

AFENDULOV, K.P., kand. sel'skokhoz. nauk

Strain renovation time for seed production in Chernigov
Province. Agrobiologiya no.3:347-349 My-Je '65.

(MIRA 18:11)

1. Chernigovskaya oblastnaya sel'skokhozyaystvennaya
opytnaya stantsiya.

AFENDUL'YEV, A.A., kand.tekhn.nauk; SKIPSKIY, P.S., kand.tekhn.nauk

Calculating unilaterally connected beams on elastic foundations.
Trudy GISI no.25:72-81 '56. (MIRA 11:5)
(Girders)

SOV/124-58-7-8115

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 115 (USSR)

AUTHORS: Afendul'yev, A. A., Skipskiy, P. S.

TITLE: Use of the Method of Forces in the Calculation of Beams Resting on an Attached Elastic Support (Primeneniye metoda sil pri raschete balok na svyaznom uprugom osnovanii)

PERIODICAL: Tr. Gor'kovsk. inzh. -stroit. in-ta, 1956, Nr 25, pp 82-102

ABSTRACT: A continuous connection between a beam and its elastic support is replaced by connections at a finite number of points. For the calculations a variant of the method of forces is proposed in which, in place of the redundant unknowns, the forces exerted at all the connections---excepting at any two adjacent ones---are used. It is the author's opinion that this method of calculation is more convenient in practice, since it involves fewer mathematical operations than do the methods now in use. Two numerical examples are offered.

P. I. Klubin

Card 1/1

1. Beams--Mathematical analysis
2. Structures--Applications
3. Mathematics--Applications

AFENDUL'YEV, A.A.

Calculating laminated foundations. Trudy GISI no.44:119-127 '63.
(MIRA 17:11)

5(4)

AUTHOR:

Afenkov, N. I.

SOV/153-58-6-22/22

TITLE:

Measurement of the Specific Volume of Some Organic Liquids by Means of a Dismountable Dilatometer (Izmereniye udel'nogo ob'yema nekotorykh organicheskikh zhidkostey raz'yemnym dilatometrom)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, No 6, pp 128-132 (USSR)

ABSTRACT:

The construction of known dilatometers (Refs 1-3) has several shortcomings (Refs 4,5). The dilatometer of J. S. Burlew (Yerl'yu, Ref 5) is the most useful of them, however, needing improvement as well. Its shortcomings may be eliminated by rendering the container and the capillary tubes dismountable. These improvements as well as the use of the mentioned dilatometer for the measurement of the specific volume of some halogen derivatives of ethane, ethylene, and propane are discussed in the present paper. Figure 1 shows the mentioned dilatometer. Its checking and the determined physical properties of benzene and chlorine benzene (Table 1) and the results of measurement of the specific volume of the 6 organic liquids: $\text{CCl}_2=\text{CCl}_2$, $\text{CHCl}=\text{CCl}_2$, $\text{CHCl}_2=\text{CHCl}_2$,

Card 1/2

Measurement of the Specific Volume of Some Organic
Liquids by Means of a Dismountable Dilatometer

SOV/153-58-6-22/22

$\text{CH}_3\text{-CH}_2\text{-CH}_2\text{Cl}$, $(\text{CH}_3)_2\text{=CHCl}$ and $(\text{CH}_3)_2\text{=CHBr}$ (Tables 4,5) are discussed in special chapters. Tables 2 and 3 give the coefficients in equation (3) and in equation (4) (coefficients of the thermal dilatation) which were calculated according to the method of the least squares. The results obtained by the author widen the field of experimental results for the specific volumes of the investigated liquids and define exactly the present values of the dilatation coefficients of these liquids. The last mentioned was especially necessary. The obtained results are well in line with the references 20, 27,12, 21-26, except the coefficient for CHCl=CCl_2 (Refs 26,28). There are 1 figure, 5 tables, and 28 references, 7 of which are Soviet.

ASSOCIATION: Kafedra fiziki, Ivanovskiy khimiko-tekhnologicheskii institut
(Chair of Physics, Ivanovo Institute of Chemical Technology)

SUBMITTED: October 3, 1957

Card 2/2

5(4)

AUTHOR:

Afenkov, N.I.

SOV/153-2-5-11/31

TITLE:

A Formula for Calculating the Isothermal Compressibility of Liquids

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 5, pp 706-710 (USSR)

ABSTRACT:

The compressibility of liquids is in close relation to their structure as is generally known. The author attempted to determine the relation between the isothermal compressibility and the critical temperature. He additionally studied the dependence of the compressibility on the properties of the liquids. This task can be solved by using the equation for pressure derived by K.M. Stakhorskiy (Ref 4):

$$P_i = \frac{2373}{Mv} \left(T - \frac{T}{T_c} \right) \quad (1), \text{ where } Mv = \text{molecular volume and}$$

T_c = critical absolute temperature. Based on this equation and additional formulas (2), (4) and (5), he calculated the values of compressibility (Tables 1,3). In table 2, he makes a comparison with the data according to the thermodynamic formula (6). For the 28 liquids studied by the author, the values

Card 1/3

A Formula for Calculating the Isothermal
Compressibility of Liquids

SOV/153-2-5-11/31

benzene and the series of 1-atomic alcohols. The fact that the compressibility of the isologs follows the above dependence makes possible the use of (11) for the calculation of this characteristic. Hereby, the physical characteristics easily determinable by experiment are taken as a basis. There are 2 figures, 4 tables, and 16 references, 8 of which are Soviet. ✓

ASSOCIATION: Ivanovskiy khimiko-tekhnologicheskii institut; Kafedra fiziki
(Ivanovo Chemical-technological Institute, Chair of Physics)

SUBMITTED: April 8, 1958

Card 3/3

AFENKOV, N.I.

Applying the law of corresponding states to the compressibility and heat capacity of liquids. Izv.vys.uch.zav.; khim.i khim.tekh. 5 no.4:672-674 '62. (MIRA 15:12)

1. Dzhambulskiy filial Kazakhskogo tekhnologicheskogo instituta, kafedra fiziki.

(Compressibility)

(Heat capacity)

AFFELTOWICZ, Bogdan, mgr. inż.

Parts sintered from metal powders in the motor vehicle industry. Techn motor 13 no.10:340-348 0'63.

