

*Shiyakhov, V. I.*

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DISSERTATIONS FOR DEGREES IN SCIENCE AND ENGINEERING  
DEFENDED AT USSR HIGHER EDUCATIONAL INSTITUTIONS

Knizhnaya Letopis'  
(Book Register, No. 23)

June 4, 1955

Moscow

*Cee* Shiyakhov, V. I. -- "Investigation of the Balance of the Long Wave Radiation  
in the Troposphere." Acad Sci USSR, Geophysical Inst. Moscow, 1955

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SHLYAKHOV, Vasily Ivanovich; KASTROV, V.G., redaktor; VLASOVA, Yu.V.,  
redaktor; BRAYNINA, M.I., tekhnicheskiy redaktor

[Research on the balance of long-wave radiation in the troposphere]  
Issledovanie balansa dlinnovolnovoï radiatsii v troposfere. Pod  
red. V.G.Kastrova. Leningrad, Gidrometeorologicheskoe izd-vo,  
1956. 84 p. (MLRA 10:1)  
(Radiation)

50-58-4-2/26

AUTHOR: Shlyakhov, V. I.TITLE: Concerning the Lowest Temperatures in the Antarctic  
(O minimal'nykh temperaturakh v Antarktide)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 4, pp 5-7 (USSR)

ABSTRACT:

Many problems depend on the finding of the lowest temperature possible in the central Antarctic which are connected with the set-up of innercontinental stations. It became already evident that the lowest absolute temperature is to be looked for here. This can be due to causes of circulation (permanent anti-cyclones), to the high latitude as well as to the absence of a short-wave radiation during the winter. In winter, however, the cause will probably be a reduced percentage of moisture in the air in the central part. All this leads to a reduction of the opposed radiation of the atmosphere. If the balance of the long-wave radiation (B) and the temperature of the surface of the snow (T) were given, the emission (E') can be deduced from the equation:  $B = E' - E = E' - \sigma T^4$  (1) at which  $E = \sigma T^4$  denotes the radiation of the surface of the snow. The end-temperature of the system "snow-surface-

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Concerning the Lowest Temperatures in the Antarctic

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-atmosphere" could be found if the value E' is determined for the case B = 0, i.e. the temperature has already reached a minimum value, in accordance with the formula:

T\_o = \sqrt[4]{\frac{E'}{\delta\sigma}} (2) Evidently this value must be near that

of the equilibrium temperature of the respective season. In order to check the almost constant emission of the atmosphere the velocity of the cooling radiation will be determined according to the formula

\frac{dT}{dt} = \frac{245\Delta B}{P\_1 - P\_a} (3) (ref. 1), T denoting the temperature,

t time and \Delta B the difference of balance of the radiation, (about as in ref. 1), P\_1 the pressure on the ground and P\_2 at a height of 3 km. Either the humidity must be given or in the case in question must be assumed as saturated. Computations of the station Vostok I on July 13, 1957 proved that the temperature changes within 200 hours by 10C so that this change can be neglected. The 2nd variant of computation uses formula 1. As can be seen from table 1 the values of emission of the atmosphere after having

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Concerning the Lowest Temperatures in the Antarctic

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applied the 2 methods, are very similar. As can be deduced from the results, the lowest potential temperatures in the Antarctic in heights of 4 km cannot fall below  $-80 \pm 2^{\circ}\text{C}$ . In greater heights it cannot decrease at a rate exceeding  $0,5^{\circ}\text{C}$  per 100 m. There are 1 table and 3 references, 2 of which are Soviet.

AVAILABLE: Library of Congress

1. Meteorology - Antarctic regions
2. Temperature - Theory
3. Temperature - Recording devices

Card 3/3

⑦ ONLY HAK V, V. I.

FRASE I BOOK EXPEDITION 807/5606

Nauchaya konferentsiya po problema meteorologii Antarktiki, Moscow, 1959  
Taslay doklady (Theses of Reports at the Scientific Conference on Meteorological Problems in Antarctica, Moscow, 1959) Moscow, Gidrometeoizdat (Otdelnye) 1959. 47 p. 1,000 copies printed.

Ed.: O.G. Erihach; Tech. Ed.: I.M. Zarkh.

PURPOSE: The publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

COVERAGE: This book contains summaries of thirty-five reports presented at the Scientific Conference on Meteorological Problems in Antarctica, 14-15 October, October 25 to 27, 1959. The reports are in four groups:  
(1) general characteristics of the meteorology of Antarctica; (2) atmospheric circulation; (3) radiation balance, heat balance, climate and special features of individual elements; (4) methods of observation and measurement. No personalities are mentioned. There are no references.

PART III. RADIATION BALANCE, HEAT BALANCE, CLIMATE, AND THE CONDITION OF INDIVIDUAL ELEMENTS

Kochubov, V.M. [Candidate of Geographical Sciences, Institut geografii AN SSSR (Institute of Geography AS USSR)] Formation of the Snow Cover in the Littoral Regions of Antarctica 36

Zaklyev, Kh.Ya. [Candidate of Geographical Sciences, Moskrovskiy s/d Konsiderativnyy universitet (Moscow-na-Born State University)] Special Features of Snow Accumulation in the Littoral Zone and in the High-Plateau Zone of East-west Antarctica 37

Puchchenko, M.G. [Engineer, Soyuzmorpromekt (All-Union Association for Design and Planning of Establishments of the Ministry of the Navy of the USSR)] Volume of Glacier Ice Dumped Into the Davis Sea 39

Poliv, V.F. [Candidate of Physics and Mathematics, Tsentrallyy nauchno-issledovatskiy observatoriya (Central Scientific Research Institute)] Radiation Balance of Snow on the Electric Vessel "Onix" in 1959 40

Zaklyev, Kh.Ya. [Candidate of Geographical Sciences, Moskrovskiy s/d Konsiderativnyy universitet (Moscow-na-Born State University)] Approximate Determination of the Snow and Ice Balance in the Region Investigated by the Soviet Antarctic Expedition (Eastern Antarctica) 41

PART IV. METHODS OF OBSERVATIONS AND MEASUREMENTS

Fayzov, V.A. [Central Forecasting Institute] The Temperature Correction in Computing the Geopotential of 700 mb Surface, According to Observations of Antarctic Stations 42

Sulimskiy, V.I. [Candidate of Physics and Mathematics, Tsentrallyy nauchno-issledovatskiy observatoriya (Central Scientific Research Institute)] Methods for Measuring Radiation Balance from Aircraft 43

Shirshov, V.I. [Central Aerological Observatory, 4th Soviet Continental Antarctic Expedition] Methods of Measuring the Drifting of Snow in Antarctica 43

Leashev, O.Ya. [Junior Scientific Worker, Nauchno-issledovatskiy Institut voyenno-topograficheskoy sluzhby (Scientific Research Institute of Military Topographic Service)] Contour Determination in Antarctica by the Barometric Method 44

Kuzhakov, O.G. [Central Forecasting Institute] Operations for Determining Contours by Radio Altimeter During the 2nd Soviet Antarctic Expedition (1957) 45

Bugayev, V.A. [Central Forecasting Institute] Methods for Determining the Surface Contour of Antarctica During the 1st Soviet Antarctic Expedition 46

Querry, A.M. [Institute of Applied Geophysics, AS USSR] Determination of the Absolute Altitude of the Antarctica Icecap 48

AVAILABLE: Litriny of Congress (30274-9-85)

Card 044 TN/ah 7-1-60

29710  
S/169/61/000/008/022/053  
A006/A101

3.5000

AUTHOR: Shlyakhov, V. I.

TITLE: Some peculiarities of radiation processes in the lower troposphere of the Antarctic

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 26, abstract 8B192 ("Tr. Tsentr. aerol. observ", 1959, no. 32, 66-72)

TEXT: The author submits results of observations on short-wave solar radiation during the passage of airplanes at various levels in the lower troposphere. Measurements were made with the aid of two pyranometers and the Yanishevskiy pyrhellometer. During the processing of observations, corrections were made in the pyrhellometer readings pertaining to the dependence of their sensitivity on pressure and temperature. Flights were made at 100, 1,500 and 4,500 m altitude during ascent and descent in clear weather over the snowy surface of the Shackleton and the Zapadnyy glacier in the Gauss mountain region. The author notes the smooth variation of the characteristics with altitude at an almost unchanged vertical gradient of direct solar radiation up to 4 km height, equal to  $0.004 \text{ cal/cm}^2\text{min}$  per 100 m. This is explained by the very clear

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Some peculiarities of radiation ...

