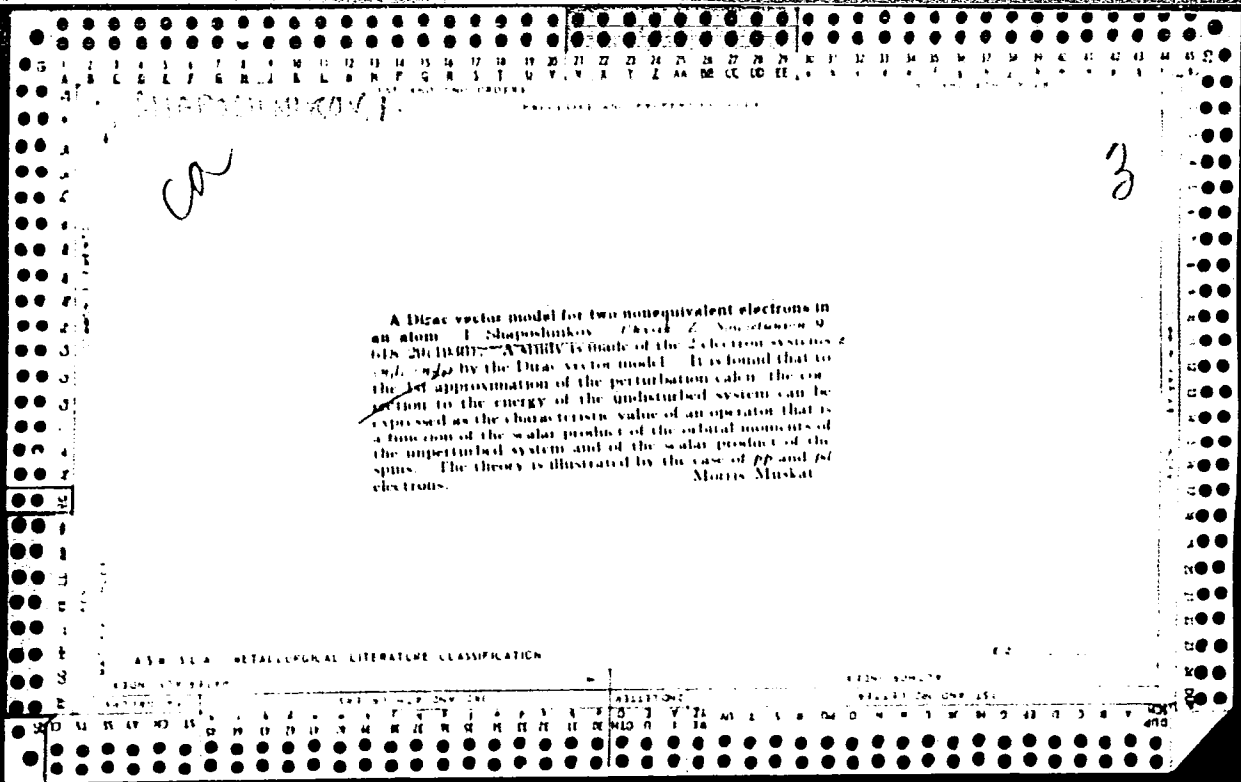
Improving the design of some units of the pot furnace. Stek.i
ker. 19 no.4:28-30 Ap '62. (MIPA 15:8)

1. Irbitskiy stekol'nyy zavod.
(Glass furnaces)

PRODAYVODA, N.Ye.; BUDOV, V.M.; SHAPOSHNIKOV, I.A.

Improved design of the working end. Stek.i ker. 19 no.5:28-29
My '62. (MIRA 15:5)

(Glass furnaces)



SA

A 53
H

3732. Theory of Absorption of Sound in Solids. I. Shaposhnikov. *J. of Exp. and Theor. Physics, U.S.S.R.* 9, 2, pp. 223-228, 1939. In Russian. An expression is obtained for the absorption coefficient of sound in a solid, to the first order in the coefficients of viscosity and thermal conductivity. The expression is similar to the one valid for a gas. D. S.

ASIA 354 - METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1ST AND 2ND ORDERS										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH ORDERS																													
CA																																																	
Absorption and dispersion of sound in a solution of a weak electrolyte. Y. G. Shaposhnikov and M. A. Leontovich. <i>J. Phys. Chem.</i> (U.S.S.R.): 13, 781-5(1939).— The theory of absorption and dispersion is developed on similar lines to Einstein's theory for gases (cf. C. A. 19, 3208). B. C. P. A.																																																	
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																	
E-Z																																																	
STON: STVIBELW																																																	
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SHAROSHNIKOV, I.G.

