KUZNETSOV, V.I.

Peripheral resistance and minute volume of the blood in acute radiation sickness. Med. rad. 6 no.2:40-46 '61. (MIRA 14:3) (RADIATION SICKNESS) (BLOOD VOLUME) (BLOOD CELLS)

MUZNETSOV, V.I., dotsent; KUSHAKOVSKII, M.S., kand.med.nauk; MIKHASEV, M.I. (Leningrad)

Antihypertensive activity of cystamine. Klin.med. 39 nc.1171-76 Ja 161. (MIRA 14:1)

1. Iz kafedry propedevtiki vnutremnikh bolezney (nach. - zasluzhemnyy deyatel' nauki deystvitel'nyy chlen AMN SSSR prof. N.N. Savitskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(BLOOD PRESSURE)
(THYLAMINE)

KUZNETSOV, V.I.; KUSHAKOVSKII, M.S. [Kushakovskiy, M.S.]

Haemodynamics and tissue oxygen supply in patients with chronic methaemoglobinaemia. Cor vasa 4 no.4:281-288 '62.

1. Department of Internal Medicine, Kirov Academy of Military Medicine, Leningrad, USSR.

(METHEMOGLOBINEMIA) (BLOOD CIRCULATION)

(BLOOD GAS ANALYSIS)

GUTKIN, Kh.G.; KUZNETSOV, V.I.

Total substitution of the ureter with a segment of the small intestine. Urologiia no.6:58-59'62. (MIRA 16:7)

1. Iz khirurgicheskogo otdeleniya (zav. V.I.Pel'tsverger) 2-éy dorozhnoy bol'nitsy Ygzhno-Ural'skoy zheleznoy dorogi.
(URETERS-SURGERY) (SURGERY, PLASTIC)

1/2

KUZNETSOV, V.I.

Isolated tuberculous lesion of the stomach. Khirurgiia no.32133-134 '63. (MIRA 16:5)

1. Iz khirurgicheskogo otdeleniya (zav. zasluzhennyy vrach RSFSR kand.med.nauk I.M.Kuznetsov)Fespublikanskoy bol'nitsy (glavnyy vrach P.L.Yeremin) Ministerstvo zdravookhraneniya Chuvashskoy ASSR.

(STOMACH-TUBERCULOSIS)

L 9988-63 EPF(c)/EWI(1)/EPF(n)-2/EWI(m)/BDS/ES(b)-AFFTC/ASD/SSD--Pr-L/

Pu-4--RM/MAY/K ACCESSION NR: AP3002858 5/0241/63/008/006/0027/0032

AUTHOR: Kuznetsov, V. I.; Kushakovskiy, M. S.

TITLE: Mechanism of the effect of antiradiation agents 19

SOURCE: Meditsinskaya radiologiya, v. 8, no. 6, 1963, 27-32

TOPIC TAGS: radioprotective agents, radioprotective mechanisms, cystamine, S, Beta-aminoethylisothiuronium, AET, oxygen balance, hypoxia, oxygen effect

ABSTRACT: Cystamine and AET (5, Beta-aminoethylisothiuronium), whose radioprotective mechanisms have been thought to be similar and based on hypoxia, were studied to determine their effect on the various steps in the supplying of oxygen to the tissues of the human body. An attempt was made to discover whether these preparations do, in fact, induce some form or other of hypoxia. Information was also sought on the significance of the "oxygen effect" and hypoxia in the radioprotective mechanisms of sulfhydryl compounds. Cystamine given per ora in 200, 400, and 600 mg doses caused an increase in basal metabolism, increased oxygen consumption in the lungs, and a drop in methemoglobin. Added to a suspension of crythrocytes, with glucose present, cystamine increased the absorption of oxygen and the elimination of CO sub 2 from live- to eighteenfold.

L 9988-63

ACCESSION NR: AP3002858

Data obtained indicated that cystamine does not cause hypoxia of the hemic, anoxic, stagnation, or histotoxic types. Similar doses of AET, on the other hand, had an inhibitory effect on oxygen balance, producing a lowering of basal metabolism and a reduced coefficient of oxygen consumption in the lungs. Unlike cystamine, AET penetrates the erythrocyte membrane weakly. The possibility of AET-induced hypoxia was by no means ruled out. It is concluded that the radioprotective effect of cystamine in humans cannot be satisfactorily explained on the basis of the hypoxia theory, and that the radioprotective mechanisms of cystamine and S, Beta-aminoethylisothiuronium are not identical. Orig. art. has: l table.

ASSOCIATION: Voyenno-meditsinskaya Ordena Lenina akademiya imeni S. M. Kirova (Military Medical Academy)

SUBMITTED: 04Jun62

DATE ACQ: 23Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

ja/is/ Card2/2

KUZNETSOV, V.I., kand. med. nauk; ZHUCHKOV, F.V.

Diagnostic errors and complications in closed injuries of the duodenum. Khirurgiia 39 no.10:104-106 0 '63.

(MIRA 17:9)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii Chelyabinskogo meditsinskogo instituta i 2-y Dorozhnoy bol'nitsy (nachal'nik T.M. Ovchinnikova) Yuzhnoural'skoy zheleznoy dorogi.

ACCESSION NR: AP4027982

8/0205/64/004/002/0284/0288

AUTHOR: Kuznetsov, V. I.; Tank, L. I.

TITLE: Oxygen consumption change in erythrocytes under the effect of cystamine

SOURCE: Radiobiologiya, v. 4, no. 2, 1964, 284-288

TOPIC TAGS: cystamine, oxygen respiration, cell oxygen respiration, erythrocyte, cystamine radioprotective concentration, respiration intensity, cysteamine (mercamine), disulfide 5-mercaptopentylamine, cyanide compound effect

ABSTRACT: The effect of radioprotective cystamine concentrations on oxygen consumption of cells was investigated in erythrocytes isolated from blood of dogs and pigeons. Erythrocyte samples (2 ml) were incubated in Warburg unit respirometers at 37°C. Cystamine in concentrations corresponding to radioprotective doses administered to animals and humans was added to samples before incubation. Respiration intensity was measured manometrically. Erythrocyte oxygen absorption was determined every 15 min for 3 hrs. The effects of cysteamine

Card 1/2

ACCESSION NR: AP4027982

(mercamine), disulfide 5-mercaptopentylamine, and cyanide compounds were also investigated. Findings show that cystamine, in concentrations corresponding to radioprotective doses administered to animals and humans, increases erythrocyte oxygen respiration. Cysteamine (mercamine) affects erythrocyte respiration the same as cystamine. Cyanide compounds decrease significantly the effect of cystamine on erythrocyte respiration. Disulfide 5-mercaptopentylamine, close in chemical structure to cystamine but without radioprotective action, decreases erythrocyte respiration. Orig. art. has: 3 tables.

ASSOCIATION: Voenno-meditsinskaya ordena Lenina Akademiya im. S. M. Kirova, Leningrad (Military-Medical Lenin Order Academy)

SUBMITTED: 09Jan63

ENCL: 00

SUB CODE: 18

NR REF SOV: 015

OTHER: 004

Card 2/2

KUZNETSOV, V.I.; TANK, L.I.

Effect of radioprotective agents of the amino thiol series on the respiratory function; a review of literature. Med.rad. 9 no.9:92-95 S 164. (MIRA 18:4)

1. Voyenno-meditsinskaya ordena Lenina akademiya imeni Kirova, Leningrad.

TANK, L.I.; KUZNETSOV, V.I.

Cardiavascular changes under the influence of aminothiols; a review of literature. Med. rad. 9 no.7:56-66 J1 '64. (MIRA 18:5)

1. Voyenno-meditsinskaya ordena Lenina akademiya imeni Kirova, Leningrad.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8

ACC NRI AP7004650 (A,N)

SOURCE CODE: UR/0432/66/000/001/0013/0015

AUTHOR:

Kuznetsov, V. K.; Morozov, A. A.

ORG: none

TITLE: Program interrupt during access to magnetic tape

SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 1, 1966, 13-15

TOPIC TAGS: computer storage, computer control system, magnetic tape, compure.

PROGRAM

ABSTRACT: The Institute of Cybernetics of the Academy of Sciences UkrSSR has designed a program-interrupt unit for use with the Minsk-2 and Minsk-22 computer magnetic tape memory. The program-interrupt unit coordinates the exchange of information between the arithmetic unit and various memory types whose maximum waiting times differ into maximum time during which information may be stored in a memory unit without loss. Since the waiting time fof magnetic tape memory is practically infinite and of other units is as the order of tens or hundreds of milliseconds, it is most expedient to interrupt during magnetic tape memory access with subsequent unconditional transfer back to the tapc memory. The program and hardware (using standard Minsk-2 computer circuits) required for this function are described. Orig. art. has: 1 figure. [BD]

SUB CODE: 09/ SUBM DATE:

Card 1/1

UDC: 681.142.63

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8"

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210010-8

ACC NRI AP7000147

UR/0046/66/012/004/0457/0462 SOURCE CODE:

AUTHOR: Kuznetsov, V. K.

