

FILIPPOV, P.M.

Switches on reinforced concrete slabs for curved track sections.
Put' 1 put'khoz. 8 no.8:21 '64. (MIRA 17:9)

1. Nachal'nik distantsii puti, stantsiya Leninets, Belorusskoy
dorogi.

ACC NR: AP7001425

(A)

SOURCE CODE: UR/0413/66/000/021/0141/0141

INVENTORS: Filippov, B. M.; Shaks, S. R.; Levykina, I. D.

ORG: none

TITLE: A device for checking the hermetic seal of hollow products. Class 21, No. 188095 [announced by Special Construction Engineering Bureau No. 6 (Spetsial'noye konstruktorskotekhnologicheskoye byuro No. 6)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 141

TOPIC TAGS: hermetic seal, mechanical motion instrument, automatic pneumatic control, automatic machine, automation

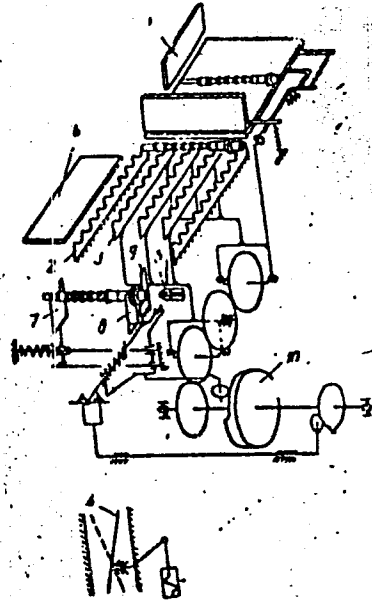
ABSTRACT: This Author Certificate presents a device for checking the hermetic seal of hollow products. The device contains a feeder, a carrying mechanism for the products, a mechanism for placing the products in a position for checking, an apparatus for sorting the checked products, and a gauging pneumatic assembly which activates the sorting mechanism. To mechanize the process of checking for the hermetic seal, the carrying mechanism is made in the form of combs surmounted by a rigid plate. A part of the combs serves to deliver the products (see Fig. 1). The mechanism for placing the products in a position for checking contains a spring-loaded carriage with two compressing holders. The carriage is pushed by the drive mechanism until it coincides with the connecting pipe of the pneumatic assembly.

Card 1/2

UDC: 686.863.6:621-186.3

ACC NR:AP7001425

Fig. 1. 1 - feeder; 2 and 3 - combs for transporting the products; 4 - mechanism for sorting the products; 5 - connecting pipe of the pneumatic assembly; 6 - rigid plate; 7 - spring-loaded carriage; 8 and 9 - compressing holders; 10 - knuckle of carriage drive mechanism



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 15Apr65

Card 2/2

FILIPPOV, B. N.

Filyanskiy, K. D. and Filippov, B. N. "More on precocials," Reply to the article of Ya. L. Grembotkiy and M. Ya. Kigan-Berman "On the role of precocials in fine wool sheep raising in the USSR (Journal: Vestnik zhivotnovodstva, 1948, Issue 6, p. 111-18

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

ФИЛИПОВ, П. Н., И. М.

Имубавский, А. В.

Stavropol breed of fine-wool sheep Moskva, Gos. izd-vo sel'khoz. lit-ry, 1953. 59 p.
(54-42778)

SF375.5.RGL5

FILIPPOV, Boris Nikolayevich; ALKESANDROV, Mark Venkaminovich; MARUSHEKO, Fedor Ivanovich; MARENKOVA, G.I., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Experience in the regulation and maintenance of a centralized traffic relay system] Opyt regulirovki i soderzhania marshrutno-releinoi tsentralizatsii. Moskva, Gos.transp.zhel-dor.izd-vo, 1960. 28 p. (MIRA 13:3)

(Railroads--Signaling)

Filippov, B.N.
USSR/Chemical Technology - Chemical Products and Their I-9
Application. Wood Chemistry Products. Hydrolysis Industry

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2660

Author : Filippov, B.N.

Inst : -

Title : Rapid Method of Determining the Moisture Content of Wood.

Orig Pub : Gidroliznaya i lesokhim. prom-st', 1957, ¹⁰No 5, 25-26

Abstract : For a determination of the moisture content of technological wood used in dry distillation it is recommended to use the method of drying with an electric bulb, at 150-160° for 40 minutes, if the sample of sawdust was taken from wet logs, and for 25 minutes if it was taken from dry logs. The determination procedure is described.

Amzjinskiy lesokhimicheskiy zavod

Card 1/1

FILIPPOV, B.N.

New method of briquetting the charcoal waste products. *Gidroliz. i lesokhim. prom.* 11 no.6:17-20 '58. (MIRA 11:10)

1. Amzinskiy lesokhimicheskiy zavod.
(Charcoal) (Briquets)

FILIPPOV, B.N.

Furfurols in products of wood pyrolysis. *Gidroliz. i lesokhim.prom.*
11 no.8:22 '58. (MIRA 11:12)

1. Amzinskiy lesokhimicheskiy zavod.
(Furaldehyde) (Wood distillation)

KATUNIN, V.Kh.; FILIPPOV, B.N.; TOKISHIN, G.F.

New apparatus for the absorption of valuable wood chemistry products. *Gidroliz. i lesokhim.prom.* 12 no.1:12-14 '59.
(MIRA 12:2)

1. Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut (for Katunin). 2. Amzinskiy lesokhimicheskiy zavod (for Filippov, Tokishin).
(Wood--Chemistry) (Scrubber (Chemical technology))

FILIPPOV, B.N.; TOKISHIN, G.F.

Mechanization of the charcoal warehouse of the Amzinskiy Plant.
Gidroliz.i lesokhim.prom. 12 no.2:24-26 '59. (MIRA 12:3)

1. Amzinskiy lesokhimicheskiy zavod.
(Materials--Handling)

KATUNIN, V.Kh.; FILIPPOV, B.N.

Condensation of products of the thermal decomposition of wood
from a vapor-gas mixture in froth condensation apparatus. *Gidroliz. i
lesokhim.prom.* 12 no.3:5-7 '59. (MIRA 12:6)

1. Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut
(for Katunin). 2. Amzinskiy lesokhimicheskiy zavod (for Filippov).
(Cooling towers) (Wood distillation)

FILIPPOV, B. N.

Chemical composition of light wood-oils of the Amzaya plant.
Gidroliz i lesokhim.prom. 12 no.4:22-23 '59. (MIRA 12:8)

1. Amzinskiy lesokhimicheskiy zavod.
(Amzaya--Wood oil)

FILIPPOV, B.N.; FILIMONOV, A.V.

Continuous countercurrent process of the decolorization and
neutralization of crude ethyl acetate, *Gidroliz.i lesokhim.*
prom. 12 no,8:20-22 '59. (MIRA 13:4)

1. *Amsinskiy lesokhimicheskiy kombinat.*
(~~Asha~~---Ethyl acetate)

FILIPPOV, B.N.

Continuous azeotropic drying of unrefined ethyl acetate and
its rectification. *Gidroliz.i lesokhim.prom.* 13 no.6:15-16
'60. (MIRA 13:9)

1. *TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy
institut.*

(Ethyl acetate)

(Distillation, Fractional)

FILIPPOV, B.N.

Tow-column continuous apparatus for manufacture of concentrated commercial acetic acid. Hidroliz. i lesokhim. prom. 14 no.7:8-10 '61. (MIRA 14:11)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektnyy institut lesokhimicheskoy promyshlennosti.
(Acetic acid)
(Woodpulp industry--Equipment and supplies)

S/139/62/000/001/027/032
E032/E114

24.2200

AUTHORS: Kobelev, L.Ya., Filippov, B.N., and Khodenkov, G.Ye.

TITLE: On the effect of the spin-orbit interaction of electrons on the energy of a spin wave

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.1, 1962, 158-161

TEXT: The spin-spin and spin-orbit interactions of the electrons in a ferromagnetic are known to lead to a change in the spin-wave energy. This change is of interest in connection with the theory of the constants of anisotropy of ferromagnetics. In order to describe the increase in the energy due to the spin-orbit effect, the authors use the Schwinger method involving single-particle Green functions. The dynamical Schwinger principle is used to set up the equations for the single-particle temperature Green functions including spin-orbit terms. General expressions are then derived for the energy of elementary excitations and for the change in the spin-wave energy due to the spin effects for $T \gg 10^\circ\text{K}$ and $T \ll 10^\circ\text{K}$.
Card 1/2

B

On the effect of the spin-orbit ... S/139/62/000/001/027/032
E032/E114

ASSOCIATION: Ural'skiy gosuniversitet imeni A.M. Gor'kogo
(Ural State University imeni A.M. Gor'kiy)

SUBMITTED: June 24, 1960

✓
B

50

Card 2/2

FILIPPOV, B.N.