①
 Thermodynamic theory of paramagnetic absorption in weak fields. I. G. Sharoshnikov (Phys.-Tech. Inst. Kazan Branch Acad. Sci. U.S.S.R.), *Zhur. Eksptl. i Teoret. Fiz.* 17, 824-9(1947).--Sh. considers the thermodynamics of the paramagnetic absorption in weak const. fields, not exceeding in order of magnitude the amplitude of the alternating field, of the required spin-lattice relaxation, for cases of parallel and of perpendicular fields. It is assumed that the temp. of the spin-system remains sufficiently close to the temp. of the lattice, and that the amplitude of the alternating field is sufficiently small. It is found that a partial dependence of the absorption-energy of the alternating field, both in the parallel, as well as in the perpendicular, cases is given by means of the ordinary dispersion equations of the relaxation type with time-relaxation, independent of the field, and inversely proportional to the square of the temp. of the lattice. In the perpendicular case the absorption of energy is proportional to the 4th power of the amplitude of the alternating field; for the parallel case it is the sum of 2 terms, one of which is proportional to the 4th power of the amplitude of the alternating field, and the other the product of the square of the amplitude of the alternating field and the square of the amplitude of the const. field. The possibility of a thermodynamic calen. of the internal spin-relaxation is also considered. Proposals are made as to how the theory can be subjected to exptl. verification. F. H. Rathmann

[Handwritten signature]
 10/27/54

USSR/Thermodynamics

PA 9T6

USSR/Thermodynamics

May 1947

"The Classical Analogy of the Uncertainty Principle," I. G. Shaposhnikov, 4 pp

"Zhur Eksp Teor Fiziki" Vol XVII, No 5

Criticism of the thermodynamic analogy of the uncertainty principle of Heisenberg, proposed by D. A. Frank-Kamenetsky.

9T6

USSR/Physics Jun 48

Paramagnetism
Relaxation Phenomena

"Thermodynamic Theory of Spin-Spin Relaxation in
Paramagnetic Materials," I. G. Shaposhnikov, Kazan
State U, 6 pp

"Zhur Eksper i Teoret Fiz" Vol XVIII, No 6

Paramagnetic relaxation is studied thermodynamically
in an ideal paramagnetic substance with pure spin
magnetism for case of parallel fields, with con-
sideration of spin-lattice and also spin-spin re-
laxation. An expression for complex magnetic per-

6/49T99 6/4

USSR/Physics (Contd)

Jun 48

meability is found, and special expression for ex-
treme cases of large and small frequencies. Compares
theoretical and experimental results.

6/49 T99

6/49T99

Shaposhnikov, I.G., On the thermodynamic theory of paramagnetic absorption in perpendicular fields. P. 225.

It is shown that in the case of perpendicular fields paramagnetic absorption is due only to spin-spin relaxation. The expression is found for the energy absorbed by the ideal paramagnetic with a purely spin magnetism per unit of time neutralized on the period of the field. It proved that this value, besides the frequency of the field and the amplitude of its variable component depends also partly on the constant component of the field and partly through the spin-spin time of relaxation; however the form of dependence on the constant of the component of the field and on the temperature remains undetermined. With the help of experimental data on the position of the maximum of the absorption curve it is established that the spin-spin time of relaxation increases with increase of the field. A law is given of this increase for large and small fields. It is shown that at such a character of dependence of the relaxation time on the field the theoretical formula describes satisfactorily the experimental absorption curve.

The Molotov State University
August 10, 1948

SO: Journal of Experimental and Theoretic Physics (USSR) 19, No. 3 (1949)

SHAPOSHNIKOV, I. G.

PA 51/49T74

USSR/Physics
Susceptibility
Magnetism

Jul 49

"Complex Magnetic Susceptibility of Paramagnetics at High Frequencies," I. G. Shaposhnikov, Molotov State U, 4 pp

"Zhur Ekspier 1 Teoret Fiz" Vol XIX, No 7

Thermodynamic theory of paramagnetic relaxation developed earlier by author is used to clarify dependence of the real and imaginary parts of complex magnetic susceptibility of an ideal paramagnetic with pure spin magnetism upon the
51/49T74

USSR/Physics

(Contd)

Jul 49

constant field for the case of perpendicular fields at high frequencies of the variable field, high relative to inverse spin (spin relaxation time). Submitted 3 Feb 49.

51/49T74

SHAPOSHNIKOV, I. P.

USSR/Physics - Sound Propagation
Turbulence

Sep 49

"The Influence of Large-Scale Turbulence Upon the Propagation of Sound in a Turbulent Medium," M. G. Gdintsov, I. P. Shaposhnikov, Physicotech Inst, Kazan Affiliate, Acad Sci USSR, 2 pp

"Zhur Tekh Fiz" Vol. XIX, No 9

Blokhintsev's equations are used for discussion. Considers case of a stationary acoustic field, created by a source not having directivity, and a stationary homogeneous isotropic field of turbulent pulsations imposed on the averaged flow. By considering velocity of motion of the medium to be low compared with velocity of sound and by disregarding compressibility of the medium, authors found an expression for mean (with respect to time) square of deviation of the value characterizing intensity of sound due to turbulence from the value which it would have in a quiescent medium. This square of turbulent fluctuation of sound audibility increases with the third order of distance from source and decreases when wave length of sound increases. Authors state that both this work and Krasil'nikov's are incomplete because precise form for correlation function for a flat-topped field of large-scale pulsations is not known.