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A006/A101

atmosphere over the Antarctic. The author points to the monotonous increase of summary radiation and the monotonous decrease of dispersed radiation with altitude and to the fairly rapid albedo decrease. Results of calculations are given for the radiation heating of the air in the Antarctic at the expense of radiation absorption for two distributions of specific humidity over the height in spring and summer. It is noted that in spite of the purity and dryness of the atmosphere, in some cases values of radiation air heating of the same order as in middle latitudes were observed. This is explained by the peculiarities in the distribution of specific moisture over the height.

Ye. Veremeynikova

[Abstracter's note: Complete translation]

Card 2/2



SHLYAKHOV, V.I., kand.fiz.-mat.nauk

Method of making observations with drifting snow gauges in Antarctica.  
Inform. biul. Sov. antark. eksp. no.20:26-28 '60. (MIRA 13:9)

1. Chetvertaya kontinental'naya ekspeditsiya v Antarktike.  
(Antarctic regions--Snow surveys)  
(Meteorological instruments)

SHELYAKHOV, V.I., kand.fiz.-mat.nauk

Method of measuring the radiation balance from the airplane. Inform.  
biul. Sov. antark. eksp. no.21:31-33 '60. (MIRA 13:10)

1. Chetvertaya kontinental'naya ekspeditsiya, Antarktika.  
(Antarctic regions--Solar radiation)  
(Aeronautics in meteorology)

SHLYAKHOV, V.I., kand. fiz.-matem. nauk

Establishment of an airborne observatory. Inform. biul.  
Sov. antark. eksp. no.35:28-30 '62. (MIRA 16:11)

1. Shestaya kontinental'naya ekspeditsiya.

KRUGLOVA, A.I.; SHLYAKHOV, V.I.

Total radiation of the ocean waters in Antarctica and some parts  
of the Pacific and Atlantic Oceans. Trudy TSAO no.45:90-98 '62.  
(MIRA 16:10)

ACCESSION NR: AP4040738

S/0050/64/000/006/0027/0030

AUTHOR: Shlyakhov, V. I.

TITLE: Actinometric observations on vessels of Soviet Antarctic expeditions

SOURCE: Meteorologiya i gidrologiya, no. 6, 1964, 27-30

TOPIC TAGS: actinometer, balance meter, pyr heliometer, pyranometer, compensation pyrgeometer, direct solar radiation, atmospheric radiation, effective radiation, Antarctic expedition, geographic latitude, thermal equator, sea albedo

ABSTRACT: Actinometric observations during the Soviet Antarctic expeditions have been carried out on the Ships "Kooperatsiya" and "Ob." Observations started in the Bay of Biscay and ended at the shores of Antarctica. On the return, observations started in the Davis Sea and ended in the North Sea. Three kinds of radiation were measured with Yavishevskiy's balance meter, pyranometer, actinometer and pyr heliometer, all protected by covers against sea water. The pyrometer was used to measure the scattered radiation and a compensatio

Card 1/3

ACCESSION NR: AP4040738

SUBMITTED: 03Mar64

ATD PRESS: 3044

ENCL: 00

SUB CODE: ES

NO REF SOV: 003

OTHER: 000

Card 3/3

ACC NR: AT6036328 (N) SOURCE CODE: UR/3199/66/000/011/0158/0169

AUTHOR: Bugayev, V. A.; Shlyakhov, V. I.

ORG: none

TITLE: Observations made during flight, over Wilkes Land in the Antarctic

SOURCE: AN SSSR. Mezhdovedomstvennyy geofizicheskiy komitet. Meteorologicheskiye issledovaniya, no. 11, 1966, 158-169

TOPIC TAGS: actinometry, geophysics research facility, aeronautic meteorology, aerial survey/ Antarctic exploration

ABSTRACT: During the Third Soviet Antarctic Expedition in the IGY period, an observation flight was made with an IL-12 (N-140) aircraft over the hinterland of the Antarctic and to the Wilkes Land never before visited. The relief of the area was studied, and actinometric and other observations were made. The results of the study of materials collected during the flight are presented in the article, which includes a map. Orig. art. has: 5 figures. [Authors' abstract]

[GC]

SUB CODE: 01, 04/SUBM DATE: none/ORIG REF: 007/

Card 1/1

UDC: 551.501(082)

SHYAKHOVA, G. V.: "Technical-economic principles of change in the transit portion of a turbine which determines its power characteristics." Min Higher Education US R. Leningrad Polytechnic Inst imeni M. I. Kalinin. Leningrad, 1956 (Dissertations for Degree of Candidate in Technical Sciences).

SO: Knizhnays Letopis' No. 22, 1956



GEL'TMAN, A.E., kand. tekhn. nauk; TSUKERMAN, P.V., kand. tekhn. nauk;  
SHLYAKHOVA, G.V., kand. tekhn. nauk; BUDNYATSKIY, D.M., inzh.

Selecting a rational vacuum for high-capacity condensation  
turbines. Elek. sta. 30 no.3:40-45 Mr '59. (MIRA 12:5)  
(Steam turbines)

S/788/60/000/006/002/004  
E202/E492

AUTHORS: Kozlovskiy, A.L., Candidate of Technical Sciences,  
Shlyakova, K.S., Candidate of Technical Sciences

TITLE: Interrelation between the various forms of  
aluminium oxide

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy  
institut avtojennoy obrabotki metallov. Trudy. no.6.  
1960. Kislородnaya rezka, metallizatsiya, payka. 136-139

TEXT: The authors found that gas flame deposited alumina passes from the alpha into the gamma form which contradicts the generally accepted view about the irreversibility of the alpha form. Compacted and sintered at 1600°C, alumina rod was sprayed by passing through the oxyacetylene spray gun. The original sintered and sprayed alumina was studied by means of X-ray powder photographs which showed three distinctly different patterns. Calculation of refractive indices showed that the untreated material contained both  $\alpha$  and  $\gamma$  forms while the sprayed one contained only the  $\gamma$ -form. However, the sprayed material was resistant to water, mineral and organic acids and alkalies and was considered a new modification of the  $\gamma$  form. The authors

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Interrelation between ...

S/788/60/000/006/002/004  
E202/E492

suggest that the formation of the new  $\gamma$  form at 2000°C is not due to depolymerization of the  $\alpha$  form, but due to the destruction of trimeric polymers at high temperatures and the coating comprises the  $\alpha$  form debris or the products of interaction of the latter. The cross-linking between linear molecules of  $Al_2O_3$  is attributed to the hydrogen bridges, derived from OH groups or to the polyfunctional additives, e.g. titanates. There are 2 figures. ✓

Card 2/2

RABINOVICH, Z.L.; PODKOZINA, K.M.; SHLYAKHOVA, N.I.; MIKHINOVSKIY, S.D.  
[Mikhnovskiy, S.D.]; GALENKO, D.N. [Halenko, D.M.]

Arithmetic calculator with increased computing speed. Zbir.  
prats' z obchys. mat. i tekh. 3:76-83 '61. (MIRA 15:2)  
(Calculating machines)

S/044/62/000/009/051/069  
A060/A000

9.0000

AUTHOR: Tyupa, V. G., Shlyakhova, N. I.