ORG: Acoustics Department, Moscow State University (Kafedra akustiki Moskovskogo gosudarstvennogo universiteta)

TITLE: Experimental apparatus for investigating wave fields in nc homogeneous media by the analog modeling method

SOURCE: Akusticheskiy zhurnal, v. 12, no. 4, 1966, 457-462

TOPIC TAGS: hydrodynamics, hydrodynamic wave, acoustic wave tank, acoustic wave, oscillograph, laboratory equipment/ MPO-2 oscillograph

ABSTRACT: The operating principle and the structural details of an apparatus for investigating hydroacoustic waves are discussed. The main features of the apparatus are a waveguide and a water tank capable of absorbing acoustic waves and eliminating reflection from the waveguide edges. These features make it possible to use the apparatus for analog modeling of the propagation of cylin rical waves in free space as well as the propagation of waves in nonhomogeneous m dia. For the latter purpose a variable cross-section horn is used. A block dis cam of the complete apparatus is presented. The waveguide proper is made of sheet dur lumin and has the shape of an elliptical arc. The measuring instruments consist of ave generators, amplifiers, phase meters, and MPO-2 loop oscillographs. Typical o millograph outputs

UDC: 534.6

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8

ACC NR: AP7000147

are given to illustrate the damping characteristics of the apparat 3 and the characteristics of several normal wave fields. A scanned record i included to show the sectional view of a primary normal wave in the vertical plane. In conclusion, the author expresses his gratitude to S. N. Rzhevkin for his const at attention to this work and to Ye. P. Minin for his part in constructing the apparatus. Orig. art. has: 6 figures. [04]

SUB CODE: 20/ SUBM DATE: 12Nov64/ ORIG REF: 006/ OTH REF: 00/ ATD PRESS: 5110

Card 2/2

L 43037-66 EWT(m)/SHF(L)/ET: INF(c) 46/35/43

ACC MR: AR6014367

SOURCE CODE: UR/0137/65/000/011/G030/G030

AUTHORS: Kuunetsev, V. K.; Hel'nikova, L. P.; Kakevkina, V. G.; Paneva, L. S.

TITLE: Electrolytic deposition of zinc-nickel alloy

٦

SOURCE: Ref. zh. Metallurgiya, Abs. 116217

REF SOURCE: Sb. Zashchita met. ot korrozii. Kuybyshev, 1965, 47-52

TOPIC TAGS: zinc containing alloy, nickel containing alloy, electrolytic deposition

ABSTRACT: To obtain clear, bright depositions of Zn-Ni alloy with an Ni content of up to 2% the following electrolyte composition is recommended (in g/liter): Zn 32-42, Ni 0.75-0.196, NaCN 84-94, NaCH 71-82; temperature of electrolyte 18-25C; D = 2-3 amp/dm². Data on corrosion experiments have shown that the corrosion stability of Zn-Ni alloy is not lower and, in a number of cases, is higher than the corrosion stability of Zn. G. Svodtseva Translation of abstract

SUB CODE: 11

Card 1/1 gl

UDC: 669.5'14.018.9

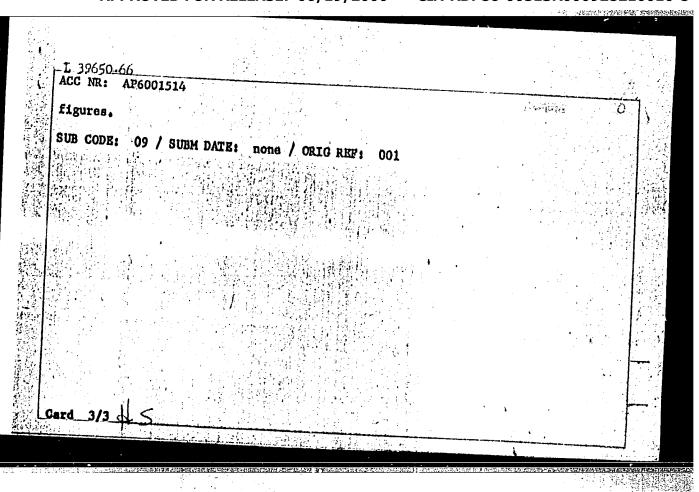
AUTHOR: Grabezhov, E. Ya.; Kuznetsov, V. K.	\mathcal{B}	
ORG: None TITLE: Operation of general-purpose digital computers with extrinsic automatic control systems of general-purpose digital computers with extrinsic automatic control systems of general-purpose digital computers with extrinsic automatic control systems of general computers with extrinsic automatic control systems digital computers.		大學
TOPIC TACS: computer component, automatic control system, digital control tacks: computer component, automatic control system, digital control tacks. The authors discuss the various types of connections between the control tacks and extrinsic devices, dividing them into two classes: number code is and extrinsic devices. A method for organize the digital computer to the extrinsic devices. A method for organize the digital computer to the extrinsic devices. A method for organize the digital computer to the extrinsic devices. A method for organize the digital computer and variety tion of an automatic control system with a large number and variety tion of an automatic control system with a large number and variety tion of an automatic control system with a large number. A description devices is explained with the aid of a block diagram. A description devices is explained by the Institute of Cybernetics AN UkrSSR (Institute) for connecting extrinsic units to digital computers. This device is in input-output amplifier unit, an extrinsic device address decomposed in input-output amplifier unit, an extrinsic device address decomposed in input-output amplifier unit, an extrinsic device address decomposed in input-output amplifier unit, an extrinsic device address decomposed in input-output amplifier unit, an extrinsic device address decomposed in input-output amplifier unit, which was developed for use with the outputs and input-output amplifier unit, and input-output a	buses for dollars for dollars the open of extrinsities given the country of the c	ata lc ofi

L 39650-66

ACC NR: AP6001514

computer; can be used to connect up to 90 extrinsic devices to the computer. When the ready signal is fed from the extrinsic device to the program interrupter, the incoming signal is analyzed and the address of the extrinsic device is determined. A voltage for transmission or reception of data is generated in the operation code unit of the computer controller, and this potential is applied to the input-output amplifiers. In addition, the data reception potential is also fed to the readout pulse generator. At the same time, the code for the first address of the command is sent to the command register; the address decoder deciphers this signal to the resolving potential P₁,...,P_k with the number of the device sending the ready signal. This potential is sent to the buffer accumulator of the proper device, opening the valve for information readout from the buffer accumulator to the number code buses. Information readout is assured by the randout pulse for the given extrinsic device. This pulse is formed in the readout pulse generator at the corresponding valve by the pulse from the computer and the resolving potential from the address decoder. The number code buses carry the information to the inputoutput amplifiers. Through the open amplifiers the information is then sent to the number code buses of the computer and thence to the memory unit. Information from the computer is sent through valves (provided there is a data transmission potential) to the number code buses of the extrinsic devices and received by the device the potential of which is given by the address decoder. Tests of this coupler have shown that it is reliable and simple to uso. Orig. art. has: 2 Card 2/3 /

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8



SOV/46-5-2-7/34

AUTHOR: Kuznetsov, V.K.

TITLE: On a New Method of Solution of the Problem of Acoustic Field in a Liquid Wedge (O novom metode resheniya zadachi o zvukovom pole v zhidkom kline)

PERIODICAL: Akusticheskiy zhurnal, 1959, Vol.5, Nr 2, pp 170-175 (USSR)

ABSTRACT: Solutions of the liquid-wedge problem, obtained in general form by Sommerfeld and others (Ref.1), frequently fail to show clearly the physical nature of the acoustic field. The author describes a new approach which avoids this difficulty. He considers a wedge of aperture φ with perfectly reflecting boundaries at $\varphi = \varphi/2$ and $\varphi = -\varphi/2$. The wave equation is written in cylindrical coordinates (Eq.1) and is then separated into Equations(3) and (4) by means of the substitution given in Eq.(2). Solution of Eq.(4), together with its boundary conditions, yields "normal waves" of Krasnushkin (Ref.2). These "normal waves" are used as the basis of further discussion. Plane waves and Card 1/3 waves proceeding from a point source are considered. The

SOV/46-5-2-7/34

On a New Method of Sclution of the Problem of Acoustic Field in a Liquid Wedge

> theory predicts refraction of "normal waves" in the wedge. The existence of such refraction was confirmed experimentally in water at 9, 11 and 12 kc/s. This refraction explains anomalies reported by Worcel and Iving (Ref. 5), who studied propagation of sound in seas near their shores (sea and lake shores often form liquid wedges with almost perfectly reflecting upper boundaries). Interference of "normal waves" in the wedge is also discussed. The work reported was carried out by the author in the Chair of Acoustics of the Physics Department of Moscow State University in 1955-6, and has already been reported at the Third All-Union Conference on Acoustics in May 1957. The work was suggested by V.S. Nesterov, Docent of the Chair of Acoustics, Moscow State University. There are 7 figures and 6 references, of which

Card 2/3 5 are Soviet and 1 translation into Russian.

SOV/46-5-2-7/34 On a New Method of Solution of the Problem of Acoustic Field in a Liquid Wedge

ASSOCIATION: Kafedra akustiki Moskovskogo gosudarstvennogo universiteta (Chair of Acoustics, Moscow State University)

SUBMITTED: September 23, 1957

Card 3/3

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8

"Foc	sing of I	lormal Wav	es in a Laye	er of Non-Unit	form Depth."			
paper pres	sented at	the 4th A	ll-Union Con	f. on Acousti	es, Moscow,	26 May -	- Jun 58.	

KUZNETSOV, V.K.

Membrane jolting machine. Idt.proisv. no.2:40-41 F 60. (MIRA 13:5) (Foundries -- Equipment and supplies)

LESHCHENKO, V.A.; KUZNETSOV, V.K.

Manufacture of throttle slide-valves for monitoring systems based on the method of hydraulic tests. Stan.i instr. 24 no.7:23-25 Jl '53.

(MLRA 6:8)

(Slide-valves)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210010-8

L 4501-66 ENT(d)/T/ENF(1) IJP(c) BB/GG -

ACC NR: AP5023268

UR/0302/65/000/003/0023/0025 681, 142, 63

AUTHOR: Kuznetsov, V.K.; Morozov, A.A.