Submitted 10 Jul 49

PA 149T101

SHAPOSHNIKOV, I. I.

"On the Thermodynamic Theory of Paramagnetic Relaxation." Thesis for degree of Dr. Physico-Mathematical Sci. Sub 26, Jun 50, Physics Inst imeni P. N. Lebedev, Acad. Sci USSR

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan -Dec 1950.

SHAPOSHNIKOV, I. G.

2000

Šapošnikov, I. G. On the computation of diffusion phenomena in the equations of hydrodynamics. Akad. Nauk SSSR. Žurnal Eksper. Teoret. Fiz. 21, 1309-1310 (1951). (Russian)

Sleskin [Doklady Akad. Nauk SSSR 77, 205-208 (1951); ces Rev. 13, 81] et Vallander [ibid. 78, 25-27 (1951); ces Rev. 13, 81] ont proposé une nouvelle forme du vecteur transport de masse au sein d'un gaz (noté classiquement ρV) afin de tenir compte des phénomènes de la diffusion moléculaire et thermique. L'A. présente ici une critique des travaux ci-dessus et conclut que les hypothèses de Sleskin et Vallander ne correspondent pas à la réalité physique.

J. Kravtchenko (Grenoble).

Source: Mathematical Reviews,

Vol 13 No. 9

SMN J22

1. SHAPOSHNIKOV, I. G.
2. USSR (600)
4. Hydrodynamics
7. Some hydrodynamic values for mixtures. Usp.fiz.nauk no. 1 1952

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

SHAPOSHNIKOV, I. G.

USSR/Physics - Heat Exchange

May 52

"Theory of Weak Convection," I. G. Shaposhnikov,
Molotov State U

"Zhur Tekh Fiz" Vol XXIII, No 5, pp 826-828

Outlines method of consecutive approximations in
soln of eqs of weak, free, stationary convection
in a cavity at a specified gradient toward infinity.
Indebted to Prof G. A. Ostroumov. Received 13 Jan
52.

222T84

SHAPOSHNIKOV, I.G.; GOL'DBERG, Z.A.

Absorption of sound in binary mixtures. Zhur. eksper. teor. Fiz. 23, No.
4, 425-9 '52. (MIRA 5:12)
(PA 56 no.668:5342 '53)

USSR/Physics - Hydrodynamics

Sep 52

"Some Hydrodynamic Quantities for a Mixture,"
I. G. Shaposhnikov

"Uspekhi Fiz Nauk" Vol 48, No 1, pp 119-122

Article has didactic purposes, i.e., to give accurate definitions of fundamental quantities in mixtures: density of mass, density of mass flow, and hydrodynamic velocity. Derives formulas defining these quantities. Cites N. A. Slezkin, S. V. Vallander, and M. P. Yelovskikh.

236T78

SHAPOSHNIKOV, I. G.

Among the papers presented by the First All-Union Conference on Aerohydrodynamics (8-13 Dec 1952) convened by the Institute of Mechanics, Academy of Sciences USSR, was:

"Hydrodynamics of Convection Phenomena in Binary Mixtures" by Shaposhnikov, I. G. (Molotov State University)

SO: Izvestiya AN USSR, Otdeleniye Tekhnicheskikh Nauk, No. 6, Moscow, June 1953, (W-30662, 12 July 1954)

SHAPOSHNIKOV, I. G.

USSR/Mathematics - Convection

Sep/Oct 53

"Theory of Convective Phenomena in a Binary Mixture," I. G. Shaposhnikov, Moscow, Molotov State Univ

Priklad Matem i Mekhan, Vol 17, No 5, pp 604-606

A report read at a session of the All-Union Conference on Hydroaerodynamics in the Institute of Mechanics, Acad Sci USSR, held 10 Dec 1952. Treats the interesting problem of the limiting cases of

276T88

isothermal concentrational convection where the convective phenomena are due only to the spatial inhomogeneity of the mixture's concentration. Presented 30 Jun 53.

SHAPOSHNIKOV, I. G. (Molotov)

"Phenomenological Theories of Paramagnetic Relaxation," a paper submitted at the International Conference on Physics of Magnetic Phenomena, Sverdlovsk, 23-31 May 56.

1) 10. 11. 1956

AUTHORS: Tsirulnikova, L.M. and Shaposhnikov, I.G.

TITLE: On Phenomenological Theory of Resonance Paramagnetic Rotation (K fenomeno logicheskoy teorii rezonansnogo paramagnitnogo vrashcheniya)

PERIODICAL: Izvestiya Akademii Nauk, Vol. XX, #11, pp 1251 - 1254 1956, USSR, Seriya fizicheskaya

ABSTRACT: A phenomenological theory of paramagnetic rotation is proposed for the waves of cm wavelength. It is assumed that the paramagnetic medium is isotropic in electrical respect and possesses a magnetic anisotropy caused by an external constant magnetic field.

