PROCESSING DATE--- 20NOV70 UNCLASSIFIED 2/2 0.42 CIRC ACCESSION NO--APOL12439 ABSTRACT/EXTRACT--(U) GP-C- ABSTRACT. EXPERIMENTAL INVESTIGATION OF THE TURBULENT DIFFUSION COEFFICIENTS AND THE TIME DEPENDENT SCALE OF TURBULENT VELOCITY PULSATIONS IN TURBULENT AIR FLOWS OF VARIOUS TYPE. SPECIFICALLY INVESTIGATED IS THE RELATION BETWEEN THE EULERIAN AND LAGRANGIAN TURBULENCE CHARACTERISTICS. THE LAGRANGIAN CHARACTERISTICS WERE DETERMINED FROM THERMAL DIFFUSION MEASUREMENTS BEHIND A HOT WIRE, WHILE THE EULERIAN CHARACTERISTICS WERE DETERMINED FROM HOT WIRE THE RELATIONS OBTAINED FOR THE VARIOUS FLOWS ANEMOMETER MEASUREMENTS . ARE ANALYZED AS TO THEIR VALIDITY AND GENERALITY FOR CALCULATING TURBULENT DIFFUSION COEFFICIENTS ON THE BASIS TURBULENCE SCALES DETERMINED IN AN EULERIAN SYSTEM OF COORDINATES.

1/2 036

UNCLASSIFIED

PROCESSING DATE--04DEC70

TITLE--EXPANSION OF A PLANE TURBULENT JET FROM A LINEAR SOURCE POSITIONED AT THE APEX OF A WEDGE -U-

AUTHOR -- SEKUNDOY, A.N.

COUNTRY OF INFO--USSR

SOURCE-INZHENERNO-FIZICHESKII ZHURNAL, VOL. 18, MAY 1970, P. 919-923. 5

REFS

DATE PUBLISHED-----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--TURBULENT FLOW, JET FLOW

CONTROL MARKING--NO RESTRICTIONS

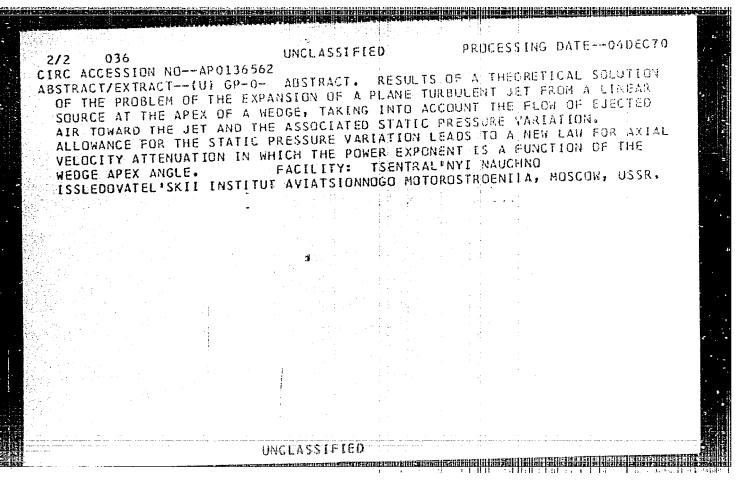
PROXY REEL/FRAME--3007/1142

STEP NO--UR/0170/70/018/000/0919/0923

CIRC ACCESSION NO--APOL35562-

INCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"



USSR

UDC: 532.525.2

ABRAMOVICH, G. N., KUZ'MICH, V. P., SEKUNDOV, A. N., SMIRNOVA, I. P., MOSCOW

"Experimental and Theoretical Study of a Supersonic Jet Near a Wall in an Accompanying Supersonic Flow"

Moscow, Izv. AN SSSR: Mekhanika Zhidkosti i Gaza, No 4, Jul/Aug 72, pp 25-32

Abstract: Experiments were done in a supersonic (M=2-h) continuous action wind tunnel. A flat jet was blown in along a plate located in the middle of the working section of the tunnel through a specially shaped nozzle with an output section 2 mm high and a throat 0.8-0.9 mm high. The end of the nozzle was 80 mm away from the sharpened leading edge of the plate. The plate was 200 mm wide and h00 mm long. Two modes of flow were considered. The Mach number in the initial section of the jet for both modes was $M_1=2.18$. The Mach number of the accompanying flow, the static pressure in the working section of the tunnel, and the Reynolds number determined with respect to the height of the nozzle and the oncoming flow parameters were respectively: $M_2=2.7$, p=38.6 mb,

