

L 37102-66 E&P(k)/EWT(d)/SWF(h)/EWP(l)/EWP(v) EC/SD

ACC NR: AT6012888

SOURCE CODE: UR/0000/05/000/000/0070/0085

AUTHOR: Nikolayev, V. I.

40

39

ORG: None

641

TITLE: Entropy method for the analysis of control circuits

SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 70-85

TOPIC TAGS: bionics, man machine communication, automatic control system, information theory

ABSTRACT: The author studies the problems which can be solved by the entropy method of control circuit analysis. This method is called entropic because it is based on the concept of information entropy. In setting up a control system a single goal is maintained to insure the required organization of the system. A system is set up which is fully and partially automated and in which a series of control functions are carried out by a man-operator. A diagram is given showing the control system with a man-operator included. The qualitative aspect of information is considered. Emergency control systems are studied, where the amount of information is not large but its meaning is essential. Operative con-

Card 1/2

L 36335-66 EWT(d)/EWP(1) OD

ACC NR: AT6012896

SOURCE CODE: UR/0000/65/000/000/0197/0214

AUTHOR: Gavrilov, L. V.; Nikolayev, V. I.; Temnov, V. N.

13
P+1

ORG: None

TITLE: Results of a study on working conditions of operators

SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 197-214

TOPIC TAGS: Information theory, man machine ~~cooperation~~, automatic control system, information processing

ABSTRACT: Experiments are set up to explain the basic factors which affect the duration of time lost by operators in performing their tasks. An experimental apparatus, OPERATOR, was constructed for this study. The results of this experiment show that information reception increases in proportion to the number of light signals. An expression is given for this relationship

$$\tau_{rec} = bH + a$$

Information reception time is not determined by input information presented by the apparatus.
Card 1/2

NIKOLAEV, V.K.

The use of all-steel fixed dentures in practice. Stomatology
37 no.4:70 Jl-Ag '58 (MIRA 11;9)

1. Is Okruzhnoy stomatologicheskoy polikliniki Pribaltiyskogo
voynennogo okruga (nachal'nik S.N. Prekef'yev).
(DENTAL PROSTHESIS)

REF ID: A65137120002-4
CNP(A)/CNP(B)/CNP(K)/CNP(L) PF-4 JD

100000 ARMY OF THE REPUBLIC OF KOREA

100000 TELKOM MILITARY

100000 Mokolyayev, V. K.

100000 The angle of feed and its direction in the helical angle in gear hobbing

100000 SOURCE: Mr. Kuybyshevsk, avtata, Inst. APPN, Leningrad

100000 TAGS: gear hobbing, feed pattern, climb milling, out-cut milling, relief calculation

100000 STATEMENT: The cutting angle (relief angle) differs in gear hobbing from the relief angle in other types of machining. The relief angle is determined as the angle between the axis of rotation of the hob and the tangent to the tooth profile at the point of contact of the hob with the gear. The angle of feed is determined by the location of the cutting edge of the hob relative to the direction of rotation around the axis of the gear. The angle of feed is measured in degrees.

100000 1/1

L-41294-65

ACCESSION NR: A85005684

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job with the velocity V_x , rotation of the hob around the machined piece at velocity γ and the feed f parallel to the axis of the piece. After plotting the composite curve, the composite axis and the cutting path can be identified. The composite axis is the axis of the workpiece, the cutting path is the locus of the center of the hob. To identify the paths, it is necessary to determine the angle between the composite axis and the cutting path. This angle is increased as the feed f is increased. The angle $\theta = \pi/2 - \alpha$ is the angle between the composite axis and the cutting path. The angle θ is decreased as the feed f is decreased. The angle θ is also affected by the velocity V_x and the velocity γ . The angle θ is increased as the velocity V_x is increased and the angle θ is decreased as the velocity V_x is decreased. The angle θ is also affected by the velocity γ and the angle θ is increased as the velocity γ is increased and the angle θ is decreased as the velocity γ is decreased. The angle θ is also affected by the feed f and the angle θ is increased as the feed f is increased and the angle θ is decreased as the feed f is decreased. The angle θ is also affected by the velocity V_x and the velocity γ and the cutting path is the locus of the center of the hob. The angle θ is also affected by the feed f and the cutting path is the locus of the center of the hob. The angle θ is also affected by the velocity V_x and the velocity γ and the cutting path is the locus of the center of the hob.

REF ID: A647520 2, 2472, 149, 117/BL65/8155
DATE: 11/20/86 BY: KJM/JD

ACCESSION #: A647520

4, 2472, 149, 117/BL65/8155

AUTHOR: Ref. zh. Tekhnologiya mashinostroyeniya. Svednyy tom,
Avt., 7B985

B

AUTHOR: Nikolayev, V. K.

TITLE: The efficiency of gear cutting with the feed

CITED SOURCE: Tr. Kuybyshevsk. aviat. in-t, vyp. 17, 1963, 95-98

TOPIC TAGS: gear, cutting tool, metal cutting, machining/ steel
12Kh2N18, steel 30KhGSA, steel 40KhNMA

TRANSLATION: A report is given of the results of an investigation
of conditions and quality of work in machining gear wheels cut with
a feed and against the feed of the gear cutter. A comparative
evaluation of the precision of the machined gears was carried out
by considering three factors: the radial play (wobble) of the toothed
rim, difference in basic pitch, and profile of working section error.
A table of comparative results of the measurements is presented, from
which the following conclusions can be drawn: (1) In gears machined

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L 20939-65

ACCESSION NR: AR4047528

by the conventional method compared to gear cutting with the feed, there is observed an increase in radial play of the toothed rim by 1.5-2 times which, according to GOST 1643-56, establishes a decrease of one in degree of precision. (2) The precision of basic pitch in gears cut with and against the feed is almost identical. (3) Results of measurements of profile error demonstrate that cutting with the feed assures mainly the eighth degree of precision, while cutting against the feed assures the ninth and tenth degrees. (4) With the feed machining of straight toothed gears out of steels 12Cr2Ni4A, 12CrMoV and 40CrNiMn with a carbide insert cutter, compared to the conventional method, assures an increase in the life of the tool by 2-3 times. 2 tables.

OBJ CODE: MM, IX

ENCL: 00

2/2

REF ID: A67101

Green chamber separator for the cleaning of auto. M-16
Re. 7039 Jn 1965.

(MRA 1965)

NIKOLAEV, V.L., 1msh.

Physical nature of creep in concrete. Trudy NIIT no.101:260-269 '58.
(Concrete) (Creep of materials) (NIIR 11:6)

NIKOLAYEV, V.L., Cand Tech Sci — (diss) "Study of ~~the~~ defor^{stion}
properties of concrete ~~under~~ ^{upper} expansion." Msc, 1952, 6 pp
(Mos Order of Lenin and Order of Labor Red Banner Inst of Engineers
of Railraod Transport in L.V. Stalin) 150 copies (M, 30-59, 11)

67940

S/097/59/000/09/004/01;
E141/E204

15.3200

AUTHORS: Shevkin A. Ye., Doctor-Professor of Technical Sciences
and Nikolayev, V. L., Engineer

TITLE: Elastic and Plastic Properties of Tensioned Concrete¹⁵

PERIODICAL: Beton i zhelezobeton, Nr 9, 1959, pp 396-402 (USSR)

ABSTRACT: The authors describe the results of their work carried out in the MIIT Laboratory on the deformation properties of concrete and cement grout subjected to axial tensioning and bending. These experiments were carried out with high quality concretes as these are now being increasingly used with reduced water/cement ratio. Investigations were carried out to obtain experimental data to construct deformation curves of concrete subjected to bending under increasing loading. A detailed description of the preparation of testing beams and of testing itself are given. Table 1 gives mixes of concrete and other related values. The loading of test samples takes place in a testing apparatus (Fig 1) which was designed by the authors and based on the Mikhaelis' apparatus. Diagrams of total deformations are given in Fig 2. Deformation curves of compressed and tensioned concrete are given in Fig 3; they show that in both cases after

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67050

S/097/59/000/09/004/013
E141/E264**Elastic and Plastic Properties of Tensioned Concrete**

repetitive loadings on concrete 3 to 7 days old residual deformation could be noted due to the accumulation of temporary deformations, whereas with concrete 28 and 19 days old the magnitude of residual deformation does not change. The theory of Freyssin does not explain a number of experimental data; for example the presence of creep deformation in samples submerged in water and the fact that creep deformations are linear. The purely mechanical theory presented by Professor A. K. Malmeyster is only suitable for building up a physical theory of elastic deformations of solid poly-crystalline bodies. According to the structural theory, the deformation characteristics of concrete are primarily defined by the properties of cement grout. Gypsum-paraffin models were used to test the structural theory of concrete (Fig 6). To load these samples a 4-ton capacity press "IM-4A" was used. Fig 7 shows creep deformation curves of cement grout and of gypsum-paraffin samples. Experiments show that with increased rate of loading the strength of samples also increases; at the

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"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137120002-4

NIKOLAEV, V.L., insh.