A final formula shows that the angle of rotation depends on the frequency of the alternating field and on the intensity of the constant field. A graph in the article shows theoretical curves of paramagnetic

Card 1/2

Shaposhnikov, I. G.

AUTHOR: Shaposhnikov, I.G.

TITLE: On the Conception of Spin-Spin Relaxation Time in Paramagnetics (O ponyatii vremeni spin-spinovoy relaksatsii v paramagnetikakh)

PERIODICAL: Izvestiya Akademii Nauk, Vol. XX, #11, pp 1255 - 1257 1956, USSR, Seriya fizicheskaya

ABSTRACT: The expression of "spin-spin relaxation time" is applied in literature to both as an expression of τ' in the Gorter theory (1) and as an expression of τ_s in the Shaposhnikov theory (3).
The latter quantity however should be named by more precise designation: the time of isothermic spin-spin relaxation of magnetization.
The nature of quantity τ' is analyzed and it is concluded that it actually represents the time of adiabatic spin-spin relaxation of magnetization.

Card 1/2

Shaposhnikov, I. G.

AUTHORS: Shaposhnikov, I.G. and Kuznetsov, A.S.
TITLE: On the General Theory of Relaxation Phenomena (K obshchey teorii relaksatsionnykh yavleniy)
PERIODICAL: Izvestiya Akademii Nauk, Vol. XX, #11, pp 1258-1261 1956, USSR, Seriya fizicheskaya
ABSTRACT: A spin-system of dielectric paramagnetic crystal, isolated from the lattice, with normal spin magnetism, which interacts with an external magnetic field directed along the Z-axis, is considered.
Extending the Waller theory (2), the authors derive equations for the magnetization ξ of a paramagnetic, in which χ' and χ'' , real and imaginary components of the complex magnetic susceptibility, are represented by periodical functions of time.
Actually, however, experience shows that quantities χ' and χ'' are independent of time.
The authors explain this discrepancy by pointing out

Card 1/3

TITLE: On the General Theory of Relaxation Phenomena (K
obshchey teorii relaksatsionnykh yavleniy)

that relaxation is a specifically macroscopic phenomenon. They modify the initial equations by replacing the sums by integrals and making some plausible assumptions as to the property of some function f, which ensures the existence of the integrals. These assumptions are the following: the function f and its first derivative are continuous in the region of their determination and the function f has a finite number of maxima.

In case of correctness of the assumptions made, the theory leads to a conclusion, which asserts the existence of a relaxation phenomenon in a spin-system of dielectric paramagnetic crystals, isolated from the lattice, with normal spin magnetism, for all practically important spans of time.

The bibliography lists 7 references, of which 3 are Slavic (Russian).

Card 2/3

BELOUSOVA, N.K.; ~~SHAPOSHNIKOV, I.G.~~

Phenomenological theory of paramagnetic relaxation in parallel fields
[with summary in English]. Zhur. eksp. i teor. fiz. 33 no.1:238-242
Jl '57. (MIRA 10:9)

1. Molotovskiy universitet.
(Magnetic fields)

ACCESSION NR: AP4043348

S/0181/64/006/008/2322/2326

AUTHOR: Tsirul'nikova, L. M.; Shaposhnikov, I. G.

TITLE: Contribution to the phenomenological theory of the complex paramagnetic susceptibility of single crystals.

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, 2322-2326

TOPIC TAGS: magnetic susceptibility, single crystal, powder metal, Faraday effect, paramagnetic susceptibility

ABSTRACT: The previously proposed theory of complex paramagnetic susceptibility of powders, developed by H. B. Casimir and F. K. Du Pre (Physica, 5, 507, 1938), by the authors (Izv. AN SSSR ser. phys. v. 20, 1251, 1956), and by others is extended to include single crystals. An expression is derived for the components of the magnetic susceptibility tensor along arbitrary axes for arbitrary component of the external magnetic field. This expression is

Card : 1/2

ACCESSION NR: AP4043348

quite complicated, and only a scheme for deriving it is presented, based on the kinetic equation and boundary conditions. Certain experiments on paramagnetic absorption and on radio-frequency paramagnetic rotation in single crystals are discussed in light of the application of the proposed theory. Orig. art. has:12 formulas.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm State University)

SUBMITTED: 13Feb64

ENCL: 00

SUB CODE: SS, EM

NR REF SOV: 004

OTHER: 002

Card 2/2

KHAZAN, G.L.; VYCHEGZHANIN, A.G.; SHAPOSHNIKOV, I.I.; MIKHAYLOVSHAYA, Ye.F.;
YATSUN, K.R.

Improving the sanitary conditions of work with sandblasting machines.
Lit. proizv. no. 5:42-43 My '61. (MIRA 14:5)
(Founding—Hygienic aspects)

SHAROVYKH, I. V., NAIKMAN, D. K.

Founding

Coaxial casting of housings and lids for reduction gearing. Lit. prosv. No. 3, 1953.