TITLE: The realization of program interruptions on universal digital computers

SOURCE: Avtomatika i priborostroyeniye, no. 3, 1965, 23-25

TOPIC TAGS: computer program, automatic programming, automatic computer programming, digital computer, computer component, computer circuit

ABSTRACT: During the use of digital computers in automatic control systems, the need for interruption programs often arises. Since the computer can operate with only one of the external devices at a time, the interruption program from a device with a higher priority can interrupt and stop the carrying out of the program of a device having a lower priority. For such uses of the "Minsk-2" universal computer the Institut kibernetiki AN Ukr. SSR (Institute of Cybernetics AN Ukr SSR) developed a circuit for the interruption of low priority programs. The paper outlines the block diagram of the interrupting device and of the basic interrupter component, and describes the operation of the device. The circuits are simple and reliable in operation. Orig. art. has: 3 figures.

ASSOCIATION: none

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8

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S/138/61/000/005/002/006 AD51'A129

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13 3 2 0 1,1, 2021

Radchenko, I. I., Fisher, S. L., Korchmarek, V. V., Kuznetsov, V. L.,

Bryl', D. G., Lyashch, R. S., Valenina, V. F.

TITLE:

AUTHORS:

Polymerization of butadiene with styrene in emulsion using colophony

soap at a temperature of 5°C

PERIODICAL: Kauchuk i rezina, no. 5, 1961, 5 - 11

TEXT: Several polymerization formulations have been developed, of which only a few are suitable for industrial use. Hydrogene peroxide hydrocarbons are usually used as the initiators and various compounds with reducing properties as activators, such as ferrous sulfate, sodium sulfite, etc. Coagulation of the latex is caused by large quantities of electrolytes. Daksad serves as disperser. Daksad is a neutralized condensation product of naphthalenesulfoacid with formaldehyde. The higher mercaptanes, e.g., dodecylmercaptane and a mixture of C_{12} - C_6 , are used as regulator in the production of butadiene-styrene rubbers. The best-known polymerization formulation is iron-pyrophosphate, where a complex formed from the interaction of potassium pyrophosphate with ferrous sulfate is used as activator. Special attention is drawn to the iron-trilon formulation. An increase in the iron

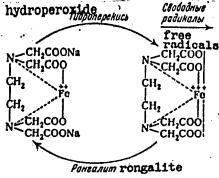
Card 1/5

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Polymerization of butadiene with styrene in...

S/138/61/000/005/002/006 A051/A129

entent in rubber is contra-indicated, since it causes premature oxidation and ging. A complex formed from the interaction of trilon B and ferrous sulfate is used as activator in the iron-trilon formulation. The purpose of the present work was to study the process of polymerization of butadiene with styrene carried out according to the iron-trilon and iron-pyrophosphate formulations, and to perfect these formulations for industrial use. Colophony scap and its mixture with fatty acid scap were used as emulsifiers. The scheme of the mechanism of the action of the system iron-trilon complex-hydroperoxide-rongalite is given:



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Polymerization of butadiene with styrene in...

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An iron-trilon formulation in two variants: for polymerization with colophony emulsifier and for polymerization with its mixtures with fatty-acid emulsifier at the ratio 1:1 was developed on the base of the conducted experiments. The formulations were checked under pilot plant conditions by S. L. Fisher, I. I. Radchenko, A. M. Perminov, E. G. Lazaryants, V. L. Tsaylingol'd et al. (report of VNIISK-NIIMSK, no. 013034, 1960). Four types of experimental batches of butadienestyrene rubber were prepared: CKC-30APK(SKS-30ARK) with colophony emulsifier (with a hardness of 600 - 800 g not containing mineral oil) and using a mixture of colophony and fatty-acid emulsifier at the ratio of 1:1, and also CKC-30AMPK (SKS-30AMRK) with a mixture of colophony and fatty-acid soap at a ratio of 1:1, containing 20 w.p. of GH-6 (PN-6) oil with a Defoe hardness of 600 - 800 g (before introducing the oil 1,200 - 1,400 g) and containing 37.5 w.p. of PN-6 oil with a Defoe hardness of 600 - 800 g (before introducing the oil 2,000 - 2,200 g). The prepared rubbers SKS-30ARK and SKS-30AMRK had the following indices:

	SKS-3UARK	2K2-30AMMK-20
content of free colophony acids, \$	6.3	5.5
content of bound colophony acids, %	0.35	0.15
iron content, %	0.017	0.012
Defoe hardness, g	540	650

Card 3/5

The iron-pyrophosphate formulation (report 010889, 1955-56) was further investigated with styrene the following formulation was dresinate 731 4.5, hydroperoxide n-me K ₁ P ₂ O ₇ 0.18, sodium ethylenediaminete daksad 0.15, Na ₃ PO ₄ ·12H ₂ O 0.5, te	SKS-30ARK 281 680 24 34 of Giprokauchu For the poly s used: butadi thane 0.08, traacetate (ver	resolution B) 0.01, recaptane (sulfol B-8)	
0.18, water 200 (in w.p.). It is polygulating action of the diproxide the rate times. When using the monohydroperoxide polymerization was 12 - 14 hrs, when replethane 9 - 10 hrs. On the basis of the copyrophosphate using potassium scap of colymas tested under pilot plant conditions (Card 4/5)	of polymerizat of diisopropylt acing it by hyd conducted work t	tion dropped almost by 1.5 penzene the duration of the diroperoxide of 1,1-diphenylthe formulation of iron-	

Polymerization of butadiene with styrene in...

S/138/61/000/005/002/006 A051/A129

1960). The prepared experimental butadiene-styrene rubber had the following indices: content of free colophony acids, % ... 5.8, content of bound colophony acids, % ... 0.25, content of iron, % ... 0.02, defoe hardness, g ... 550, tear resistance, kg/cm² ... 269, relative elorgecion, % ... 650, residual elongation, % ... 23, elasticity, % ... 29. In the conclusion the authors recommend sodium dimethyldithiocarbamate to be used as the interrupter of polymerization. There are 9 thyldithiocarbamate to be used as the interrupter of polymerization. There are 9 English-language publications read as follows: R. Frank, J. Polym. Sci., 3, no. 1, 39 (1948); L. Howland, Rubb. World, 130, no. 5, 647 (1954); R. Brown et al.,

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber im. S. V. Lebedev)

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Card 5/5

KUZNETSOV, V.L.; LEBEDEY, A.V.

Effect of the amount of emulsifying agents on the viscosity of mutadiene-styrene latexes. Kauch.i rez. 21 no.1:16-19 Ja '62. (MIRA 15:1)

1. Vapsoyuznyy nduchno-issledovatel skiy institut sinteticheskogo kauchika im. S.V.Lebedeva.

(Fmulsifying agents) (Rubber, Synthetic)

(Rutadiene)

KUZNETSOV, V.L.; LEBEDEV, A.V.

Effect of the nature of the cation of fatty acid soaps on the viscosity of butadiene-styrene latexes and the parameters of the adsorption layers. Kauch. i rez. 22 no.7:7-9 Jl '63.

(MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogc kauchuka im. S.V. Lebèdeva. (Rubber, Synthetic) (Emulsifying agents)

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AP4026368 ACCESSION NR:

:s/0138/64/000/003/0030/0033

AUTHORS: Kuznetsov, V. L.; Lebedev, A. V.

TITLE: Effect of hydrocarbon chain length in fatty acid scaps on the parameters of interphase layers in butadiene-styrene latexes

SOURCE: Kauchuk i rezina, no. 3, 1964, 30-33

TOPIC TAGS: rubber, butadiene-styrene rubber, latex, emulsifier, scap, potassium laurate, potassium myristate, potassium palmitate, potassium stearate, hydrocarbon chain length, viscosity, interphase layer, soap-water layer, hydration

ABSTRACT: The investigation was conducted on SKS-50 butadiene-styrene latexes synthesized by a standard procedure in the presence of potassium soaps of lauric, myristic, palmitic, and stearic acids as emulsifiers. The latexes were further treated with the corresponding sosp to the saturation point, which brought the pH to a 9.1-9.3 value. It was found that the viscosities of the latexes increased with an increase in the length of the hydrocarbon chain of the fatty acid. Calculations by a method described in an earlier publication by the authors (Kauchuk i rezina. No. 1, 16, 1962) revealed that the thickness of the coating of the

Card 1/2

ACCESSION NR: AP4026368

latex particles varied from 3.2 to 4.7 millimiarons, increasing with the length of the carbon chain of the emilsifier, while the degree of hydration of the adsorbed scap showed a reverse trend. Tests conducted with scaps from demestic-mixed synthetic fatty acids of a C10-C16 carbon chain length showed that the thickness of the adsorbed aqueous scap layer depended solely on the average carbon chain length of the mixture, irrespective of its original constituents. The chain length towards freezing at -12 and -30C was superior to that of samples emulsified by a single scap of an identical carbon chain length. It was also of the carbon chain of the corresponding fatty acid. Orig. art. has: 5 tables

ASSOCIATION: Vsesoyuznysy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute of Synthetic