Strain characteristics of concrete in tension. Trudy MIIT 108:
253-268 '59
(Strains and stresses) (Reinforced concrete)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137120002-4"

15 3200

AUTHORS:

Gheykin, A. Ye., Royak, S. M., Leybovich, Kh. M.
Nikolayev, V. L.

31973
8/061/01/000/023/042/061
B136/B101

TITLE:

Long-time strength gain of concrete

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 23, 1961, 355, abstract
25K380 (Tr. Gos. Vses. n.-i. in-ta tsementn. prom-sti,
1960, no. 14, 118-130)

TEXT: When C_3S and C_2S are hydrated, hydrosilicates of the same composition and structure are formed. In a cement brick they form an independent phase with a highly dispersed crystalline structure. According to Bernal this is due to crystals which have a lamellar structure, so that the interplanar spacings vary in dependence on water content. There are three components to the structure of cement brick: (a) a crystalline concretion formed by isomorphously crystallizing compounds of $Ca(OH)_2$ and $3CaO \cdot Al_2O_3 \cdot 6H_2O$ and hydrosulfato-aluminates of calcium; (b) a felling structural component formed by the

Card 1/3

31973
S/081/61/000/023/042/061
B138/B101

Long-time strength gain ...

calcium hydroxilates; (c) partially hydrated grains of portland cement clinker. The physicomechanical properties vary in dependence on the quantitative ratio of the structural components and the degree of hydration of the cement grains. Strength variations with time are the result of two opposing processes: (a) thickening of the gel, which consolidates the structure and increases the strength of the cement brick; (b) ageing of the crystalline concretion, which is accompanied by a reduction in strength. In the initial stages of solidification, strength is determined mainly by the number of few formations able to produce crystalline concretions. This means that strength diminishes in the early stage of solidification as the belite concentration increases. Higher belite concentration causes the strength increase period to be extended. This is attributed both to the hydration of the cement and the thickening of the gel. Ageing of the crystalline concretion is the result of the disintegration of unstable mixed crystals to form a metastable multi-phase state, causing increased brittleness and changing the physicomechanical properties of the brick. Depending on the combined effect of these processes, the period of strength gain may be extended, the variation in time may be negligible, or strength may go completely. A method is proposed for the determination of the possibility of a long-time strength

Card 2/3

OROMOV, I.I., kand. tekhn. nauk; NIKOLAYEV, V.L., kand. tekhn. nauk;
KIRAPOV, V.O., kand. tekhn. nauk

Crack resistance of concrete. Trudy MIIT no.191:144-151. '64.
(MIRA 1016)

NIKOLAYEV, V. M.

Cand Geolog - Mineralog Sci

Dissertations: "Reduction of Sulfates and Hydrological Conditions for Preservation
of Oil Deposits in the Terek-Sundzha Oil-Bearing Area." 27/6/50

Moscow Order of the Labor Red Banner Petroleum Inst imeni I. M. Gubkin.

O Vecheryaya Moskva

um 71

NIKOLAYEV, V. M.

CHERCHENKO, G. V., NIKOLAYEV, V. M., BEZRUKOV, Ya. G. and BELOUSOV, V. I.

"The Determination of the Pressure of Saturated Petroleum Crudes in Strata."

report presented at the 6th Sci. Conference on the Application of Ultrasound
in the investigation of Matter, 3-7 Feb 1958, organized by Min. Education
PSFSR and Moscow Oblast Pedagogic Inst. im N. K. Krupskaya.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137120002-4

NIKOLAEV, V.M.

Underground waters in Karagashka sediments of the Terek-Sunsha
petroleum province. Trudy Gruz. III no. 8; 164-191 '60.

(MIRA 13:8)
(Terek-Sunsha Upland--Water, Underground)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137120002-4"

NIKOLAEV, V. N.

Underground waters in Apscheron sediments of the trans-Terek Plain.
Truly Gross. Bill no. 8; 192-199 '60. (MIRA 13:8)
(Terek Valley-Water, Underground)

NIKOLAEV, V. N.

Underground waters in the Ozok-Sunat oil region in the trans-Terek
Plain. Trudy Gruz. NII no.8;146-163 '60. (NIRA 1)S
(Terek Valley--Water, Underground)

NIKOLAYEV, V.M.

Underground waters in Maikop sediments of the Terek-Sunsha
petroliferous province. Trudy lab. gidrogeol. probl. 30:84-
98 '60. (MIRA 14:4)
(Groznyy Province—Water, Underground)

TSAREVSKIY, A.N.; NIKOLAEV, V.M., inzh.

Hydraulic-fill construction of dams of a narrow cross section.
Gidr. i mel. 13 no.11:28-35 N '61. (MIRA 14:10)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for TSarevskiy).
(Dams)

MELAMUT, D.L., kand.tekhn.nauk; NIKOLAEV, V.M., inzh.

Method for calculating the stability of slopes for narrow-profile
hydraulic-fill dams. Gidr. i mol. 14 no.12:43-50 D '62.
(MIRA 16:5)
(Dams)

ACC NR: AP6033-93

SOURCE CODE: UR/0413/66/000/016/0115/0115

INVENTOR: Chashchin-Semenov, K. V.; Grigor'yev, V. G.; Nikolayev, V. M.; Shifrin, E. G.

ORG: none

TITLE: Axisymmetric, shaped nozzle for wind tunnels. Class 42,
No. 186167

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 115

TOPIC TAGS: axisymmetric nozzle, wind tunnel, hypersonic wind tunnel,
boundary layer suction

ABSTRACT: The proposed axisymmetric, shaped nozzle for wind tunnels with low density flow, such as hypersonic, is made of separate rings with adjustable slots between them for boundary layer suction. In order to simplify the design and to reduce it, the size of the nozzle is made with two female chambers. The chambers are insulated one from another by a movable partition and are connected by channels with the cavity of the working chamber. In addition to this, an ejector is mounted in the channel of the end chamber to increase the boundary layer suction.

SUB CODE: 21//SUBM DATE: 22Aug64
Card 1/1 UDC: 620.178

SOV/58-59-8-18513

Translated from: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 211 (USSR)

AUTHOR: Nikolayev, V.M.

TITLE: On the Velocity Modulation of Relativistic Electrons in the High-Frequency Cavity of a Resonator During Large Signals

PERIODICAL: Izv. Leningr. elektrotekhn. i.-ta, 1958, Vol 36, pp 57-67

ABSTRACT: The article analyzes the limits of applicability of the theory of the velocity modulation of relativistic electrons, developed in the works of Chodorov, Ginstrom et al. (ZhF, 1954, Nr 9, 10552) and Zusmanovskiy and Khaplanova (RZhF, 1957, N 8, 20617). It is noted that the formulae therein obtained for the total velocity v of electrons, the increase in velocity $v \sim$ and the inverse velocity $1/v$ at the output of the high-frequency cavity, hold rigorously only in case of a low modulation coefficient

$$\alpha = \frac{U_1}{U_0} \ll 1,$$

where U_1 is the amplitude of the voltage in the cavity and U_0 is the constant accelerating voltage. An estimate is made of the errors arising

Card 1/2

REVIEWS

Biological membranes I. Enzymatic (functions of matter)
B. L. H. Hargreaves, Eds., no. 320, 1967, 123 p.

Dr. E. V. Astanov, Professor, State. M. T. P. Polozova.

The collection contained in this exhibition was drawn from the editorial files of the *Journal of Pharmacy and Pharmaceutical Chemistry* and was exhibited in chronological order. It presents on the part of the exhibitors their best pharmaceutical efforts. The exhibition brought together solutions of organic substances, plant extracts, and the chemistry of complex compounds. It represents individual contributions.

Mr. B., and Mr. A. J. Almquist [Sarcophagidae palliditarsis] and Mr. H. C. Ladd [Diptera Polyethelidae].
Studies of Change in the Structure of Polypolyxene at
Four-Field Station.