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

SHAPOSHNIKOV, K.
Popov, Dimităr, Shaposhnikov, K., and Vasilev, Khr.:
Fizika (Physics). Sofia: Peoples Ed. Press. 1962. 150
pp.

2

СРЕДНИЙ РАЙОН, 1957

VASIL'YEV, V.Z.; GEORGIYEVSKIY, N.N.; DUBYAGO, A.D.; TAUROK, V.G.; TSATSKIN, V.S.; SHAPOSHNIKOV, K.A.; DZHAVADYAN, G.A., redaktor; SOKOLOVA, T.F. tekhnicheskiiy redaktor.

[Reference tables for machine parts] Spravochnye tablitsy po detaliam mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Pt. 2.1955. 239 p. (MLRA 8:9)
(Mechanical engineering--Tables, calculations, etc)

VASIL'YEV, Vitaliy Zakharovich; GEORGIYEVSKIY, Nikolay Nikolayevich
[deceased]; DUBYAGO, Andrey Dimitriyevich [deceased]; KOKHTEV,
Andrey Aleksandrovich; TAUROK, Viktor Grigor'yevich [deceased];
TSATSKIN, Vitaliy Semenovich; SHAPOSHNIKOV, Kirill Aleksandrovich;
MUSINYAN, T.M., inzh., red.; TAIROVA, A.L., red.izd-va; TIKHANOV,
A.Ya., tekhn.red.

[Reference tables for machine parts] Spravochnye tablitsy po
detaliyam mashin. Izd.4, ispr. i dop. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry. Pt.1. 1960. 615 p.

(MIRA 14:1)

(Machinery--Standards)

VASIL'YEV, Vitaliy Zakharovich; GEORGIYEVSKIY, Nikolay Nikolayevich [deceased]; DUBYAGO, Andrey Dmitriyevich [deceased]; KOKHTEV, Andrey Aleksandrovich; TAUROK, Viktor Grigor'yevich [deceased]; TSATSKIN, Vitaliy Semenovich; SHAPOSHNIKOV, Kirill Aleksandrovich; MUSINYAN, T.M., inzh., red.; TAIROVA, A.L., red.izd-va; TIKHANOV, A.Ya., tekhn.red.

[Reference tables for machine parts] Spravochnye tablitsy po detaliam mashin. Izd.4., ispr. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Pt.2. 1961. 688 p.

(MIRA 14:4)

(Machinery--Tables, calculations, etc.)

VASIL'YEV, V.Z. [deceased]; KOKITEV, A.A.; TSATSKIN, V.S.;
SHAPCHNIKOV, K.A.; MUSINYAN, T.M., inzh., red.

[Reference tables on machine parts in 2 volumes] Spravochnye tablitsy po detaliam mashin v 2-kh tomakh. Moskava, Mashinostroenie. Vol.1. 1965. 716 p. (MIRA 18:8)

SHAPOSHNIKOV, ALEKSEY NIKOLAYEVICH
PHASE I BOOK EXPLOITATION

341

Yefimov, Aleksey Nikolayevich, Parkhuta, Andrey Nikitovich, Tilevich, Izrail' Aleksandrovich, Tuler, Lazar' Srulevich, Fel'dblyum, Boris Borisovich, and Shaposhnikov, Kas'yan Grigor'yevich

Osnovy teorii poleta samoleta (Principles of the Theory of Aircraft Flight) Moscow, Voen. izd-vo Min-va obor. SSSR, 1957. 443 p. No. of copies printed not given.

Ed.: Zakharov, D. M., Engineer-Col.; Tech. Ed.: Myasnikova, T. F.

PURPOSE: This book is intended as an aviation and technical text book on the secondary school level. It may also be used as a textbook in the study of the fundamentals of aircraft flight theory for the flying and technical personnel of the Air Forces and of the All-Union Voluntary Society for the Promotion of the Army, Aviation and Navy. The introduction is intended for readers who embark for the first time upon the study of the fundamentals of aviation. The text is approved as a textbook for military aviation and technical schools by the Chief of the Vuz Administration of the Military Air Force.

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Principles of the Theory (Cont.)

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COVERAGE: The authors discuss the fundamentals of applied general and high-speed aerodynamics, the fundamentals of the aerodynamics of propellers, aircraft performance, stability, control, maneuvering flight. The book contains 4 tables and 360 figures. There are 29 Soviet references, 4 of which are translations.

TABLE OF CONTENTS:

Introduction	3
Initial Information on Flying Machines	3
Basic Parts of an Aircraft and Their Purpose	11

SECTION I. BASIC INFORMATION ON AERODYNAMICS

Ch. I Basic Properties of the Air	24
1. Subject of aerodynamics	24
2. Basic characteristics of the air (pressure, temperature, density)	24

Card 2/17

SHAPOSHNIKOV, K.K.; SHAPOSHNIKOVA, K.I.

Tectonic regionalization of northeastern Yakutia based on geophysical data. Geol. i geofiz. no.3:42-47 '61. (MIRA 14:5)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR.
(Yakutia--Geology, Structural)

S/169/62/000/006/003/093
D228/D304

AUTHORS: Shaposhnikov, K. K. and Shaposhnikova, K. I.