1. Biuro konstrukcyjne Przemysłu Motoryzacyjnego, Warszawa.

L 8256-66 EWT(1)/EWT(m)/ETC/EPF(n)-2/EWG(m)
ACCESSION NR: AP5021818

WH
YU/0020/65/000/001/0008/0012

66
68
68

44, 55
AUTHOR: Anastasijevic, P (Graduate engineer, Head special associate);
Afgan, N. (Graduate engineer, Assistant)

44, 55
TITLE: Investigation in the field of heat convection and mass transfer. A step toward construction of reactors in our country /Yugoslavia/

19
SOURCE: Nuklearna energija, no. 1, 1965, 8-12

" " " 21, 44, 55
TOPIC TAGS: nuclear reactor, heat transfer, convective heat transfer

ABSTRACT: A description is given of work in progress at the "Boris Kidrich" nuclear laboratory in Vincha (Vinca) near Belgrade for the construction of a new nuclear laboratory to design the first atomic power station in Yugoslavia. Inasmuch as future reactors will be either gas or water-cooled, present investigations and preparations are guided in that direction. Research in nuclear technology started in 1953 at the "Boris Kidrich" Institute for Nuclear Sciences which later built a pilot reactor. Initially, 20 scientists worked on this project. A non-common method of measuring the mechanism of heat transfer has been found which permits the development of a new concept in designing surfaces of heat exchangers. Liquid metals as a heat convection agent were also considered. In 1962 a two year

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ACCESSION NR: AP5021818

44,55 6
postgraduate course in nuclear thermoelectrical engineering was introduced in the Electro-engineering Dept., Belgrade University, and in 1964 a similar course was offered in the Mechanical Dept. with 15 and 10 students, respectively, enrolled in these courses. A new laboratory is also planned. It will have the modern equipment necessary for carrying out the entire project. Orig. art. has: 6 figures and 10 references.

44,55
ASSOCIATION: "Boris Kidrich" Institute for Nuclear Sciences, Belgrade

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 000

OTHER: 010

PC

Card 2/2

ACCESSION NR: AF4017960

I/0001/64/000/003/0483/0486

AUTHOR: Afgan, Naim (Engineer); Oka, Simeon (Engineer)

TITLE: Calibration of an orifice meter in an air circuit

SOURCE: Tehnika, no. 3, 1964, 483-486

TOPIC TAGS: calibration, standard orifice meter, flow measurement, orifice meter, orifice meter calibration, open air circuit, flow range

ABSTRACT: The article gives a method of calibration to within 1% of a standard orifice meter in an open air circuit in the flow range of 0.1-1.4 kg/sec. The real flow was calculated by measuring local velocities with Pitot tubes and integrating with respect to the profile of the points of measurement. These values were taken then compared to the values measured on a standard orifice. The results of the measurement and analysis of error are given in diagrams as the dependence of the real flow on the calculated flow for a standard orifice. Three orifices with diameters of 50, 70 and 100 mm were calibrated in order to cover the whole flow range with the desired percentage of error. Calculation showed that where an orifice of a single diameter was used, the absolute error of measurement was constant, which means that the relative error decreased as flow

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ACCESSION NR: AP4017960

increased. The regions of probable relative error of less than 1% in measuring the real flow G coincided for all three orifices. Orig. art. has: 5 figures and 7 formulas.

ASSOCIATION: Institut za nuklearne nauke "Boris Kidric," Belgrade-Vinca
(Institute for Nuclear Sciences)

SUBMITTED: 08Sep63

DATE ACQ: 112Mar64

ENCL: 00

SUB CODE: FH, AI

NO REF SOV: 002

OTHER: 002

Card 2/2

BULBUKA, I. [Bulbuca, I.]; GAVRILESKU, S. [Gavrilescu, S.]; DEYTSH, G. [Deits, G.]; DIAKONESKU, N. [Diaconescu, N.]; LOZANU, K. [Lozany, K.], red.; AFILIPOAYYEV, Ye. [Afilipoaiei, E.], tekhn. red.

[Methods for studying the hydro-electrolytic balance] Metody issledovaniia gidro-elektroliticheskogo ravnovesiia. Bucharest, Med.izd-vo, 1962. 175 p. (MIRA 16:7)
(BODY FLUIDS)

AFIMOV, N.N.

Hydrobiological research methods used in evaluating sea water from
a sanitary point of view. Trudy Gidrobiel. sb-va 9:360-366 '59.
(MIRA 12:9)

L.Veyenne-morskaya meditsinskaya akademiya.
(Sea water--Pollution) (Algae)

1. AFINOGENOV, A.

2. USSR (600)

4. Farm Buildings

7. Mechanization of labor on the collective farm. Sel'.stroi 7 no. 5, 1952.

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

AFINOGENOV, G.

USSR/General Biology. Genetics

B-5

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 93971

Author : Afinogenov G.
Inst : Moscow Agricultural Acad. imeni K.A. Timiryazova,
Title : Quince Grafts on Different Pear and Chokeberry
Types

Orig Pub : Sb. stud. nauchno-issled. rabot. Mosk. s.-kh.
akad. im. K.A. Timiryazova, 1958, vyp. 3, 103-107

Abstract : In order to get a dwarf rootstock for a pear,
author grafted quince sprouts while in "clavicular"
phase (when the seedlobe has not thrown the skin)
on the seedlings of pear's lukashovki and chokeber-
ry. Obtained are more than 100 acclimatized
grafts.

Card : 1/1

~~AFINOGHENOV, L. P.~~ [Afinogenov, L. P.]; BACAL, M.

Stabilization of a microscopic particle, charged in a Millikan vacuum condenser. Studii cerc fiz 12 no.2:449-460 '61.

1. Institutul fizico-tehnic "A.F.Ioffe" al Academiei de Stiinte a U.R.S.S.

(Vacuum apparatus) (Condensers(Electricity))
(Cosmic rays)

9.7060

31823
S/194/61/000/010/019/082
D222/D301

AUTHOR: Afinogenov, L.P.

TITLE: On realizing logical functions by ferrite circuits

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 10, abstract 10 B72 (Nauchno-tekhn. inform. byul. Leningr. politckhn. in-t, 1960, no. 8, 109-121)

TEXT: A complicated logical function is resolved into a sequence of elementary logical operations, each of which is realized by the intersection of a ferrite core with rectangular magnetization characteristic and a conductor in the required direction. The currents acting on a core must be simultaneously in one direction: the magnitude of each of them is sufficient for complete remagnetization of the core. Depending on the character of the function to be realized, both sequential and grouped introduction of the arguments is possible. Having introduced all arguments, reading can be carried

Card 1/2

S/194/61/000/012/030/097
D201/D303

AUTHORS: Afinogenov, L. P., Yefremov, V. D. and Kolosov, V. G.