TITLE: On Turing type algorithms

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 37, abstract V193  
("Zb. prats' z obchisl. matom. i tekhn." T. I. Kyiv, AN URSR, 1961,  
31 - 44 (Ukrainian, Russian summary)

TEXT: Turing machines are investigated. An algorithm is described for adding on the Turing machine of two n-digit binary numbers, to realize which not more than  $2n^2 + 11n + 17$  elementary machine operations are required. Such a large number is caused by the necessity of transferring information from one number to another, which is difficult in the presence of a single reading head. A description is then given of the transformation of the corresponding Turing machine, which leads to a reduction in the number of machine states by increasing the number of symbols of the input alphabet. It is indicated that a universal Turing machine with two states is usually inconvenient, because it causes a complication of the functional scheme and an increase in the operating time

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Gard 1/2

On Turing type algorithms

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A060/A000

of the special-purpose Turing machine realized by it. A modified version of a universal Turing type machine is given. This simplified scheme possesses 20 states and makes it easier to program special-purpose functional schemes. The machine has two tapes and, accordingly, two reading heads. Such a scheme makes it possible to avoid indeterminate back and forth motions of the reading head along the tape, thus raising the speed of the algorithm and giving the possibility of easily determining the mathematical expectation of the number of elementary operations in realizing it. ✓  
B

V. V. Martynyuk

[Abstracter's note: Complete translation]

Card 2/2

S/044/62/000/010/040/042  
B158/B102

AUTHOR: Shlyakhova, N. I.

TITLE: Distribution of addresses for a vector system

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 66, abstract  
10V352 (Zb. prats' z obchisl. matem. i tekhn. v. I. Kiyev,  
AN USSR, 1961, 78-82 [Ukr.; summary in Russ.])

TEXT: An algorithm which distributes addresses (items in the memory) of  
a digital analyzer for a given system of vectors, or which works out the  
impossibility indicator for such a distribution, is examined. The  
algorithm described can easily be realized on any existing digital  
computer. The address form for writing the algorithm is given.  
[Abstracter's note: Complete translation.]

Card 1/1

(SHLYAKHOVA, V.A.

The antibacterial spectrum of microcide. Mikrobiol. zhur. 22  
no. 1:45-49 '60, (MIRA 13:10)

1. Iz Kiyevskogo meditsinskogo instituta im.akad.Bogomol'tsa,  
kafedra mikrobiologii.  
(MICROCIDE)



SHLYAKHOVA, V.A.

Effect of some physiochemical properties of the medium on the  
antibacterial properties of microcide. Mikrobiol. zhur. 23 no.2:  
34-37 '61. (MIRA 14:7)

1. Kiyevskiy meditsinskiy institut, Kafedra mikrobiologii.  
(MICROCIDE)

SHLYAKHOVA, Z.N., aspirantka

Flat knit fabrics for women's dresses and suits. Tekst. prom.  
25 no.5:48-52 My '65. (MIRA 18:5)

1. Moskovskiy tekstil'nyy institut (MTI).

PONDOMAREVA, M.N.; Prinsipalni uchastnye: TER-ISRAEL'YAN, T.M.; SHLYAKHOVA, Z.V.

Synthesizing of ore minerals based on their reflection properties.  
Dokl. AN SSSR 163 no.5:1237-1239 Ag '65. (MIRA 18:8)

L. Donetskiiy politekhnicheskiiy institut. Submitted December 22, 1964.

ACCESSION NR: AT3012133

S/2967/63/000/000/0165/0170

AUTHORS: Rabinovich, E. D.; Mikhnovskiy, S. D.; Podkolzina, K. M.; Shlyakhovaya, N. I.; Galenko, D. N.

TITLE: Arithmetic device with increased speed in execution of operations

SOURCE: Voprosy\* vy\*chislitel'noy matematiki i vy\*chislitel'noy tekhniki. Moscow, 1963, 165-170

TOPIC TAGS: arithmetic device, binary system, partial addition, combination semi-integrator, transposition, square root operation

ABSTRACT: The logical structure and various junction schemes of a parallel arithmetic device of some general type are considered. The basic operations of the device are addition, subtraction, multiplication, division, and taking the square root, all done in a binary system with fixed decimal point location. The general electronic structure of the device is given with trigger elements, amplifiers, and semiconductor triodes. To improve the economy of operation, a two work-cycle system is used, carrying out partial addition by means of a combination semi-integrator. Multiplication is performed starting with the lowest digit with partial product shifts. To accelerate division operations, a transposition code is used,

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ACCESSION NR: AT3012133

transcribing the zero digit numbers in cells of the same register by the scheme  
 $n - (j - 1) \frac{1}{2} j$ , where j- number of arbitrary zero digit. The time for performing  
a square root operation is given by  $\tau_j = (3n + 2) \tau_1 + n \tau_2$ , where n indicates quantity  
of zero digits in the mantissa of a number and  $\tau$  is the work cycle. Orig. art. has:  
10 formulas and 3 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 22Oct63

ENCL: 00

SUB CODE: CP

NO REF SOV: 003

OTHER: 001

Card 2/2

SHLYAKHOVAYA, V.A. [Shliakhova, V.A.]

Effect of microcide on the cultural and biological properties of some  
micro-organisms. Mikrobiol. zhur. 23 no.5:55-60 '61. (MIRA 14:12)

1. Kiyevskiy meditsinskiy institut, kafedra mikrobiologii.  
(MICROCID) (BACTERIA)

1250  
1327  
16.6000

1253  
1329  
16.7000

33868

S/696/61/001/000/002/007  
D251/D304

AUTHORS: Tyupa, V. H. and Shlyakhovaya, N. I.

TITLE: On Turing-type algorithms

SOURCE: Akademiya nauk Ukrayins'koyi RSR, Obchyslyuval'nyy  
tsentr. Zbirnyk prats' z obchyslyuval'nyy matematyky  
i tekhniky. v. 1, 1961, 31-44

TEXT: The authors describe their work - in which they were greatly assisted by V. M. Hlushkov and V. S. Korolyuk - on the classical Turing algorithms. Algorithms of the operation of addition of two-code numbers and the universal algorithm are discussed. The questions of the equivalent transformation of the Turing algorithms which will not vary the path of the reading head and of the minimally possible choice of states are discussed. Algorithms are proposed in detail, the functional matrices being given in tabular form. It is stated that the proposed scheme makes it possible to eliminate undefined oscillatory motion of the reading head along the tape. Thus the rapidity of action may be increased,

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D251/D304

On Turing-type algorithms

and the working time decreased. There are 5 tables and 4 referen-  
ces: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the ✓  
English-language publication reads as follows: A. M. Turing: On  
computable numbers, with an application to the Entscheidungspro-  
blem, Proc. London, Math. Soc., (2) 42, 230-265, 1936.

Card 2/2



TYUPA, V.G. [Tiupa, V.H.]; SHLYAKHOVAYA, N.I. [Shliakhova, N.I.]

Turing's algorithms. Zbir.prats' z obchys.mat.i tekh. 1:31-44 '61.  
(MIRA 16:2)

(Algorism)

SHLYAKHOVAYA, N.I. [Shliakhova, N.I.]

Distribution of addresses for a vector system. Zbir.prats: z obchys.  
mat.i tekhn. 1:78-82. '61. (MIRA 16:2)  
(Algorism) (Electronic computers--Programming)

SHI YAKHOVENKO, V. S.

Effect of R-strephanthin on the concentration of nucleic acids  
in the myocardium of rats. Farm. i toks. 22 no. 6:677-678  
N-D 165. (ISSA 19:1)

I. Kafedra farmakologii (zav. - prof. P. V. Kovcha) L'vovo-  
Frankovskogo meditsinskogo instituta.

L 35439-65 EFF(c)/EWF(j)/EWA(c)/EWT(m) Pc-4/Pr-4 RM

ACCESSION NR: AP5006845

S/0063/65/010/001/0108/0108

AUTHOR: Strizhevskiy, I. I.; Kordysh, Ye. I.; Voronova, L. Ya; Mokhova, V. S.; <sup>26</sup>  
Shlyakhover, I. V.; Sobodyr', S. G.; Estrin, S. M. <sup>25</sup> B

TITLE: Filling of cylinders with acetylene made by pyrolysis 7

SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 10, no.1, 1965, 108

TOPIC TAGS: acetylene pyrolysis, carbide based acetylene, propadiene, methyl acetylene, diacetylene, divinyl, chromatographic column, acetylene cylinder, organic solvent