SUBMITTED: 00

DATE ACQ: 17Apr64

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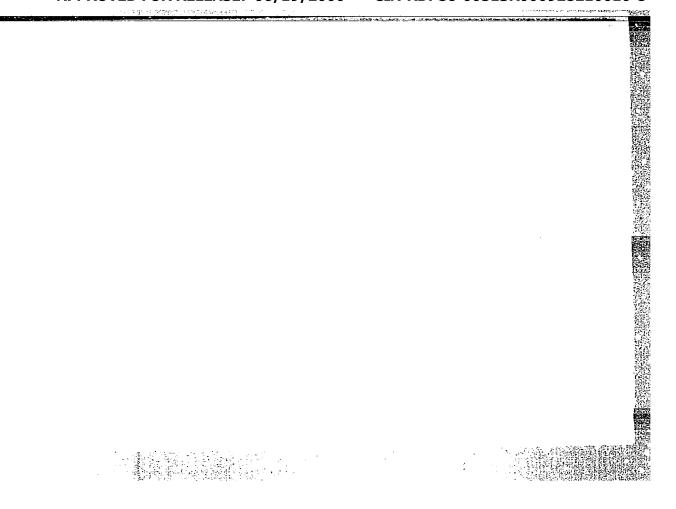
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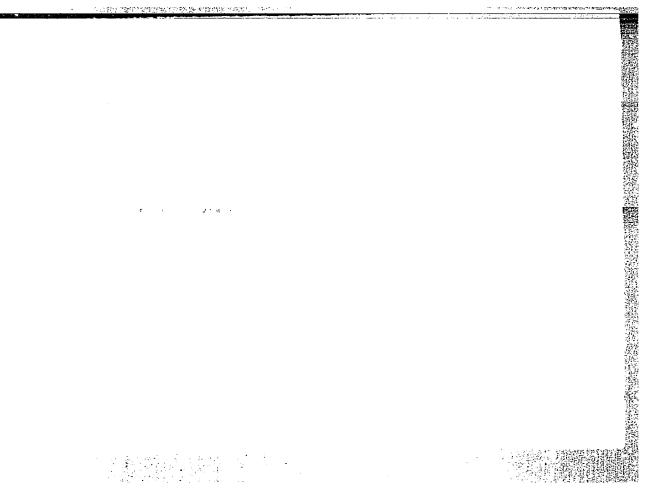
Car2/2

KUZNETSOV, V.L.; LEBEDEV, A.V.

Effect of the length of the hydrocarbon chain of fatty acid scaps on the parameter of the interphase layers in butadiene styrene latexes. Kauch. H rez. 23 no. 3:30-33 Mr 164. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V.Lebedeva.





DUBROVIN, A.S. (Chelyabinak): KUZNETSOV, V.L. (Chelyabinak)

Role of pressure and heat transfer in setallothermic processes.

Inv. AN SSSR. Met. no.4182-88 Wil-Ag 165. (MIRA 18:8)

KUZNETSOV, V.L.; KONDRASHOV, V.A.; RUVINSKIY, L.L.

Increasing labor productivity in seismic prospecting based on the introduction of surface booms. Razved. geofiz. no.5:33-38 165. (MIRA 18:9)

KUZNETSOV, V.L.

Using pattern shooting in low-velocity zones. Trudy SNIIGGIMS no. 30:69-74 ' 64 (MIRA 19:1)

ACC NR AP6036428 SOURCE CODE: UR/0210/66/000/008/0074/0084

AUTHOR: Kuznetsov, V. L.; Ocheretina, V. B.

ORC: Siberian Scientific Research Institute of Geology, Geophysics, and Mineral Resources, Novosibirak (Sibirakiy nauchno-isaledovatel skiy institut geologii, geofiziki i mineral nogo syr'ya)

TITLE: Possible utilization of discrete observations of reflected waves for prospecting third-order structures

SOURCE: Geologiya i geofizika, no. 8, 1966, 74-84

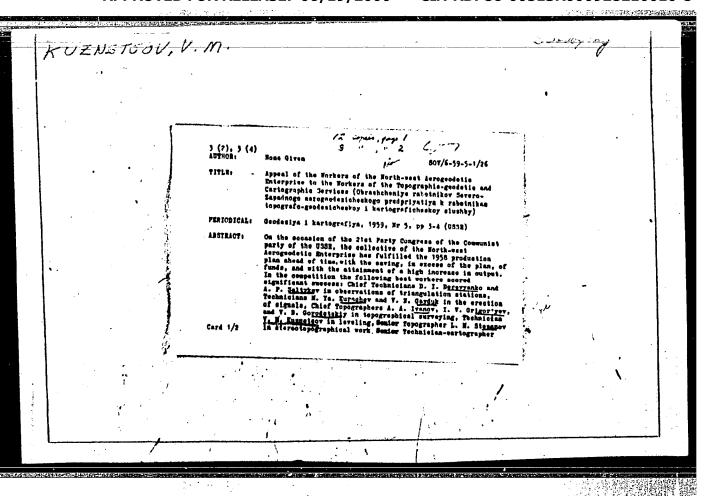
TOPIC TACS: geologic prospecting, seismic wave, peopagaton, seismic prospecting, industrial shooting

ABSTRACT: Experiments have been conducted in the southeastern part of the west Siberian lowland (Ubinskiy prominence) to determine the feasibility of prospecting local third-order structures by means of discrete observations of reflected waves, including those reflected beyond the critical angle. To examine the changes that occur in the form of the record of a reflected wave with distance from the source of oscillations, the waves were tracked continuously from the surface of the basement in the 0—4000-m range. Recordings were made by a seismic station using the SSM-57 6-channel magnetic recorder; which simulated the "Tayga" station, and by individual SPED-56 seismic recorders with 20-m spacing. The length of the array was 460 m. The tests were carried out in two different sectors. In the first,

where the low-velocity zone was 10 m thick, the elastic waves were generated by charge detonations in boreholes at depths of 10—20 m. In the second sector, where the low-velocity zone was 1 m thick, group detonations were set off in wells at a depth of 1 m. Each charge was 0.4 kg. The experiments showed that the method of discrete observations of reflected waves, including those beyond the critical angle, can be successfully used to map third-order structures. The method may be used effectively in swampy as well as heavily forested areas. Heavy equipment can be dispensed with, and prospecting teams can be reduced to 8—10 men. Orig. art. has: 6 figures. SUB CODE: 08/ SUBM DATE: 07Jan66/ ORIC REF: 018/ ATD PRESS:5106

KUZNETSOV, V.M. surface heat of beilers (critical notes to the SH and P). Ved.i san. tekh. ne.9:29 8 56.
(Heating) (Beilers)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8



"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210010-8

AUTIER: Chermenko, A.K.

TITLE: At the joint scientific council for the physico-mathematical and technical sciences

PERIODICAL: Addedley name assessment of the Obligation of

MINESS CREATE, I.P. (Card. Zee, Borribe-97-11/17 Excellential Connection of Waives for Setzing Large Plats FREIODIAL INVESTITY CARRIENT PROPERTY OF SETZING PARS FREIODIAL INVESTITY TRAINING LARGEST STREAMS PARSING PROPERTY MANUAL INVESTITY TRAINING LARGEST STREAMS PARSING PROPERTY MANUAL INVESTITY TRAINING LARGEST STREAMS PARSING PROPERTY MANUAL INVESTITY TRAINING LARGEST STREAMS PARSING OPEN CARRIED AND A CONTROL OF THE ANALYSIS OF THE

5/044/62/000/002/041/092 0111/0444

AUTHOR:

Ruznetsov, V. M.

TITLE:

On the influence of the gravity on the throwing-out

under explosions in the ground

PERIODICAL:

Referativncy sharmal, Matematika, no. 2, 1962, 74, abstract 2B325. ("Tr. Mosk. fiz.-tekhn. in-ta", 1959,

vyg. 3, 121-131)

TEXT:

It is shown, that for explosive charges being used in

praxis this influence is small.

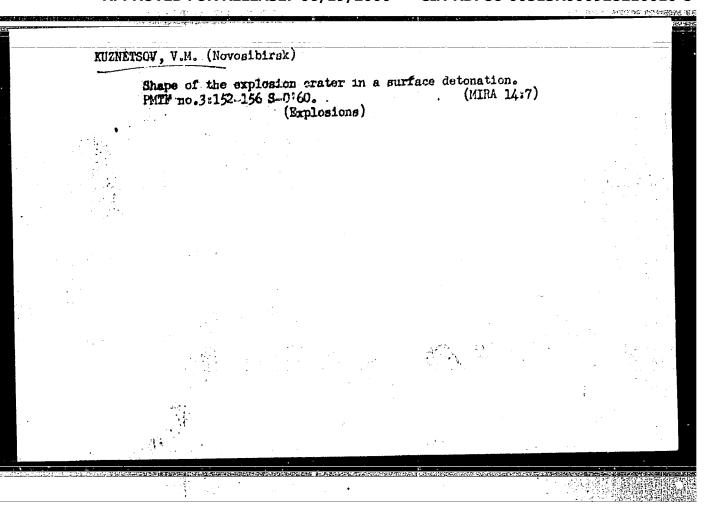
Abstructer's note: Complete translation.

Card 1/1

KUZNETSOV, V.M., tekhnik

Device for locating punctures in insulation. Elek. i tepl. tiaga 4 no.10F21-22 0 60. (MIRA 13:10)

1. Lokomotivnoye depo Orenburg Kuybyshevskoy dorogi.
(Railroads--Electric equipment)
(Electric insulators and insulation--Testing)



KUZNETSOV, V.M. (Novosibirsk); LAVRENT'YEV, M.A. (Novosibirsk);

SHER, Ye. N. (Novosibirsk)

Directed earthmoving by means of explosives. PMTF no.4:4950 N-D '60. (MIRA 14:7)

(Earthwork)
(Explosions)

KUZNETSOV, W. M. Cand Tech Sci -- "Certain problems of the effect of explosion in ground." Novosibirsk, 1961 (Acad Sci USSR. Siberian Department. Inst of Hydrodynamics). (KL, 4-61, 197)

KUZNETSOV, V. M.