TITLE: Counting and logic ferrite systems, based on the principle of current distribution

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 28, abstract 12B177 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 12, 32-42)


TEXT: The circuits of counting and logic devices are considered: Binary and decimal reversible counters, binary storage adders, decoders for 32 and 1024 outputs, a code comparison circuit and a circuit for memory code comparison. The following requirements had to be taken into consideration in designing the above circuits: 1) Large signal-to-noise ratio; 2) the lack of flowing back information; 3) use of components of long-life-time; the circuit operation should not largely depend on the spread of circuit component parameters and on the supply voltage and pulse changes; 4) the

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Counting and logic ...

S/194/61/000/012/030/097
D201/D303

superimposition principle or compensation of signals from various sources is inadmissible. [Abstractor's note: Complete translation.]



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S/194/62/000/001/010/066
D201/D305

9.7000

AUTHORS: Afinogenov, L. P., Yefremov, V. D. and Kolosov, V.G.

TITLE: Ferrite switching circuits based on the principle of current distribution

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, abstract 1-2-9g (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 12, 24-31)

TEXT: A description of circuits, designed on the principle of current distribution, is given. They may find wide application in various switching arrangements. The described circuits are distinguished by an excellent reliability, simplicity and fast operation. The following are described: The basic circuit of a ferrite switch, its functional circuit diagram, a distributor circuit with a reduced number of ferrite elements, a cascaded distributor connection and the circuits of two cells of a shift register. 6 figures. 7 references. [Abstracter's note: Complete translation.]

VB

Card 1/1

AFINOGENOV, L. P.

Approximate determination of the number of pieces in case of
a piecewise linear approximation. Izv. vys. ucheb. zav.; prib.
6 no.2:47-53 '63. (MIRA 16:4)

1. Leningradskoy politekhnicheskoy institut imeni M. I. Kalinina.
Rekomendovana kafedroy avtomatiki i telemekhaniki.

(Approximate computation)

AKSENOV, M. A.

L 54368-55 EIT(d)/EIT(m)/EEC(k)-2/EWP(1)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EED-2 //
EWP(b)/EWP(1)/EWA(c) Pg-4/Pf-4/Pad/Pg-4/Pk-4 LJP(-) BB/JD/HA/JG/CG
ACCESSION NR: AP5013852 UR/0103/65/026/005/0938/0942
681.142.6

AUTHOR: Boyarchonkov, M. A.

TITLE: All-Union Conference on magnetic elements of automation and computer technique

SCURCE: Avtomatika i telemekhanika, v. 26, no. 5, 1965, 938-942

TOPIC TAGS: electric engineering conference, magnetism conference, computer component, automation equipment, automation, electronic data processing

ABSTRACT: The Ninth All-Union Conference on Magnetic Elements of Automation and Computer Technology, held in Kaunas from 7 to 10 September 1964, was organized by the National Committee of the USSR on Automatic Control, the Institute of Power and Electrical Engineering of the Academy of Sciences, Lithuanian SSR, the Lithuanian Scientific and Technical Society of the Instrument Building Industry, and the Institute of Automation and Telemechanics of the Main Committee on Instrument Building, Means of Automation, and Control Systems under Gosplan and the Academy of Sciences USSR. Over 450 participants discussed some 80 reports concerning the theory, design,

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L 54260-65

ACCESSION NR: AP5013852

production, and application of magnetic and magnetic-semiconductor elements. Reports were presented for seven areas: digital and analog elements, memory devices, magnetic power devices, magnetic amplifiers and converters, parametrons, and power sources.

At the opening plenary session, M. A. Rozenblat presented a survey of the present state of contactless magnetic elements, which he considers to be one of the most efficient and promising technical means of automation and computer technology. Problems of designing logic elements to provide stable operation for various types of circuits were discussed in a series of reports. B. A. Yefimov and G. N. Chizhukhin reported on the development of modules of ferrite-transistor elements (FTE) which can be used for various types of computers and also for discrete automation for general and special purposes. This system provides reliable operation at a 200-ke clock frequency in the -10 to +50°C temperature range.

The same authors together with M. A. Aksenov reported on the development of a general-purpose heavy-duty FTE which can be used as a cell of a clock-frequency pulse generator or as an independent heavy-duty control

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L 54868-55

ACCESSION NR: AP5013852

element. It is capable of performing command recording or readout of information reaching it in large quantities from a low-power FTE. I. A. Tyumin, B. A. Yefimov, and A. A. Shavrov reported on the development and testing of biax-type logic circuits operating at 1 Mc and performing several logic operations. Advantages cited are: high s/n ratio, about 20; high switching rate, about 2 Mc; and high reliability due to the simplicity of the circuit. Such circuits may also be used in complex logic devices. Additional reports discussed logic circuits using biax-type elements in a working storage device with a nondestructive readout cycle of 10^{-7} sec and a recording time for new information of several microseconds. 6

L. P. Afinogenov et al. reported on discrete and discrete-analog computer units based on the use of the area of an emf pulse originating in the winding during magnetization reversal in the ferrite. Development of ferrite matrixes which release a voltage pulse at the output with an area proportional to the code supplied at the matrix input was also discussed.

Problems connected with the development of single-wire memory elements with multiperture ferrite plates were presented by R. A. Lashev.

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L 54868-65

ACCESSION NR: AP5013852

skiy et al. A. S. Sverdloy and others presented results of developing working storage units using miniature memory cubes made with multiaperture ferrite plates. 7

Thin-film technology was discussed in several reports. A paper by Ye. F. Berezhnyy et al. dealt with the development of a super storage device built on thin-film matrices with conductive substrates with a capacity of 64 56-bit words and a cycle of 400 nsec. Experiments with magnetic-film storage devices produced by electrochemical deposition on glass and metal cylindrical substrates were discussed, and a method of using an element of cylindrical magnetic film in a matrix storage device was also reported.

A. Tutauskas and R. Litvinaytis reported on a stable storage device with a short access time, a capacity of 512 x 32 bits, an access rate of 500 kc, and a readout time of 1 μ sec. A. B. Lyasko et al. have developed a small decade counter of periodic and nonperiodic signals in which a parametric element with five stable phase states was used. The counter displays better energy properties than other known counters, high reliability, and high noise immunity. A. G. Rabin'kin reported on the characteristics of

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L 54868-35

ACCESSION NR: AP5013852

new high-coercivity (5000 oe) alloys of the coba-platinum system. M. A. Rozenblat et al. discussed the theory and design of magnetic analog computing devices (adder, integrator, multiplier) based on single-stage magnetic amplifiers using magnetic analog storage.