TITLE: Some questions of the tectonic zoning of north-eastern Yakutiya according to geophysical data

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 5, abstract 6A22 (Geologiya i geofizika, no. 3, 1961, 42-47)

TEXT: The results are stated for the geologic interpretation of the data of gravimetric and magnetic investigations along a route, laid off from the shore of the East Siberian Sea to the Okhotsk Sea. More accurate definitions are introduced into the existing tectonic schemes for the north-east of the USSR. Data are cited about the depth of the Precambrian basement and the Mohorovicic discontinuity. /-Abstracter's note: Complete translation.-/ ✓

Card 1/1

SHAPOSHNIKOV, K.K.

Structural metallogenic zones and gravity anomalies in the
northeast of the U.S.S.R. Dokl. AN SSSR 141 no.3:701-704
N '61. (MIRA 14:11)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR. Predstavleno
akademikom D.I. Shcherbakovym.
(Siberia, Eastern--Ore deposits)
(Gravity)

SHAPOSHNIKOV, K.K.

Relief of the crystalline basement of the Southern Verkhoysansk
synclinorium. Uch. zap. IAGU no.9:121-127 '61. (MIRA 15:7)
(Verkhoysansk Range--Geology, Structural)

SHAPOSHNIKOV, K. K.

Crustal structure in the northeastern part of the U.S.S.R. based
on geophysical data. Geol. i geofiz. no.9:100-105 '62.
(MIRA 15:10)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR.

(Soviet Far East--Earth--Surface)

С. 1-2, 1949, № 12.

С. 1-2, 1949, № 12. "Л. Е. ...", Изд. Тел. ... 1-14,
Табл. 2, 1949, с. 5-7.

Со: 1-2 61, 19 April 49, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949);

SHAPOSHNIKOV, K. N.

36572. Effekt Dopplera i Otnositel'nost' Srizheniy. Trudy Tul. Neklun. In-Ta, V. 3, 1949, c. 3-8.

SO: Letopis' Zhurnal'nykh Statoy, Vol. 50, Moskva, 1949

SHAFOSHIKOV, K. N.,

36571. Upravneniye Energii i Drizheniye fotona. Trudy Tul. Mekhan. In - Ta, Vyp. 3, 1949, c. 9-19

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

AUTHOR: Shaposhnikov, K.V. (Sofia, Bulgaria) 47-58-1-16/35

TITLE: The Teaching of Physics and Astronomy in Schools of the Bulgarian People's Republic (Prepodavaniye fiziki i astronomii v shkolakh narodnoy respubliki Bolgarii)

PERIODICAL: Fizika v Shkole, 1958, # 1, pp 44-48 (USSR)

ABSTRACT: In this article the author deals with the organization of the teaching of physics and astronomy in Bulgarian schools, with the preparation of school text-books, with the production of the necessary demonstration equipment in schools, etc. He finds that the Bulgarian method is similar to the Russian. Right after the war, Russian text-books were translated into the Bulgarian language. Demonstration apparatus, formerly of Soviet origin, are now produced in Bulgaria. In physics, emphasis is laid on the study of electricity and the application of theoretical teaching to practical questions, acquainting pupils with the achievements of foreign scientists, stressing the superiority of Soviet scientists and technicians in many branches of science.

AVAILABLE: Library of Congress
Card 1/1

SHAPOSHNIKOV, K.Y., kand.tekhn.nauk; VOLKOV, I.N., inzh.

Radio dynamoscopy of operations of a sucker rod. Mekh.i avtom.
proizv. 14 no.11:36-38 N '60. (MIRA 13:11)
(Dynamometer) (Radio in industry) (Sucker rods)

S/112/59/000/014/045/085
A052/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 14, p. 188,
29916

AUTHORS: Shaposhnikov, K.Ya., Kovalenko, G.G., Zyablov, R.P.

TITLE: Radio Control System (For a Comprehensive Control of Industrial
Objects)

PERIODICAL: Tr. Taganrogs. radiotekhn. in-ta, 1958, No. 2, pp. 297-311

TEXT: A radio control system for oil wells developed by the Department
of Automation and Telemechanics of the Taganrog Radiomechanical Institute is
described. A distributing method of selection with a code consisting of sub-
carrier frequency pulses and intervals is adopted in the system. As synchronizing
pulses are used ones of 50 m sec duration with the same intervals between the
pulses; as selecting pulses and intervals are used ones prolonged up to 125 m
sec. Relays RKN and step finders ShI-11 and ShI-17 are applied in the circuits.
Frequency modulation is adopted in the radio channel. The carrier frequency is

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S/112/59/000/014/045/085
A052/A001

Radio Control System (For a Comprehensive Control of Industrial Objects)

43.7 Mc, the subcarrier frequencies are 860, 1,250, 2,000 and 3,000 cycles. The sensitivity of the radio receiver is 60 microvolts. Operating range is up to 20 km. The system is fed with 48-volt rectified current. There are 8 illustrations.