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

USSR

ABRAMOVICH, G. N. et al., Izv. AN SSSR: Mekhanika Zhidkosti i Gaza, No 4, Jul/Aug 72, pp 25-32

Re = 15 500 for the first mode, and M_2 = 3.8, p = 18.1 mb, Re = 17 800 for the second mode. The stagnation temperature in the jet and the accompanying flow was about 300°K. The velocity distribution was determined with respect to the fields of dynamic pressures found by means of an ordinary gauge with transverse dimension of 0.35 mm. Vent holes were used for measuring the static pressure on the plate. The concentration in the supersonic flow was measured by a method based on determining the thermal conductivity of the mixture flowing through the gauge as a function of concentration. Non-self-similar isobaric flow was numerically calculated in the boundary layer approximation using the equation for turbulent viscosity as the closure relation. A comparison of the experimental and theoretical results showed that the proposed analytical method is applicable to description of turbulent compressed flows.

2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

1/2 009

UNCLASSIFIED

PROCESSING DATE--230CT70

TITLE--OXIDATIVE DEHYDROGENATION OF LOW MOLECULAR WEIGHT OLEFINS ON TIN ANTIMONY OXIDE CATALYSTS -U-

AUTHOR-(04)-SEKUSHOVA, KH.Z., VARTANOV, A.A., ALKHAZOV, Y.G., BELENKIY,

COUNTRY OF INFO-USSR

SOURCE--IZV. VYSSH. UCHEB. ZAVED., KHIM. KHIM. TEKHNOL. 1970, 13(1), 102-6

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--DEHYDROGENATION, CATALYST ACTIVITY, ANTIMONY COMPOUND, TIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/1019

STEP NO--UR/0153/70/013/001/0102/0106

CIRC ACCESSION NO--ATOL19886

UNCLASSIFIED _____

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

2/2 009 CIRC ACCESSION NO--ATO119886 UNCLASSIFIED PROCESSING DATE-230CTTG ABSTRACT/EXTRACT--(U) GP-0-SN-SB OXIDE CATALYSTS COVERING THE COMPLETE COMPN. RANGE, FOR THE ABSTRACT. STUDIES OF THE ACTIVITY OF 13 OXIDATIVE DEHYDROGENATION, DEEP SEATED OXIDN., AND ISOMERIZATION OF C SUB4-5 OLEFIN MIXTS. IN PULSE AND FLOW SYSTEMS AT 350-450DEGREES. INDICATE THAT ACTIVITY IS PROPORTIONAL TO SP. SURFACE OF CATALYSTS. AND THAT MAX. ACTIVITY IS NOTED FOR CATALYSTS WITH 4=1 OR 9=1 ATOM RATION SN-SB. LITTLE ACTIVITY IS SHOWN BY SNO SUBZ, AND LESS BY SB SUBZ O SUB4. THE CATALYSTS ARE PREPD. BY MIXING NITRATE SOLNS., SEPG. AND DRYING THE PPT., AND CALCINING 16 HR AT 850 DEGREES. SP. SURFACE AREAS RANGED FROM 0.9-27.2 M PRIMEZ PER G. THE ACTIVE CATALYST IS SN-SB SOMPD., WHICH IS AMORPHOUS TO X RAY EXAMN. INST. NEFTI KHIM. IM. AZIZBEKOVA, BAKU, USSR. FACILITY: AZERB. UNCLASSIFIED

USSR

UDC 681.3.06:51

GLUSHKOV, V. M., KOSTYRKO, V. F., LETICHEVSKIY, A. A., ANUFRIYEV, F. V.,

"A Language for Recording Formal Theories"

Teor. Kibernetiki. vyp. 3 [Theory of Cybernetics, No 3 -- Collection of Works], Kiev, 1970, pp 4-31, (Translated from Referativnyy Zhurnal, Kibernetika, No 6, 1971, Abstract No 6 V591 by V. Mikheyev).

Translation: A version is suggested of the first portion of a formal language, YaP for recording of mathematical theorems and their proofs -- language YaT for recording of formal theories. It is noted that the second portion of the YaP language -- language YaA for recording of algorithms for transformation of numerical and non-numerical information -- will be presented in a later article. YaT includes means taken from the language of narrow predicate calculus with equalities and functional variables, a language of expanded calculus, the language of set theory, as well as certain special devices. The syntax of the language, structure of the formalized mathematical text, symbols representing subjects, objects and structural functions are described in detail. The rules for usage

USSR

UDC 621.365.82

FUCNIN, V. I., SEL'DIMIROV. I. M., SENYUTOVICH, E. G., and TEKUCHEV, A. N.