A large number of reports was devoted to the theory and application of power magnetic devices. The papers presented by the Gor'kiy school of A. M. Bamdas concerning frequency multipliers and voltage stabilizers were of great interest in this field.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: DP, IE

ATD PRESS: 4021-F

Card *gm* 5/5

ACC NR: AP7002991

(A)

SOURCE CODE: UR/0413/66/000/024/0089/0090

INVENTORS: Al'tshul', S. D.; Afinogenov, L. P.; Buyanov, B. B.; Volkov, A. F.; Gil'man, G. I.; Domanitskiy, S. M.; Pavlov, Ye. N.; Rog, G. V.; Trapeznikov, V. A.

ORG: none

TITLE: Controlling logic machine. Class 42, No. 189629

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 89-90

TOPIC TAGS: logic circuit, computer logic

ABSTRACT: This Author Certificate presents a controlling logic machine containing input and output devices, a storage device, a control device, a logic device consisting of "NOT", "AND", and "OR" circuits, input logic units, triggers, and delay lines (see Fig. 1). To achieve group processing of information between the elements

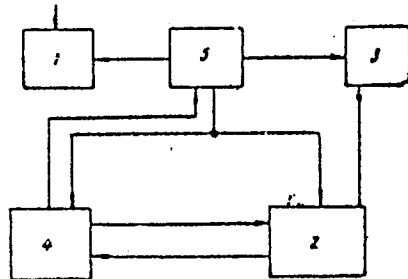


Fig. 1. 1 - input device;
2 - logic device; 3 - output
device; 4 - storage device;
5 - control device

Card 1/2

UDC: 681.142

ACC NR: AP7002991

of the selected group for reduction of the computation program, the outputs of the input logic units are connected to "OR" circuits. The output of the first "OR" circuit is connected through a first gate (also connected to the first output of the control device) to the input of the result storage trigger. The output of the second "OR" circuit is connected through a second gate (also connected to the second output of the control device) to the input of the result storage trigger, through an inverter and third gate to the input of the result storage trigger, and through a fourth gate and through a delay line and fifth gate to the input of the result storage register. The second inputs of the third, fourth, and fifth gates are connected respectively to the third output of the control device, to the output of the result storage trigger, and to the fourth output of the control device. The second input of the result storage trigger is connected to the fifth output of the control device. The output of the result storage trigger is connected through a sixth gate (whose second input is connected to the sixth output of the control device) to the result storage register and through a seventh gate (whose other input is connected to the controlling input of the input logic unit) to the other input of the input logic unit. Orig. art. has: 1 diagram.

SUB CODE: 09/

SUBM DATE: 11Feb65

Card 2/2

AFINOGENOV, M.

Not a meter wasted. Izobr. i rats. no.8:20 Ag '61. (MIRA 14:9)

1. Aktivist Tsentral'nogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorcv. Izobr. i rats. no.8:20 Ag '61.
(Stalinabad--Textile industry)

41917

15.2125
17.1104

S/191/62/000/011/012/019
B101/B186

AUTHORS: Shlenskiy, O. F., Afinogenov, M. P.

TITLE: Determination of some thermophysical properties of glass textolite in the temperature range of 20-600°C

PERIODICAL: Plasticheskiye massy, no. 11, 1962, 53-57

TEXT: The heat absorption $I_q(t)$, kcal/m³, of glass textolite made of T-1 (T-1) glass fabric and a binding agent of 70% ~~PA~~-6 (ED-6) and 30% ~~MI~~ (IF) resin for a given temperature, t , and a given heat flow q was determined with a heating apparatus as described by O. Krischer (VDI Zeitschrift, no. 23 (1958)). Hence the specific heat C_p , kcal/kg·°C, was calculated. The change in weight by volume owing to thermal decomposition was also determined. $t = 8.42s^{1.8} + 433$ (s = coordinate counted from the specimen center) was found for the temperature distribution within the specimen at a specimen thickness of 4.2 mm; output of the heater 380 w; $q = 3.45 \cdot 10^6$ kcal/hr·m³; temperature measurement at 0.9 and 1.5 mm distance from the specimen center. $t_{mean} = t_0 + \Delta t/3$ holds for the mean

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Determination of some thermophysical ...

S/191/62/000/011/012/019
B101/B186

temperature, where t_0 is the temperature in the specimen center, and Δt the temperature drop between center and surface. It was found (Fig. 5) that C_p had maxima in the range of 260-400°C corresponding to deflections in the curves $I_q = f(t)$ caused by strong gas generation. The density-versus-temperature curves tend toward a limiting curve that corresponds to a heating at an infinite rate. The dependence of C_p on the rate of heating indicates that heat conductivity and thermal diffusivity must have a similar dependence. The following is written for estimating the quantity of heat H_{eff} led off by the decomposition products of the binder:

$$H_{eff} = I_q(t') + C(t)_{filler}(t_{en} - t),$$

where t' is the temperature at which the binder is completely burnt, t_{en} is the temperature of the entrained substances. An apparatus with a heat flow in the order of 10^5 kcal/m².hr is satisfactory for determining I_q . There are 7 figures.

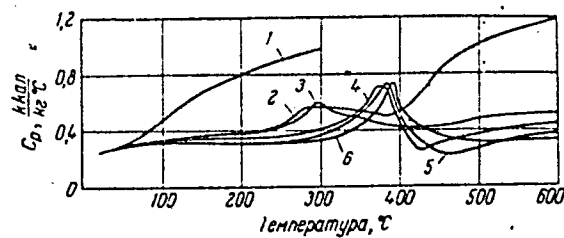
Card 2/3

Determination of some thermophysical ...

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B101/B186

Fig. 5. C_p (kcal/kg \cdot $^{\circ}$ C) as a function of temperature ($^{\circ}$ C), and of the intensity of heating. First number: specimen thickness, mm; second number: heater output w ; third number: $q_v \cdot 10^{-6}$, kcal/hr \cdot m 3 .

(1) 8, 33, 0.6; (2) 6.3, 73, 1.62; (3) 5.6, 124, 3.17; (4) 2.1, 100, 6.85; (5) 2, 200, 14.4; (6) 2, 462, 31.7.



Card 3/3

AFINOGENOV, P.; SHUMARIN, V.

Training specialists. Avt. transp. 43 no. 11:53-54 N 165.
(MIRA 1802)

1. Direktor Petrozavodskoy avtomobily (for Afinogenov).

ACC NR: AP7001338

SOURCE CODE: UR/0386/66/004/011/0445/0449

AUTHOR: Afinogenov, V. M.; Migulin, V. V.; Trifonov, V. I.