72
of governmentality

Philippines. R. L. T. *The Philippines and Its Future.* *Review* of *Shorter History of the Philippines.* *1-200-74*

16. **Ento** numero de anexo: [corrigir] numero de anexo: [corrigir] numero de anexo: [corrigir] numero de anexo: [corrigir]

For the benefit of our friends in Boston, Cambridge, and New Haven, we have arranged to have the 5th Annual Meeting of the Connecticut Electric Radio Club at the aid of the Free Electrons Radio Club, in the hall of the Hotel Metropole, Boston, Saturday, October 25, 1913.

and R. J. Adams for their suggestions.

THE INFLUENCE OF CULTURE ON THE PRACTICE OF MEDICAL GENETICS

J. R. JONES
10-20-62

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APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137120002-4"

NETCRAFT, 1/77.

PHASE I BOOK EXPLOITATION SOV/5644

Vserossiyskaya konferentsiya professorov i preryazvatelей pedagogicheskikh
institutov

Primenenie ul'trakustiki k issledovaniyu veshchestva. vyp. 10. (Utilization
of Ultrasonics for the Investigation of Materials. no. 10) Moscow, Izd-vo
MOPI, 1960. 321 p. 1000 copies printed.

Eds.: V. F. Nozdrev, Professor, and B. B. Kudryavtsev, Professor.

PURPOSE: This book is intended for physicists and engineers interested in
ultrasonic engineering.

COVERAGE: The collection of articles reviews present-day research in the
application of ultrasound in medicine, chemistry, physics, metallurgy, ce-
ramics, petroleum and mining engineering, defectoscopy, and other fields.
No personalities are mentioned. References accompany individual articles.

Card 140

26.2541

24095

S/186/60/002/006/020/026

A051/A129

AUTHORS: Bagretsov, V. F.; Nikolayev, V. M.; Zolotavin, V. L.;
Kostina, N.P.; Skrova, L. V.

TITLE: The sorption of microquantities of strontium and cesium on
biotite

PERIODICAL: Radiokhimiya, v. 2, no. 6, 1960 734 - 738

TEXT: In a study of the sorption processes of strontium-90 and cesium-134 microquantities on biotite in the presence of macroquantities of alkali-earth metal and magnesium ions, the exchange equivalent and the applicability of the law of acting masses to the investigated system was established. The authors point out that the quantitative laws of ion exchange are expressed through the exchange isotherm. In deriving an equation for the ion exchange isotherm the activity coefficient of the microcomponent ion must be taken into consideration. The distribution coefficient concept (Ref. 12: S. Yu. Yelovich, ZhOKh, 3, 144, 660, 1933) is used. In case of sorption exchange of the microquantities of the element on the sorbent saturated by the macrocomponent, the ratio of the activity coefficients in the solid phase is a constant value, since the composition Card 1/4

X

21093

S/181/60/002/006/020/026
A051/A129

The sorption of microquantities of

of the solid solution changes very little, although the ionic strength of the solution can change here. Thus, the exchange constants are calculated for the investigated systems by determining B_0 from experimental data. Biotite of the following composition was used in the experiments: SiO_2 -35.74, Al_2O_3 -13.92,

Fe_2O_3 -5.83, FeO -19.67, MnO -1.48, TiO_2 -3.89, BaO -0.18, CaO -0.74, MgO -5.93.

$\text{K}_2\text{O} + \text{Rb}_2\text{O} + \text{Cs}_2\text{O} = 4.03$, $\text{Na}_2\text{O} = 3.38$. The activity coefficient of the ions were taken from literature data (Ref. 13: M. Kh. Karapet'yants, Khimicheskaya termodynamika. (Chemical thermodynamics). Goskhimizdat, M.-L., 1953). The given isotherms of distribution show that the experimental results coincide favorably with the calculations, i. e., the interaction of cesium¹³⁴ and strontium⁹⁰ with biotite follows the law of acting masses. The value of G was found to be $1.013 \cdot 10^{-5}$ mole Me^{2+} to 1 gram of sorbent. An anomalous bond strength was noted between the cesium ions and the sorbent. Finally, the following series of cation replacement on the biotite was derived from the calculated values of the exchange constants: $\text{Cs}^+ > \text{Ba}^{2+} > \text{Sr}^{2+} > \text{Ca}^{2+} > \text{Mg}^{2+}$. There are 2 tables, 2 figures and 16 references: 8 Soviet-bloc and 8 non-Soviet-bloc. The references to the four most recent English language publications read as follows: A. P. Vanselow, J. Am.

Card 2/3

YEGOROV, Yu.V.; NIKOLAEV, V.N.; KRYLOV, Ye.I.; TAKHONO, Ye.V.

Possibility of using a mixture of isotopes of Sr⁸⁹ and
Sr⁹⁰ Y⁹⁰ in direct radiometry. Radiotekhnika 4 no.4:516-518
'62. (MIRA 15:11)

(Strontium—Isotopes)
(Yttrium—Isotopes) (Radiometry)

S/186/63/005/001/002/013
E075/E436

AUTHORS: Nikolayev, V.M., Bagretsov, V.F., Lebedev, V.M.
TITLE: Sorption of microquantities of strontium and cesium by vermiculite

PERIODICAL Radiokhimiya, v.5, no.1, 1963, 32-37

TEXT: The sorption of Sr⁹⁰ and Cs¹³⁴ by vermiculite from alkali and alkali-earth metal chloride solutions was studied. The sorption by cation exchanger KY-2 (KU-2) was investigated for comparison. The sorption on vermiculite did not depend on the pH of the solutions in the range of 3 to 11. The results of the experiments are satisfactorily expressed by S.Yu.Yelovich and L.G.Kuz'mina's equation (Kolloidn. zhurn., v.18, no.3, 1956, 268) made more accurate by the authors (Radiokhimiya, v.2, no.6, 1960, 734). The results for the sorption in the presence of ions belonging to group I and II confirm its ion-exchange character, the sorption being governed by the law of mass action. Ce was sorbed by vermiculite exceptionally strongly, which is explained by the high polarizability of Ce ion and the volume of hydrated Ce ion being similar to that of hexagonal voids in the vermiculite

Card 1/2

Sorption of microquantities ...

S/186/63/005/001/002/013

E075/E436

lattice. There are 5 figures and 5 tables.

SUBMITTED: December 6, 1961

Card 2/2

NIKOLAEV, V.M.; KRYLOV, Ye.I.; BAGRETSOV, V.F.; TEGOROV, Yu.V.

Behavior of radiocolloids of cerium in sorption systems.
Radiokhimiia 5 no.5:622-626 '63. (MIR 17:3)

NOVOKLJATOV, V.M.

Probability of performance of resonator bunchers. Elektrofiz.
app. no.2-31-42 '62. 7.81 18.3.

YEGOROV, Yu.V.; NIKOLAEV, V.M.

Radioisotopes in sorption systems. Part 2: Collective sorption isotherm
in a system with variable mass of sorbent. Radikal'chimia 7 no.3:273-280
'65. (MIRA 18:7)

BAGRETSOV, V.P.; PUSHKAREV, V.V.; BEKETOV, A.R.; NIKOLAYEV, V.M.

Effect of roasting on the ion-exchange capacity of vermiculite.
Zhur. prikl. khim. 34 no.11:2558-2560 N '61. (MIRA 15:1)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
(Vermiculite) (Ion exchange)

NIKOLAEV, V.N.; BAGRETSOV, V.F.; BEKETOV, A.R.

Kinetics of ion exchange on vermiculite. Zhar.prikl. Khim. 35 no.11:
2414-2420 N 1962.
(NDA 15:12)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
(Ion exchange) (Vermiculite)

NIKOLAYEV, V.N.; BAGRETSOV, V.F.; KALMYKOV, Yu.A.

Effect of various methods of treatment on the ion-exchange properties
of vermiculite. Report No.1: Breakdown of vermiculite by acid solutions.
Trudy Ural.politekh.inst.no.121:30-34 '62.

(Vermiculite)

(Ion exchange)

(MIRA 16:5)

BAGRETSOV, V.P.; NIKOLAEV, V.M.; KALMYKOV, Yu.A.; PUSHKAREV, V.V.

Effect of various methods of treatment on the ion-exchange properties
of vermiculite. Report No.2: Reaction of vermiculite with solutions
of alkalies and neutral salts. Trudy Ural.politekh.inst.no.121:35-38
'62.