"A Study of the Effect of Xenon on the Size of the Population Inversion of Oscillatory Levels of the ${\rm CO_2}$ Molecule in a Discharge in a Mixture of ${\rm CO_2}$ + He + Xe"

Tr. Ryazan. Radiotekhn, in-ta (Proceedings of the Ryazan' Radiotechnical Institute), No 37, 1972, pp 69-77 RZh-Fizika, No 9, Sep 73, Abstract No 9D752

Translation: The effect of adding Xe on the amplification of a CO2 gas discharge laser was studied. The degree of amplification was recorded as a function of the quantity of Xe and the electrical characteristics of the discharge. It is suggested that the effect of Xe on the population inversion occurs through the change of the electrical characteristics of the discharge: the temperatures and concentrations of electrons. Eight bibliographic citations.

1/1

USSR

UDC 681.142.37:61

ANTONOVA, N. G., IVANOVSKAYA, G. A., NADENENKO, V. K., SEL'DIMIROVA, Ye. M. and CHERNYAVSKIY, V. S. Fourth Clinical Hospital

"Processing Medical Information With the "Minsk-22M" Computer and "Blank-P" Automatic Counting System"

Minsk, Zdravookhraneniye Belorussii, No 6, 1970, pp 62-66

Abstract: Machine storage of medical information and the use of a ready retrieval system were discussed. In addition, a form No 266-M, divided into 60 zones and 490 cells, capable of deciphering 999 pertinent medical problems was added. After detailed presentation of the workings of the "Minsk-22M" computer in conjunction with these blanks, it was concluded that: Machine processing of medical information with the aid of formal documents improves the quality of book-keeping, insures veracity of the data, improves accountability by compiling additional summaries and indicators, and standardizes the discrepancies in diagnoses and thereapeutic processes for all medical personnel. In addition, computer processing improves the organization of the initial documentation, perfects the organization of work for accounting personnel and other institutional personnel by freeing them from search and grouping operations, substantially increases the productivity of statisticians, and increases the quality and efficiency of management of a medical establishment.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

1/3 011 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--&CULDER OF DIAMOND BEARING ECLOGITE FROM THE MIR KIMBERLITE PIPE

AUTHUR-(04)-MIKHEYENKO, V.I., VLADIMIROV, B.N., NENASHEV, N.I., SELDISHEVA, YE.B.

COUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSSR 1970, 190(6), 1440-3

DATE PUEL ISHED----70

SUBJECT AREAS-EARTH SCIENCES AND OCEANOGRAPHY

TCPIC TAGS-DIAMOND, GEOCHEMISTRY

CUNTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/0274

STEP NO--UR/0020/70/190/006/1440/1443

CIRC ACCESSION NO--ATO108576

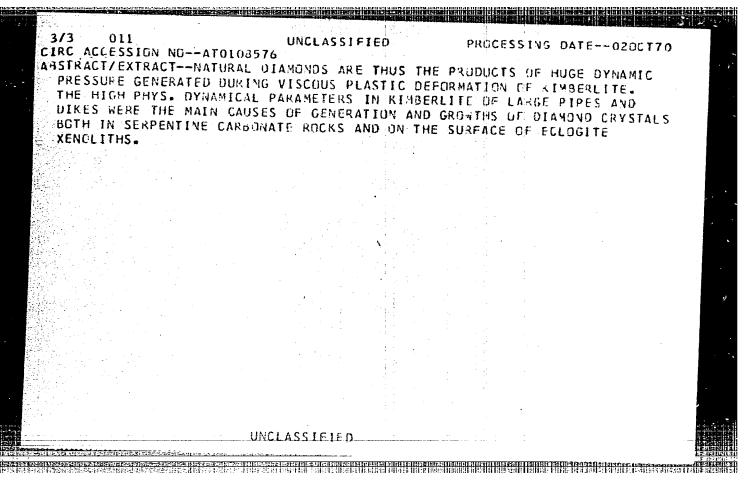
UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