ORG: Institute of Radio Engineering and Electronics, AN SSSR (Institut radiotekhniki i elektroniki AN SSSR)

TITLE: Singularities of the Faraday effect in n-InSb in the millimeter band

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 11, 1966, 445-449

TOPIC TAGS: indium compound, antimonide, Faraday effect, microwave technology

ABSTRACT: The authors investigated the Faraday effect in n-type InSb at 77.8K as a function of the magnetic field and of the sample thickness. The experimental setup included a klystron oscillator operating at 4 mm, attenuators, a measuring pickup, and an indicator showing the power passing through the sample. The position of the polarization plane was indicated by the minimum of the indicator reading. The measurements revealed the expected oscillations of the angle of rotation of the polarization plane vs. the magnetic field, as well as deviations brought about by reflections from the boundary planes. At sample thicknesses that were multiples of the electromagnetic wave, geometric resonance took place in the sample and the Faraday angle was maximal in this case. The peaks of the oscillations became sharper with increasing magnetic field, owing to the decreased losses in the semiconductor. Plots of the Faraday angle vs. the magnetic field show that the rotation angle becomes negative in

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ACC NR: AP7001338

weak fields. The experimental and calculated curves agree well, the quantitative differences being due to the approximate nature of the theory, which is valid strictly only in free space. It is concluded that the large Faraday angles and the relatively small damping in strong magnetic fields make this phenomenon useful with nonreciprocal microwave devices such as ferrites. The authors thank V. S. Ivleva and D. A. Dolgikh for supplying the InSb samples. Orig. art. has: 2 figures and 3 formulas.

SUB CODE: 20/ SUBM DATE: 19Sep66/ ORIG REF: 001/ OTH REF: 003

Card 2/2

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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

AND 2ND ORDER

PROCESSES AND PROPERTIES INDEX

AFINOGENOV, V. P.

2

Determination of the vapor densities of several substances at from 0 to 50 atmospheres. D. N. Tarasnikov and V. P. Afinogenov. *J. Phys. Chem. (U. S. S. R.)* 9, 880-800 (1937).--Previous data on the vapor ds. of C_2H_6 , $EtOH$, Ph_2O and Ph , at from 0 to 50 atm. were verified. New data in both tabular and graphical form are given for Ethr from 11 to 50 atm., C_2H_6 from 3 to 27 atm., for $SbCl_5$ from 1 to 41 atm., for $AlBr_3$ from 1 to 20 atm., and for $BiCl_3$ up to 1 atm. The b. p. of $AlBr_3$ was 264°.

P. H. Rathmann

COMMON ELEMENTS

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

FROM DENSITY

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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LIPKES, Ya.M., kandidat tekhnicheskikh nauk; AFINOGENOV, V.P., redaktor;
ISLJENT'YEVA, P.G., tekhnicheskij redaktor

[Titanium and its use in technology] Titan i ego primenenie v tekhnike. Moskva, Oborongiz NKAP, 1945. 62 p. (MIRA 9:1)
(Titanium)

PALKIN, A.P.; AFINOGENOV, Yu.P.

Interaction between cuprous chloride and lead in melts. Zhur.
neorg.khim. 5 no.1:230-232 Ja '60. (MIRA 13:5)
(Copper chloride) (Lead)

PALKIN, A.P.; AFINOGENOV, Yu.P.

Interaction between silver chloride, lead chloride, and
zinc in melts. Zhur.nesorg.khim. 5 no.7:1555-1558
J1 '60. (MIRA 13:7)

1. Voronezhskiy gosudarstvennyy universitet.
(Silver chloride) (Lead chloride) (Zinc)

PALKIN, A.P.; AFINOGENOV, Yu.P.

Interaction in the quaternary reciprocal displacement system.

$Cu_2Cl_2 + PbCl_2 + 27H_2 \rightarrow 27HCl + 2Cu + Pb$. Zhur. neorg. khim.

6 no.7:1636-1641 1961

(MIRA 14:7)

(Systems (Chemistry))

PALKIN, A.P.; AFINOGENOV, Yu.P.

Interaction in the system $\text{AgCl} + \text{Cu} \rightleftharpoons \text{CuCl} + \text{Ag}$.
Zhur.neorg.khim. 7 no.11:2606-2610 N '62. (MIRA 15:12)

1. Voronezhskiy gosudarstvennyy universitet.
(Systems (Chemistry)) (Silver chloride)
(Copper chloride)

PALKIN, A.P.; AFINOGENOV, Yu.P.

Interaction in the quaternary reciprocal displacement system
 $\text{AgCl} + \text{CuCl} + \text{Zn} \rightarrow \text{ZnCl}_2 + \text{Ag} + \text{Cu}$. Zhur. ~~org.~~ khim. 7
no.11:2611-2616 N '62. (MIRA 15:12)

1. Voronezhskiy gosudarstvennyy universitet.
(Systems (Chemistry)) (Thermal analysis)

PALKIN, A.P.; AFINOGENOV, Yu.P.

Interaction in the system $2\text{AgCl} + \text{Pb} \rightarrow \text{PbCl}_2 + 2\text{Ag}$. Zhur.neorg.khim.
8 no.2:379-383 F '63. (MIRA 16:5)

1. Voronezhskiy gosudarstvennyy universitet.
(Silver chloride) (Lead chloride)

PALKIN, A.P.; AFINOGENOV, Yu.P.; MUSHENKO, Ye.S.

Interaction in the system $\text{AgCl} + \text{CuCl} + \text{Pb} \rightarrow \text{PbCl}_2 + \text{Ag} + \text{Cu}$.
Zhur. neorg. khim. 8 no.11:2580-2584 N '63. (MIRA 17:1)

1. Voronezhskiy gosudarstvennyy universitet.

AFINOGENOVA, E.Z.; SOSNYAKOV, N.G., doktor meditsinskikh nauk, zaveduyushchiy;
HANOYKO, S.P., professor, direktor.

Intestinal obstruction caused by lymphogranulomatosis. Vest.khir. 73 no.5:
59-60 S-0 '53. (MLBA 6:11)

1. Kafedra obshchey khirurgii Molotovskogo meditsinskogo instituta.
(Hodgkin's disease) (Intestines--Obstruction)

LITVINENKO, K.I.; MESKHI, A.M.; AFINOGENOVA, L.N.

Alpine igneous activity and metallogeny in Tajikistan. Zakonom.
razm.polezn.iskop. 7:380-381 '64. (MIRA 17:6)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov
Tadzhikskoy SSR.