Construction and adjustment of automatic block systems on a.c. railroad districts. Avtom., telem. i sviaz' 7 no.1:27-31 Ja '63.

(MIRA 16:2)

1. Nachal'nik stroitel'noy distantsii signalizatsii i svyazi Oktyabr'skoy dorogi.

(Electric railroads--Signaling--Block system)

ACCESSION NR: AP4009371

S/0126/63/016/006/0801/0807

AUTHORS: Vlasov, K.B.; Filippov, B.N.

TITLE: Rotation of polarization plane and circular magnetic dichroism of ultrasound in magnetopolarized metals whose electrons of conductivity have quadratic dispersion law

SOURCE: Fizika metallov i metallovedeniye, v. 16, no. 6, 1963, 801-807

TOPIC TAGS: polarization plane, circular magnetic dichroism, ultrasound, magnetopolarized metal, quadratic dispersion law, elastic wave, deformation potential, Fermi surface

ABSTRACT: The authors compute the constant determining the rotation of the polarization plane of elastic waves and the relation of the axes of the ellipse giving rise to elliptical polarized elastic waves in magnetopolarized metals. The computations are made for a wide range of frequencies of ultrasound and constant magnetic fields. For this the deformation potential is studied. The authors find the range of frequencies and the field in which the rotation constant and the ratio of the axes of the ellipse are functions of the Fermi surface and the deformation potential.

Card

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ACCESSION NR: AP4009371

They show that in the case where the length of the wave of ultrasound, λ , is of the order of depth of penetration δ of the electromagnetic wave, the radius r_c of the cyclotronic orbit is of the order of length of the free run l of an electron, $l \ll \lambda$, the ratio of the axes of the ellipse is maximized. Orig. art. has: 48 formulas.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals AN SSSR)

SUBMITTED: 01Jun63

DATE ACQ: 03Feb64

ENCL: 00

SUB CCDE: PH

NO REF SOV: 005

OTHER: 002

2/2

Card

L 17615-63
Pt-4 JDEWT(1)/EWP(q)/EWT(m)/BDS/ES(s)-2 AFFTC/ASD/ESD-3/IJP(C)/SSD 68
S/056/63/044/003/025/053 67AUTHOR: Vlasov, K. B. and Filippov, B. N.TITLE: Dynamic elasticity moduli, rotation of the polarization plane,
and coupled longitudinal-transverse waves in magneto-polarized metals 18PERIODICAL: Zhurnal eksperimental'noy i tekhnicheskoy fiziki, v. 44, no. 3,
1963, 922-933

TEXT: In addition to the absorption of ultra sound in magneto-polarized media one may expect the existence of the not yet observed effects of the rotation of the polarization plane or the existence of coupled longitudinal-transverse waves. Phenomenologically, these effects can be described by a dynamic elasticity modulus tensor (K. B. Vlasov, Ref. 6: FFM, 4, 543, 1957; V. P. Silin, Ref. 7: ZhETF, 38, 977, 1960). The present paper presents the derivation of a microscopic quasi-classical theory of these moduli for the case of metals in a constant magnetic field. The equations of motion defining the features of absorption and propagation of elastic waves in magneto-polarized metals are derived for a broad frequency and constant magnetic field strength range and for arbitrary directions of propagation and magnetic field orientation using the free electron model. Explicit expressions

Card 1/2

L 17615-63

8/056/63/044/003/025/053 /

Dynamic elasticity moduli...

for the dynamic modulus of elasticity components involved in the equations of motion are derived for the case of strong magnetic fields. The expressions are given in terms of the atomic constants, electron mean free path, ultrasound frequency, and magnetic field strength. Formulas for specific rotation of the polarization plane, ratio of the ellipse axes, and the component of the dynamic elasticity modulus defining the coupling constant of longitudinal-transverse or transverse-longitudinal waves have been obtained in terms of the cyclotron frequency Ω , ultrasound frequency and wave vector k , and velocity v_0 and mean free path l of conduction electrons on the Fermi surface. Monotonous increase of specific rotation with the growth of kl up to saturation and oscillations of the coupling coefficient with variations of kv_0/Ω due to geometric resonance are predicted. There are 2 figures.

ASSOCIATION: Institut fiziki metallov Akademii nauk SSSR (Institut for the Physics of Metals of the Academy of Sciences USSR)

SUBMITTED: July 18, 1962

Card 2/2

FILIPPOV, B.N.

Construction of semiautomatic block systems on the October Railroad line. Avtom., telem. i sviaz' 8 no.6:21-23 Je '64.

(MIRA 17:6)

1. Nachal'nik spetsializirovannogo stroitel'no-montazhnogo poyezda signalizatsii, tsentralizatsii, blokirovki i svyazi No.399 Oktyabr'skoy dorogi.

ACCESSION NR: APL013089

S/0126/64/017/001/0024/0030

AUTHOR: Filippov, B. N.

TITLE: Theory of ultrasound absorption and dispersion in metals inserted into a magnetic field

SOURCE: Fizika metallov i metalloved., v. 17, no. 1, 1964, 24-30

TOPIC TAGS: ultrasound absorption, ultrasound dispersion, magnetic field, square dispersion law, deformation potential, absorption coefficient

ABSTRACT: The author studies absorption and dispersion of transverse ultrasound in metals inserted into a magnetic field when the ultrasound frequency is much less than the frequency of collisions. He assumes the electrons of conductivity have square dispersion law; however, the deformation potential is taken into account. When ultrasound is propagated along a magnetic field, such a relation holds only for certain special cases. The author shows that in a wide region of variation of frequencies of ultrasound and constant magnetic fields the absorption coefficient is simply related to the deformation potential. "I use this opportunity to express my gratitude to K. B. Vlasov for his help with this work and discussions

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ACCESSION NR: AP4013089

of the results." Orig. art. has: 41 formulas.

ASSOCIATION: Institut fiziki metallov, AN SSSR (Institute for Physics of Metals,
AN SSSR)

SUBMITTED: 22Jun63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: AP

NO REF SOV: 009

OTHER: 004

Card 2/2

ACCESSION NR: AP4013105

S/0126/64/017/001/0152/0155

AUTHORS: Vlasov, K. B.; Filippov, B. N.

TITLE: Resonance phenomena in the rotation of the plane of polarization and circular magnetic dichroism of elastic waves in metals

SOURCE: Fizika metallov i metalloved., v. 17, no. 1, 1964, 152-155

TOPIC TAGS: polarization plane, magnetic dichroism, elastic wave, crystallographic direction, absorption coefficient, mean free path, fermi surface, cyclotron frequency, plasma frequency, electrical conductivity tensor

ABSTRACT: Starting with the model of a free electron in a strong magnetic field and using the results of K. B. Vlasov and B. N. Filippov (ZhETE 1963, 44, 922), the following equations were derived for the coefficient of absorption of circularly polarized waves and the constant of rotation of the plane of polarization of an initially linearly polarized wave

Card 1/5

ACCESSION NR: AP4013105

$$\begin{aligned}
 a_{\pm}^2 &= \frac{Nc_1}{\rho s_1 \tau} e^{\pm}; \quad x_{\pm} = \frac{eN}{2\rho s_1 c} x_{1\pm} \\
 x_1 &= \frac{\omega^2}{\omega_0^2} \frac{A}{D}; \quad a_{\pm}^2 = \frac{\omega^2}{\omega_0^2} \frac{B^{\pm}}{D}; \\
 A &= \left(\frac{\omega^2}{\omega_0^2} - 1\right) - a^2 \left(3 \frac{\omega^2}{\omega_0^2} - 1\right) - \gamma^2 \left(\frac{\omega^2}{\omega_0^2} - 2\right); \\
 D &= \left(\frac{\omega^2}{\omega_0^2} - 1\right)^2 - 4a^2 \frac{\omega^2}{\omega_0^2} \left(\frac{\omega^2}{\omega_0^2} - 1\right) + 2\gamma^2 \left(3 \frac{\omega^2}{\omega_0^2} - 1\right); \\
 B^{\pm} &= \left(\frac{\omega}{\omega_0} \mp 1\right)^2 + a^2 \left(1 \mp 2 \frac{\omega}{\omega_0} + 3 \frac{\omega^2}{\omega_0^2} \mp 2 \frac{\omega^3}{\omega_0^3}\right) - \gamma^2 \left(\frac{\omega^2}{\omega_0^2} \mp 4 \frac{\omega}{\omega_0} + 2\right); \\
 \omega_0 &= \frac{s_1^2}{c^2} \frac{\omega_p^2}{\Omega}; \quad a = \frac{1}{\sqrt{5}} \frac{s_1 v_0}{c^2} \frac{\omega_p^2}{\Omega^2}; \quad \omega_p^2 = \frac{4\pi N e^2}{m}; \quad \gamma = (\Omega \tau)^{-1}; \quad \Omega = \frac{e}{mc} H.
 \end{aligned}$$