Cand Tec Sci, Diss -- "Deoxidizing capacity of aluminum in liquid iron". Moscow, 1961. 12 pp, 21 cm (Inst of Metallurgy imeni A. A. Baykov), 120 copies, Not for sale (KL, No 9, 1961, p 183, No 24349). 61-530147

S/207/62/000/003/007/016 1028/1228

AUTHOR:

Kuznetzov, V. M. (Novosibirsk)

TITLE:

On an explosion at the surface of a plate

PERIODICAL:

Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1962, 40-43

TEXT: The explosion at the surface of a thin plate is analysed mathematically under the assumption that the medium contiguous to the plate is an ideal incompressible liquid (statement of the problem belonging to Lavrent'ev). The following formula is obtained:

$$x_1 = x_0 + 0.4 \ln P/\mu c_0 h$$

(34)

where x_1 = the half-width of the hole made by the explosion, x_0 = the half-width of the charge, h = the thickness of the plate, c_0 = the constant velocity along the solid boundary, μ = the density of the liquid, $P = \int_0^{\tau} p dt$ —the pressure impulse of the charge. This formula is compared with the one obtained by Kuznetzov for the case of an explosion at the surface of a half-space. It is found that the latter gives a faster increase of the hole width with the increase of the charge impulse. There are 3 figures.

SUBMITTED:

January 15, 1962

Card 1/1

39226

17,6000

S/207/62/000/003/009/016 1028/I228

AUTHOR:

Kuznetzov, V. M. and Sher, Ye. N. (Novosibirsk)

TITLE:

Experimental investigation of a directed explosion in the ground

PERIODICAL:

Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1962, 53-58

TEXT: The article describes the results of experimental investigations designed to check the method proposed formerly by the authors and Lavrent'ev for disposing the explosive in the ground in a manner ensuring that the ejected ground is completely directed. Two main dispositions of the explosives were investigated: "triangle" and "layer". In each case, four charges were used, the ratios between them being determined by a general formula; somewhat different empirical ratios were tried in a number of experiments. Thirty-one experiments were performed and almost all explosions were filmed. Results (parameters of the crater and parameters of the ejection) are presented in a general table. It was found that the proposed disposition of the explosives ensures that the ejected ground is completely directed; some variations in the law of disposition are proposed, however, in order to diminish the spread. The layer scheme is recommended as being the most economical in practice. E. P. Gorbacheva and A. V. Petrov are mentioned as having taken part in the investigation. The authors thank M. A. Lavrent'ev for guiding them in the work. There are 16 figures and 1 table.

PRESENTED:

January 3, 1962

Card 1/1

KUZHETSOV, V. M. (Moskva)

Mechanism of self-excitation of a field by a conducting fluid flow. Inzh. shur. 2 no.4:217-226 162. (MIRA 16:1)

(Magnetic fields)

CIA-RDP86-00513R000928210010-8" APPROVED FOR RELEASE: 06/19/2000

ACCESSION NR: AR4022443

s/0058/64/000/001/A039/A039

SOURCE: RZh. Fizika, Abs. 1A352

AUTHOR: Kochegurov, V. A.; Kuznetsov, V. M.; Chuchalin, I. P.

TITLE: Ionic switch for the excitation of the electromagnet of an accelerator with unipolar pulses

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 116-118

TOPIC TAGS: accelerator, accelerator magnet, accelerator magnet pulse supply, ionic rectifier, ionic controlled rectifier, unipolar excitation pulse, pulsed capacitor charging, pulsed capacitor discharge

TRANSLATION: To increase the efficiency of an accelerator with pulsed magnet supply. it is proposed to use current pulses both to charge and to discharge the capacitor bank. The corresponding change

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ACCESSION NR: AR4022443 in the polarity of the windings is effected by means of two pairs of controlled ionic rectifiers, so connected that pulses of the same polarity are excited in the electromagnet winding. Each pulse can be used to accelerate the particles. The energy losses in the circuit are compensated by a rectifier whose polarity also is reversed in synchronism with the reversal of the polarity of the capacitorbank voltage. V. Kanunnikov. ENCL: SUB CODE: PH, SD DATE ACQ: 03Mar64

ACCESSION MR: AR4036328

5/0275/64/000/003/A034/A034

SOURCE: Referativny*y zhurnal. Elektronika i yeye primeneniye, Abs. 3A179

AUTHORS: Kuznetsov, V. M.; Chuchalin, I. P.

TITLE: On the operation of the TR1-85/15 thyratron in the pulsed mode

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 119-121

TOPIC TAGS: thyratron, pulsed thyratron, mercury vapor thyratron, thyratron current overload, thyratron overload limit

TRANSLATION: The vacuum tubes produced by the industry cannot switch currents of several thousand amperes lasting several tenths of a second and more. The most suitable devices for this purpose are mercury-vapor thyratrons, and the present paper is devoted to the

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ACCESSION NR: AR4036328

operation of these tubes in the pulsed mode. The TR 1-85/15 thyratron has the following published specifications: amplitude of direct and inverse voltage 15 kV, maximum value of anode current 300 A, average value < 85 A. The investigations have shown that such a thyratron can withstand considerable overload, the limit of which is determined by the following: (a) the cathode emission current, (b) the dynamic stresses occurring during the passage of the current pulse, and (c) longevity of the cathode in the pulsed mode. Since the area of the oxide cathode of the thyratron TRI-85/15 amounts to ~1400 cm2, and the maximum of emission current density in pulse is 10--50 A/cm², the maximum current from the cathode can reach several dozen kiloamperes. The experiments were carried out at an anode voltage of 3 and 15 A using a special circuit, in which a capacitor bank previously charged by a rectifier was discharged into an inductance through the investigated thyratron. The duration of the current pulses through the thyratron at U = 3 kV was 0.084 sec at a

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ACCESSION NR: AR4036328

repetition frequency of 2 per second. It was tested in this mode up to a maximum of 3000 A. At a 3 kV voltage and a maximum current of 1700 A, no changes were observed in the operation of the thyratrons, which operated stably for 50 hours. The tests of the thyratrons at 1.5 kV and at an anode current pulse duration of 3.5 milliseconds has shown that they can operate stably for a long time (90 hours) at 1200 A and to operate without noticeable changes at 1550 A. With further increase in the current, up to 5100 A, the entire gas space becomes ionized and an intense glow of the thyratron envelope occurs during the time of passage of the current pulse. The mechanical strength of the thyratrons turns out to be sufficient during the overload tests, but it is found that the temperature in the grid region must be monitored, for overheating the grid causes spontaneous ignition of the thyratron. The possibility of operating the TR 1-85/15 thyratrons at current overloads was confirmed by experiment. Bibliography, 7 titles. A. B.

Card 3/43....

Card_ 1/2

s/0207/63/000/003/0084/0090 ACCESSION NO: AP 3002809 AUTHORS: Kuznetsov, V. M. (Novosibirsk); Sher, Ye. N. (Novosibirsk) TITLE: Scaling effect and effect of ground strength in directional blasting Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1963, 84-90 SOURCE: TOPIC TAGS: directional blasting, explosive, blast center formation, chain blasting, blasting energy ABSTRACT: The scaling effect and the effect of ground strength on the directional blasting theory proposed by M. A. Levrent'yev, V. M. Kuznetsov, and Ye. N. Sher (O napravlennom vy*brose grunta pri pomoshchi VV. PMTF, 1960, No. 4) were investigated. The nondimensionalized parameters normally considered are = const (where J = impulse of explosive, ρ = density of ground, 1 = characteristic length, E = energy of explosive). It has been found that in practice (where μ = depends on ground this parameter should be modified to

ACCESSION NO: AP3002809

properties and amount of explosive, n = varies between 3.5-7). Experimentally it was found that increasing the scale of an explosion decreased the relative amount of earth thrown out. During experiments performed in granite it was found that in the case of multiple charges placed around a perimeter the direction of the ground scatter depends upon the order in which the charges are released (ground is thrown towards the charges which were set off first). It was found that this behavior could be used to decrease the amount of explosive needed to move a certain amount of earth. A theoretical estimate was performed, and it was found that for the same effect the ratio of energy required with simultaneous explosion and chain explosion is E'/E" = 1.69, i.e., chain explosion requires almost 70% less explosive. Orig.