PROCESSING DATE--020CT70 UNCLASSIFIED 011 CLRC ACCESSION NO--ATO103576 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE 1ST LARGE XENOLITH OF DIAMOND BEARING ECLOGITE WAS FOUND IN 1967. IT HAD THE FORM OF TYPICAL BOULDER 15 TIMES 10 TIMES 6 CM. FIVE DIAMONS, 1-3 MM LONG, WERE FOUND ON ITS SURFACE, THE 6TH DIAMOND, 13 MM LONG, WAS FOUND IN THE WALL OF AN OPEN FRACTURE, AND THE 7TH, WEIGHING 8 MG, WAS FOUND IN THE ECLOGITE PROTRUSION. THE ECLOGITE FROM THE MIR PIPE CONSISTED OF FRESH GARNET AND ALTERED PYROXENE. THE ROCK HAD PORPHYROBLASTIC TEXTURE, D. 3-20, AND CONTAINED: SIO SUB2 40.50, TIO SUB2 0.96, AL SUB2 O SUB3 10.47, FE SUB2 0 SUB3 2.86, FE0 10.45, MN 0.014, MGD 9.95, CAO 10.35, NA SUB2 0 1.32. K SUB2 O 0.89. H SUB2 O PLUS 2.84. H SUB2 O MINUS 0.30, P SUB2 O SUB5 0.27, CR SUB2 0 SUB3 0.41, NID 0.024, AND S 0.32 PERCENT. THE DIAMONDS ON ECLOGITE XENOLITHS WERE XENDCRYSTALS AND THEIR APPEARANCE IN KIMBERLITE WAS CONTROLLED TO A LARGE DEGREE BY THE SIZE AND SHAPE OF KIMBERLITE BODY. THE SERPENTINE CARBONATE COMPN. OF KIMBERLITE, THE COMPLETE ABSENCE OF MAGMATIC EFFECT ON THE NEAR CONTRACT ROCKS, AND XENGLITHS WITH ORG. BITUMENS PRESERVED WITHOUT ALTERATION, INDICATE THAT THERMAL ENERGY WAS NOT A FACTUR CONTROLLING FORMATION OF THESE DIAMONDS. THE EFFECTS OF POWERFUL MECH- ENERGY, DURING FORMATION OF PIPE, WERE OBSD. IN KIMBERLITE. THE CRYSTAL STRUCTURE OF MINERALS PROBABLY CAN DISINTEGRATE TO AMORPHOUS AND IONIZED STATE OF SUBSTANCE UNDER EFFECT OF SUFFICIENTLY STRONG DYNAMIC PRESSURE. THE EXCITED ATOMS AND IONS ARE CAPABLE TO BUILD NEW AND STRONGER CRYST. FORMS. THE DIAMONDS WERE CRYST. TOGETHER WITH GRAPHITE INKIMBERLITE INTRUSIONS WHICH ARE A CONTINUOUS ZONE OF CATACLISM.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"



USSR

UDC 669,721,472(088.8)

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CHEPRASOV, I. M., SELEDTSOV, D. K., CHIKODANOV, A. I., BESTAUBAYEV, M. B., PEYSAKHOV, I. L., and BYKHOVER, L. N.

"Method of Purifying Waste Gases"

USSR Author's Certificate No. 267586, Filed 12/05/68, Published 14/07/70, (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No.1 G171 P).

Translation: A method is suggested for purifying waste gases to remove ${\rm Cl}_2$ and ${\rm Cl}_2$ -containing products by transmitting the gases through inorganic reagents. In order to increase the degree of purification and simplify the process, the inorganic reagents used are wastes of Ti and its alloys in the form of fine sponge or chips. Example. The gases pumped from the cathode space of a magnesium electrolyzer, at 360° , containing 5-6 mg/1 ${\rm Cl}_2$, are passed without preliminary drying to a layer of crushed, unheated titanium sponge. The sponge is heated by the gases themselves to $250-280^{\circ}$. All of the ${\rm Cl}_2$ contained in the gases is trapped by the sponge, forming lower chlorides of Ti, which are then dechlorinated to produce ${\rm TiCl}_4$.

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USSR

UDC 669.295.054.79



GALITSKIY, N. V., BAYBEKOV, M. K., DROZHZHEV, V. I., CHEPRASOV, I. M., MEDVEDCHIKOV, E. P., BARKOVA, N. P., ZAVADOVSKAYA, V. N., SELEDTSOV, D. K., and KORENDYASEV, M. I.