Here m, e, τ , l, v_0 , Ω , x_0 , ω_p , N are respectively the mass, charge, time, mean free path, velocity at the Fermi surface, cyclotron frequency, radius of

Card 2/5

ACCESSION NR: AP4013105

the cyclotron orbit, plasma frequency of the electron, and the number of electrons per unit volume; ω , k , λ , s_t are the frequency, wave vector, wavelength, and the velocity of propagation of transverse elastic waves. Resonance is observed in the neighborhood of $\omega/\omega_0 = 1$. As shown in Fig. 1 on the Enclosure, in the neighborhood of resonance, χ passes through zero. This plot corresponds to $s_t = 10^5$ cm/sec, $v_0 = 10^8$ cm/sec, $\omega_p = 10^{15}$ sec $^{-1}$, $\tau = 10^{-11}$ sec, $H = 10^5$ oersteds, and $\omega = 10^8$ sec $^{-1}$. It was shown that if at some relatively weak field (still strong enough so as not to violate the original assumptions) the rotation of the plane of polarization was positive, then at a certain value of the magnetic field given by

$$H_1 = 5^{-1/4} \frac{mc}{e} \frac{(v_0 s_t)^{1/2}}{c} \omega_p$$

it vanishes, and then it becomes negative. It was also shown that resonance must be observed when the wavelength of elastic waves becomes commensurate with the penetration depth for electromagnetic waves. Orig. art. has: 9 formulas and 2 graphs.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals, AN SSSR)

Card 3/5

ACCESSION NR: AP4013105

SUBMITTED: 05Oct63

ENCL: 01

SUB CODE: EM,MM

NO REF SOV: 002

OTHER: 002

Card

4/5

ACCESSION NR: AP4013105

ENCLOSURE: 01

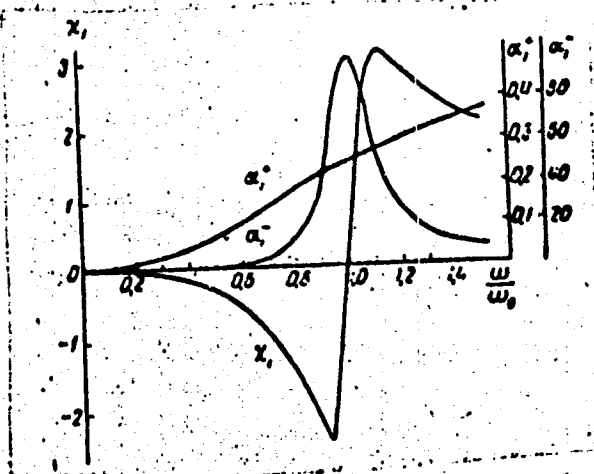


Fig. 1. Dependence of χ , α^+ , and α^- on ω/ω_0 .

Card 5/5

VLASOV, K.B.; FILIPPOV, B.N.

Characteristics of the rotation of a polarization plane and the circular magnetic dichroism of ultrasonic waves in metals in a strong magnetic field. Fiz. met. i metalloved. 18 no.3:333-339 S '64. (MIRA 17:11)

1. Institut fiziki metallov AN SSSR.

L 41756-65 EWP(k)/EWA(c)/EWT(1)/EWT(m)/EWP(b)/T/EWP(t) Pf-4/Pf-4 JD

ACCESSION NR: AP4048766

S/0126/64/018/004/0506/0510

33
30
E

AUTHOR: Filippov, B. N.

TITLE: Concerning the theory of absorption and dispersion of ultrasound in metals in a magnetic field

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 4, 1964, 506-510

TOPIC TAGS: ultrasound absorption, magnetic field, ultrasound dispersion, ultrasound, metal, transversal ultrasound

ABSTRACT: A theoretical study is made of absorption and dispersion of transverse ultrasound waves in metals in a magnetic field H. It is assumed that the electrons follow a quadratic anisotropic dispersion law, and the change of the latter under deformation produced by the ultrasound is taken into consideration. It is shown that with the increase of H, the velocity of propagation for waves polarized perpendicularly to H and to the direction of propagation undergoes oscillations. This takes place when the radius of the cyclotron electron orbit is

Card 1/2

1. 4.755-65

ACCESSION NR: AP4048766

about equal to λ . The author is grateful to K. B. Vlasov for a discussion.
Orig. art. has: 1 figure and 25 equations.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals
AN SSSR)

SUBMITTED: 04Mar64

ENCL: 00

SUB CODE: MM, GP

NR REF SOV: 002

OTHER: 002

cc
Card 2/2

ACCESSION NR: AP4012549

S./0056/64/046/001/0223/0231

AUTHORS: Vlasov, K. B.; Filippov, B. N.

TITLE: Rotation of ultrasound polarization plane in metals in a strong magnetic field

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 223-231

TOPIC TAGS: ultrasonics, ultrasound polarization, polarization plane, metal ultrasound, plane rotation, magnetic field ultrasound, magnetically polarized metal, metal polarization, conduction electron, rotation constant, fermi surface

ABSTRACT: Singularities of the propagation and absorption of ultrasound in magnetically polarized metals whose conduction electrons have arbitrary dispersion are considered by quasiclassical theory at low temperatures, when the singularities are determined by the interaction between the ultrasound and the conduction electrons.

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ACCESSION NR: AP4012549

The value of the constant determining the plane of rotation of ultrasound polarization in a strong magnetic field (characteristic radius of cyclotron orbit smaller than electron mean free path and ultrasound wavelength) is determined. Estimates are made of the frequency, field, and angular dependences of the rotation constant for different types of Fermi surfaces. The field and frequency intervals in which this constant can be expressed in terms of the Hall constant, the electric conductivity, the deformation potential, or other characteristics, are established. The numerical maximum estimate for the constant of rotation is 10^{-4} rad/cm-Oe, which in fields on the order of 10 kOe yields a polarization plane rotation angle of about 1 radian when the wave travels 1 cm. "In conclusion, we are grateful to V. M. Kontorovich for supplying his results prior to publication." Orig. art has: 68 formulas.

ASSOCIATION: Institut fiziki metallov AN SSSR (Metal Physics Institute, AN SSSR)

Card

2/32

L 1349-66 EWT(1)/EWT(n)/EWP(t)/EWP(b)/EWA(h) JD

ACCESSION NR: AP5021931

UR/0126/65/020/002/0173/0178
539.292;534;538.65

AUTHOR: ^{49.55} Vlasov, K.B.; ^{49.55} Filippov, B.N.

TITLE: Certain properties of the tensors determining the features of the propagation and adsorption of the ultrasound in metals within a strong magnetic field

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 2, 1965, 173-178

TOPIC TAGS: tensor field, inverse tensor field, ultrasonic propagation, magnetic field, magnetically polarized metal, rotating polarization plane, ultrasound, asymptotic expression, crystallographic axis, Fermi surface, rotational constant ^{21.94.55}

ABSTRACT: The article is a continuation of a previous investigation (K.B. Vlasov, B.N. Filippov, ZhETF, 1964, 46, 223), which was concerned with calculating the rotation of the plane of polarization of the ultrasound in magnetically polarized metals with an arbitrary law of variance of electrons for the case of a strong magnetic field, where the characteristic orbital cyclotron radius of electrons is much shorter than their free-path length and the wavelength of the ultrasound. The present investigation is concerned with the features of the propagation and adsorption of the ultrasound during its propagation parallel to a polarizing mag-

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L-1349-66

ACCESSION NR: AP5021931

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netic field and second-, fourth-, and sixth-order crystallographic axes, as characterized by the inverse tensor field. On the basis of considerations of the general symmetry of the magnetic field and crystals, it is concluded that certain terms of the expansion become zero when the inverse tensor field reaches a certain magnitude. Asymptotic expressions are given for these tensors with respect to closed and open Fermi surfaces and different cases of orientation of the polarizing magnetic field relative to the crystallographic axes in different ranges of variation in ultrasonic frequencies. In particular, it is shown that, under specific conditions, when the magnetic field is oriented along the fourth- or sixth-order crystallographic axes (as well as along the direction of propagation of sound), the rotational constant is determined only by the type of the tensor β_{2331} , which, in its turn, depends on the type of the deformation potential (torque). Orig. art. has: 23 formulas.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of the Physics of Metals, AN SSSR)

44,85

SUBMITTED: 17Sep64

ENC: 00

SUB CODE: NP, KM

NO SOV REF: 007

OTHER: 000

Card 2/2 dg

VLASOV, K.B.; FILIPPOV, B.N.