B.A.K. ✓

Translator's note: This is the full translation of the original Russian abstract.

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3-58-4-13/34

Ways of Improving the Teaching Process. Conditions for Scientific Research Have Been Created

work.

A radiotelecontrol system has been installed in the oil wells of the Kama Sea. The device can serve up to 15 wells situated on 3 special bases separated from each other by several kilometers. It can transmit and receive radio signals and carry out 12 different measurements (level, pressure, etc.). The range of the device with directional antennas is 20 km.

The system was registered at the Committee of Inventions and Discoveries attached to the USSR Council of Ministers. The Chair is at present preparing a radiotelecontrol device for the entire oil industry and has itself the task to establish a system of radiotelecontrol with semiconductors and magnetic elements, and a rectangular hysteresis loop for use in power systems and other branches of industry. It also decided to design a device for the program control of metal-cutting lathes.

ASSOCIATION: Taganrogskiy radiotekhnicheskiy institut (Taganrog Radio Engineering Institute)

AVAILABLE: Library of Congress
Card 2/2

22(1)

SOV/3-59-5-28/34

AUTHOR: Shaposhnikov, K. Ya., Candidate of Technical
Sciences, Docent

TITLE: Introducing New Means of Automation Into Pro-
duction

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 5, p 84 (USSR)

ABSTRACT: Introduction of complex automation and mechanization
of technological processes in the petroleum industry
may, within the next years, raise the labor produc-
tivity of that industry by 30%. The first intervuz
conference, recently convened in Baku, dealt with
problems of an urgent development and introduction
of new means of automation. Members of the conference
- representatives of the Azerbaydzhanskiy and Kuy-
byshevskiy industrial'nyy institut (Azerbaydzhan
and Kuybyshev Industrial Institutes), L'vovskiy poli-
tekhnicheskii (L'vov Polytechnical), Groznenskiy
neftyanoy (Groznyy Petroleum) and Taganrog Radio

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SOV/3-59-5-28/34

Introducing New Means of Automation Into Production

Engineering Institutes - and other technical workers discussed problems of automation of sinking wells and of geophysical work in the petroleum industry, processes of recovery and the processing of petroleum and gas. Candidate of Technical Sciences S.B. Godzhayev (Azerbaydzhan Industrial Institute) suggested that deep pumps with rods be replaced by rope pumps, using the automat AG-40, developed at the institute, as a basis. The new method promises considerable saving of electric energy and will reduce the expenditure of ferrous metal. N.G. Tynnaya a worker of the AS UkrSSR, devoted her address to the system of dispatching distributed items. K.Ya. Shaposhnikov, Docent of the Taganrog Radio Engineering Institute, spoke on the complex system of radiotelecontrol of the petroleum collecting points and wells located in the sea. "Frequency Method of Measuring Pressure in the Wells" was the subject dealt with by the institute instructor A.I. Danilenko. The total number of reports read was 54. The

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S/118/60/000/011/010/014
A161/A133

9.8300
9.6190

AUTHORS: Shaposhnikov, K.Ya., Candidate of Technical Sciences, and
Volkov, I.N., Engineer

TITLE: Deep-well shaft pump operation watched by radio-teledynamo-
scope

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 11, 1960,
36-38

TEXT: The existing tele-dynamometer systems of VNII, Groznenskiy
filial KBAT (The Grozny Branch of KBAT), NIPI Neftekhimavtomat and others
are using cables for communication, which is not suitable for off-shore
wells, or flooded fields, or fields with wells spaced far apart in line.
The Department of Automatics and Telemechanics of the Taganrogskiy radio-
tekhnicheskii institut (Taganrog Radio Engineering Institute) has developed
a radio system that worked satisfactorily in tests carried out in the Kam-
skoye more (Kama sea), NPU "Polazna". An effort pickup is placed on the
top shelf of the pump jack balancer for measuring the effort on the polished
rod, and a way pickup on the rotation axis of the balancer. Both pickups

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Deep-well shaft pump operation ...

are low-frequency oscillators. The effort pickup converts the variations of effort on the polished rod into variations of the oscillator fundamental frequency, f_1 , within a range of $\pm 5\%$ of f_1 ; the way pickup converts the angular displacement of the balancer into variations f_2 of fundamental velocity, within $\pm 5\%$ of f_2 . Both these frequencies are fed to a reactive transmitter tube that modulates the carrier frequency F_1 emitted by the transmitter. The modulated signals are received by the receiver and demodulated. One of the output frequencies is proportional to the effort, and the other to the way. They are fed into frequency meter filters producing d.c. voltage on the output; the voltages are fed to deflectors of an electron-ray tube with a screen with strong afterglow. The ray traces on the screen a dynamogram (Fig.1) by which the pump operation can be judged. The dispatcher can connect the dynamoscope and any pickup couple to the radio channel, or switch them off. The effort pickup design is illustrated (Fig.5) and its electric circuit included (Fig.3). It is a crystal triode oscillator with a Π -13E (P-13B) triode, the fundamental frequency $f_1 = 4170$ cycles (varying $\pm 5\%$). The frequency variation is produced by increasing and reducing the gap in the magnetic throttle circuit connected to oscillation circuit of the genera-