VERIGIN, N.N., prof.; Prinimali Uchastiye: KITSIS, R.A., inzh.;
ZHIGALIN, B.I., inzh.; AFINOGENOVA, M.V., inzh.;
VINOGRADOVA, G.M., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Methods of determining the filtration properties of rocks]
Metody opredeleniia fil'tratsionnykh svoistv gornyykh porod.
Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. ma-
terialam, 1962. 177 p. (MIRA 15:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodo-
snabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i
inzhenernoy gidrogeologii.

(Rocks--Permeability)

APINOGENOVA, S. A.
A method of determination of 17-corticosteroids in urine.
S. A. Afinogenova (Inst. Biol. and Med. Chem., Moscow).
Problemy Endokrinol. i Gormonoterap. 1, No. 5, 105-121
(1955).--Ten ml. of urine is introduced into a flask equipped
with a reflux condenser together with 1.5 ml. concd. HCl,
and refluxed for 10 min. on a boiling water bath. When
cool the contents are transferred to 100 ml. flask with a
glass stopper, 10 ml. of dichlorethane is added, and the flask
is shaken for 15 min. on a mech. shaker. After centrifuging
for 10 min. at 1000-1500 r.p.m., the dichlorethane layer
is removed and filtered through a glass filter, 5 g. of NaOH
is added, and the soln. is shaken for 15 min. This dehy-
drates the ext., removes phenolic steroids, and neutralizes
the contents. The digest is filtered and washed with di-
chlorethane, the combined filtrates are washed, and evapo-
rated to dryness *in vacuo* at 60-70°. If more than 10 mg.
of steroids/l. of urine are present, divide the ext. in half
before evapn. To the residue is added 0.2 ml. of abs.
EtOH, 0.2 ml. of 2% soln. of *m*-dinitrobenzene in EtOH, and
0.2 ml. of 5N KOH. A control tube is prepd. simul-
taneously with only the reagents. The tubes are incubated
for 1 hr. at 20° ± 0.5°. Keep away from direct light.
Read in a photoelec. colorimeter with a green filter No. 604,
(620 mμ). In the light the color is not stable, and begins to
fade after 20 min. The results are calcd. by reference to a
standard curve. Recovery of added steroids to urine is:
94%.
J. A. Stekol

USSR / Human and Animal Physiology. Internal Secretion, Adrenals. T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70400

Author : Afinogenova, S. A.

Inst : Not given

Title : The Influence of Cortisone on the Secretion of Hormones
by the Adrenals in Rabbits and Rats

Orig Pub : Probl. Endokrinol. i Gormonoterapii, 1957, Vol 3, No 4,
36-45, 125

Abstract : Male rats weighing 280-320 gms were injected with 2.5 mg
cortisone acetate (I) per day over a period of 10-20 days.
The weight of the body declined (-22 gm, while controls
gained 31 gm). The weight of the adrenals (A) fell to 50
percent. The content of corticosterone (II; the basic
corticosteroid) in the blood dropped, (in the blood flowing
from the adrenal glands) from 330-450 to 150-230 gamma
percent. The content of other unidentified corticosteroids

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^{NO}
~~AFIGENNOVA, S.A., DRUZHININA, K.V., KREKHOVA, M.A., PANKOV, Yu.A., RODINA, A.I.~~
^ YUDAYEV, N.A. (Moskva)

Biosynthesis of corticosteroids by adrenal sections of various animals.
[with summary in English]. Probl.endok., 1 gorm. 4 no.3:3-11 My-Je '58
(MIRA 11:8)

1. Iz laboratorii nervnoy i gormonal'noy regulyatsii biokhimicheskikh
protssessor (zav. - prof. N.A. Yudayev) Instituta biologicheskoy i
meditsinskoy khimii AMN SSSR (dir. prof. V.N. Orekhovich).

(ADRENAL CORTEX HORMONES, metabolism

synthesis in adrenal slices of various animals (Rus))

AFINOGENOVA, S.A.; DRUZHININA, K.V.; PANKOV, Yu.A.; RAZINA, I.G.; KREKHOVA,
M.A.

Conference on the biochemistry of corticosteroids and their use in
clinical practice. Vop.med.khim. 5 no.5:393-397 S-0 '59.

(MIRA 13:2)

(STEROIDS)

YUDAYEV, N.A.; AFINOGENOVA, S.A.

Changes in the adrenal function of rabbits under the effect of
cortisone, ACTH, and sodium salicylate. Probl. endkok. i gorm.
6 no. 1:19-25 Ja-F '60. (MIRA 14:1)
(ADRENAL GLANDS) (CORTISONE) (ACTH)
(SODIUM SALICYLATE)

AFINOGENOVA, S. A., YUDAYEV, N. A. (USSR)

"The Effect of Cortisone and ACTH on the Production of
Corticosteroids by the Adrenal Cortex in vivo."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 August 1961

YUDAYEV, N.A.; AFINOGENOVA, S.A. (Moskva)

State of the system hypophysis - adrenal cortex following
the administration of cortisone and ACTH in a long-range ex-
periment. 14a Probl. endok. i gorm. 8 no.2:12-20 Mr-Ap'62.

(MIRA 16:7)

1. Iz laboratorii biokhimii gormonov i gomonal'noy regulatsii
biokhimicheskikh protsessov (zav.-prof. N.A.Yudayev) Instituta
biologicheskoy i meditsinskoy khimii AMN SSSR (dir.-prof. V.N.
Orekhovich).

(ACTH) (PITUITARY BODY) (CORTIZONE)
(ADRENAL CORTEX)

BEZPROZVANNYY. B.K.; SHUMKINA, O.B.; AFINYAN, V.M. (Moskva)

Changes in the ultrastructure of human hepatic cells in thyrotoxicosis.
Arkh. pat. 27 no.8:64-66 '65. (MIRA 18:10)

1. Laboratoriya patomorfologii (zav. - kand.med.nauk B.K.Bezprozvanny)
Instituta virusologii imeni Ivanovskogo (dir. - deystvitel'nyy chlen
AMN SSSR prof. V.M.Zhdanov) AMN SSSR i Gorodskaya infektsionnaya
klinicheskaya bol'nitsa No.82 (glavnyy vrach - kand.med.nauk A.V.
Yeremyan).

AFITSKIY, A.I.

Straight Noric amide on the Chukchi Peninsula. Priroda 54
no.4:87-88 Ap '65. (MIRA 18:5)

1. Severo-vostochnyy kompleksnyy nauchno-issledovatel'skiy institut
Sibirskogo otdeleniya AN SSSR, Novosibirsk.

AFITSKIY, A.I.