Certain properties of tensors determining the characteristics of propagation and absorption of ultrasonic waves in metals in a strong magnetic field. Fiz.met. i metalloved. 20 no.2:173-178 Ag '65. (MIRA 18:9)

1. Institut fiziki metallov AN SSSR.

FILIPPOV, B.S.

PROCESSES AND PROPERTIES INDEX

21

The influence of hydrostatic operation of coke ovens on the composition of the coke gas. M. Shipolyanski and B. Filippov. *Coke and Chem.* (U. S. S. R.) 7, No. 10, 24-7 (1957); *Chem. Zentr.* 1958, II, 1343. - Expts. reported indicate that the quality of the coke gas is impaired by the penetration of the products of combustion and of air into the coking chamber. It was also shown that large amts. of oxides of N, which contaminate the gas, come from the concd. H_2SO_4 used for the absorption of NH_3 . By changing the hydrostatic regime of the coke oven the properties of the coke gas were essentially improved. The pressure in the coking chamber was increased to 4.0 mm. and the pressure in the heating chamber reduced to 0.6-0.8 mm. on the water gage. Under these conditions the mean d. of the gas was reduced from 0.54 to 0.43. The mean N content was 3-5%, the O content 0.4-0.5%, while the content in oxides of N was reduced. The heating value of the gas was increased from 3100 to 4100 cal. It is recommended that only H_2SO_4 free from oxides of N, which has had air bubbled through it while hot, be used for washing out NH_3 . M. G. Moore

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	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
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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
 TEST AND TAG CODES
 PROCESSES AND PROPERTIES INDEX

FILIPPOV, B.S.
 CA

Theoretical possibilities for the determination of the period of coking. B. S. Filippov. *Coke and Chem.* (U. S. S. R.) 8, No. 6, 27 (1957); *Chem. Abstr.*, *Chem. Abstr.*, 1959, 1, 2529. On the basis of the laws of transfer of heat and exact formulas which have been deduced from the differential equation of Fourier after analytical and graphical investigation of the transfer of heat during coking, a new method is proposed for the detn. of the coking period and the temp. distribution for any given type of furnace construction. M. G. Moore

ASS. I. A. METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 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

FILIPPOV, B.S. 2/

QA

Common Elements

Processes and Properties Index

The layout of the anchor column (for coke ovens). B. S. Filippov. *Coke and Chem.* (U. S. S. R.) 1939, No. 1, 30-31; *Khim. Referat. Zhur.* 1939, No. 9, 87-8. — The permissible pressure of the column during the heating period is discussed. The pressure of the anchor column to the brick structure is given by $P = 1000/h [0.5 h (\sigma_m + \sigma_{act}) + N\mu]$ kg./sq. cm., where N is the normal pressure on the structure in kg./sq. cm., μ the coeff. of friction between the bricks, h the width of the bricks in cm., h the height of the bricks in cm., σ the length of the brick structure in cm., σ_m the coeff. of actual shearing strain resistance of the mortar in kg./sq. cm. and σ_{act} the coeff. of the actual tensile strain of the mortar in kg./sq. cm. In the calcns. it is necessary to check the work of the column for specific conditions of thermal activity in the production of coke. The permissible temp. of the overheating of one stay relative to another is $t_{permissible} = K/E\alpha$ in °C, where K is the cm T of the elastic limit in kg./sq. cm., E the modulus of elasticity in kg./sq. cm. and α the coeff. of linear expansion. For ordinary anchor columns of coke ovens the permissible temp. of any local overheating does not exceed 77°. With a total screening out of the anchor columns from radiation the permissible pressure can be taken as 1300 kg./sq. cm. The given examples of design showed that at times it was necessary to increase the rigidity of the columns on some of the coke ovens. W. R. Heim

ASST. S. A. METALLURGICAL LITERATURE CLASSIFICATION

FORM SYMBOL

120000 WIP JWS GSE

REVISION

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

FILIPPOV, B.S.

VODNEV, G.G.; SHELKOV, A.K.; DIDENKO, V.Ye.; FILIPPOV, B.S.; TSAREV, M.E.;
ZASHEVARA, V.G.; LITVINENKO, M.S.; MEDVEDEV, K.P.; MOLODTSOV, I.G.;
IGALOV, K.I.; RUBIN, P.G.; SAPOZHNIKOV, L.M.; TYUTYUNNIKOV, G.H.;
DMITRIYEV, M.M.; LEYTES, V.A.; LERNER, B.Z.; MEDVEDEV, S.M.; REYAKIN,
A.A.; TAYCHER, M.M.; TSOGLIN, M.E.; DVORIN, S.S.; RAK, A.I.; OBUKHOV-
SKIY, Ya.M.; KOTKIN, A.M.; ARONOV, S.G.; VOLOSHIN, A.I.; VIROZUR, Ye.V.;
SHVARTS, S.A.; GINSBURG, Ya.Ye.; KOLYANDR, L.Ya.; BELETSKAYA, A.F.;
KUSHNEREVICH, N.R.; BRODOVICH, A.I.; NOSALEVICH, I.M.; SHTROMBERG, B.I.;
MIROSHNICHENKO, A.M.; KOPELIOVICH, V.M.; TOPORKOV, V.Ya.; AFONIN, K.B.;
GOFTMAN, M.V.; SEMENENKO, D.P.; IVANOV, Ye.B.; PEYSAKHZON, I.B.;
KULAKOV, N.K.; IZRAELIT, E.M.; KVASHA, A.S.; KAPTAN, S.I.; CHERMNYKH,
M.S.; SHAPIRO, A.I.; KHALABUZAR', G.S.; SEKT, P.Ye.; GABAY, L.I.;
SMUL'SON, A.S.

Boris Iosifovich Kustov; obituary. Koks i khim. no.2:64 '55.(MLRA 9:3)
(Kustov, Boris Iosifovich, 1910-1955)

FILIPPOV, B.S.

DIDENKO, V.Ye.; TSAREV, M.N.; DMITRIYEV, M.M.; LEYTES, V.A.; OBUKHOVSKIY,
 Ya.M.; IVANOV, Ye.B.; CHERTOK, V.T.; URSALENKO, R.N.; KRIGER, I.Ya.;
 PINCHUK, A.K.; ANTONENKO, N.Z.; SMUL'SON, A.S.; VASIL'CHENKO, S.I.;
 DRASHKO, A.M.; RAYEVSKIY, B.N.; KUCHIRYAVENKO, D.N.; SAVCHUK, A.I.;
 ZHURAVLEVA, L.I.; BAUTIN, I.G.; KHRIYENKO, V.Ya.; MOSENKO, N.K.; CHE-
 BONENKO, G.P.; LISSOV, L.K.; MAMONTOV, V.V.; BELUKHA, A.A.; POYDUN, V.F.;
 VOLODARSKIY, M.B.; KAL'CHENKO, G.D.; LEVCHENKO, V.M.; BASHKIROV, A.A.;
 VOROB'YEV, M.F.; IL'CHENKO, L.I.; PODSHIVALOV, F.S.; MOGIL'NIY, P.P.;
 LEVI, A.R.; VASLYAYEV, G.P.; DURNEV, V.V.; OSYPA, S.S.; SAMOFALOV, G.N.;
 FOMIN, A.F.; LESHCHINA, A.I.; FANKEL'BERG, G.Ye.; KHODANKOV, A.T.;
 MAKARENKO, I.S.; LARPOVA, K.K.; VASILENKO, I.M.; VOLOSHCHUK, A.S.; SHEL-
 KOV, A.K.; FILIPPOV, B.S.; TYUTYUNNIKOV, G.N.; DOLINSKIY, M.Yu.; NIKI-
 TINA, P.P.; MEDVEDEV, S.M.; TSOGLIN, M.E.; LERNER, R.Z.; BOGACHEV, V.I.

Mikhail Iakovlevich Moroz; obituary. Koks i khim.no.3:64 '56.(MLRA 9:8)
 (Moroz, Mikhail Iakovlevich, 1902?-1956)

FILIPPOV, B.S.