LX

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A161/A133

Deep-well shaft pump operation ...

tor. Feedback and high resistance in the emitter circuit ensure stable amplitude and frequency. As the outdoor temperature varies more than 30°C, the circuit capacitance has to be adjusted once in three or six months. The sensitivity and fundamental frequency can vary, the maximum sensitivity is 10 cycles/ μ ; the output voltage is about 5 v. The electric part of the pickup (Fig.5) is placed in a vertical steel cylinder (1) on a micarta plate with the exception of the inductance coil (2) that is placed in the horizontal cylinder. Rod 3, the other end of which is attached to the balancer shelf, produces displacements (proportional to the effort) which affect the magnetic circuit armature (4) varying the gap (5) and with it the inductance in the resonance circuit and the oscillator frequency. The pickup is filled with transformer oil. It is installed slightly off the rotation axis of the balancer. The design of the way pickup differs from the effort pickup by the magnetic circuit armature - it is a cam with very small eccentricity. Its operation principle is identical with the effort pickup. The entire radio-teledynamoscope is illustrated in a circuit diagram. It consists of two frequency channels with outputs to vertical and horizontal oscilloscope deflector plates; each channel consists of a filter and d.c. amplifier. The current supply is from a stabilized feed unit. The input with L₂C₂

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Deep-well shaft pump operation ...

and L_1C_1 filters produces preliminary filtering of f_1 or f_2 signals from the receiver output. The left triode, $\frac{1}{2}\Pi_1$, of each filter works as an amplifier-debooster. The signal proceeds through phase-shifting circuit of three equal links (C_3L_3 ; C_4L_4 ; C_5L_5) and Π_2 tube. The circuit has linear characteristics and a good selectivity and is used for the filtering of the frequency bands as well as for frequency measurements. The signal from the input and output of the phase-shifting circuit is fed to cathode followers (Π_3) eliminating the effect of the phase meter input resistance, and from the cathode followers to three-diode phase meter with output voltage directly proportional to the phase shift and the f_1 or f_2 frequency variation. The voltage after the phase meter is amplified by a d.c. amplifier, and fed to the oscilloscope deflectors. The dynamogram can have dimensions up to 120 x 120 mm. The system has been in operation since August 1959, as a component in the overall radio-telemechanization system of the "Polazna" oil field. There are 6 figures.

Card 4/7

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GEDELASHVILI, V.K.; SHAPOSHNIKOV, L.D.

Steel bushings and plungers. Stek.i ker. 19 no.9:32-33 S '62.
(MIRA 15:9)

1. Ordzhonikidzevskiy steklotarno-izolyatornyy zavod.
(Glass factories--Equipment and supplies)

St. Petersburg, L. E.

"Classification of Birds on the Basis of Their Feeding."

Sub 9 Nov 51, Moscow: Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees
in Moscow during 1951.

SC: Sum. No. 480, 9 May 55

SHAPOSHNIKOV, L. F.

Snipes

Experiment in classifying birds (snipe order) according to their feeding habits, Dokl.
An SSSR 84, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 195~~1~~₂, Uncl.

SHAPOSHNIKOV, L.K.; PAVLOV, Ye.N., akademik.

Structure of the avian cerebrum in relation to the characteristics of food searching functions. Dokl.AN SSSR 91 no.3:679-682 JI '53. (MLBA 6:7)

1. Akademiya nauk SSSR (for Pavlov). (Nervous system--Birds)

SHAPOSHNIKOV, L-K.

USSR/ Meteorology

Card 1/1 Pub. 86 - 25/40

Authors : Shaposhnikov, L. K. Cand. of Biolog. Sc., and Shechepinskiy, A. A.

Title : Large hail

Periodical : Priroda 3, page 109, Mar 1954

Abstract : Brief reports are given on large hail storms (diameter of hail from 4 - 7.5 cm), which took place in various parts of the USSR.

Institution :

Submitted :

ШАПОШНИКОВ, Л. К.

USSR/Miscellaneous - Publications

Card 1/1 : Pub. 124 - 29/29

Authors : Kabanov, N. E., and Shaposhnikov, L. K.

Title : To report on scientific developments in agricultural publications

Periodical : Vest. AN SSSR 6, 124-126, June 1954

Abstract : Letter to editor urging the printing of news on scientific developments in the numerous agricultural and forestry publications.

Institution : ...

Submitted : ...

SHAPOSHNIKOV, L.K.

Changes in sense organs of birds in connection with peculiarities
of their location of food. Zool.zhur.33 no.1:149-155 Ja-F '54.

(MLRA 7:2)

1. Komissiya po zapovednikam pri Prezidiume Akademii nauk SSSR.
(Sense-organs---Birds)

SHAPOSHNIKOV, L.K.

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