ABSTRACT: Unlike acetylene made from carbide, acetylene made by pyrolysis contains the following impurities: methyl acetylene, propadiene, divinyl, diacetylene, etc. The authors experimented with filling 40-liter cylinders with acetylene made by pyrolysis in order to determine the nature of the distribution of these impurities during the emptying of the cylinders. The acetylene used had the following composition in %: C<sub>2</sub>H<sub>2</sub> 98-99.2; CO<sub>2</sub> 0.1-0.2; O<sub>2</sub> 0.05-0.1; propadiene 0.2-0.3; methyl acetylene 0.2-0.3; divinyl 0.01-0.03; vinyl acetylene 0.03-0.05; diacetylene 0.03-0.05. Prior to the experiments this acetylene was

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ACCESSION NR: AP5006845

subjected to a chromatographic analysis and to a ionization-flame detector test. In the course of experiments with discharging of acetylene from the cylinder at the rate of 0.5-0.6m<sup>3</sup>/hr in the presence of an ambient air temperature of 23°C it was found that, as the pressure decreased, the content of impurities in the acetylene emerging from the cylinder increased. With increasing temperature the amount of the residual impurities in the cylinder decreases markedly. Polymerization of the diacetylene in organic solvents is extremely slow, and the resulting polymers are non-explosive. The acetylene cylinder filled with the porous mass is a distinctive chromatographic column. Orig. art. has: 2 figures.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza (State Institute of Nitrogen Industry and Products of Organic Synthesis)

SUBMITTED: 20May64

ENCL: 00

SUB CODE: 0000

NO REF SOV: 004

OTHER: 002

Card 2/2

STRIZHEVSKIY, I.I. [Stryzhevs'kyl. I.I.]; KORDYSH, Ye.I. [Kordysh, IE.I.];  
VORONOVA, L.Ya.; MOKHOVA, V.S.; SOBODYR', S.G. [Sobodyr, S.H.];  
SHLYAKHOVER, I.V.; ESTRIN, S.M.

Balloon filling with pyrolysis acetylene. Khim. prom. [Ukr] no.1:  
69-71 Ja-Mr '65. (MIRA 18:4)

ABDULLAYEV, A.A.; KAPLAN, G.A.; MAL'TSEV, V.I.; SHLYAKHOVSKIY, I.D.

Using mathematical methods to determine the optimal blending formula for aircraft gasolines. Khim. i tekhn. topl. i masel 9 no.12:51-56 D '64. (MIRA 18:2)

1. Nauchno-issledovatel'skiy i proyektnyy institut po kompleksnoy avtomatizatsii proizvodstvennykh protsessov v neftyancy i khimicheskoy promyshlennosti i GK PTK.

SHLYAKHOVETSKIY, V.M., inzh.

Installation and operation of glass brine batteries and pipe  
systems. Izol.tekh. 40 no.2:55-59 Mr-Apr '63. (MIRA 16:4)  
(Cold storage warehouses--Equipment and supplies)  
(Pipe, Glass)



SHLYAKHOVETSKIY, V.M., inzh.

Design of air-water evaporative cooling of tank walls of glass  
furnaces. Stek.i ker. 20 no.2:7-11 F '63. (MIRA 16:2)

1. Krasnodarskiy politekhnikum.  
(Glass furnaces)

MIYAKAWA MITSUHIKO, V.M.

Artificial air cooling in glass factory ventilation systems.  
Sovk. 1 ker. 22 no.12:14-15 D '55. (MIRA 18:12)

I. Krasnodarskiy politekhnicheskiy institut.

NIKBERG, I.M.; SHLYAKHOVETSKIY, Ye.S.; ABARA, I.I.; PASHUTIN, N.V.

Establishing a laboratory index of the wear resistance of textolite for rolling mill bearings. Zav.lab. 22 no.6:731-733 '56.(MLRA 9:8)

1. Orgchermet i Makeyevskiy metallurgicheskiy zavod imeni Kirova.  
(Plastics--Testing) (Bearings (Machinery))

8(2)

SOV/32-25-5-42/56

AUTHORS:

Klempner, K. S., Machkovskiy, V. A., Shlyakhovetskiy, Ye. S.

TITLE:

Simplified Construction of a Radioactive Relay (Uproshchennaya konstruktsiya radioaktivnogo rele)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 623-624 (USSR)

ABSTRACT:

In this case the voltage stabilization of the current supply of the counter of radioactive donors with relay effect, operating with stronger absorption ( $\mu d > 4$ ) and having a time constant of the integrating chain of the magnitude of one second was excluded and thus the construction of the relay simplified. The relay construction was made with a thyatron cell of the type TsNIChM with a reaction threshold of the magnitude of 10 pulses/sec. As may be seen from the scheme of the apparatus (Fig), a rectifier (connected by way of selenium poles) and the thyatron cell are present. The anode connection of the thyatron contains an electromagnetic relay of the type MKU-48. In the case of the rectifier the high-tension can be earthed on the positive as well as the negative pole so that the tube can be connected in any way desired. A variant of the scheme without transformer has also been worked out.

Card 1/2

SOV/32-25-5-42/56

Simplified Construction of a Radioactive Relay

There are 1 figure and 2 references, 1 of which is Soviet.

ASSOCIATION: Makeyevskiy metallurgicheskiy zavod im. S. M. Kirova  
(Makeyevka Metallurgical Plant imeni S. M. Kirov)

Card 2/2

Application of Thinning Admixtures for  
Decreasing Contamination of Rimmed Steel  
by Slag

78181  
SOV/133-60-3-6/24

0.21-0.16 m/min and 0.38-0.23 m/min. In 2.5-3 min after filling up the mold, 2.5 kg (350 g/ton) of admixtures were added to the surface of metal (with simultaneous admission of radioactive calcium) as follows: 1st ingot, no admixtures; 2nd ingot, sand only; 3rd, glass only; 4th, 35% scale and 65% sand. After a few minutes, in molds covered by admixtures the surface of metal was covered by the liquid, mobile, foamy slag. On ingots without admixtures (for comparison) the slag remained hard and could be pulled inside of metal by convective flows. The  $Ca^{45}$  isotope with half-life of 152 days was selected as radioactive indicator. Results of investigation are given in Fig. 2. The authors conclude as follows: The least depth of metal contamination by slag crust takes place at the pouring rate of 0.16-0.22 m/min. The absorption of slag by steel is sharply reduced by introduction of admixtures (crushed glass or the mixture of scale with sand) to the surface of rimming metal, as was demonstrated by the radioactive indicators. There are 2 figures.

Card 2/4

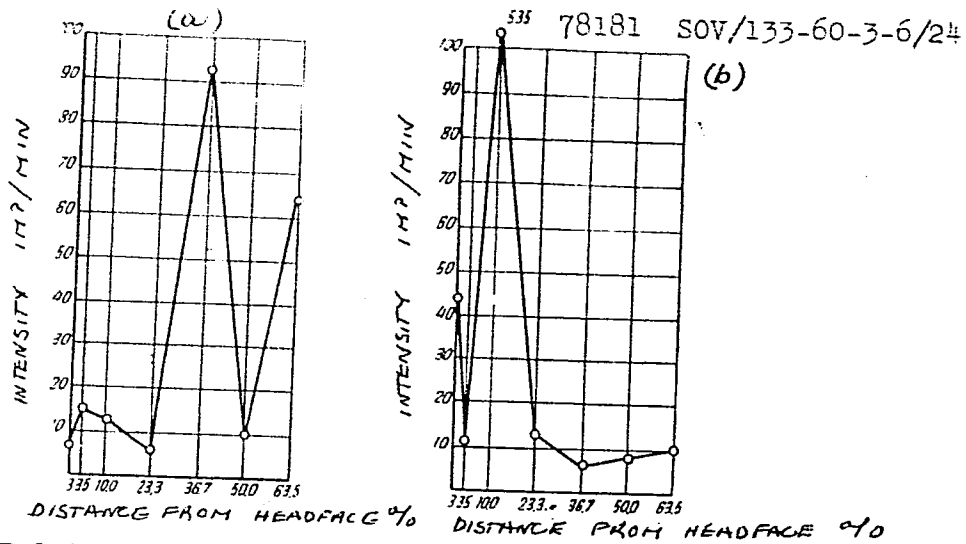
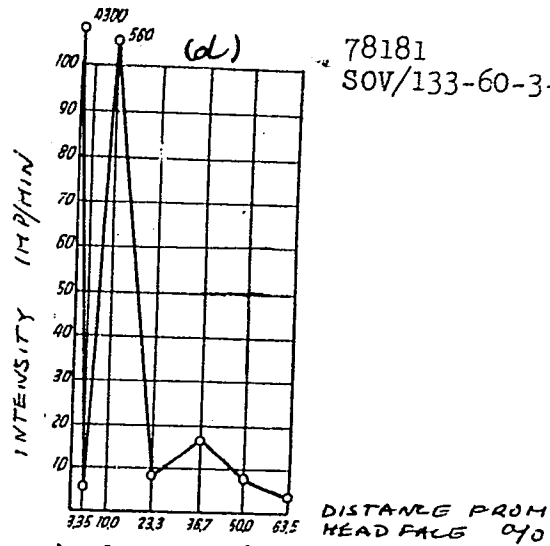
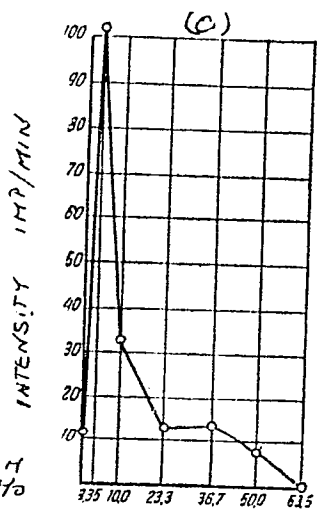