AFONIN, K.B.; BURTSEV, K.I.; BYSTROV, S.M.; VINETS, G.B.; VODNEV, G.G.; VORONIN, A.S.; GEVLICH, A.S.; GRYAZNOV, N.S.; GUDIM, A.F.; GUSYATINSKIY, M.A.; DVORIN, S.S.; DIDENKO, V.Ya.; DMITRIYEV, M.M.; DONDE, M.M.; DOROGOVID, G.M.; ZHDANOV, G.I.; ZAGORUL'KO, A.I.; ZELNITSKIY, A.G.; IVASHCHENKO, Ya.N.; KAPTAN, S.I.; KVASHA, A.S.; KIREYEV, A.D.; KLISHEVSKIY, G.S.; KOZYREV, V.P.; KOLOBOV, V.N.; LGALOV, K.I.; LEYTES, V.A.; LERNER, B.Z.; LOBODA, N.S.; LUBINETS, I.A.; MANDRYKIN, I.I.; MUSTAFIN, F.A.; NEMIROVSKIY, N.Kh.; NIKIFEDOV, V.A.; OBUKHOVSKIY, Ya.M.; POKRESEV, M.A.; PETROV, I.D.; PODOROZHANSKIY, M.O.; POPOV, A.P.; RAK, A.I.; REVYAKIN, A.A.; ROZHKOV, A.P.; ROZINGAUZ, D.A.; SAZONOV, S.A.; SIGALOV, M.B.; STOMAKHIN, Ya.B.; TARASOV, S.A.; ~~FILIPPOV, B.S.~~; FRIDMAN, N.K.; FRISHBERG, V.D.; KHAR'KOVSKIY, K.V.; KHOLOP'TSEV, V.P.; TSAREV, M.N.; TSOGLIN, M.E.; CHERNYI, I.I. CHERTOK, V.T.; SHELKOV, A.K.

Samuil Borisovich Bamme. Keks i khim. no. 6:64 '56.
(Bamme, Samuil Borisovich, 1910-1956)

(MLRA 9:10)

Filippov, B.S.

Preparation of coal for coking. M. G. Marchenko,
M. V. Mikhalevich, and B. S. Filippov. U.S.S.R. 107,609,
Sept. 28, 1957. Prior to coking, the coal is sized accord-
ing to the rate of falling. The coal is then dried in a
rotary dryer. The coal is then coked in a rotary
coking oven. The rate of falling is determined by
rating out of the tube in three groups.

3

11

POLAND / Chemical Technology. Processing of Naturally Deposited Solid Fuels. H

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 75184.

Author : Filippov, B. S.

Inst : Not given.

Title : Expansion of the Coal Raw Material Bases and Improvement in the Technology of Coking in USSR.

Orig Pub: Koks, smola, gaz., 1957, 2, No. 6, 215-219.

Abstract: A report on the development of the coking industry in the USSR, on the accomplished and the outlined steps for expanding the raw material bases, and on the improvements in the technology of coking: a mechanization in the process of enriching coals, improvements in the crushing and mixing processes, improvements in furnace heating, the introduction of furnaces of a larger capacity and others.

Card 1/1

36

AUTHOR: Filippov, B.S. (Cand. Tech. Sc.)

68-5-13/14

TITLE: Recovery and processing of coke oven by-products on the works of the Federal German Republic. (Upravlianiye i pererabotka khimicheskikh produktov koksovaniya na zavodakh Federativnoy Respubliki Germanii).

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry), 1957, No.5, pp.55-62 (U.S.S.R.).

ABSTRACT: This is a report on the visit of a Russian delegation to West German coking plants. Characteristic features of German plants are described.

There are 11 figures.

ASSOCIATION: Glavkoks MChM SSSR.

Card 1/1

Filippov, B.S. 68-8-15/23
AUTHORS: Filippov, B. S., Candidate of Technical Sciences, and
Gorovoy, G. P.
TITLE: Interaction of Tars with Coals from the Kuznetsk Basin.
(Vzaimodeystviye smol s uglyami Kuznetskogo Basseyna).
PERIODICAL: Koks i Khimiya, 1957, No.8, pp. 46-49 (USSR)

ABSTRACT:

The influence of the addition of pitch tar on the caking properties of coals from the Kuznetsk Basin and the solubility of the above coals in pitch and coal tars, anthracene oil and heavy distillates, obtained on oxidation of pitch tar, were investigated. The influence of pitch tar additions on the thickness of the plastic layer of some coals is shown in figure 1. A considerable improvement in the caking properties of lean coals is obtained. With high volatile coals, the beneficial influence of tar additions is much smaller and with non-coking gas coals, no improvement can be obtained. Coking experiments with tar additions carried out in boxes also gave positive results, particularly for coals of the TS and SS types (no details given). Results on the solubility of various coals in tar and tar fractions are given in tables 1-3 and figures 2-5. On the basis of the results obtained, the following conclusions are drawn: Circulation of tar in the coking cycle (additions of

Card 1/2

68-58-4-16/21

AUTHORS: ~~Filippov, B. S.~~, Candidate of Technical Sciences,
~~Sazonov, S. A.~~, Engineer and Shchukin, P. A., Candidate
of Technical Sciences

TITLE: Summary of the Conference of Workers of the Coking
Industry in Poland (Itogi konferentsii rabotnikov
koksokhimicheskoy promyshlennosti v Pol'she)

PERIODICAL: Koks i Khimiya, 1958, Nr 4, pp 54-53 (USSR)

ABSTRACT: The conference took place on October 26 to November 2, 1957
More than 200 delegates were present. The problems of
resources of coking raw materials, improvements in the
production of coke, and new methods of coking gas and
non-coking long flame coals were mainly discussed. The
contents of the papers read are given in general terms.

1. Coal--Processing 2. Coke--Production

Card 1/1

FILIPPOV, B.S.

5(1) RELEASE BOOK EXPLORATION 909/2127

Konobicheskoye proizvodstvo; sbornik stat'ey (By-Product Coking Industry) Collection of Articles) Moscow, Metallurgizdat, 1959. 80 p. 2,560 copies printed.

Ed.: B. S. Filippov) Ed. of Publishing House: A. A. Beryukhin; Tech. Ed.: I. S. Zolotarev

PURPOSE: This book is intended for engineers and technicians in the by-product coking industry and in scientific research institutes. The book may also be used by students in secondary and higher technical schools.

CONTENTS: The articles in this collection on the by-product coking industry appeared originally either in the periodical Koks i Khimiya (Coke and Chemistry) or in other publications during 1955-1958. The book discusses the experience of research reserves for coking, technology of the manufacture of coke, quality of coke and further enlargement of the number of chemical coking products. The articles are devoted to a new procedure for preparing and beneficiating coke, and to the use of coke for sintering, and to the mechanization and automation of industrial processes. References accompany individual articles.

Составил: Б. С. Филиппов, и И. С. Золотарев, и И. С. Золотарев. [Ученый] The main principle for preparation of Goals for Coking by Crushing

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Составил: И. Я. Яковлев. [Candidates of Technical Sciences, USSR]. Description of Coking Goals in Heavy Metals 76

Cont 1/A

20/68 10-30-55

20

FILIPPOV, B.S.

Scientific and technological Society of Metallurgists is 50 years
old. Koks i khim. no.11:3-5 '60. (MIRA 13:11)

1. Chlen Tsentral'nogo pravleniya, predsedatel' Vsesoyuznoy khimiko-
micheskoy seksii Nauchno-tekhnicheskogo obshchestva chernoy metallur-
gii.

(Metallurgy--Societies)

SICHENKO, V.K.; IVANOV, B.V.; POLYAKOV, I.I.; REZNIKOV, A.A.;
DORFMAN, G.A.; IZFAELIT, E.M.; NOTYCH, A.G.; TOPYGIN,
L.A.; CHALYY, G.Ya.; STETSENKO, Ye.Ya.; UDOVICHENKO, L.V.;
FILIPPOV, B.S., nauchn. red.; LERNER, R.Z., nauchn. red.;
GOL'DIN, Ya.A., glav. red.; KULESHOV, M.M., red.; POLOTSK,
S.M., red.

[By-product coke industry] Koksokhimicheskoe proizvodstvo.
Moskva, Metallurgiya, 1965. 167 p. (MIRA 18:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut in-
formatsii i tekhniko-ekonomicheskikh issledovaniy chernoy
metallurgii. 2. Direktor Tsentral'nogo nauchno-issledova-
tel'skogo instituta informatsii i tekhniko-ekonomicheskikh
issledovaniy chernoy metallurgii. (for Kuleshov).

FILIPPOV, B.T.