(Vermiculite)

(Alkalies)

(MIRA 16:5)
(Salt)

NIKOLAEV, V.M.; BAGRETSOV, V.P.; KALMYKOV, Yu.A.

Effect of multiple treatments with an acid on the cation exchange capacity of vermiculite. Zhur.prikl.khim. 36 no.3:692-693 My '63.
(MIRA 16:5)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
(Vermiculite) (Ion exchange)

NIKOLAEV, V.M.; BAGRETSON, V.P.; LEBEDEV, V.M.

Reaction of the substitution of magnesium and aluminum ions
for hydrogen ions in vermiculite. Pochvovedenie no.8:68-72
(MIRA 16:9)
Ag '63.

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

NIKOLAEV, V.M., BAGETSOV, V.P.; KMICH, Ye.I.; KOT, V.V.

Description of microquantities of cesium 134 by vermiculite under
dynamic conditions. Zhur.prikl.khim. 37 no.7:1435-1442 J1 '64.
(MIRA 18:4)

RECEIVED
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE

SEARCHED
INDEXED

SERIALIZED
FILED

APR 19 1968

ABSTRACT: The present work is an attempt to substantiate the recently published information on the ion exchange properties of cornstarch, L. L. Jacob. (Ind. Engng., 12, N. 2, 295 1964). The authors report the synthesis of cornstarch, and information concerning its ion exchange properties with respect to cations, and an attempt to explain the mechanism of ion exchange.

RECEIVED
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE
APR 19 1968

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001137120002-4

ALL INFORMATION CONTAINED
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DATE 10-10-09 BY SPK

REF ID: A67865

ALL INFORMATION CONTAINED
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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001137120002-4"

80771

S/137/60/000/02/06/010

19.7.200

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No 2, p 169 # 3246

AUTHORS: Dmitriev, P.T., Nikoleev, V.M.

TITLE: Welding of Thin-Walled Small-Diameter 1Kh18NyT (1Kh18NyT) Steel
Pipes

PERIODICAL: Tr. Vses. R.-A. i konstrukt. in-t khim. mashinostr., 1958, No 26,
pp 21 - 33

TEXT: Information is given on the AT N-8-26) (AGM-8-26) automatic machine for welding in a fixed position thin-walled 1Kh18NyT pipes with non-fusing electrode in Ar atmosphere. Specially cut rings are used as welding material; they are manufactured either of 1Kh18NyT or 1Kh18NyTi steel depending on the operational conditions of the installation. BT-15 (VT-15) type W-rods are used as welding electrodes; their diameter is 2 - 3 mm; Ar of I or II composition is used as shielding gas. Information is given on the technology of welding pipes of 1 - 1.5 mm wall thickness. It was established that the weld joints possessed high strength, vacuum density and were not prone to crystallite corrosion. A special AT TP-1 (AGTR-1) welding head was designed

Card 1/2

DMITRIYEV, P.T., inzh.; NIR-AYEV, V.M., inzh.; ROZANOV, G.A., kand.-
tekhn.nauk

AGL-8-26M automatic pipe-welding machine with a hoseless gas
feed. Sbor.st. NIIKHIMMASH no.33:85-98 '60. (MIRA 15:5)
(Welding--Equipment and supplies)

S/184/61/000/001/010/014
A104/A029

AUTHORS: Dmitriyev, P.T., Nikolayev, V.M., Engineers, Rozanov, G.A.,
Candidate of Technical Sciences

TITLE: Automatic Pipe Welding Apparatus АИИ-8-28М (АГН-8-28М) With
Hoseless Gas Supply

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1961, No. 1, pp. 43-45

TEXT: The new pipe welding apparatus was designed by N.F. Shalagin and I.P. Kus'min of the NIKhIMMASH. The apparatus is equipped with a control panel for non-turning argon arc welding of pipes 8-26 mm in diameter made of 1X18H9T (1Kh18N9T) steel. Welding is performed with 1.5 - 2.0 mm tungsten electrodes. The apparatus is mobile and suitable for currents of up to 100 amp. Its dimensions are: 130 x 102 x 210 mm and the weight is 5.5 kg. The apparatus consists of a welding head (Fig. 2) which is suspended on one of the pipes which are preliminarily centered by a special device (Fig. 3). In order to insure accurate position of the electrode the head can be moved 6 mm in either direction. Argon is supplied by a special mechanism designed by V.M. Nikoayev (Patent No. 111460).

Card 1/5

S/184/61/000/001/010/014
A104/A029

Automatic Pipe Welding Apparatus AΓΗ-8-28M (AGN-8-28M) With Hoseless Gas Supply

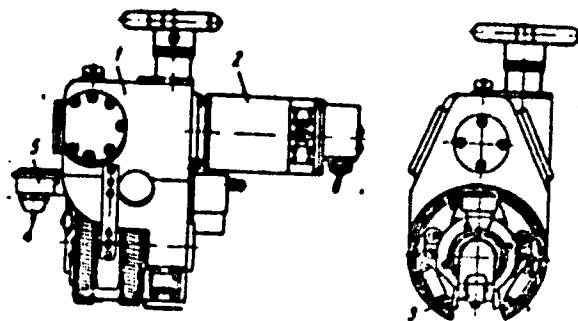


Fig. 2: AΓΗ-8-28M (AGN-8-28M)
welding head.

1. cone
2. MY-50 (MU-50) electrometer
3. fixture
4. electrode
5. torch

Card 3/5

S/184/61/000/001/010/014
A104/A029

Automatic Pipe Welding Apparatus АГН-8-28М (AGN-8-28M) With Hoseless Gas Supply

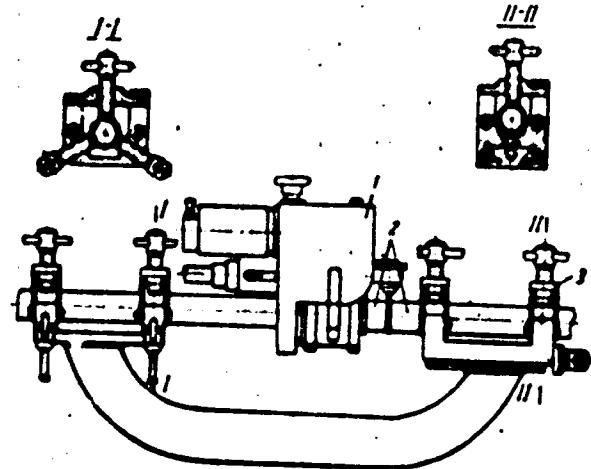


Fig. 3: Fixture for tubes with the welding head.
1. welding head
2. tube
3. fixing bolts

Card 4/5

KHABLOV, V.S., inzh., nauchn. sotr.; NIKOLAEV, V.M., kand. tekhn. nauk, nauchn. sotr.; DOBOSHITS, M.L., inzh., red.

[Practices in erecting small earthen structures by the method of hydromechanization] Opyt vozvedenija zemlyanykh sooruzhenii nebol'shogo ob'ema metodom gidromekhanizatsii. Moskva, Gosstroizdat, 1962. 37 p. (I.R.A. 17:4)

1. Akademija stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoi pomoshchi stroitel'stva. 2. Laboratoriya tekhnizatsii zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva Akademii stroitel'stva i arkhitektury SSSR (for Khablov).
3. Laboratoriya gidromekhanizatsii Vsesoyuznogo nauchno-issledovatel'skogo instituta transportnogo stroitel'stva (for Nikolayev).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001137120002-4

ART. JOUR. : Fizika, No. 120, No. 10, 1962.
AUTHOR : Khablov, N.T.; Nikolaev, V.M.
TITLE : Opyt vozvedenija zemlyanykh sooruzhenii
 nebol'shogo ob'ema metodom gidromekhanizatsii.
TYPE : Scientific article.

ORIG. PUB. : Izv. Ak. Turkm SSR, 1962, No.3, 40-56

ABSTRACT : The article describes the methods used in the construction of small earth structures by the method of hydromechanization. It includes a description of the equipment used, the types of structures, and the types of soil used.

NIKOLAEV, V. N.

Establishing a material base for technical education. Politetchnicheskaya obuch.
no. 2:25-27 F '59. (MIM 12:3)

1. Izhorskaya srednaya shkola No.1 Chuvashskoy ASSR.
(Izresi--Technical education)
(Workshops--Equipment and supplies)

NIKOLAEV, Vladimir Nikolayevich; MIKHAYLOVA, V., red.; BUCROVA,A.,
tekhn. red.