ASSOCIATION: Institut gidrodinamiki SO AN SSSR (Hydrodynamics Institute SO AN SSSR, in collaboration with trust "Soyuzvzry*vprom")

SUBMITTED: 16Jan63

DATE ACQ: 16Jul63

ENCL: 00

SUB CODE: AR

NO REF SOV: 006

OTHER: 000

Card 2/2

KUZNETSOV, V.M., kand. tekhn. nauk; SHER, Ye.N. Controlled blasting in soil. Vsryv. delo no.51/8:22-39 163. (MIRA 16:6) (Blasting) $\mathbf{n}_{i} : i \in \mathbb{R}$

ACCESSION NR: AP4034273

AUTHORS: Kuznetsov, V. M. (Hovosibirsk); Sher, Ye. H. (Novosibirsk)

TITLE: Flow stability of an ideal incompressible fluid in a strip and in a ring

SOURCE: Zhurnal prikladnoy mekhaniki 1 tekhnicheskoy fiziki, no. 2, 1964, 66-73

SOURCE: Incompressible fluid flow, flow stability, ideal incompressible fluid, metal deformation, impulse load, initial state, constant pressure

ABSTRACT: The authors seek a solution for the Laplace equation $\varphi_{xx} + \varphi_{yy} = 0 \qquad (1)$ (the lower indices denote differentiation) in the region bounded by the curve $y = \gamma(x,t)$ under the initial condition $\varphi(x,y,0) = \varphi(x,y) \qquad (2)$ and boundary conditions for $y = \gamma(x,t)$ $\varphi_t + \frac{1}{2}(\varphi_x^2 + \varphi_y^2) + \frac{p}{D} = f(t) \qquad (3)$ $\varphi_z \eta_x - \varphi_y + \eta_t = 0 \qquad (4)$

ACCESSION NR: AP4034273

where D is the fluid density. Perturbations of arbitrary form can be expanded into a Fourier series so that there are, generally speaking, infinitely many harmonics of various types. The flow of a strip of ideal incompressible fluid with initial linear velocity field is stable relative to symmetric (unstable relative to antisymmetric) harmonic perturbations of the boundaries. Thus, in the general case, the flow of a strip with given initial velocity field is unstable. However, this instability is quite weak, since the introduction of surface tension stabilizes the flow. An analogous assertion is true for the case of a thin ring spread by inertia. Uniformly accelerated motion of a strip of ideal incompressible fluid is unstable, and the shorter the wave length, the stronger the instability. Among the unstable harmonics can be found the harmonic with maximal instability, and the introduction of surface tension and the consideration of elastic forces here make it possible to separate the stable and unstable harmonics. Orig. art. has: 80 formulas and 1 graph.

ASSOCIATION: none

SUBMITTED: 150ot63

DATE ACQ: 15May64

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SUB CODE: AI

NO REF SOV: 001

OTHER: 000

Card 2/2

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ACCESSION NR: APLOLI187

5/0207/64/000/003/0003/0008

AUTHOR: Kuznetsov, V. M. (Novosibirsk)

TITLE: Stationary propagation of a system of cracks in elastic brittle material

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1964, 3-8

TOPIC TAGS: crack propagation, elastic brittle material, stationary propagation, normal stress, tangent stress, stress tensor, displacement vector, Lame constant

ABSTRACT: The author generalizes results of I. W. Craggs (On the propagation of a crack in an elastic-brittle material. J. Mech. Phys. Solids, 1960, 8, 66-75) which were concerned with stationary propagation of one semi-infinite crack on whose surface normal and tangent stresses were symmetrically applied. The present author studies the case of an infinitely large number of cracks under the assumption that there are no tangent stresses on the surface of the crack. The physical meaning of the two types of crack development is as follows. The rate of stationary propagation of one crack increases as the pressure decreases. Thus if a crack originates and propagates in the material under the influence of certain loads, it may continue to advance even after the load is removed. In the case of a large

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	between cracks	s, this situation is not always possible. With lar each crack develops like a single one. If the creeach crack is affected in an essential way by the coff the crack is restrained in a way by the compression.	ther cracks.

acting from the neighboring clacks. With a sufficiently small distance between cracks there exists a limiting propagation rate as P > 00 (P is exterior force) which is smaller in magnitude than or equal to the Rayleigh. Orig. art. has: 41

formulas and 3 figures.

ASSOCIATION: none

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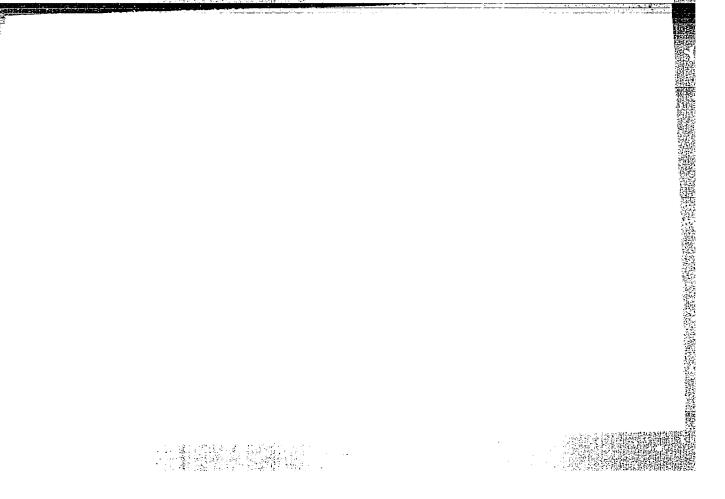
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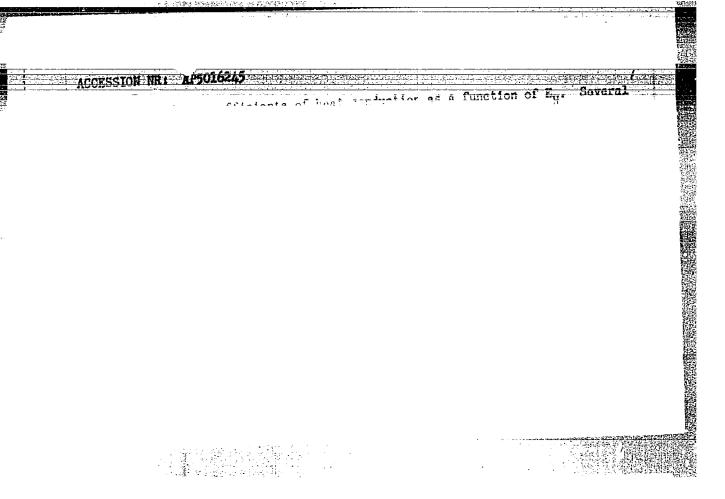
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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210010-8

ABSTRACT: The author studies the problem of obtaining kinetic coefficients for a nonequilibrium model of a bi-stomic gas with internal excitation. It is considered freedom in the case of so-called dual-temperature relaxation. It is considered freedom in the case of so-called dual-temperature relaxation ordinary elastic



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1, 15519-63 EPR/EPA(b)/EvT(1)/EDS A22 8/0258/63/003	/002/0236/0245
ACCESSION NR: AP3000713	69.
AUTHORS: Gulyayov, A. I.; Kuznetsov, V. M. (Moscow)	60
TITLE: Oscillations of gas in closes	
SOURCE: Inzhenerny'y zhurnal, v. 3, no. 2, 1963, 236-245	on
ABSTRACT: An experimental study has been made to determine the tion in the large amplitude, nonlinear oscillations of a column tion in the large amplitude, nonlinear oscillations at re resonant frequencies. It is noticed that the oscillations at re generate a series of unpredicted effects, such as stationary vor generate a series of unpredicted effects, such as stationary vor lence, indicating a change in the magnitude of the pressure jump to the unequal shock energy dissipation in directions normal and tube axis. An energy balance is made in which the governing distube axis. An energy balance is made in which the shock wave and isms have been shown to be the energy loss in the shock wave and layer. "The author expresses his gratitude to P. L. Kapitsy* unlike the control of the pressure is made in the shock wave and layer. "The author expresses his gratitude to P. L. Kapitsy* unlike the control of the pressure is made in the shock wave and layer. "The author expresses his gratitude to P. L. Kapitsy* unlike the control of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicating a change in the magnitude of the pressure jump lence, indicatin	of gas at sonant frequencies tices and turbu- due, possibly, parallel to the sipative mechan-
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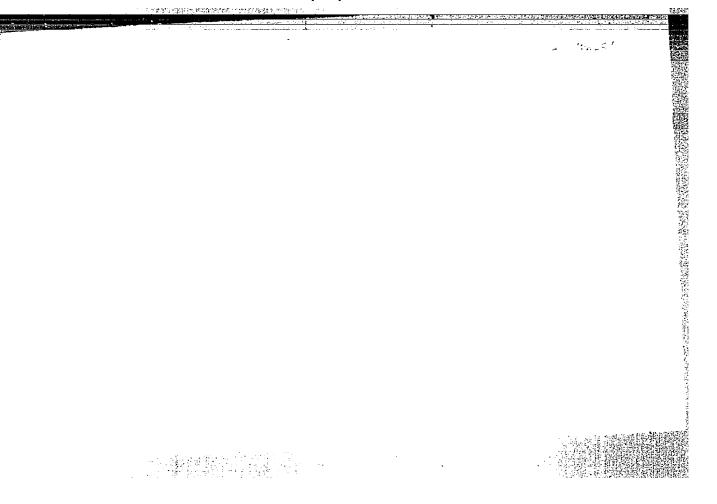
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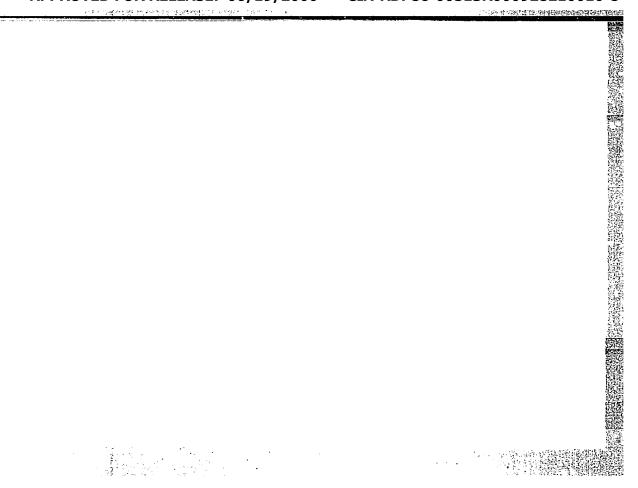
this work was done and to L. P. Gor'kov for his valuable advice. Thanks are also given to P. V. Cheby*shev for his help in the hot-wire anemometry techniques."
Orig. art. has: 19 equations and 5 figures.