Hygiene for the railroad passenger" by D.L. Sats. [vrach].
Zdorov'e 6 no.6:32 Je '60.

(RAILROADS--SANITATION)
(SATS, D.L.)

(MIRA 13:7)

FILIPPOV, B.T.

"Lost weeks." Zdorov'ie 7 no. 4:32 Ap '61.
(MOTION PICTURES IN HEALTH EDUCATION)

(MIRA 14:4)

FILIPPOV, B.V.

Properties of the clay of the Devonian sediments in the Tatar
A.S.S.R. and Bashkiria. Neftegaz. geol. i geofiz. no. 5:48-49
'63. (MIRA 17:5)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazve-
dochny institut.

FILIPPOV, B.V.; LAZAREVA, V.M.

Lithomineralogical and physical characteristics of clay rocks
in Albian sediments in western Ciscaucasia. Dokl. AN SSSR
157 no.1:108-111 J1 '64 (MIRA 17:8)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-
razvedochnyy institut. Predstavleno akademikom N.M. Strakhovym.

16(1) 16,3500

AUTHOR: Filippov, B.V.

SOV/155-58-4-12/34

TITLE: The Solution of the Cauchy Problem for an Hyperbolic Equation With Initial Data on the Line of Parabolicity (Resheniye zadachi Koshi dlya giperbolicheskogo uravneniya s nachal'nymi dannymi na linii parabolichnosti.)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 4, pp 69 - 74 (USSR)

ABSTRACT: The author investigates the problem

$$r(y)U_{xx} - U_{yy} + b(x,y)U_y + q(x,y)U = f(x,y)$$

$$U|_{y=0} = \tau(x) \quad , \quad U_y|_{y=0} = \nu(x)$$

$$\tau(x) \quad , \quad \nu(x) \in C^{(2)} [0,1] \quad ; \quad x,y \in S$$

The domain S is bounded in $y > 0$ by two characteristics AM and BM and by the interval $0 < x \leq 1$ of the OX-axis. The b, q, f are continuous on $[0,1]$ in x ; in S it exists $\frac{\partial b}{\partial y}$; q, f increase to ∞ as y^{-B} for $0 < B < 1$; in the neighborhood of the zero point $r(y)$ is representable by

Card 1/2

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The Solution of the Cauchy Problem for an Hyperbolic Equation With Initial Data on the Line of Parabolicity SOV/155-58-4-12/34

$$r(y) = y^\alpha r_1(y) \quad , \quad \alpha > 0, r_1(y) > 0, r_1(y) \in C^1$$

The approximative solution is carried out according to the method of Dorodnitsin [Ref 2] by assuming that the solution is little different from the solution of the same problem for the equation $r(y)U_{xx} - U_{yy} + q_0(y)U = 0$, where q_0 is a function of $r(y)$ which vanishes identically for $r(y) = y^\alpha$.

The method can be applied in certain cases for the calculation of supersonic zones of Laval jets.

The author mentions M.B. Kapilevich. - There are 5 references, 4 of which are Soviet, and 1 Italian.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: January 6, 1958

Card 2/2

FILIPPOV, B.V.

Distribution of discontinuities along characteristics in the
case of given discontinuities on the parabolic line. Vest. LGU
15 no.1:159-161 '60. (MIRA 13:1)
(Functions)

33537
S/043/62/000/001/007/009
D299/D303

16.1200 1327

AUTHOR: Filippov, B.V.
TITLE: Variant of non-steady kinetic equations of rarefied-gas aerodynamics
PERIODICAL: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1, 1962, 142 - 146

TEXT: Integral kinetic equations are derived which are suitable for solving non-steady flow problems in their natural formulation, when the initial distribution-function is given. These equations are a modified version of S.V. Vallander's equations (Ref. 1: Novyye kineticheskiye uravneniya v teorii odnoatomnykh gazov, DAS SSSR 131, 1, 1960); they are however, more convenient than Vallander's equations. The modified equations can be derived in two ways: Directly from physical considerations or formally from the equations of Ref. 1 (Op.cit.). The direct derivation is more advantageous; it involves the following argument: A monoatomic rarefied gas is considered, neglecting the effect of mass forces; the reasoning can be extended however, to more complex cases. The following notations
Card 1/3

... (for an almost-nor-

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S/043/62/000/001/007/009
D299/D303

Variant of non-steady kinetic ...

mal distribution) the rate of increase is largely dependent on the mean velocities of the gas particles. For an infinitesimal period of time, the equation for f does not contain at all the interior points of the flow boundary conditions which is also the case with Boltzmann's equation. On passing to the limit $t - t_0 = \Delta t \rightarrow 0$, one obtains Boltzmann's equation from the equation for f . Finally, the sought system of equations is formally derived from S.V. Vallander's equations. There are 3 Soviet-bloc references.

X

Card 3/3

VALLANDER, S.V.; GURMUZOVA, E.A.; FILIPPOV, B.V.

Integral kinetic equations in the case of an arbitrary conservative field of external mass forces. Vest. LGU 17 no.13:87-89 '62. (MIRA 15:7)

(Integral equations)

VALLANDER, S.V.; GURMUZOVA, E.A.; FILIPPOV, B.V.

Integral kinetic equations for an arbitrary conservative field of
external mass forces. Aerodin. razresh. gaz. no.1:64-66 '63.
(MIRA 17:3)

FILIPPOV, B.V.

Variant of nonsteady-state kinetic equations. Aerodin. razresh.
gaz. no.1:67-73 '63.

Kinetic equation of the adsorption layer. Ibid.:162-182
(MIRA 17:3)

FILIPPOV, B.V.

Conditions governing the accumulation of industrial gas in the
Berezevo region. Trudy VNIGRI no.225:281-284 '63. (MIRA 17:3)

E. 13399-63

BDS/EMT (m) AB

ACCESSION NR: AP3000514

8/0020/63/150/002/0290/0293

AUTHOR: Filippov, B. V. H9TITLE: Kinetic equation of an adsorption monolayer

SOURCE: AN SSSR. Doklady, v. 150, no. 2, 1963, 290-293

TOPIC TAGS: probability of energy exchange, probability of desorption, probability of adsorption, equation of adsorption layer

ABSTRACT: At low temperatures and in the presence of atmospheric density a streamlined body induces an adsorption layer on its surface which can decisively determine the nature of the interaction of the external gas flow with the surface. With the aid of the idea of statistical collection of particles in a state and time space, the equation for the adsorption layer is connected with the equation for a distribution function that describes the external gas flow:

$$\begin{aligned} \theta(r_s, t) = & \theta(r_s, t_0) R(r_s, \theta, t_0, t) + \\ & + \int_{t_0}^t R(r_s, \theta, \tau, t) \iint_{(u_n < 0)} |u_n| f(r_s, u, \tau) K(u, r_s, T_w, \theta, \tau) du d\tau. \end{aligned}$$

Card 1/21

FILIPPOV, B. V. (Leningrad)

"Contribution to the theory of the adsorption layer at the surfaces of bodies in a rarefied gas".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

BARANTSEV, R.G. (Leningrad); FILIPPOV, B.V. (Leningrad)

Simplified variant of an integral kinetic operator. P.M.T.F. no.2:
129-131 Mr-Ap '64. (MIRA 17:8)

FILIPPOV, B.V.

Role of an increased concentration of sulfate ions in the formation
of oil and gas pools as revealed by a study in the Bukhara-Khiva
Province. Trudy VNIGRI no.227 Geokhim.sbor. no.9:226-233 '64.
(MIRA 18:1)

41573-65 EWA(1)/EMP(H)/EWA(d)/FGS(k)/EWA(1) Pd-1

ACCESSION NR: AT5009615

UR/3034/65/000/002/0272/0281

12
B+1

AUTHOR: Filippov, B. V.