First find of Rhabdoceras in the northeaster U.S.S.R. Paleont.
zhur. no.3:137-138 '65. (MIRA 18:9)

1. Severo-Vostochnyy kompleksnyy nauchno-issledovatel'skiy
institut Sibirskogo otdeleniya AN SSSR.

AFIYAN, E.; SHVARTS, L., arkhitektor

Brief news. Mias. ind. SSSR 29 no.5:56 '58. (MIRA 11:10)

1. Leningradskiy filial Gosudarstvennogo Instituta po proyektirovaniyu predpriyatiy myasnoy promyshlennosti (for Shvarts).
(Meat industry)

AFIYAT, S. A.

15-57-5-6122D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,
pp 60-61 (USSR)

AUTHOR: Afiyat, S. A.

TITLE: Petrography of the Jurassic Volcanic Rocks in the
Northeastern Part of the Lesser Caucasus (Petro-
grafiya yurskikh effuzivov severo-vostochnoy chasti
Malogo Kavkaza) Author's abstract of his disser-
tation for the degree of Candidate of Geological
and Mineralogical Sciences, presented to the
Azerb. industr. in-t (Azerbaijdzhan Industrial
Institute, Baku, 1956)

ABSTRACT: Volcanic-sedimentary rocks of Aalenian-lower
Bajocian age occur in the basins of the Dezagamchay,
Akhyndzhachay, Asrikchay, and Dzhagirchay Rivers.
They include diabases, diabase porphyries and
porphyrites, interbedded with related tuffs, tuff-
breccias, tuff-conglomerates, tuff-sandstones, and

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15-57-5-6122D

Petrography of the Jurassic Volcanic Rocks (Cont.)

and silt-tuffites. In many regions of the Azerbaïdzhan part of the Lesser Caucasus, quartz-plagioclase porphyrites of middle Bajocian age are found. They commonly show hydrothermal alteration and contain sulfide ores. The volcanic-sedimentary rocks of upper Bajocian age consist, in decreasing order of abundance, of tuff-sandstones, silt-tuffites, tuff-conglomerates, tuff-breccias, porphyrites, tuffs, and quartz-plagioclase porphyries. Callovian-Oxfordian rocks (Dashkesan, Khanlar, and Kedabek rayons) are chiefly tuff-sandstones, silt-tuffites, and, in lesser quantities, porphyrites and related tuffs. Kimmeridgian rocks include porphyrites and related tuffs. The Tithonian sequence is composed chiefly of tuff-sandstones and tuff-breccias. The Jurassic volcanic rocks are characterized by a moderate saturation in SiO_2 , a normal content of Al_2O_3 , and a considerable dominance of Na_2O over K_2O , CaO over MgO , and Fe_2O_3 over FeO . The average chemical composition indicates that the rocks are andesites [according to Daly (Deli)]. They differ from ordinary
Card 2/3

15-57-5-6122D

Petrography of the Jurassic Volcanic Rocks (Cont.)

andesites in a somewhat lower content of alkalic aluminosilicates
and in magnesium.

S. P. B.

ASSOCIATION: Azerb. industr. in-t (Azerbaidzhan Industrial
Institute)

Card 3/3

SASHENKOV, Mikhail Semenovich, kand. tekhn. nauk; SOROKOLETOV, Aleksandr Fedorovich; AFONASOV, Nikifor Ivanovich, dots.; UKOLOV, Mikhail Sergeevich, inzh. st. nauchn. sotr.; GONCHARENKO, Andrey Nikiforovich, inzh. mlad. nauchn. sotr.; KHLIUSTIKOVA, Iraida Nikolyaevna, inzh., ml. nauchn. sotr.; GOLIK, Svetlana Andreyevna, inzh.

[Specialized transportation facilities for the haulage of building materials and elements] Spetsializirovannye transportnye sredstva dlia perevozki stroitel'nykh materialov i konstruktsii. Moskva, Stroizdat, 1964. 57 p.

(MIRA 18:5)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Rukovoditel' laboratorii transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Sashenkov).
3. Glavnyy inzhener laboratorii transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Sorokoletov).
4. Laboratoriya transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Afonarov, Ukolov, Goncharenko, Khlyustikova).

L-57759-65

ACCESSION NR: AR5012750

feed, the removed chip becomes continuous. The specific frictional force diminishes with an increase of cutting speed. Illustrations 4. Bibliography of 6 entries.
L. Romancheva

SUB CODE: IE, MM

ESL: X

KE
Card 2/2

GOL'DBERG, G.D.; KRASNOSLOBODTSEVA, L.M.; AFONASOVA, S.I.

Diameter of erythrocytes in normal persons. Probl.gemat.i perel.
krovi 4 no.12:26-30 D '59. (MIRA 13:4)

1. Iz kafedry patofiziologii (zaveduyushchiy - prof. D.I. Gol'd-
berg) Tomskogo meditsinskogo instituta.
(ERYTHROCYTES)

POLYANINOVA, N.I.; AFONCHENKO, A.P.

Rapid method for tanning at raised temperatures. Kozh.-obuv.
prom. 6 no.5:38-40 My '64. (MIRA 17:12)

~~AFONCHENKO, M.Ye.~~
AFONCHENKO, M.Ye.; AVDEYEV, P.L.; GLEKEL', B.A.

Hydraulic beater with horizontal rotor shaft. Bum.prom.32
no.9:22-23 S '57. (MIRA 10:12)

1. TSellyulozno-bumashnyy kombinat "Geroy truda."
(Papermaking machinery)

AFONCHENKO, V.V., inzh.

Conveying and assembling heading equipment in mine shafts.
Bezop. truda v prom. 3 no.11:10-11 N '59. (MIRA 13:3)

1. Trest Stalinshakhtoprokhodka.
(Shaft sinking)

TYURKYAN, Raffi Armenakovich; GORLOV, Petr Ivanovich; ZORI, Anatoliy Stefanovich; AFONCHENKO, Vladimir Vasil'yevich; KLITSUNOV, V.I., otv. red.; CHECHKOV, L.V., red. izd-va; LOMILINA, L.N., tekhn. red.; IL'INSKAYA, G.M., tekhn. red.

[Information for worker on vertical shafts, shaft bottoms, and chambers] Pamiatka prokhodchika vertikal'nykh stvolov, okolostvol'nykh dvorov i kamer. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1960. 71 p. (MIRA 14:7)
(Shaft sinking)

AFONCHENKO, V.V., inzh.