ASSOCIATION: none

SUBMITTED: 09Ju162 DATE ACQ: 21Jun63 ENCL: 00

SUB CODE: AI NO, REF SOV: 004 OTHER: 006





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1. 2628-66 ENT(1)/ENP(m)/ENT(m)/ENF(c)/EWD(1)/ECS(k)/EWA(c)/ETA AP5026680 UR/025	8/65/003/003/0030/0030
AUTHOR: Kuznetsov, V. M. (Moscow)	53 B
ORG: none	detunes with binary
ORG: none TITLE: Dissipative coefficients in highly nonequilibrium gas n	HXCutes "Land
AA) 11 B 1 (1) (1)	
BOURCE: Inzhenernyy zhurnal, v. 5, no. 5, 1965, 830-843	7. q. 7
TOPIC TAGS: high temperature gas, dissociated gas, violation flow, degree of freedom, hypersonic flow, Boltzmann equation ABSTRACT: The nonequilibrium process of two-temperature relax A gas model which deals only with vibrations in addition to the freedom is considered. This choice is linked to the possibility of the fact that the laws of molecular Boltzmann equation and to the fact that the laws of molecular boltzmann equations in the second se	ation is investigated. e translational defices of ty of using the classi- lar collisions at var- le presence of other
cal Boltzmann equation and to the later than collisions in the ious vibrational levels are better known than collisions in the ious vibrational levels are better known than collisions in the ious vibration. The second approximation to the solution degrees of freedom. The second approximation for the is analyzed in detail in order to obtain expressions for the is analyzed in detail in order to obtain expressions for the is analyzed in detail in order to obtain expressions for the is analyzed are two-temperature relaxation. The results of the analysis are two-temperatures. It is stated that the main difficulty is binary gas mixtures. It is stated that the main difficulty is tive coefficients is that the quantum mechanical collision or	ivity) in the case of applied to the case of
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should be calc the diffusion,	all degrees of freedom lex; thus; the value of ulated on a computer. thermodiffusion, viscos, though λ_k depends on use in which the resonato vibrational degrees	It is shown that consity, and heat content to the extent	nductivity at	re the same ers from the	as in quasi- bscript
63 formulas.	/ BUBM DATE: 020ct64/	ORIG REF! 006/	OTH REF!	13/ ATD PRE	8814124
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SOKOLOVA, K.D.; KUZNETSOV, V.M.; TIKHOMIROVA, V.I.

Introducing cyanide cadmium plating using asymmetric current.

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inform.18 no.9:12-13 S 165. (MIRA 18:10)

EVT(1)/EVP(m)/FCS(k) UR/0020/65/164/006/1249/1252 SOURCE CODE: L 4120-66 AP5027218 ACC NR. AUTHOR: Yegorov, B. V.; Zhigulev, V. N.; Kuznetsov, V. M. ORG: Central Institute of Aerohydrodynamics im. N. Ye. Zhukovskiy (Tsentral'nyy aerogidrodinamicheskiy institut) TITLE: On equations of aerodynamics in the presence of binary molecular processes SOURCE: AN SSSR. Doklady, v. 164, no. 6, 1965, 1249-1252 TOPIC TAGS: aerodynamics, gas kinetic equation, degree of freedom, gas relaxation, vibration relaxation, heat transfer, heat diffusion, thermal diffusion, gas viscosity ADSTRACT: Processes taking place in gas flows with excited internal degrees of freedom are considered. The various methods and results obtained by different authors for solving hydrodynamic equations on the basis of the kinetic theory of gases are analyzed and discussed. A specific case called "two-temperature" relaxation is considered when $1_t \sim 1_t << 1_{tt} \sim 1$, where 1_t and 1_t are the lengths required to establish equilibrium in translational and internal degrees of freedom, respectively, 1_{tt} is the length of relaxation region, and L is the characteristic dimension of a body. Expressions for the dissipative coefficients (viscosity, diffusion, and thermal diffusion) are derived, and the influence of the resonance transitions on heat conductivity is evaluated. The results obtained for θ_2 , N_2 , Cl_2 , and I_2 show the strong influence of nonequilibrium on the magnitude of the heat flux. Orig. art. has: 2 figures.

KUZNETSOV, V. M., Cand Tech Sci -- (diss) "Separation of helium (He3-He4) isotopes by fractionation and thermo-osmosis." Mos, 1957. 9 pp (Acad Sci USSR, Inst of Physical Problems im S. I. Vavilov), 130 copies. Bibliography: p 9 (19 titles) (KL, 1-58, 118)

- 56 **-**

_ Low_Temperature Physics TSCU/ Physics . Ref Zhur - Fizika, No 1, 1958, 788 Institute of Physics Problems, Academy of Sciences, USSR Separation of Helium Isotopes by Rectification and Thermo-Kuznetsov, V.Me Abs Jour . Zh. eksperim. i teor. fiziki, 1957, 32, No 5, 1001-1011 Author The author analyzes the fundamental characteristics of the processes of rectification of mixtures of He He and their me author analyzes the fundamental characteristics of the processes of rectification of mixtures of He frect.

processes of rectification of the thermomechanical effect. Inst processes of rectification of mixtures of He He and the thermomechanical effect and of the thermomechanical effect of the macking continued with the aid of the thermomechanical of the macking continued thermomenance of the macking continued to the mackin enrichment with the aid of the thermomechanical effect of the packing of the pack Title (thermo-osmosis). The effectiveness of the packing co-lumn is experimentally determined for various pressures. In a non-extractive mode. lumn is experimentally determined for various pressures node.

and velocities of the vapor in a non-extractive mode, the height of unit transfer on the Revno dependence of the height of unit transfer. or" Pub and velocities of the vapor in a non-extractive mode. The Reynolds dependence of the height of unit transfer on the than dependence of the vapor) turns out to be stronger than number (both for vapor) dependence of the neight of unit transfer on the than number (both for vapor) turns out to be stronger than Abstract card 1/4

.USSR/Atomic and Molecular Physics - Low-Temperature Physics

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Abs Jour : Ref Zhur - Fizika, No 1, 1958, 788

expected, this apparently being due to the deterioration in the distribution of the liquid over the packing at low thermal loads of the column. As the pressure is reduced (for constant Reynolds number) the effectiveness of the column increases. Under the experimental conditions, a relation that agrees with experiment has been obtained for the connection between the height of the transfer unit and the parameter β , that characterizes the effectiveness of the column in the equations derived by V.P. Peshkov (Referat Zhur Fizika, 1956, No 12, 34428). The determination of the velocity of the vapor, causing percolation (U) leads to a dependence of U and g / g_{ℓ} (g — is the vapor density, and Se - is the liquid density), close to the theoretical expression for a film column (Kapitza P.L., Zh. eksperim i teor fiziki, 1948, 18, 3, 19). Also determined is the retaining ability of the packing for various loads in non-extracting operation. In experiments on thermo-

Card 2/3

D-5 UBSR/Atomic and Molecular Physics - Low-Temperature Physics : Ref Zhur - Fizika, No 1, 1958, 788 -Osmosis, a filter of the same type as in the work by Peshkov (Referat Zhur Fizika, 1957, No 2, 3526) was used. The greater the temperature drop on the ends of the filter, Abs Jour the higher its output (for a constant solution concentrate) tion). As the concentration as increased, the output distribute.

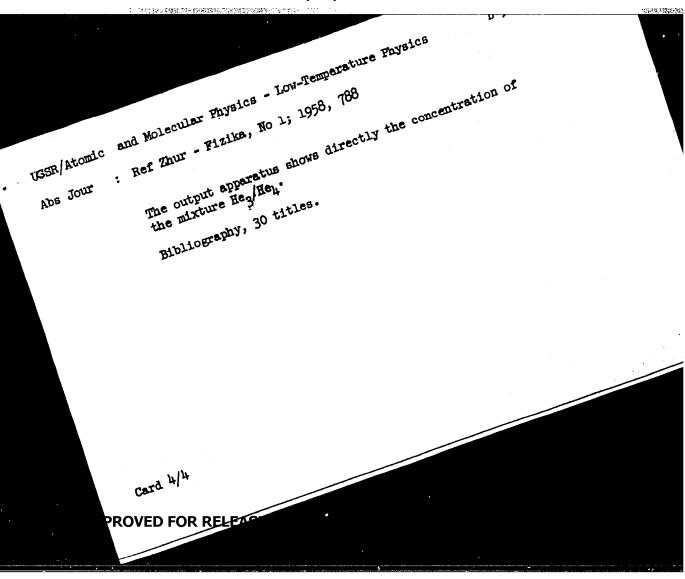
The tion is increased, the concentration as increased, the months and the annihilation of the months and minishes, and therefore the application of thermo-osmosis for the enrichment of solutions with concentrations 74 one currented of solutions when condenses of thermo-osmosis.