Fig. 2. Relationship between depth of penetration of slag into metal (intensity of emission of nonmetallic inclusions sedimentation) and application of thinning admixtures: (a) without admixtures; (b) with admixture of sand; (c) with admixture of glass; (d) with mixture of scale and sand.

Card 3/4



78181  
SOV/133-60-3-6/24

DISTANCE FROM HEAD FALL %

ASSOCIATION: Makeyevskiy Metallurgical Plant (Makeyevskiy metallurgicheskiy zavod).

Card 4/4



S/137/62/000/003/012/191  
AG06/A101

AUTHORS: Machkovskiy, V. A., Shiyakhovetskiy, Ye. S.

TITLE: Introduction to industrial practice of devices based on the effect of nuclear radiation

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 7, abstract 3V46 (V sb. "Radiakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 3", M.: Gos. Gostoptekhnizdat, 1961, 144)

TEXT: At the Plant imeni Kirov several instruments were assimilated which are based on the effect of radioactive devices. A signalling device was mounted on a high-pressure scrubber of a blast furnace. The UR-4 (UR-4) type level-meter was mounted on the intermediate industrial container of the ammonium department of the oxygen shop. The design and operational principles of these devices are described. Similar instruments at the Plant imeni Kirov can be used to control the flow of hydro-slurry removal at multi-cyclones of a sintering shop and the completeness of fuel combustion in TseVS boilers on the basis of the density of exhausted fume gases; they can also be used to mark the welded butts of hot rolled metal during the rolling of endless strip.  
[Abstracter's note: Complete translation] K. Ursova

Card 1/1

KOROLEV, F.L., gvardii polkovnik meditsinskoy sluzhby; LITVINENKO, N.M.,  
podpolkovnik meditsinskoy sluzhby; SHLYAKHOVOY B Ye., mayor  
meditsinskoy sluzhby; NATSVLISHVILI, G.A., starshiy leytenant  
meditsinskoy sluzhby.

Effect of necrectomy on the course of thermal burna; experimental  
studies. Voen-med. zhur. no.2:23-27 F '56 (MLRA 10:5)  
(BURNS, experimental,  
eff. of nephrectomy) (Rus)  
(KIDNEYS, effect of excision,  
on exper. burns) (Rus)

SHLYAKHOVOY, V.

Technicians of industrial design. Tekh. est. 2 no. 19:9-10  
0 '65 (MIRA 19:1)

1. Direktor Kiyevskogo khudozhestvenno-promyshlennogo tekhnika.

ZAVGORODNIY, V.P.; KOSHKAREV, A.P.; SHLYAKHOVOY, V.G., red.; LYSIK,  
O.I., tekhnred.

[Our sunny region; economy and culture of Kherson Province  
during the years of the Soviet regime] Nash solnechnyi kraj;  
ekonomika i kul'tura Khersonshchiny za gody Sovetskoi vlasti.  
Kherson, Khersonskoe knizhno-gazetnoe izd-vo, 1960. 123 p.

(MIRA 13:11)

(Kherson Province--Economic conditions)

GUKHMAN, L.A.; LISOVSKIY, A.Ye.; SHLYAKHOVSKIY, I.D.

Obtaining ashless coke and bitumen for the varnish and paint industry from the furfural extract from the refining of lubricating oil. Izv.vys.ucheb.zav.; neft' i gaz 4 no.7:79-80 '61. (MIRA 14:10)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.  
(Petroleum coke) (Bitumen) (Paint materials)

DIBNER, Ye.E., red.; LISTENGURT, M.A., st. nauchn. sotr., kand. sel'khoz. nauk, red.; MEYSAKHOVICH, Ya.A., kand. sel'khoz. nauk, red.; TARASOVA, A.Yu., red.; FILIMONOV, S.I., red.; SHKORUPEYEV, I.S., red.; SHLYAKHOVOY, Ye.M., red.; SININA, V., red.; POLONSKIY, S., tekhn. red.

[Mechanization of work in plant protection] Mekhanizatsia rabot po zashchite rastenii; sbornik trudov. Kishinev, Izd-vo sel'khoz. lit-ry, 1961. 187 p. (MIRA 16:2)

1. Nauchno-tekhnicheskoye soveshchaniye po voprosam konstruirovaniya mashin dlya zashchity plodovykh kul'tur i vinograda. Kishinev, 1960. 2. Predsedatel' Moldavskogo respublikanskogo pravleniya Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti, zamestitel' predsedatelya sovmarkhoza Moldavskoy SSR (for Shkorupeyev). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy (for Meysakhovich). 4. Moldavskaya stantsiya zashchity rasteniy (for Listengurt). 5. Zamestitel' nachal'nika Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinam dlya mekhanizatsii rabot v sadakh i na vinogradnikakh (for Dibner). 6. Nachal'nik laboratorii ispytaniy mashin Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinam dlya mekhanizatsii rabot v sadakh i na vinogradnikakh (for Shlyakhovoy). Nachal'nik issledovatel'skogo otdela Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinam dlya mekhanizatsii rabot v sadakh i na vinogradnikakh (for Filimonov).

(Spraying and dusting equipment)

STANDARDIZATION

DYSENTERY

"The Active Exposure and Dispensing of Persons Suffering from Dysentery for the Purpose of Safeguarding a Large Population Center", by Ye.S. Skovorodnikova, A.I. Bunte, L.I. Shlyakhtenko and N.N. Sheina, Trudy Leningradskogo Sanitarno-Gigiyenicheskogo Meditsinskogo Instituta. 1956 27, pp 90-97 (from Meditsinskiy Referativnyy Zhurnal, Section 1, No 2, 1957, p 66.)

The authors conclude that the successful struggle against dysentery requires not only the isolation of individuals who dwell in the focus of infection, but also the examination of all the people residing in the particular area.

Card 1/1

- 24 -

SHLYAKHTENKO, L.I.

Evaluation of the present method for removing tuberculosis patients from the register of bacillus speaders and corrections for this method. Trudy LSGMI 32:194-213 '57.

(MIRA 12:8)

1. Kafedra epidemiologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof.V.A.Bashenin).  
(TUBERCULOSIS, prev. & control  
(Rus))



SHLYAKHTENKO, L.I.; SKOVORODNIKOVA, Ye.S.; BUNTE, A.I.; GUREVICH, L.M.;  
BELOVA, I.V.; SHEINA, N.N.

Detection and dispensary care of dysentery patients for the  
improvement of sanitary conditions in a large residential area.  
Trudy ISGMI 32:287-303 '57. (MIRA 12:8)

1. Kafedra epidemiologii (zav. - prof. V.A.Bashenin), kafedra  
propedevtiki vnutrennikh bolezney (zav. - prof. S.M.Ryss),  
kafedra mikrobiologii (zav. - prof. M.N.Fisher) i kafedra  
kommunal'noy gigiyeny (zav. - prof. P.K.Ageyev) Leningradskogo  
sanitarno-gigiyenicheskogo meditsinskogo instituta.