[The atom, men, ice] Atom, liudi, l'dy. Moskva, Molodaiia
gvardiia, 1963. 271 p. (MIRA 17:1)

14-57-6-12550D
Translation from: Referativnyy zhurnal, Geografiya, 1957, "r 6,
f 115 (USSR)

AUTHOR: Nikolayev, V. N.

TITLE: Vegetation of Grazing Lands in the Western Zaunguz Plateau
(Rastitel'nost' i pastbishcha Zapadnogo Zaunguz'ya)

ABSTRACT: Bibliographic entry on the author's dissertation for
the degree of Candidate of Biological Sciences,
presented to AN TurkSSR (AS of the Turkmen SSR),
Ashkhabad, 1956

ASSOCIATION: AN TurkSSR (AS of the Turkmen SSR)
Card 1/1

NIKOLAEV, V. N.

Ecology of black saksaul in the northwestern section of the Zaungus-
skoye Plateau. Inv. All Turk. SSR no. 2:33-36 '56. (KZKA 9:8)

1. Institut shchetinovedstva All Turkmeneskey SSR.
(Zaungusskoye Plateau--Saksaul)

NIKOLAEV, V.M.

Effect of growth regulators on the survival rate of cuttings
of some desert shrubs. Iss. AN Turk. SSR no.2:26-31 '59.
(MIRA 12:6)

1. Turkmen'skiy nauchno-issledovatel'skiy institut zhivotnovodstva
i veterinarii.
(Desert flora) (Growth promoting substances)

ACC NR: A/7005437

SOURCE CODE: UR/0382/66/000/002/0143/0147

MIKEL'SON, A. E., NIKOLAYEV, V. N.

ORG: none

"Investigation of the Magnetic Field and Forces in an Electro-magnetic Crystallizer"

Riga, Magnitnaya Gidrodinamika. (Magnetohydrodynamics), No. 2, 1966. pp 143-147

TOPIC TAGS: magnetic field, tin, magnetic induction

Abstract: Molten tin in a stainless steel container was subjected to a magnetic field to determine the distribution of the tangential inductance component of the field. The field was produced by a ring-shaped inductor around the container. Inductance was measured with a five-turn coil; pressure, by a two-liquid pressure gauge with stearic acid.

The relative inductions were measured as functions of radial distance and plotted as a family of curves for various frequencies of the induced field. Curves are also plotted for the relative inductance as a function of vertical distance from the center of the molten metal. From these results the pressure distribution is determined inside the molten tin, as well as at the surface of the metal.

Card 1/2

UDC: 538.4

0906 8310

NIKOLAYEV, V.N., kapitan lyutnogo; YEFIMOV, Yu. A., kapitan lyutnogo

Some information on the basic training received by the naval forces of the U.S.A. and NATO in 1984. May, 1985. 47 pp. 71
80-86 J1 '65.

L 14441-66

ACC NR: AP6002977

(A)

SOURCE CODE: UR/0286/65/000/024/0169/0169

INVENTOR: Kovalev, N. G.; Mikel'son, A. E.; Nikolayev, V. N.; Saulite, U. A.

ORG: none

TITLE: An electromagnetic conveyor. Class 81, No. 177344

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 24, 1965, 169

TOPIC TAGS: conveyor transportation system, electromagnetic propulsion, magnetic field, magnetic circuit

ABSTRACT: This Author's Certificate introduces an electromagnetic conveyor which includes a conduit surrounded by induction coils. Cartridges inside the conduit are moved by a traveling magnetic field set up by the induction coils. A magnetic circuit in the form of a ferromagnetic insert is mounted inside each cartridge to increase the traction force acting on it.

UDC: 621.867.038

Card 1/2

S/010/67 08/24/005137120002-4
A053/A026

AUTHORS: Aybulatov, N.A.; Nikolayev, V.P.

TITLE: Jubilee Conference of the Black Sea Experimental Scientific Research Station of the Institute of Oceanology of the AS USSR

PERIODICAL: Izvestiya Akademii nauk SSSR, seriya geograficheskaya, 1960, No. 4, pp. 139 - 142

TEXT: The year 1959 marks the 10th anniversary of ChENIS (Black Sea Experimental Scientific Research Station of the Institute of Oceanology). During this period a number of achievements contributed to the success of the Black Sea Station. In the Laboratoriya morskoy elektroniki (Laboratory of Naval Electronics) the first underwater TV sets were produced, with which the scientific research submarine "Severyanka" is equipped. The same laboratory designed a device for checking the filling up of the trawl net with fish. ChENIS has also developed an electromagnetic method of measuring currents while the ship is moving. Important works are being conducted on the problem of dynamics and morphology of sea coasts, on the subject of alluvium and of the processes of shifting-sand deposits. Highly valued are the investigations of the laboratory on the relief of

Card 1/4

S/010/60/000/004/005/006/XX
A053/A026

Jubilee Conference of the Black Sea Experimental Scientific Research Station of the Institute of Oceanology of the AS USSR

the sea bottom and the seismoacoustics, covering a number of problems pertaining to the geology of the Black Sea and the Mediterranean bottoms. The jubilee conference was opened by K.V. Neglyad, Director of the Station, which comprises at present 9 laboratories with a staff of 125 men. Three expeditionary ships are at their disposal. The following papers were presented: N.A. Aybulatov, on the results of 5 years of work by the station concerning the shift of alluvia (sand deposits) under natural conditions. Under the supervision of V.P. Zenkovich, a method of direct observation of the dynamics of alluvia had been elaborated by means of luminophores, enabling the author to measure the absolute speed of sand movements at different swells. Ye.N. Yegorov, on the dynamics of subaqueous sand banks and on the morphology of the Black and the Azov Seas, tracing back the origin of sand banks to 2 basic causes, viz. waves and undercurrents. B.A. Sulyak spoke on waves on the surface of quick sands, describing the relationship which exists between ripples on the bottom of the sea (ground deformations) and wave currents. Thus it is possible to analyze petrified ripples and determine the kind of waves which have created them. Great interest presented a proposed

Card 2/4

3/010/60/000/004/005/006/XI
A053/A026

Jubilee Conference of the Black Sea Experimental Scientific Research Station of
the Institute of Oceanology of the AS USSR

method of preventing hydrotechnical installation, viz. ports, channels, etc., from becoming obstructed by sand, which method consists in placing concrete blocks temporarily in the zones of obstruction. V.P. Goncharov dealt with problems concerning geomorphology and geology of the Black Sea, giving information on the results of the bathometric and geomorphological works carried out systematically with an echo sounding device M2N-5, MC-26 (MNL-5, MS-26) of the Kelvin and Hughes system. A bathometric map of the Black Sea was plotted giving hitherto unknown details about the relief of the bottom, and registering the deepest point of the sea as being 2,212 m. Yu.P. Nefrochnov reported on "The geological structure and acoustic properties of the bottom of the Black Sea." M.S. Kormyshev spoke on "The dynamics of local vortex formations on the Caucasian coast of the Black Sea." The report of A.A. Vinogradov was devoted to the methods of carrying out oceanographic investigations, developed by the station, especially in view of some new electric instruments. V.A. Yegorova reported on "The influence of state and direction of winds on the salt contents of atmospheric deposits." Investigations, supervised by S.V. Bruyevich, aimed at analyzing the specific characteristics of chemical composition of atmospheric deposits during sea and continental winds.

Card 3/4

DAVIDENKOVA, Ye. F.; KELER, N. N.; SAVEL'YEVA-VASIL'YEVA, Ye. A.;
NIKOLAYEV, V. P.

Clinical characteristics of serous meningitis caused by intestinal
viruses. Pediatriia no.6:3-8 '62. (MIRA 15:6)

1. Is infedry nervnykh bolezney (sav. - prof. Ye. P. Davidenкова)
i virusologicheskoy laboratorii (sav. V. P. Nikolayev) Lenin-
gradskogo pediatricheskogo meditsinskogo instituta (dir. Ye. P.
Semenova).