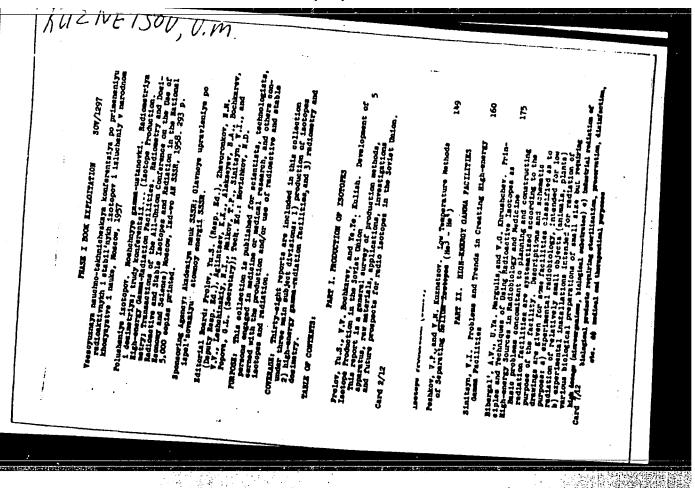
and rectification makes it possible to obtain Wall of the solution of the solution was at possible to obtain Wall of the solution was at possible to obtain Wall of the solution was at possible to obtain Wall of the solution was at possible to obtain Wall of the solution was at possible to obtain Wall of the solution was at possible to obtain Wall of the solution was at possible to obtain Wall of the solution was at possible to obtain which was a solution of the solution was at possible to obtain the solution of the solution was at possible to obtain the solution of and rectification makes it possible to obtain He3 of high and recullication makes it possible to obtain as of may reach the orpurity. With this, the extraction rate may reach the order of saveral normal liters of Hall her hour, and the purity. With this, the extraction rate may reach the der of several normal liters of HeJ per hour, and the amount of uncompleted product does not exceed 200 -- 300 amount or uncompleted product does not exceed and normal cm 3 of He 3. Also considered is a circuit of a double-beam mass-spectrometric gas analyzer for continuous analysis of mixtures with concentration 0.2 99.8% He3. The instrument operates with pulsating ion yy.op ne . The limstrument operates with pursaving 101 ± 5%. current. The relative accuracy of the analysis is ± 5%. Card 3/4

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L 10843-67 EWP(m)/EWT(1) WW

ARG034730 (A) SOURCE CODE: UR/0124/66/000/008/V039/V039

AUTHOR: Kuznetsov, V. M.

TITLE: Effect of initial disturbances on the process of destruction by explosion

SOURCE: Ref. zh. Mekhanika, Abs. 8V289

REF SOURCE: Tr. V Sessii Uch. soveta po narodnokhoz. ispol'z. vzryva. Frunze, Ilim, 1965, 67-73

TOPIC TAGS: explosion, incompressible fluid, destruction, disturbance

ABSTRACT: Theoretical and experimental investigation is made of the effect of initial disturbances on the destruction process of an explosion. In experimental investigations with the aid of x-ray photography, analysis was made of the effect of an external cylindrical groove on a copper ring filled from within with an explosive material (depth of groove is equal to half the thickness of the ring). During the tests, it was noted that "the initial disturbance of the shape of the sample has no significant effect on the nature of destruction." In theoretical calculations, the problem is examined for the motion of an ideal incompressible fluid, filling an infinite band symmetrical to one of the axes of the coordinates for given velocities

Card 1/2

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ACC NR: AP6008061 SOURCE CODE: UR/0207/66/000/001/0124/0126

AUTHOR: Kuznetsov, V. M. (Novosibirsk); Lugovtsov, B. A. (Novosibirsk); Sher, Ye. I.

ORG: none

TITLE: The motion of gas bubbles in a fluid affected by a temperature gradient

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 1, 1966, 124-126

TOPIC TAGS: temperature dependence, gas bubble, gas mechanics, viscous fluid, tempera-

ABSTRACT: The authors investigate the motion of a gas bubble which is due to the action of surface tension in a weightless viscous fluid with a temperature gradient. A theory is proposed for the steady-state motion of a bubble in a field with a constant temperature gradient in the case of small Reynolds numbers. The experimental results presented agree qualitatively with the theory. It is noted that in view of the difficulties due to the presence of gravity, which caused convective motion of the liquid and the emersion of the bubbles, the experiment is qualitative in nature. The results of the experiment are given in a figure. The bubble at rest started moving 5-6 sec after heating began, and, expanding as a result of vaporization, moved toward the higher temperature. Thus, the experiment agrees with the theory. The editor remarks in a footnote that prior to publication of this article, the

Card 1/2

rticle for the pr The authors than	became aware of abbles in a verti- editor was unab- esent authors to	le for technical rea	Young, L. S. Goldstein, andient. J. of Fluid mechanisons to hold up the publication of the work of the problem and constants.	cs, 1959, vol.
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KUZNETSOV, V. M.

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Flora Stapey Selenginskogo Rayona. (Buryatmongol. ASSR). Trudy Glav. B otan Sada, T. 1, 1949, s. 99-106.- bibliogr:14 Mazvi

SO: Letopis'Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

38041. KUZNETSOV, V. M.

Altayskaya ekspeditsiya Gladnogo botaniche-skogo sada Akademii nauk SSSR. [1948 g) Byulleten' Glav. botan sada, vyp. 4, 1949, s. 34-38

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KUZNETSOV, V. M.			-	
Grasses				
Significance of trans-Baikal bistort as feed., Korm. baz	a, 2,	no.	12,	1951.
9. Monthly List of Russian Accessions, Library of Congress, Ma	y	19 5 3/, 52	Uncl.	
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KUZNETSOV, V.M.

Cultivation of Polygonum divaricatum L. Biul. Glav. bot. sada no. 14:62-67 152. (MIRA 6:5)

1. Glavnyy botanicheskiy sad Akademii Nauk SSSR.

(Polygonacae)

KUZHETSOV, V.M.

Significance of the ecological-historical method in the study of wild plants for purposes of introducing them to cultivation. Biul.Glav.bot. sada no.20:24-29 155. (MIRA 8:9)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR. (Plant introduction)

KUZHETSOV. Vasiliy Mikhaylovich; KUL'TIASOV, M.V. professor, otvetstvennyy redaktor; BOQDANOV, A.I., redaktor isdatel'stva; HOVIKOVA, S.G., tekhnicheskiy redaktor.

[Transbaikal Knotweed and prospects for introducing it into cultivation]
Gorets sabaikal skii i perspektivy ego vvedeniia v kul'turu. Moskva,
Isd-vo Akad.nauk SSSR, 1957. 90 p. (MIRA 10:5)
(Transbaikalia---Knotweed)

30(1) AUTHOR: Kuznetsov, V. M., Candidate of

SOV/30-58-12-8/46

The state of the s

Biological Sciences

TITLE:

Fodder and Tannin Plant of High Value (Tsennoye kormovoye

i dubil'noye rasteniye)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 12, pp 36-37 (USSR)

ABSTRACT:

The Transbaykalskiy snaka-seed plant (gorets zabaykaliskiy) (Polygonum divaricatum L.) is a perennial gramineous plant from the family of buckwheat. Its overground part is a succulent fodder for cattle, its root containing tannins, and its grains, which are similar to those of buckwheat, can be used as fodder for poultry. Silo-fodder from snake-weed is liked by horned cattle and sheep. As became evident from analyses made by the Tsentral'nyy nauchno-issledovatel'skiy institut kozhevennoy promyshlennosti (Central Scientific Research Institute of Leather Industry) this plant excels all wood and grass kinds used up to now in the content of tannin, the preparation costs of this tannin being much lower than those of the tannin obtained from the barks of oaks, firs or willows. Experiments with the introduction of this plant have been carried out since 1939 in the Kolkhoz im. A. A.

Card 1/2

Fodder and Tannin Plant of High Value

Zhdanov of the Buryatskaya ASSR and in the territory of the Glavnyy botanicheskiy sad Akademii nauk SSSR v Moskve (Central Botanic Gardens of the AS USSR in Moscow) and others. It is recommended to grow this plant in the zone of coniferous and mixed forests. At present the cultivation of snake-weed is carried out in the botanic gardens "Snegiri" and its fodder value is being examined. In the agriculture of the Shumerlinskiy zavod dubil nykh ekstraktov Chuvashskoy ASSR (The Shumerlya Tannin Extraction Plant of the Chuvashskaya ASSR) the profitableness of its application in mass production under factory conditions is being investigated.

Card 2/2

CIA-RDP86-00513R000928210010 APPROVED FOR RELEASE: 06/19/2000

KUZNETSOV, V. M.: Doc Agric Sci (diss) -- "Transbaykal bistort and the outlook for introducing it into cultivation". Moscow, 1959, published by the Acad Sci USSR. 26 pp (Leningrad Agric Inst, Main Botanical Garden, Acad Sci USSR), 185 copies (KL, No 13, 1959, 108)

KUZNETSOV, V.M.

Zonal experiments in studying problems of plant introduction. Biul. Glav. bot. anda no.34:29-31 159. (MIRA 13:3)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR. (Plant introduction)

VOROSHILOV, V.M.; DAYEVA, O.V.; YEVTYUKHOVA, M.A.; YEGOROVA, Ye.M.;
KUZNETSOV, V.M.; KUL'TIASOV, M.V.; MEKRASOV, A.A.; SUROVA,
V.P.; TARASOVA, T.L. Prinimali uchastiye BELOVAYA, Yu.N.;
KHRYCHEVA, G.P.; TSITSIN, N.V., akademik, otv. red.;
ASTROV, A.V., red. izd-va; LAUT, V.G., tekhn.red.

[Native plants of the U.S.S.R.; brief summary of introduction work in the Main Botanical Garden of the Academy of Sciences of the U.S.S.R.] Rasteniia prirodnoi flory SSSR; kratkie itogi introduktsii v Glavnom botanicheskom sadu Akademii nauk SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1961. 359 p. (MIRA 15:3)

1. Moscow. Glavnyy botanicheskiy sad.
(Plant introduction) (Moscow-Botanical gardens)