"Reprocessing Waste Titanium and Its Alloys in a Chloride Melt"

Moscow, Metallurgiya i Khimiya Titana (Institut Titana), Metallurgiya Publishing House, Vol 6, 1970, pp 135-140

Translation: Results are given of experimental-industrial research on the reprocessing of ungraded waste mixtures of chips from different titanium alloys by chlorinating in a chloride melt. An experimental batch of marketable titanium sponge was obtained. The characteristics of the raw material used, the chlorine gas, the coke, and the working fusion are given, along with a description of the technological conditions, the chart for preparing chips for chlorination, and the technological equipment charts for the chlorination and cleaning conversions. An analysis is made of the distribution of alloying elements in the products of chlorination. Basic expenditure coefficients, calculated per ton of industrial titanium tetrachloride, are deduced, and data are given on the quality of the TIC14 and the sponge titanium obtained. Three illustrations and one table.

USSR

UDC: 543.53:539.1.07.543

YEGIAZAROV, B. G., MATVEYEV, V. V., SEL'DYAKOV, Yu. P.

"Commercial Combined System of Nuclear Instruments for Instrumental Activation

Moscow, Atomnaya Energiya, Vol 34, No 2, Feb 73, pp 97-104.

Abstract: The necessary composition and components of a standardized instrumental activation analysis system have been determined. They include: 1) a two-channel pneumatic transport system with centralized control panel; 2) a single-channel pneumatic transport system with centralized control panel; 3) an all-wave neutron monitor; 4) a conversion system with digital indicator, designed for loads up to 4·106 pulses per second; 5) a scintillation detection unit; 6) a four-channel spectrometric installation with a set of four detection units and lead containers; 7) a computer, designed for processing of analysis data; 8) a universal summary coincidence spectrometer; 9) a gamma radiation spectrometer; 10) a multichannel pulse amplitude analyzer; 11) a printer; 12) a tape and card puncher; 13) a system for direct input of data to a computer; 14) a gamma radiation dosimeter with signaling device; 15) a gamma radiation dosimeter; 16) a neutron desimeter.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

USSR

Yegiazarov, V. G., Matveyev, V. V., Sel'dyakov, Yu. P., Moscow, Atomnaya Energiya, Vol 34, No 2, Feb 73, pp 97-104.

Block diagrams of various combinations of the individual elements of the system are presented, plus a photograph of the KAMA-1-01 functional system, consisting of two subsystems: 1) the pneumatic transport system; 2) a

2/2

- 19 -

TLE--MEASUREMENT OF HALF LIVES OF THE SIRST EXCITED 2 PLUS STATES OF OSMIUM-184, OSMIUN-186, AND OSMIUM-188 -U-THOR-(05)-BEDICA, T., ZAYTSEVA, N.G., MOROZOV, V.A., MUMINGV, T.M., SELEGEANU. S. UNTRY OF INFO--USSR URCE--YAD. FIZ. 1970, 11(3), 481-2 TE PUBLISHED ---- 70 BUECT AREAS -- PHYSICS, NUCLEAR SCIENCE AND TECHNOLOGY PIC TAGS--RADIDACTIVE DECAY SCHEME, OSMIUM ISOTOPE, EXCITED NUCLEUS, COINCIDENCE COUNTING, NUCLEAR ENERGY LEVEL, HALF LIFE INTROL MARKING--NO RESTRICTIONS DOUMENT CLASS--UNCLASSIFIED STEP NO--UR/0367/70/011/003/0481/0482 OXY REEL/FRAME--1991/1059 RC ACCESSION NO--APOILO749

C ACCESSION NOAPO110749 CTRACT/EXTRACT(U) GP-0- A 19.8 KEV LEVEL OF PRIME184 RESOLN. S SUBTAUO SMALLER TH HINUS 0.05 NSEC. THE 137.2 OR MINUS 0.05 AND 0.71 PLUS	AND 155.0	THE HALF O. BY DEL TO 1.2 KEV LEVEL	LIFE T S AYED E-C NSEC, TO S, T \$UE WERE DE	SUBCNEHAL SAMMA COL D BE 1.18 SONEHALF FTD. BY N	PLUS OR 0.84 PLUS ARIDUS	is to a living a second
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1/2 UNCLASSIFIED TITLE--SPECIFICATION ON DIES FOR DIAMOND ABRASIVE FOOLS -U-PROCESSING DATE--18SEP70

AUTHOR-(04)-IVANOV, A.A., KOVALEV, S.N., MENDELSON, V.S., SELEKH, V.F.