(DYSENTERY, BACILLARY, prev. & control  
detection & dispensary serv. (Rus))

(OUTPATIENT SERVICES  
for dysentery (Rus))

SHLYAKHTENKO, Lidiya Ivanovana; GIBIETIS I. [translator]; BLANKFELDS, G.,  
red.; ERENSTEINE, A., tekhn. red.

[Prevention of tuberculosis] Tuberkulozes profilakse. Riga, Latvijas Valsts izdevnieciba, 1960. 32 p. [In Latvian translated from the Russian] (MIRA 14:12)

(TUBERCULOSIS--PREVENTION)

*Shlyakhtenko, M.I.*

USSR/Zooparasitology - Parasitic Worms.

G-2

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14919

Author : Kozhemyakin, N.G., Shlyakhtenko, M.I.

Inst : -

Title : New Method for Reviving Pork Tapeworms.

Orig Pub : Sb. rabot. Leningr. vet. in-ta, 1957, No 16, 76-79

Abstract : To check the viability of pork tapeworms it is advisable to immerse them in pure, fresh sheep bile (36-38°) previously treated (for 2 minutes) with artificial gastric juice. The time necessary to determine the biological state of tested pork tapeworms is 20-50 minutes. Revival of pork tapeworms by bile of sheep or large horned cattle alone occurs considerably more slowly.

Card 1/1

SHLYAKHTENKO, M.I.

Preparation of fibrin disks and their use in laboratory practice.  
Akt.vop.perel.krovi no.7:175-177 '59. (MIRA 13:1)

1. Laboratoriya sukhikh preparatov Leningradskogo instituta perelivaniya krovi (zav. laboratoriyey - prof. L.G. Bogomolova) i tsekh fabriunnykh plenok Leningradskogo myasokombinata im. S.M. Kirova (nachal'nik tsekha - M.I. Shlyakhtenko).  
(FIBRIN) (LABORATORIES--APPARATUS AND SUPPLIES)

111 AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

1

CA

Apparatus for rapid analysis of gases. I. A. Shlyakhter. U.S.S.R. 68,357, Apr. 30, 1947. M. Hosch

COMMON ELEMENTS

OPEN

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

RIGHT BOWING

1ST AND 2ND LETTERS

3RD LETTER

4TH LETTER

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SHLYAPIN, I. A.

LOSEV, OLEG VLADIMIROVICH, 1903, 1942.

On the tenth anniversary of the death of O. V. Losev; outstanding Soviet radio engineer. Vest. AN SSSR "-no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952..  
Unclassified.

SHLYAKHTER, I.

General, History (1900)

Voyenny svyazist, No 6, 1953, pp 5-9

Shlyakhter, I.

"From the History of the Development of Radio Direction Finding"

Outline of a work by S.I.Vavilov, former president of the Academy of Sciences, USSR. This work was reportedly written in 1916, and suggested several improvements in radio direction and range-finding technique.

SO: Referativnyy Zhurnal—Astronomiya i Geodeziya, No 1, Jan 54;  
(W-30785, 28 July 1954)

SHLYAKHTER, I. A.

USSR/Electronics - Radio Location, History

Jan 53

"Unknown Work by S. I. Vavilov on Locating Hidden Radios," P. P. Feofilov and  
I. A. Shlyakhter

Usp Fiz Nauk, Vol 49, No 1, pp 147-154

Describes an unpublished work by S. I. Vavilov concerning the location of enemy  
radio transmitters during World War I.

PA 254T61



CHW: [unclear]

High precision measuring instruments for checking holes. Izv. tekhn.  
No. 6:41-42 1955. (MIRA 18:8)

ACC NR: AP6010864 SOURCE CODE: UR/0115/66/000/002/0003/0008

AUTHOR: Shlyakhter, L. M.

61  
8

ORG: none

TITLE: Laser as a new light source; its characteristics and application to metrology

SOURCE: <sup>75</sup> Izmeritel'naya tekhnika, no. 2, 1966, 3-8

TOPIC TAGS: metrology, laser, ~~light source~~ GAS LASER, LIGHT SOURCE

ABSTRACT: Based on 1958-64 Soviet and 1958-65 Western sources, this brief review covers the following points: An elementary description of laser, its operation, and characteristics; the gas laser, and its advantages for metrological application (single mode, long coherent beam, beam directivity, continuous generation, frequency stability, wide band of available frequencies); optical frequencies beats; the first gas laser (Bell Telephone Co.); methods of suppressing undesirable modes; absolute laser interferometer calibrator (Cutler-Hammer); Canadian and British instruments. Orig. art. has: 7 figures.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 039

Card 1/1 *CC*

UDC: 621.375.9 (047.1) : 389.0

L  
SHLYAKHTER, M. I.  
1

PA 19711

USSR/Cables, Multiconductor  
Cables - Terminals

Jan 1946

"Planning and Erection of Stations Equipped with  
Cable Apparatus," M. I. Shlyakhter, 6 pp

"Vestnik Svyazi - Elektro Svyaz'" No 1 (70)

Outlines the planning and construction of a station  
with a multi-channel cable apparatus. Well illus-  
trated. Contains a number of German terms, the  
most frequent of which is "Eniverst", suggesting  
that this is an original German article or one  
written by a German.

19741

SECRET

June 1947

USA/Cables - Electric  
Echo Control

"Echo-dampers and Their Use in International Cable Lines," G. G. Porozdyuk, A. I. Shlyakhter,  
2 pp

"Vest o'znan, Elektricheskoye" No 6

Part 1 of a two-part description of the need for echo-dampers on long distance lines and  
methods for their advantageous use. Graph showing relationship of damping of echo to period  
of circulatory current of the echo.

PA 17104

*Shlyakhter, M.I.*

BORODZYUK, G.G., inzhener; SHLYAKHTER, M.I., inzhener.

Echo screeners and their use on interurban trunk lines. Vest.sviazi  
7 no.7:12-13 J1 '47. (MIRA 9:1)  
(Telecommunication)

SHLYAKHTER, N.A.

Effect of preliminary heating of the frog muscle on its resistance  
to injury by high temperatures and different chemical agents.  
TSitologiya 1 no.6:692-698 N-D '59. (MIRA 13:4)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii AN  
SSSR, Leningrad.  
(HEAT--PHYSIOLOGICAL EFFECT) (MUSCLE)

SHLYAKHTER, N.A.

Seasonal variations in the heat resistance of frog muscles.  
TSitologiya 3 no. 1:95-99 Ja-F '61. (MIRA 14:2)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii  
AN SSSR, Leningrad.  
(MUSCLE) (HEAT--PHYSIOLOGICAL EFFECT)

CHERNOKOZHEVA, I.S.; SHLYAKHTER, N.A.

Increase in the heat resistance of the muscles of grass frogs  
due to preliminary heating as related to seasonal variations  
of their heat resistance. Sbor.rab. Inst. tsit. no.6:69-77'63.  
(FROGS) (MUSCLE) (MIRA 16:8)  
(HEAT--PHYSIOLOGICAL EFFECT)



CA SHLYAKHTER, R A.