Suggestions from the mining innovators of the Stalinshakhto-
prokhodka Trust. Bezop. truda v prom. 5 no.8:30-31 Ag '61.
(MIRA 14:8)
(Mining engineering--Technological innovations)

AFONCHIKOV, F. A.

Doc Tech Sci

Dissertation: "Method for Analytical Investigation of the Operation of Racking Devices in Cotton-Spinning Machines." 23/2/50 (Vechernyaya Moskva).

Moscow Textile Inst

AFONCHIKOV, F.A., doktor tekhnicheskikh nauk.

Selecting the general and specific drawings on roving frames
with two-zone drawing arrangement. Tekst.prom. 14 no.10:20-22
0 '54. (MLRA 7:10)
(Cotton machinery) (Spinning machinery)

AFONCHIKOV, F.A., professor.

An error in the instructions on technical control ("Technical control in cotton spinning; instructions." Book review by F.A. Afonchikov). Tekst.prom. 15 no.11:66-67 N '55. (MLRA 9:1)

(Cotten yarn--Testing)

KRYUKOV, Vasilii Mikhailovich, kandidat tekhnicheskikh nauk; AFONCHIKOV, F.A.,
retsenzent; ZAMAKHOVSKIY, L.I., nauchnyy redaktor, retsenzent, kandi-
dat tekhnicheskikh nauk; KOPELEVICH, Ye.I., redaktor; MEDVEDEVA, L.A.,
tekhnicheskiiy redaktor

[Designing cotton spinning mills] Proektirovanie khlopkopriadil'nykh
fabrik. Izd. 3-e, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo
Ministerstva legkoi promyshl. SSSR, 1956. 391 p. (MLRA 10:4)
(Cotton spinning) (Textile factories)

AFONCHIKOV, F.A.; HERNIKOVA, T.P.; KHRENOVA, L.I.

Straightening the sliver on the stand of a combing machine. Tekst.
prom. 16 no.11:25-26 N '56. (MIRA 9:12)

1. Professor Ivanovskogo tekhnologicheskogo insituta.
(Combing machines)

AFONCHIKOV, N.A.

**Eliminating difficulties in the use of pulp pumps. Bum.prom.
29 no.8:28 Ag '54. (MIRA 7:9)**

- 1. Leningradskaya bumashnaya fabrika "Gosnak".
(Wood-pulp industry)**

NIKOLAYEV, A.S.; AFONCHIKOV, N.A.

Automatization of the technological processes of paper production.
Bum.prom. 29 no.10:19-21 0 '54. (MLRA 7:11)

1. Leningradskaya bumazhnaya fabrika "Goznak"
(Papermaking machinery)

AFONCHIKOV, N. A.

N. A. Afonchikov, G. V. Kolobova, P. N. Mikhaylov, and M. G. Voronkov,
"Their Application for Glueing Paper."

Report presented at the Second All-Union Conference on the Chemistry and
Practical Application of Silicon-Organic Compounds held in Leningrad from
25-27 September 1958.

Zhurnal prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

AUTHORS: Afonchikov, N.A., Kolobova, G.V., Mikhaylov, P.N., Voronkov, M.G. SOV/80-32-2-42/56

TITLE: The Application of Silicon-Organic Compounds for the Gluing of Paper (Primeneniye kremneorganicheskikh soyedineniy dlya prokleyki bumagi)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, pp 445-446 (USSR)

ABSTRACT: Silicon-organic compounds were used a) for treating the finished paper with vapors of methyltrichlorosilane; b) for impregnating the paper by these compounds; c) for gluing the paper mass by such substances. The last procedure shows the best results. The compound MN-1 $(CH_3SiHO)_n$ is most efficient. Thermal processing of the finished paper is necessary, however, in order to obtain a great depth of gluing. If certain catalysts are used, e.g. lead or zinc acetate, triethanolamine, etc, thermal processing is not necessary. The catalyst is also added to the paper mass where it has the best effect. Professor B.N. Dolgov is mentioned in the article.
There is 1 table.

Card 1/2

SOV/80-32-2-42/56

The Application of Silicon-Organic Compounds for the Gluing of Paper

ASSOCIATION: Fabrika "Goznak" i institut khimii silikatov AN SSSR (Factory "Goznak" and the Institute of the Chemistry of Silicates of the USSR Academy of Sciences)

SUBMITTED: April 22, 1958

Card 2/2

POLYAKOV, L.K.; LIKHTER, A.D.; AFONCHIKOV, N.A.

Automation of rotor setting in conical mills. Bumagodel. mash.
no.8:52-65 '60. (MIRA 14:3)

(Papermaking machinery)

AFONCHIKOV, N.A., insh.; KANEVSKIY, V.M., insh.

Remote control of a papermaking machine. Bum.prom. 35 no.4:19-20
Ap '60. (MIRA 13:10)

1. Leningradskaya bumazhnaya fabrika Goznaka.
(Leningrad--Papermaking machinery)

S/661/61/000/006/076/081
D287/D302

AUTHORS: Afonchikov, N. A., Kolobova, G. V., Mikhaylov, P. N.
and Voronkov, M. G.

TITLE: The use of organosilicon compounds in paper-sizing

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh
soyedineniy; trudy konferentsii, no. 6: Doklady, diskus-
sii, resheniye. II Vses. konfer. po khimii i prakt. prim.
kremneorg. soyed., Len. 1958, Leningrad, Izd-vo AN SSSR,
1961, 336

TEXT: The Leningradskaya bumazhnaya fabrika 'Gosnak' (Leningrad Pa-
per Factory 'Goznak') carried out, in conjunction with the Institut
khimii silikatov AN SSSR (Institute for Silicate Chemistry, AS
USSR), experiments on the use of organosilicon compounds in the pa-
per industry. The paper should possess hydrophobic properties which
prevent the soaking in of ink. Organosilicon compounds do not show
the same disadvantages as colophony (which is generally used for
this purpose). The authors used the substance MH-1 (MN-1) (which
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The use of organosilicon ...

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D287/D302

was most satisfactory) and tested the material ГКЖ-94 (GKZh-94). The latter was, however, unstable. Thermal treatment gave paper of suitable sizing properties, but it is difficult to carry out this type of processing in the machine itself. Paper treated with organosilicon compounds has improved print-receptivity. The compounds do not affect the other properties of the paper.



Card 2/2

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Application of polyacrylamide for better preservation of fillers
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1. Leningradskaya bumazhnaya fabrika Upravleniya proizvodstvom
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