TITLE: The theory of the adsorption layer on surfaces of objects within rarified gases

SOURCE: Leningrad, Universitet, Nauchno-issledovatel'skiy institut matematiki i mekhaniki. Aerodinamika razrezhennykh gazov, no. 2, 1965, 272-281

TOPIC TAGS: rarified gas flow, adsorbed layer reflection, elastic molecular reflection, diffuse molecular reflection, surface scattering

ABSTRACT: The state of the surface has a significant effect on the high-speed flow of rarified gases around rigid bodies. The energy exchange and surface scattering may be very different depending on the amount of adsorbed particles encountered on various surfaces. The author previously derived (see, e.g., DAN SSSR, 1963, no. 2, 290-293, 1963) integral and differential equations of the adsorption layer suitable for the treatment of problems of the interaction of gas molecules with surfaces and presented certain solutions. The interaction dynamics were presented in the form of functional coefficients. The results are presented with an increasing degree of accuracy without modifications in the general ap-

Card 1/2

L 41573-65

ACCESSION NR: AT5009615

0

approach. This paper outlines certain new formulations for the probability of
 and dislodging of particles which seem to give a better agreement
 experimental data. The connection between the theory and the com-
 of the surface is also discussed and the
 of the surface of the particles
 The surface of the particles
 with a total loss of correlation
 surface is assumed uniform with
 the gas particles are assumed

The paper has 13 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut matematiki i mekhaniki, Lenin-
 universitet (Scientific Research Institute of Mathematics and Mechanics,
 Leningrad University)

SUBMITTED: 00

ENCL: 00

SUB CODE: ME

NO REF SOV: 004

OTHER: 002

me
Card 2/2

KARPOV, V.I.; FILIPPOV, B.V.

Effect of β -particles of C^{14} on Chlorella grown in a medium
with C^{14} carbonates. Radiobiologia 5 no.4:580-583 '65.
(MIRA 18:9)

1. Biologicheskii institut Leningradskogo universiteta imeni
A.A. Zhdanova.

ML 4304-66 EWT(d) IJP(c)

ACCESSION NR: AP5025854

UR/0020/65/164/004/0768/0770

AUTHORS: ^{44,65} Filippov, B. V.; ^{44,55} Il'inakaya, G. B.

529
49

TITLE: Existence and uniqueness of the solution of the Boltzmann equation

13
16,445

SOURCE: AN SSSR. Doklady, v. 164, no. 4, 1965, 768-770

TOPIC TAGS: differential equation, Boltzmann equation, gas dynamics

ABSTRACT: The authors prove an existence-uniqueness theorem for the Boltzmann equation written in the form

$$f(r, u, t) = F_0(r, u, t) + \int_0^t I(r, u, \tau, t) d\tau. \quad (1)$$

describing flow about a convex body by a rarefied gas of structureless particles under rather general boundary conditions and a wide class of potentials of interaction between the gas particles. Here

$$F_0(r, u, t) = \begin{cases} F_0(r, u, t) = f_0(r - ut, u), & \tau_0 \leq 0 \text{ or does not exist,} \\ \frac{1}{|u_n|} \int_{(u_{1n} < 0)} |u_{1n}| F_0(r_0, u_1(\tau_0)) \mathcal{T}(u_1, u) du_1, & \tau_0 > 0; \end{cases} \quad (2)$$

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ACCESSION NR: AP5025854

$$\begin{aligned}
 F(r, u, \tau, t) = & \left\{ \int_{(u_1)} \int_{(u_2)} \sigma(u_1 - u_2) |u_1 - u_2| \times \right. \\
 & \times f(r - u(t - \tau), u_1, \tau) f(r - u(t - \tau), u_2, \tau) \times \\
 & \times T(u_1, u_2, u) du_1 du_2 - f_0(r - u(t - \tau), u) \times \\
 & \times \int_{(u_1)} \sigma(u - u_1) |u - u_1| \times \\
 & \times f(r - u(t - \tau), u_1, \tau) du_1 \left. \right\} \exp \left\{ - \int_{\tau}^t \int_{(u_1)} \sigma(u - u_1) |u - u_1| \times \right. \\
 & \times f(r - u(t - q), u_1, q) du_1 dq \left. \right\}, \quad \tau > \tau_s, \\
 & \frac{1}{|u_n|} \int_{(u_n < 0)} |u_n| F(r_s, u', \tau, \tau_s) \bar{T}(u', u) du', \quad \tau < \tau_s;
 \end{aligned} \tag{3}$$

u_n is the projection of velocity on the normal to the surface of the body at the considered point; σ is a section of collision; T and \bar{T} are probability characteristics of the results of collisions of particles between themselves and with the boundary; f_0 is the initial distribution function; $F(r) = 0$ is the equation of the surface of the body; τ_s is the largest root of the equation $F(r - u(t - \tau_s)) = 0$,

Card 2/3

L 4304-66

ACCESSION NR: AP5025854

$r_g = r-u(t-\tau_g)$. Orig. art. has: 9 formulas. 3

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova
(Leningrad State University)


SUBMITTED: 26Feb65

ENCL: 00

SUB CODE: MA, ME, TO

NO REF SOV: 001

OTHER: 005

Card 3/3 

FILIPPOV, Dmitriy Arkhipovich, kand.tekhn.nauk; BASKAKOV, Ye.D., red.;
~~STRATILATOVA, K.I.~~, red.isd-va; KORNUSHINA, A.S., tekhn.red.

[Production of rough stock in woodworking enterprises] Proiz-
vodstvo zagotovok na derevoobrabatyvaiushchikh predpriatiakh.
Moskva, Goslesbumizdat, 1959. 81 p. (MIRA 13:2)
(Woodworking industries)

17209-55 EPF(c)/EPA(s)-2/EWA(h)/ENP(j)/EMP(k)/EET(A)/EET(B)/EET(C)/EET(D)/EET(E)
EET(F)/EET(G)/EET(H)/EET(I)/EET(J)/EET(K)/EET(L)/EET(M)/EET(N)
EET(O)/EET(P)/EET(Q)/EET(R)/EET(S)/EET(T)/EET(U)/EET(V)
EET(W)/EET(X)/EET(Y)/EET(Z)/EET(AA)/EET(AB)/EET(AC)
EET(AD)/EET(AE)/EET(AE) 17209

AUTHOR Gavrilov, I. K.; Filippov, D. A.; Strukov, V. M.; Blatov, V. S.; Shalimov, A. S.; Vul, N. I.; Ivandov, A. M.; Belyakov, V. Y.; Frolov, E. A.; Khantsis, P. Z.; Selensk, I. F.

TITLE: Winding machine. Class 32, No. 17209 15

SOURCE ^{44, 55, 14} Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 65-66

TOPIC TAGS: glass reinforced plastic, plastic filament, fiber glass, filament winding, winding machine, filament wound article 16

ABSTRACT: This Author Certificate introduces a machine for fabrication of glass-reinforced plastic articles by filament winding. The machine includes a drive with a mandrel mounted on a rotating shaft. The machine is equipped with profiled guides to ensure the correct shape of the articles. 2 articles are attached to the machine.

Card 13

L 62709-65

ACCESSION NR: AP5019030

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike SSSR
(Organization of the State Committee on Aviation Engineering, SSSR) 4

SUBMITTED: 19May64

ENCL: 01 ¹⁵

SUF CODE: MT,IE

NO REF SOV: 000

OTHER: 000

ATE PRESS: 4064

Card 2/3

L 62709-65

ACCESSION NR: AP5019030

4

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike SSSR
(Organization of the State Committee on Aviation Engineering, SSSR) 44.55

SUBMITTED: 19May64

ENCL: 01

SUB CODE: MT, IE

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4064

Card 2/3

L 62'09-65

ACCESSION NR: AP5019030

ENCLOSURE: 01

0

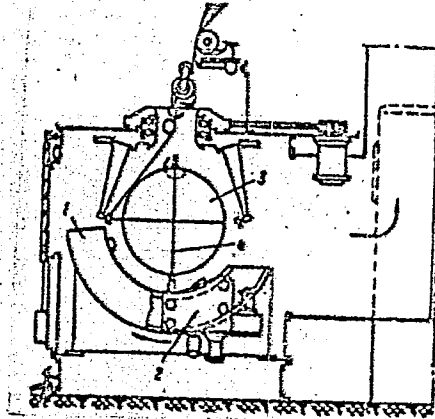


Fig. 1. Winding machine

- 1 - Shaped guide; 2 - reductor;
- 3 - mandrel; 4 - shaft.

KC
Cord 3/B

L 11260-66 (7) EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(j)/T/EWP(k)/EWA(h)/ETC(m) EM/WW/RM

ACC NR: AP5028475 SOURCE CODE: UR/0286/65/000/020/0056/0057

INVENTOR: ^{44,55} Gavrilov, I. K.; ^{44,55} Filippov, D. A.; ^{44,55} Strukov, V. M.; ^{44,55} Blatov, V. S.; ^{44,55} Shalinov, A. S.; ^{44,55} Vul. N. I.; ^{44,55} Ivanov, A. P.; ^{44,55} Belyakov, V. S.; ^{44,55} Frolov, R. S.; ^{44,55} Khantsis, R. Z.; ^{44,55} Andriyevskaya, G. S.; ^{44,55} Zelenskiy, E. S.; ^{44,55} Kuperman, A. M.; ^{44,55} Dobrovol'skiy, A. K.; ^{44,55} Dzhereliyevskiy, A. B.