Simultaneous dimerization of diene hydrocarbons and their derivatives. A. A. Petrov and R. A. Shlyakhter. *Doklady Akad. Nauk S.S.S.R.* 75, 703-5 (1950). - Expts. on the thermal polymerization of  $(CH_2:CH)_2$  (I) with piperylene, isoprene,  $(MeCH:CH)_2$ ,  $(CH_2:CMe)_2$ , 1,3-cyclohexadiene, chloroprene, and alkoxyprenes show that mutual dimerization between the components occurs in all cases and the products may be readily sepd. from dimers of individuals or polymers, i.e. a form of diene synthesis takes place. Heating 162 g. I with 68 g. isoprene 60 hrs. at  $150^\circ$  in a steel autoclave in the presence of pyrogallol, followed by steam distn., gave 70 g. polymers, 90 g. I dimer, and 25.2 g. "codimer."  $C_{12}H_{18}$ ,  $b_m$  152-6°,  $d_4^{20}$  0.8456,  $n_D^{20}$  1.4719. Catalytic dehydrogenation over Pd-C at  $300^\circ$  and oxidation with  $KMnO_4$ , followed by sepn. of the Me esters of the resulting acids gave largely *p*- $C_6H_4(CO_2Me)_2$  and some *m*- $C_6H_4(CO_2Me)_2$ ; no  $BzOH$  was found. Hence the dimer is largely 1-methyl-4-vinylcyclohexene with a little 1-methyl-5-vinylcyclohexene. Similarly, 72 g. I and 36 g.  $(CH_2:CMe)_2$  treated as above gave 40 g. polymers, 32 g. I polymer, and 13.7 g. codimer,  $C_{12}H_{18}$ ,  $b_m$  172-6°,  $d_4^{20}$  0.8483,  $n_D^{20}$  1.4763, which on treatment as above gave 61% trimellitic acid, showing an initial structure largely of 1,2-dimethyl-4-vinylcyclohexene. Similarly I with chloroprene yielded a codimer,  $C_{11}H_{11}Cl$ ,  $b_m$  78.5-80.5°,  $d_4^{20}$  1.0063,  $n_D^{20}$  1.4008, which has the Cl atom at the double bond as it resists alc. KOH, while passage over Pd cleaves Cl, and EtPh is formed. Other codimers listed are: with piperylene,  $b_m$  148-52°,  $d_4^{20}$  0.8380,  $n_D^{20}$  1.4712; with  $(MeCH:CH)_2$ ,  $b_m$  160-72°,  $d_4^{20}$  0.8455,  $n_D^{20}$  1.4729; with cyclohexadiene,  $b_m$  105-15°,  $d_4^{20}$  0.9213,  $n_D^{20}$  1.4072; with methoxyprene,  $b_m$  72-7°,  $d_4^{20}$  0.9285,  $n_D^{20}$  1.4782; with ethoxyprene,  $b_m$  84-6°,  $d_4^{20}$  0.9080,  $n_D^{20}$  1.4730.

G. M. Kosolapoff

1951

APUKHTINA, N.P.; SHLYAKHTER, R.A.; NOVOSELOV, F.B.

Liquid thiokols. Kauch. i rez. 16 no.6:7-11 Je '57. (MIRA 10:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo  
kauchuka im. S.V. Lebedeva.  
(Rubber, Synthetic) (Vulcanization)



S/020/63/149/002/022/028  
B117/B186

AUTHORS: Shlyakhter, R. A., Apukhtina, N. P., Nasonova, T. P.

TITLE: Thiol-disulfide exchange in polysulfide polymers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 345-347

TEXT: The thiol-disulfide exchange during the mixing of polymers with different molecular weights, was studied by determining the molecular weight distribution (MWD) of polysulfides with mercaptane end groups  $HS - [R - S - S]_n - R - SH$ . MWD was determined by a method previously devised (A. N. Genkin, T. P. Nasonova, et. al., Vysokomolek. soyed., 4, no. 7, 1088 (1962)). Polysulfides with molecular weights of 600 - 3000 were synthesized, and their MWD determined. They were then mixed at room temperature for 1 hr, and the MWD of the mixture was determined. The following was found: The number of fractions with mean molecular weights (1000-2000) increases during the thiol-disulfide exchange. The number of fractions with the lowest (<1000) molecular weights decreases rapidly and that with high ones (>3000) decreases considerably. Apart from this, chemical reactions take place during mixing and form polymers with a

Card 1/2

Thiol-disulfide exchange in ...

S/020/63/149/002/022/028  
B117/B186

narrow MWD. In polymers of the same viscosity, obtained by mixing samples of different viscosities and different molecular weights, and in pure polymers, the fractions were found to show a practically equal composition. The thiol-disulfide exchange which takes place both during the synthesis of thiokols and during their mixing thus gives rise to a narrow MWD of these polymers. These results are in contradiction with the statement by E. R. Bertozzi, F. O. Davis, E. M. Fettes (J. Polym. Sci., 17 (1956)), saying that the thiol-disulfide exchange causes a wide MWD in liquid polymers. There are 1 figure and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva  
(Scientific Research Institute of Synthetic Rubber imeni S. V. Lebedev)

PRESENTED: November 29, 1962, by B. A. Arbuzov, Academician

SUBMITTED: November 19, 1962

Card 2/2

NOVOSELOK, F.B.; SOKOLOV, V.N.; APUKHTINA, N.P.; SHLYAKHTER, R.A.

Mechanism of the rupture of S-S bonds in polysulfide polymers.  
Vysokom.soed. 7 no.10:1726-1730 0 '65.

(MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka.

SHEVAKHMER, T.A.

Comparative study of the heat resistance of cells on the ciliated epithelium of some forms of starfish. TSitologiya 1 no.4:369-373  
Jl-Ag '59. (MIRA 12:10)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii  
AN SSSR, Leningrad.  
(STARFISHES) (HEAT--PHYSIOLOGICAL EFFECT)

17(1,4)

AUTHOR:

Shlyakhter, T. A.

SOV/20-124-5-61/62

TITLE:

Change in the Excitability of the Nervus Ischiadicus of the Rat After Its Transection (Izmeneniye vozбудimosti sedalishchnogo nerva krysy posle yego pererezki)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 5, pp 1174-1176 (USSR)

ABSTRACT:

In the degeneration of a nerve rheobase is considerably increased; the changes of the chronaxy are less determined and occur later than that of the rheobase (Refs 1, 5-7). The present paper deals with the investigation of the excitability of the peripheral section of the n. ischiadicus after transection on the basis of a measurement of the entire curve: tension - time. This was done (in contrast with Ref 8) at various moments after transection (1, 5, 12, 24 and 36 hours). Figure 1 shows the experimental results. It may be seen from them that during the degeneration of the nerve the curve is displaced on its total length upwards to the right. This indicates a continuous decrease of the excitability for stimuli of different duration. Moreover, the change in the chronaxy and

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Change in the Excitability of the  
Nervus Ischiadicus of the Rat After Its Transection

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the excitability constants  $a$ ,  $b$  and  $n$  (from the formula of Nasonov and Rozenal', Ref 2) are investigated. Table 1 and figure 2 show the results. The constants  $a$  and  $b$  increase at different moments after transection. This indicates a general decrease of the excitability on the total length of the curve tension - time for stimuli of different duration. The constant of "steepness"  $n$  (postoyannaya krutizny) remains almost unchanged and near 1. The chronaxy is not subject to a change of the same sign with the constants  $a$  and  $b$  (Table 1, Fig 2). Since  $a$  and  $b$  do not change in the same way, the dynamics of chronaxy at various moments after transection does not express the course of the decrease in excitability but the ratio between  $a$  and  $b$ . Thus, chronaxy in this case as well as in many others (Ref 2) cannot serve as a time-bound characteristics of the functional state of the nerve. There are 2 figures, 1 table, and 8 references, 5 of which are Soviet.

ASSOCIATION: Institut tsitologii Akademii nauk SSSR (Institute of Cytology of the Academy of Sciences, USSR)

PRESENTED: October 17, 1958, by Ye. N. Pavlovskiy, Academician

SUBMITTED: October 12, 1958  
Card 2/2

ZHIRMONSKIY, A.V.; SHLYAKTER, T.A.

Heat resistance of the organism of frogs and its cells in  
the experimental change of environmental temperature. Sbor.  
rab. Inst. tsit. no.6378-86'63. (MIRA 16:8)  
(FROGS) (HEAT---PHYSIOLOGICAL EFFECT)

SHLYZHER, T.A.

on the tolerance of the cells of ciliated epithelium of nose  
altering in their qualitative composition of lipids.  
Morfologiya 5 no.3:331-333 My-Je '63. (MIRA 1/65)

L. Laboratoriya sravnitel'noy morfologii Instituta tsitologii  
i N. V. N. Leningrad.

SHLIKHIN, I.A.