(MENINGITIS) (VIRUS DISEASES)

17014-45 - EWT(2) G4
ACCESSION NR: A74045962

8/29/96/64/000/034/0213/0230

AUTHOR: Vedutin, V. P. (Mining engineer); Kropotov, V. A. (Mining engineer); Beketov,
F. Ya. (Mining engineer); Nikoleyev, V. P. (Mining engineer)

TITLE: Some results of an investigation into the effect of the explosion of
shot-hole cumulative charges

SOURCE: Nauchno-tehnicheskoye gornoye obshchestvo. Vaychnaya delo, no. 34/11,
1964. Upravleniye deystviyem vzyryava (Control of blasting operations), 219-230

TOPIC TAGS: blasting, mine blasting, cumulative charge, shot hole, blast hole,
horizontal excavation

ABSTRACT: The authors discuss some results obtained in a detailed study of the
effectiveness of shothole charges of cumulative effect in horizontal excavation
work. The study was based on the use of a charge with lateral cumulative surface,
the characteristic feature of such a charge being the location of the cumulative
cut or gap not at the end of the charge, but along its side and running the full
length of the charge. This makes it possible to obtain a greater active volume
of explosive material and to employ it more rationally. In such charges, the
cumulative stream forms along the entire length of the charge, while the direction
of the effect of the stream promotes a more efficient formation of an additional
cut surface. The study was conducted under laboratory and field conditions. In
addition,

L 12016-65
ACCESSION NR: AT4043962

the laboratory tests, a determination was made of the most suitable form and parameters of the charge. The diameter of the charge was 40 mm to be used in shot holes 46 mm in diameter. The cross sectional area of the cumulative cut was varied every 0.8 cm² in an interval from 0.8 to 5.6 cm². The charge length was 420 mm, the explosive used being detonite 6A. In the field tests, the work was conducted in excavations with a cross-sectional area of 4 m², with rock and ore strength readings of 14-18 on the scale devised by Prof. Protod'yakonov. In attempting to determine the optimal form for the cumulative cut-out, six forms were studied with a total of approximately 150 individual blasts on sheet metal. The maximum destructive effect was observed in the case of a cumulative surface of spherical form. Maximum efficiency was determined by the authors not only on the basis of the "volume of destruction" (total destructive effect), but also by using as a criterion the specific consumption of explosive material for the destruction of 1 square centimeter of metal sheet. Tables and graphs are given illustrating the dependence of the specific explosive consumption on the cross-sectional area of the cumulative gap in order to establish the form and dimensions of the cumulative cavity which will ensure optimal results. The field tests were carried out at the "Taz" and "Odre Bash" mines of the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine), using the cumulative charge which had displayed the best results in the destruction of sheet metal. The tests were conducted in 4 m²-excava-

L 12010-65

ACCESSION NR: AT4045962

tions, with the charges in the shot holes located in such a way that the cumulative effect of their blast coincided with the direction of their line of least resistance (LLR). A total of 132 explosions of single charges was set off for different dimensions of the open surfaces, and the optimal LLR was determined for each of those. The authors found that, in all cases, the break-through distances (radius of effective destruction) were greater for cumulative charges than for conventional, with the destruction between charge holes being more intense than with conventional charges. On the basis of the optimal LLR values, three different arrangements for the shot holes were tested: with a prismatic cut, with a central circular cut and with a circular cut and combined charges. The practical effects of these different patterns and of the possible variations within each are considered in detail, particularly from the point of view of pressing and other efficiency-related factors. Orig. art. has: 4 tables and 7 figures.

ASSOCIATION: VestNIGRI

SUBMITTED: 00

ENCL: 00

SUB CODE: WA

SO REF SOV: 000

OTHER: ,000

Card 3/3

NOVIKOV, A.K.; MASHUKOV, V.I.; CHERNOV, S.F.; NIKOLATEV, V.P.;
VOLODARSKAYA, Sh.O.

Relation of the line of least resistance to the borehole
diameter in mining operations. Varyv. delo no.55/12;
~~239-244~~ '64. (MIRA 17:10)

REF ID: A6524975 EFT(g)/EWA(a)/EMF(t)/EMP(k)/EPF(z)/EMI(s)/EMK(h)/EPA(c) SOURCE CODE: UR/0286/63/000/016/0039/00
ACC NR: AP5024975

INVENTOR: Sokolov, S. A.; Donda, L. I.; Nikoleyev, V. P.; Rakhman, L. T.

ORG: none

TITLE: Method of manufacturing thin-wall, spring-steel shapes.
Class 18, No. 173789

SOURCE: Byulleten' izobretens' i tovarnykh znakov, no. 16, 1965, 39

TOPIC TAGS: spring, steel spring, thin wall spring, shaped spring

ABSTRACT: This Author Certificate introduces a method of manufacturing thin-wall, spring-steel shapes. In order to obtain precise form and prescribed mechanical properties, the spring strip is heated above the AC₃ point, cooled to 300—320°C, drawn through forming dies at this temperature, wrapped with a narrow steel band, air cooled, cut in pieces, tempered, put on the mandrel, wrapped in glass cloth, and retempered.

(WW)

SUB CODE: MM/ SUBM DATE: 26Jul62/ ORIG REF: 000/ OTH REF: 000/

ATD PRESS: 4/32

Card 1/1 *kcl*

UDC: 621.785.79—272.272

09010130

MILTON, A.A.; NIKOLAEV, V.P.

Underwater talking device. Truly Inst. class. 76:
02-04 '63. (NTIA 16:12)

FILE # 474-110

AUTHOR ZHEVANDROW N.D., MIKOLAYEV V.P. 20-5-22/67
TITLE On the Problem of the Determination of the Volumes of the Molecules
in Solutions With the Aid of the Method of the Polarised Luminescence.
(K voprusu ob opredelenii ob'yemov molekul v rastverakh metodom polari-
ziruvannoy luminesentsii.- Russian)
PERIODICAL Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 5, pp 1025-1028 (USSR).
ABSTRACT The measurements of the polarization of the fluorescence of one and
the same fluorescent substance in different solvents permits us to
draw conclusions with regard to the existence and the character of
the solvate covers. A solvate cover is the monomolecular layer of
the solvent which surrounds the molecule of the solved substance
and which has a more or less strong connection with it. The paper
under review measures the polarization of the fluorescence with the
aid of a KAVRAYSKIY-polaroscope with compensating staple in the
temperature interval between 20 and 60 degrees centigrade. In this
interval the linearity of $1/p(T_n)$ was well confirmed. Here p stands
for the degree of polarization, T for the temperature and - for the
viscosity. In this temperature interval it was possible to use as
solvents (which must have a sufficiently high viscosity) only
glycerine, castor oil and vaseline oil. The concentration of the
solutions amounted to 10^{-4} to 10^{-5} g/cm³. Three groups of fluorescent
organic substances were investigated: Phtalimides, acridine
CARD 1/3

L 40002-66 EST(1) GW

ACC NR. AT6017051

(N)

SOURCE CODE: UR/2566/65/074/000/0055/0061

31
B+1

AUTHOR: Nikolayev, V. P.

ORG: none

TITLE: Angular radiance measuring device (M)

SOURCE: AM SSSR. Institut okeanologii, Trudy, v. 74, 1965. Elektronnye pribory dlya okeanologicheskikh issledovanii (Electronic instruments for oceanological research).
55-61

TOPIC TAGS: oceanographic instrument, photometer, angle measurement instrument, ocean dynamics

ABSTRACT: An underwater photoelectric differential photometer with a self-contained power supply is described. It consists of two photometers, vertical and horizontal graduated dials, rectifier, generator, power supply (accumulator) and scaled indicator. A block diagram of the system and a photograph of the instrument are given and the function of each component in the measurement operation is explained. The entire instrument is hermetically sealed in a cylindrical container. The source potential of the system can vary from 800 v to 1700 v. When the accumulator is charged with 1200v to 1300v, the instrument draws a current of 200 ma and operates for 75 hours without recharging. The device is able to measure angular distribution of underwater lighting

Card 1/2

L 2566/65 EWT(6)/FSS-2/EAT(1)
ACC NR: ATG017054

(N)

SOURCE CODE: UR/2566/65/074/000/0082/0084

AUTHOR: Zhil'tsov, A. A.; Nikolayev, V. P.