ORG: none

TITLE: Method of fabricating fiberglass shells. Class 32, No. 175624 ^{15.44.55} ¹⁶ ⁷⁶ ^B

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1065, 56-57

TOPIC TAGS: shell, cylindrical shell, fiberglass shell, shell fabrication, fiberglass winding, solid fuel rocket, rocket case

ABSTRACT: This Author Certificate introduces a method of fabricating shells from fiberglass wound on a pattern which is then melted out or dissolved. To increase the strength of the shell, the winding is combined with the stretching of fiber by means of a fiber guide which rotates around the pattern. ²⁶ [DV]

SUB CODE: 11, ¹⁹ SUBM DATE: 02Jul64/ ATD PRESS: ⁴⁴⁷⁰

HW
Card 1/1

FILIPPOV, D.I., kandidat biologicheskikh nauk.

Effect of peat soils on the efficiency of clonic selection of potatoes. Dokl. Akad. sel'khoz. 22 no.6:10-12 '57. (MIRA 10:9)

1. Nauchno-issledovatel'skiy institut kartofel'nogo khosyaystva.
Predstavlena akademikom I.V. Yakushkinym.
(Potato breeding)

FILIPPOV, D.I.

**Influence of the type of soil and area of supply on the degeneration
of potato seedlings. Dokl. Akad. sel'khoz. 22 no.12:14-15 '57.
(MIRA 11:4)**

**1. Institut kartofel'nogo khozyaystva. Predstavlena akademikom
I.V. Yakushkinym.**

(Potatoes)

FILIPPOV, D.I., kand. biol. nauk

Effect of various soil types and planting density on results
obtained in the mass breeding of seed potatoes. Dokl. Akad.
sel'khoz. 24 no.3:13-14 '59. (MIRA 12:5)

1. Institut kartefel'noye khozyaystvo. Predstavlena akademikom
I.V. Yakushkinym. (Potato breeding)

FILIPPOV, D.I., kand.biologicheskikh nauk

Growing seed potatoes. Agrobiologiya no.4:532-534 J1-Ag '62.

(MIRA 15:9)

1. Nauchno-issledovatel'skiy institut kartofel'nogo khozyaystva,
Moskovskaya oblast'.

(SEED POTATOES)

FILIPPOV, D.I.; KHARLAMP'YEVA, N.I.; MAKSAKOVA, V.M.; KHILKOVA,
O.G.; IVANCHENKO, Ye.A.; ZHUKOVSKIY, D.I.; BORDUKOVA, M.V.;
TAIROVA, V.N., red.

[Growing seed potatoes in the R.S.F.S.R.] Semenovodstvo kar-
tofelia v RSFSR [By] D.I. Filippov i dr. Moskva, Sel'khoz-
izdat, 1963. 166 p. (MIRA 17:6)

FILIPPOV, D.I., kand. biolog. nauk

Potatoes in seed plots. Zemledelia 27 no. 5:56-69 My '65.

(MIRA 18:6)

1. Nauchno-issledovatel'skiy institut kartofel'nogo khozyaystva.

FILIPPOV, D.I.

Ways of solving the roof control problem in underground coal
gasification. Podzem. gaz. ugl. no. 2:16-20 '58. (MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz.
(Coal gasification, Underground)
(Subsidence(Earth movements))

FILIPPOV, D.I.

Advantage of filling and self-filling mines as means of controlling
the roof and the gasification process for thick and medium seams.
Podzem. gaz. ugl. no.4:25-30 '58. (MIRA 11:12)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz.
(Coal gasification, Underground) (Mine filling)

FILIPPOV, D.I.

Roof control at the Angren "Podzemgas" station. Podzem.gaz.
ugl. no.3:19-25 '59. (MYRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut
podzemnoy gazifikatsii ugley.
(Angren Basin--Coal gasification; Underground)
(Mining engineering)

FILIPPOV, D.M.

Are there deep currents in the Black Sea? Priroda 49 no. 12:101-103 D '60. (MIRA 13:12)

1. Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya stantsiya Instituta okeanologii AN SSSR, Gelendzhik.
(Black Sea--Hydrology)

FILIPPOV, D.M.; MIKHAYLOV, S.T.; KRIVOSHEYA, V.G.

Use of aeronautical parachutes in the measurement of deep ocean
currents. Meteor. i gidrol. no. 5:42-43 My '61. (MIRA 14:4)
(Ocean currents) (Parachutes)

FILIPPOV, D.M.

Horizontal deep-sea circulation in the Black Sea. Trudy Inst. okean.
53:112-122 '61. (MIRA 15:2)
(Black Sea--Ocean currents)

(N) L 4894-66 EWT(1) GW

ACCESSION NR: AP5021208

UR/0213/65/005/004/0635/0641
551.465.41(262.5)

24
22
20

AUTHOR: Filippov, D. M.

TITLE: The cold intermediate layer in the Black Sea

SOURCE: Okeanologiya, v. 5, no. 4, 1965, 635-641

TOPIC TAGS: ¹⁵⁵ocean current, temperature measurement, hydrology, sea water, oceanographic expedition/Black Sea

ABSTRACT: The author examines the data from hydrologic stations in the western and northwestern regions of the Black Sea, recorded during the same 3-day period in February of 1957 and 1958. A current pattern corresponding to the overall pattern was observed in the surface layer of the western half of the Black Sea. An analysis of the characteristics of the vertical variations in the water temperature in the upper 100-meter layer at several stations situated off the coasts of South Crimea and Anatolia showed that during the temperature recordings the cold intermediate layer was in the process of renewal, and that this process is confined to the area between 43 and 44.5° latitude and 29 and 33° longitude. Analysis of data taken between 1922 and 1958 shows that sometimes the renewal of

Card 1/2

010055

L 4894-66

ACCESSION NR: AP5021208

2

the cold intermediate layer does not occur for 3 or 4 years. This finding is discussed. It is concluded that there can be no doubt that the cold intermediate layer is of advective origin. The hydrologic material available makes it possible to study some aspects of this phenomenon in detail, but there is a need for more systematic and effective winter expeditionary investigations. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Institut okeanologii AN SSSR (Institute of Oceanology, AN SSSR)

SUBMITTED: 23May64

ENCL: 00

SUB CODE: ES

55

NO REF SOV: 003

OTHER: 000

OC

Card 2/2

FILIPPOV, D.M.

The cold intermediate layer in the Black Sea. Okeanologia 5 no.4:
635-641 '65. (MIRA 18:9)

1. Institut okeanologii AN SSSR.

ACC NR: AR6022226

(N)

SOURCE CODE: UR/0362/66/002/006/0668/0671

AUTHOR: Filippov, D. M.

ORG: Academy of Sciences SSSR, Institute of Oceanology, Kaliningrad Division (Akademiya nauk SSSR, Institut okeanologii, Kaliningradskoye otdeleniye)

TITLE: Natural convection at large ocean depths

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 6, 1966, 668-671

TOPIC TAGS: oceanography, ocean current, thermal convection, similarity theory, ocean floor topography

ABSTRACT: The author demonstrates the applicability of the conclusions of similarity theory for certain regions near the floor of the Pacific Ocean. It is deduced on the basis of the presently available data for the Atlantic Ocean, which were obtained from 250 stations located there and which were gathered during the IGY, that the heat flowing into the ocean through the ocean floor produces essentially free convection. The results obtained for the Atlantic Ocean are compared with experimental data obtained in sedimentation layers and arguments are presented in favor of the assumption that the free convection at the ocean floor, if it exists and if it is caused by the influx of heat through the floor, is not of the Rayleigh type. Orig. art. has: 2 figures and 7 formulas.

SUB CODE: 08, 20/ SUBM DATE: 23Aug65/ ORIG REF: 005/ OTH REF: 002

Card 1/1

UDC: 551.465.46

FILIPPOV, D.P., inzhener (Moskva); FRINSHTEYN, I.P., inzhener (Moskva)

Laying a 900 mm diameter steel conduit. Stroi.pred.neft.prom. 1 no.6:
21-22 Ag '56. (Petroleum--Pipelines) (MIRA 9:9)

FILIPPOV, D. P.: Master Geolog-Mineralo Sci (diss) -- "Conditions for sediment accumulation and coal formation in the Middle Carboniferous stratum C₂⁴ in the northeast sector of the Greater Donbass". Rostov na Donu, 1958. 21 pp (Min Higher Educ USSR, Rostov State U), 106 copies (KL, No 1, 1959, 116)