Response of the ciliated epithelium cells of lung crossens  
Phillipson to the action of some enzyme inhibitors. TSitologiya  
7 no.3:212-218 Mr-Apr '65. (MIRA 18:7)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii AN  
SSSR, Leningrad.

SHLYAKHTEP, T.A.

Response of the ciliated gill epithelium of freshwater mussel  
to the action of different chemical agents. *Tsitologiya* 7  
no.4:573-577 J1-Ag '65. (MIRA 18:9)

1. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii  
AN SSSR, Leningrad.

SHLYAKHTER, I.M.; YAROSHINSKIY, Yu.N.

Leiomyosarcoma of the urinary bladder; one observation.  
Vop.onk. 11 no.11:92-93 '66. (MIRA 1961)

1. Iz urologicheskogo otdeleniya (zav. - kand.med.nauk Z.S. Vaynberg) i patologoanatomicheskogo otdeleniya (zav. P.F. Kalitayevskiy), klinicheskoy bol'nitsy No.60 (glavnyy vrach - P.S.Februshko).

PEOFILOV, P. P.; SHLYAKHTER, Ya.

Radio - Receivers and Reception

Unknown work of S. I. Vavilov on radio detection. Usp. fiz. nauk 49, No. 1, 1953.

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

LIFSHITS, Abram Borisovich; SHLYAKHTER, Yakov Khaimovich;  
LESHCHINSKAYA, N.Z., red.; EL'KINA, E.M., tekhn. red.

[Planning in distributing cold-storage warehouses] Plani-  
rovanie na raspredelitel'nykh kholodil'nikakh. Moskva,  
Gostorgizdat, 1962. 115 p. (MIRA 15:7)  
(Cold storage warehouses)



SHLYAKHTIN, A. V.

USSR/Engineering

FD 271

Card 1/1

Authors : Kushul', M. Ya., Shlyakhtin, A. V.

Title : Theory of the vibration-driving of a cylindrical rod into an elastic-plastic medium

Periodical : Iz. Ak. Nauk SSSR, OTN, 1, 92-104, Jan 1954

Abstract : Investigates ~~theory~~ of the steady process of driving a rod into an elastic-plastic medium under the action of a constant force (weight) and a harmonic disturbing force. In determining the reaction of the medium, lateral friction of the rod against the medium and head resistance are considered. Tables, graphs.

Institution :

Submitted : October 13, 1953. Presented by Academician I. I. Artobolevskiy.

SFLYAKHTIN, A. V.

"Some Questions on the Dynamics of Vibration Dampers." Card Tech Sci, Inst of Machine Science, Acad Sci USSR, Moscow, 1955. (KL, No 17, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

ARTOBOLNVSKIY, I. I., akademik; BESSONOV, A. P., kandidat tekhnicheskikh nauk;  
SHLYAKHTIN, A. V., kandidat tekhnicheskikh nauk; MITIN, V. I., redaktor;  
~~REBINDER, P. A.~~, akademik, redaktor; PAVLOVSKIY, A. A., tekhnicheskii  
redaktor

[Vibrating machines] O mashinakh vibratsionnogo deiatviia. Moskva,  
Izd-vo Akademii nauk SSSR, 1956. 45 p. (MIRA 9:3)  
(Vibration--Industrial application)

KOBRINSKIY, A. Ye.; SHLYAKHTIN, A. V.; YAMSHCHIKOVA, M. N.

Vibrations of nonlinear systems caused by periodical impacts.  
Trudy Inst.mash.Sem.po teor.mash. 18 no.70:49-67 -1958  
(MIRA 12:1)

(Vibration)

SHLYAKHTIN, A.V.

Forced vibrations of a single-mass system with a characteristic  
composed of two rectilinear sections. Trudy Inst. mash. Sem. po teor.  
mash. 19 no.73:48-62 '59. (MIRA 13:3)  
(Vibration)

SHLYAKHTIN, A.V.; BORTKEVICH, N.I.

Determining forced vibrations of a system with a nonlinear  
regenerating force. Trudy Inst. mash. Sem. po teor. mash. 19  
no.74:58-67 '59. (MIRA 13:2)  
(Vibration)

SILYARIN, A. V.

BASE I BOOK EXPLOITATION

SOV/4530

Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin i mekhanizmov. 2d, Moscow, 1958

Dinamika mashin; sbornik statey (Dynamics of Machines; Collection of Articles) Moscow, Mashgiz, 1960. 240 p. (Its: Trudy) Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Institut mashinovedeniya Akademii nauk SSSR.

Editorial Board: I. I. Artobolevskiy (Resp. Ed.) Academician, S. I. Artobolevskiy, Doctor of Technical Sciences, Professor, G. G. Baranov, Doctor of Technical Sciences, Professor, A. P. Bessonov, Candidate of Technical Sciences, V. A. Gavrilenko, Doctor of Technical Sciences, Professor, A. Ye. Kobrinskiy, Doctor of Technical Sciences, N. I. Levitskiy, Doctor of Technical Sciences, Professor, and L. N. Reshetov, Doctor of Technical Sciences, Professor;

Ed.: L. V. Bezmenova, Candidate of Technical Sciences; Managing Ed. for General Technical Literature and Literature on Transport Machine Building (Mashgiz):

~~Card 1/6~~

Dynamics of Machines (Cont.)

SOV/4530

A. P. Kozlov, Engineer; Tech. Ed.: B. I. Model'.

PURPOSE: This collection of articles is intended for engineers, designers, workers at scientific research institutes, and instructors at schools of higher technical education.

COVERAGE: This collection consists of reports presented at the All-Union Conference on Problems in the Theory of Machines and Mechanisms held in Moscow in 1958. The reports discuss several problems of the dynamic design of complex mechanical systems. No personalities are mentioned. References accompany most of the articles.

TABLE OF CONTENTS:

Bessonov, A. P., and A. V. Shlyakhtin, Candidates of Technical Sciences. Some Problems in the Dynamics of Machines of Vibratory Action

5

Blekhman, I. I., Candidate of Physics and Mathematics. Theory of Self-Synchronization of Mechanical Vibrators

~~Card 2/6~~



KOBRINSKIY, A.Ye.; SHLYAKHTIN, A.V.; YAMSHCHIKOVA, M.N.

Theory of vibration impact machines. Trudy Inst. mash. Sem.  
po teor. mash. 20 no. 79:27-43 '60. (MIRA 1j:12)  
(Vibrators) (Impact)

SHLYAKHTIN, A.V.

Periodic motion of a fragmentarily linear system under the action  
of impulses. Trudy Inst.mash. Sem. po teor.mash. 21 no.81/82:30-45  
'60. (MIRA 13:14)

(Mechanical movements)

35010

S/586/61/022/085/001/003  
D234/D304

24.4100

AUTHORS:

Sil'vestrov, E. Ye., and Shlyakhtin, A. V.

TITLE:

Motion of a vibrational system under the action of a force depending on time

SOURCE:

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po teorii mashin i mekhanizmov. Trudy, v. 22, no. 85/86. Moscow, 1961, 51-67

TEXT: The external force  $S$  is assumed to be periodical, the graph of a period consisting of a triangle followed by a segment  $S = 0$ . The problem consists in determining the periodical regimes of motion. The action of  $S$  is considered as not instantaneous and small displacements of the limiting block  $M$  in the process of stabilized motion of the mass  $m$  are taken into account. This dynamical model is obtained in analysis of some vibrational machines. The periodical regime is determined first for the case of friction forces being absent. Conditions for the existence and stability of periodical motion are derived and represented on a graph. Differential equations of motion are also derived for the case of friction

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S/586/61/022/085/001/003  
D234/D304

Motion of a vibrational ...

forces linearly proportional to velocity, the solutions and the conditions of stability are stated to be complicated and are not quoted. Numerical examples are given. A chapter deals with an approximate determination of the periodical motion of an electromechanical vibrator with two degrees of freedom, subject to a harmonical force and elasto-plastic reactions of the medium, whose characteristics can be approximated by a finite number of straight line segments. The displacement in this case is represented by a Fourier series and methods of successive approximation and of initial parameters are used. There are 7 figures and 4 Soviet-bloc references.

SUBMITTED: March 1, 1960

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