ORG: none*

TITLE: Underwater voice communication system/

SOURCE: Akademiya Nauk SSSR. Institut ekologii. Trudy, v. 74, 1965. Elektronnye pribory dlya ekologicheskikh issledovaniy (Electronic instruments for ecological research), 02-84

17

TOPIC TAGS: underwater communication, wire communication

ABSTRACT: A wire communication system for voice underwater-surface, surface-underwater communication with divers is described. The system consists of two loudspeakers and a low power, low frequency transistorized amplifier. The diver receives communications from the surface through the loudspeaker and uses the loudspeaker as a microphone for communicating with the surface. The diver can receive and send voice messages when he is within 10 m of the loudspeaker. The comprehensibility of the diver's messages to the surface is diminished by the fact that he must talk through his breathing mouth-piece. The submerged loudspeaker is protected against water pressure by an enclosure filled with castor oil, which reduces the sensitivity of the speaker. The speaker is connected by cable to the amplifier which is located on the surface. The authors sug-

Card 1/2

Card 2/2 vnb

P-0700047 ETC(1) 54
ACC NR: A16032078

SOURCE CODE: UR/0562/66/002/009/1000/1DC

AUTHOR: Nikolayev, V. P.

1/1

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

3

TITLE: Concerning one method of determining the spatial frequency-contrast characteristic of a water layer

SOURCE: AN SSSR. Investiya. Fizika atmosfery i okeana, v. 2, no. 9, 1966, 1000-1004

TOPIC TAGS: oceanographic research facility, optic measurement, optic resolution, image contrast, sea water, light scattering

ABSTRACT: The author describes the application of apparatus proposed by F. Perrin (Uspekhi fiz. nauk v. 78, no. 2, 1962) for the experimental determination of the spatial frequency-contrast characteristic of a real layer of water. The measurements were made at sea on a pontoon at the Black-Sea Station of the Institute of Oceanology AN SSSR. An immersed illuminator with several daylight bulbs was used as the test object, constructed in a way as to simulate the edge of a semi-infinite slit. The photographed image of the test object was analyzed with the aid of an optical scanning system (Fig. 1) that measured the distribution of the illumination in the image of the test object. A photomultiplier was used as the output device. Plots of the distribution of the illumination in the image are presented. The tests were made at different depths. The results show that the scattering function spreads out very rapidly with increasing distance, so that the frequency-contrast characteristics drop

Card 1/2

UDC: 551.463.5: 535.341

CHECHOV, A.G.; NIKOLAEV, V.K., red.

[Prevention of heart and vascular diseases] Profilaktika
boleznei serdtsa i sosudov. Moskva, Izd-vo "Znanie" 1965.
28 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriya: Bio-
logija i meditsina, no.16) (I.i.A 18:2)

NEGATIVE, VOLUME 10100, PAGE 100, NUMBER 100.

Solar radiation sensor. Study Inst. clear. Difficulties
in the design.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137120002-4

NIKOLAYEV, V.R.

Health rooms. Zdorov's 7 no. 8:23 Ag '61.
(CLINICS)

(MIFB 14:9)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001137120002-4"

KOCHERGIN, Ivan Georgiyevich; NIKOLAYEV, V.R., red.

[Present-day problems of medicine] Sovremennoye problemy
meditsiny. Moskva, Znanie, 1964. 30 p. (Novoe v shisni,
nauke, tekhnike. VIII Seriya: Biologiya i meditsina, no.23)
(MIRA 17:11)
1. Chlen-korrespondent AMN SSSR (for Kochergin).

AVAKIAN, Arshaluye Arenovich, prof.; LARIN, Nikolay Vasil'yevich,
zhurnalist; NIKOLAYEV, V.R., red.

[In the depths of the microcosm] V glubiny mikromira. Mo-
skva, Znanie, 1964. 31 p. (Novoe v shisni, nauke, tekhnike. VIII Seriya: Biologija i meditsina, no.24)
(MIRA 17:11)

PONOMAREV, Foma Grigor'yevich, doktor med. nauk; NIKOLAEV, V.I.,
red.; SOKOLOV, Ya.I., red.

[Aeroions and the health] Aeroiony i zdorov'e. Moskva,
Znanie, 1964. 39 p. (Novoe v zhizni, nauke, tekhnike.
VIII Seriya: Biologija i meditsina, no.22)
(MIRA 17:12)

PREOBRAZHENSKIY, Nikolay Aleksandrovich; NIKOLAEV, V.R., red.

[They hear again] Oni slyshat vnov'. Moskva, Izd-vo
"Znanie," 1965. 15 p. (Novoe v znanii, nauke, tekhnike.
VII Seriya: Biologiya i reditsina, no.18)
(MIRA 18:8)

CHERNOV, A.G. & NIKOLAYEV, V.R., red.

[Chemistry in the service of medicine. Participants in
the discussion: A.A.Vishnevskii and others] Khimiia na
slushbe meditsiny. V besede uchastvuiut: A.A.Vishnevskii
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BLOKHIN, N.N., VASIL'YEV, F.V., kand. biol. nauk; LEBEDINSKIY, I.A.V., prof. (deceased); YAZDOVSKIY, V.I., doktor sci. nauk, prof.; CHENOV, A.G.; NIKOLAYEV, V.R., red.

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CHOSTAKOVSKIY, Mikhail Fedorovich; VLASOV, Viktor Mikhaylovich;
CHOSTAKOVSKIY, Zakhary Fedorovich; ITSEVENKIY, Evgen'yan
Mikhaylovich; NIKOLAEV, V., red.

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"Znanie," 1965. 43 p. (Novoe v zhizni, naуke, tekhnike.
VIII Seriya. Biologiya i meditsina, no. 1) MIA 18:4

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LIBERMAN, Yefim Arsent'yevich, kand. fiz.-matem. nauk; NIKOLAYEV,
V.R., red.

["Generators" and "pumps" of a cell] "Generatory i
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i meditsina, no.5) (MIRA 18:4)

ПЕРВЫЙ, Aleksandr Petrovich, doktor biol. nauk, prof.; Н.Н.МИХАИЛОВ,
V.R., red.

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ASATIANI, Vladimir Samsonovich, akademik; NIKOLAYEV, V.N., red.

[Taking medicine...] Prinimaia lekarstva... Moskva,
Znanie, 1966. 31 p. (Narodnyi universitet: Fakul'tet
zdrorov'ia, no.2) (MIRA 19:1)

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CHERNOV, A.G.; NIKOLAYEV, V.R., red.

[Problems of biophysics. Participants in the discussion:
IU.A.Vladimirov and others] Problemy biofiziki. V besede
uchastvuyut: IU.A.Vladimirov i dr. Moskva, Znanie, 1965.
63 p. (Novee v shisni, nauki, tekhnika. VIII Seriya;
Biologiya i meditsina, no.12) (MIRA 18:7)

KARDASHENKO, Valentina Nikolayevna, NIKOLAYEV, Valentina red.

[Health of the schoolchild] Zdorov'e shkol'nika. Mo-skva, Znanie, 1966. 31 p. (Narodnyi universitet: Fa-kul'tet zdorov'ia, no.1) (MIRA 19:1)

CP NIKOLAYEV, V. S.

Collaboration of ionization in several ionization chambers
V. Nikolayev, B. Nekrasov, and L. Danilov. Published
in Sov. Phys.-J. E. R., 19, 681-8 (1960).--Collaborators
studied ionization in 4 fast ionization chambers were stacked at
10 cm. Each chamber was formed by a Cu cylinder with
interior electrode 25 cm. long and diam. 11 cm.; the 4 were
placed with axes horizontal and at the corners of a 17 cm
square. Ion collection time was less than 0.66 sec. Col-
laborators with and without Al filter 3.2 cm. thick around
every chamber were compared. Collaborations between pairs
are attributed to start around in both chambers. The results
agree with those of other authors (cf. C.A. 53, 14426).
P. H. Morris

Phys. Inst. im. Sibedev, AS USSR

NIKOLAYEV, V.S.

RECEIVED AND PROCESSED 06/29/86

1657 Measurements in Graphite and Alumina Filters of Pulse Rates Generating Pulses in the Interaction Chambers

at 3,000 and 4,700 m. G. Gurev, V. Shchegolev, L. Sosulin, and I. Chertov. Radiotekhnika i Svyaz
S.S.R. 07, 620-61000 (in Russian).

Abstract: It is shown that pulses in small interaction chambers, filled to moderate pressures, are due mainly to heavy particles or to nuclear dissociations in the chamber's walls and in the filling gas. In the present paper, experiments are described, carried out at 3,000 and 4,700 m altitude with a spherical chamber of 30 cm diameter, filled with argon to 4 atm; the brass walls were 1.5 mm thick. At 4,700 m measurements were taken with and without a 60 g/cm² graphite filter, promising for the air layer between 4,700 and 3,000 m. The pressure of nitrogen was increased by up to 2000 mbars. The results showed that at 4,700 m the filter did not bring the number of pulses down to the values observed at the lower altitude, and that the difference between pulse numbers counted with and without the filter was small. The latter phenomenon must be due to the so-called density effect, produced in the chamber by the cumulative action of one heavy particle. The former phenomenon, although due to a small extent to density effect, is closely connected to the dissociation of the generating component in the graphite.

ASA 210-6 RETAILORING SITUATION CLASSIFICATION

For $\text{P}(\text{Th-40})/\text{P}(\text{U-238})$, we have $\text{Th}_{\text{eff}} = \text{Th}_{\text{tot}} \times \text{Th}_{\text{frac}} = 1 - \text{U}_{\text{frac}}$.

A. 1945-199 MM. AF5001-14

תְּמִימָנָה בְּעֵזֶר/תְּמִימָנָה בְּעֵזֶר/תְּמִימָנָה בְּעֵזֶר

AUTHOR: Nikolayev, V. S. (Moscow)

TITLE: Viscous hypersonic flow behind a parabolic axisymmetric shock wave

SOURCE: AN SGSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 6, 1964, p. 52.

TOPIC TAGS: entropy profile, entropy layer, hypersonic viscous flow, hypersonic inviscid flow, shock wave, boundary layer, small disturbances theory, boundary layer flow interaction, vortex interaction, entropy

ABSTRACT: The inverse problem of determining the flow field behind a parabolic axisymmetric shock wave is considered with boundary-layer-induced flow interaction taken into account. The theory of nonstationary laminar supersonic flow over a slender flat plate is used to solve the axisymmetric flow over a slender flat plate. The solution is obtained through the analytical solution of the problem of solving the equations of motion and continuity related to the inviscid flow behind the shock wave, and the velocity effect of the Fuchs method (*Prikladnaya matematika i mehanika* v. 24, no. 1, 1960). The formulation of the problem makes it possible to take account of the interaction related to the displacement effect of the boundary layer and also the vortex interaction. The results

Cont'd 1/2

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ACCESSION NR: AP5005173

numerical calculations of the flow between the body and shock wave are presented.
The entropy and velocity transition at various Reynolds numbers and the variation of mass
sections are given in graphs. Orig. art. has: 2 figures and 16 formulas. AB

ASSOCIATION: none

SUBMITTED: 19Sep64

EECL: 00

SUB CODE: M3

NO REF SSV: 003

OTHER: 003

ATD PRESS: 3182

Card 2/2

NIKOLAEV, V.S.

cosm/Physics - Cosmic Rays

"Spatial Distribution of Penetrating Particles in Atmospheric Showers of Cosmic rays," L. Kh. Ayus, N. I. Mamovich, I. A. Ivanovskaya, V. S. Nikolayev, N. S. Tulyantseva, Phys Inst im Lebedev, Acad Sci USSR

"Zhur Eksp i Teoret Fiz" Vol XXX, No 4, pp 140-147 - 1957

Investigates the spatial distribution of penetrating particles in atm showers by means of counters connected to hodoscopes. Shows that the percent of penetrating particles increases proportionally to the distance to the shower's axis. The total energy of penetrating particles exceeds half of the total energy of the shower. Presents proofs of existence of showers with a complex spatial structure. Indicated to Acad D. V. Shobelsyn, N. A. Detretin, G. T. Zatsepina, Received 15 Dec 51.

215781

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NIKOLAYEV, V.S.

56-5-6/55

AUTHORS:

TEPLOVA, Ya.A., DMITRIEV, I.S., NIKOLAYEV, V.S.
FATEIEVA, L.N.

TITLE:

On the Interaction of Lithium Ions with Matter. (*Vzaimodeystvij
ionov litiya s veshchestvom*, Russian)
Zhurnal Ekspерим. i Teoret. Fiziki, 1957, Vol 32, Nr 5,
pp 974 - 978 (U.S.S.R.)

PERIODICAL:

ABSTRACT:

In a 72 - cm cyclotron Li^7 ions were accelerated to 0,5 to 5 MeV and their specific ionization in air and hydrogen, the equilibrium distribution of charge after passage through celluloid and their ranges in hydrogen, air, and in the photoemulsion NIKFI-YA-2 were determined. From the curves of the energy loss of the Li^7 ions in air (expressed in MeV per 1 cm path) a maximum at about $7 \cdot 10^8$ cm/sec ion velocity can be observed, whereas for hydrogen a broad maximum between 4 and $8 \cdot 10^8$ cm/sec ion velocity is to be noticed.

As a result of the charge equilibrium distribution of the Li^7 ions, after they had entered into interaction with a celluloid foil of $\sim 20 \mu\text{g/cm}^2$ thickness, the corresponding curves for 4 different charge states are given.

The range curves of the Li^7 ions in the emulsion NIKFI-YA-2 are compared with those of other photoemulsions.

Card 1/2

56-2-34/47

On the Cross Section of Electron Capture.

ASSOCIATION: Moscow State University.
 (Moskovskiy gosudarstvenny universitet.)

SUBMITTED: May 7, 1957.

AVAILABLE: Library of Congress.

CARD 3/3

56-6-3/47

AUTHORS: Nikolayev, V. S., Dmitriyev, I. S.,
 Fateyeva, L. N., Teplova, Ya. A.

TITLE: The Equilibrium Distribution of Charges in a Beam of
 Ions of Light Elements (Ravnovesnoye raspredeleniye
 zaryadov v puchke ionov logikh elementov)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1957.
 Vol. 33, Nr 6(12), pp. 1325-1334 (USSR)

ABSTRACT: The present paper determines the equilibrium distribution
 of the charges of the ions of light elements with nuclear
 charge numbers Z from 5 to 10 after their passage through
 hydrogen, air, argon, and through a celloid film. These
 ions had velocities of from 3,5 to $11,10^8$ cm/sec, i.e.
 $v \sim 1,5 - 5 v_0$, where it holds that $v_0 = e^2/h$.

As a source of the fast particles a 72 cm cyclotron was
 used, by means of which the following ions were accelerated:

$^{11}B^{+1,+2,+3}$; $^{13}C^{+2,+3}$; $^{14}N^{+2,+3}$; $^{16}O^{+2,+3}$

and $^{20}Ne^{+2,+3}$. The ion beam emerging from the cyclotron
 was deflected by a magnetic field after which it entered a

Card 1/3

The Equilibrium Distribution of Charges in a Beam of
Ions of Light Elements

56-6-3/47

charge of ions after passage through the film increases much more rapidly than the average charge in air. The degree of ionization of the ions investigated here in air, hydrogen, and argon in the domain $0,2 \leq i \leq 0,6$ can be represented for every gas by a special function of the parameter $v/v_0 Z^\alpha$ where $\alpha \sim 0,4$ holds in the case of all gases. In conclusion the authors discuss the here obtained results and compare them with those obtained by other authors. There are 7 figures, 2 tables, and 20 references, 7 of which are Slavic.

ASSOCIATION: Moscow State University (Moskovskiy Gosudarstvennyj universitet)

SUBMITTED: June 28, 1957

AVAILABLE: Library of Congress

Card 3/3

AUTHORS:

Teplova, Ya. A., Nikolayev, V. S., Dmitriyev, I. S.
Fateyeva, L. N.

80V/56-34-3-5/55

TITLE:

Ranges and Specific Ionisation of Multi-Charged Ions in Gases
(Probegi i udel'naya ionizatsiya mnogozaryadnykh ionov v gazakh)

PERIODICAL:

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958,
Vol. 34, Nr 3, pp. 550-568 (USSR)

ABSTRACT:

Measurements were made/ and the specific ionisation of the ions from Be to Ne at velocities of from $1.5 \cdot 10^6$ to $12.1 \cdot 10^6$ cm/sec in argon, air, and hydrogen. The authors start with the description of the experimental method, they here use a focused ion beam from a 72 cm cyclotron. The method of the measurement is based upon that the recorder of the charged particles, which was mounted on a movable bar, was moved on the trajectory of the beam inside the slowing down chamber to measure the relative ionisation along the beam. Also the slowing down of the ions in a gas filled chamber is described. The specific ionisation and the ranges of the ions with velocities of from 1.10^6 to 12.10^6 cm/sec were measured by means of a calibrated counter with a linear amplifier. The ranges of the nitrogen ions at velocities of from

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