COUNTRY OF INFO-USSR

SOURCE--STANDARTY I KACHESTVO, 1970, NR 3, PP 7-9

DATE PUBLISHED ---- 70

SUBJECT AREAS--MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--DIAMOND, ABRASIVE, BIBLIOGRAPHY, TECHNICAL STANDARD, ECONOMIC CONDITION, CUTTING TOOL, MACHINE TOOL COMPONENT

CONTROL MARKING--NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0868

STEP NO--UR/0422/70/000/003/0007/0009

CIRC ACCESSION NO--AP0102829

UNCLASSIFIED

2/2 012 CIRC ACCESSION NOAP0102829	UNCLASSIFIED	PROCESSING DATE18SEP70	
ABSTRACT/EXTRACT(U) GP-0- THE SPECIFICATION ON THE DI THEIR ECONOMIC EFFICIENCY I	ES, THAT IS NOW PREPA	E GIVES AN ACCOUNT OF RED FOR THE FIRST TIME.	•
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Instrumentation and Equipment

USSR

UDC 621.74.073:621.922.02:389.6

IVANOV, A. A., KOVALEV, S. N., MENDEL'SON, V. S., SELEKH, V. F.

"Specifications of Dies for a Diamond Abrasive Tool"

Moscow, Standarty 1 kachestvo, No 3, Mar 70, pp 7-9

Abstract: This article presents a draft of standard specifications of dies for diamond abrasive tools (wheels) with organic and metallic bonds. The specifications are divided into four groups: 1) the selection of materials; 2) the selection of basic dimensions; 3) assembly and accuracy; and 4) the finishing quality of dies. Two types of dies are considered: those designed for pressing operations at temperatures not exceeding 200°C and those designed for sintering with a metallic bond at 700-800°C. Recommendations are given on steels and their heat treatment. The finishing of surfaces must meet the requirements of GOST 2789-59. EI481 steel and EI437B refractory metal are finding wide acceptance for use in dies for diamond abrasive tools.

1/1

USSR

UDC 66.067.38:62-278

SAMSONOV, G. V., ROZHANSKAYA, T. I., MOSKVICHEV, B. V., MARGOLINA, N. A., SELEXHOVA, G. B., KOZHEVNIKOVA, P. YE.

"Study of the Permeability of Ultrafiltration Diaphragms"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 11, 1973,

Abstract: The results are presented from a study of the physical-chemical properties of Soviet anisotropic diaphragms based on cellulose acetate: the permeability and filtration rates as functions of the concentration and pressure gradients and the composition of the solution. The degree of trapping of the material by a given diaphragm depends primarily on the molecular weight of the material. The filtration rate depends on the type of diaphragm, the magnitude of the pressure gradient, the concentration and composition of the filtered solution. The dimensions of the ultrafilter pores are estimated. Integral pore distribution curves with respect to dimensions in the active layer of the membrane are plotted and interpreted. The active layer of the tested diaphragm is characterized predominantly by pores corresponding with respect to permeability to materials with a macromolecule dismeter of 20-40 Å. The performed studies make it possible efficiently to select ultrafilters suitable for the concentration of biological preparations of defined molecular weight.

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USSR

UDO 621.372.822/823

KATS, L.I., SELEL'NIKOV, V.A.

"To An Analysis Of The Field Of An N-Mode Waveguide By The 'Hidden Periodicity'

V sb. Vopr. elektron. tekhn. (Froblems Of Electronics Technology--Collection Of Works), No 2, Saratov, Saratov University, 1971, pp 209-218 (from RZh--Radiotekhnika, No 2, Feb 72, Abstract No 2B79)

Translation: The theoretical principles of the method are stated. The difficulties of its practical realization are considered. A measuring device is described with a fixed electrical probe of small diameter (0.05 ± 0.05 mm) in a circular waveguide. The results are presented obtained at a 4-mm wave for a smooth transition from a rectangular to a circular waveguide. 1 ill. 11 ref. N.S.

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USSR

UDC: 533.95

KRUPNIK, L.I., DAMCHENKO, P.A. and SELEMIR, V.D.

"Interaction of Plasma Flow With Metal Surface"

Moscow, 2-y Vses. Simpoz. po Vzaimodeystiviyu Atom. Chastits s Tverdym Telom (Second All-Union Simposium on Interaction of Atomic Particles With Solid Bodies), 1972, pp 224-227 (from Referativnyy Zhurnal-Mekhanika, 1973, Abstract No 2B102 by B.A. Chesnokov)

Translation: The experimental setup and test results of investigation of hydrogen plasma parameters before and after interaction with the metal surface are described. Plasma density is $2.8 \times 10^{14} - 1.9 \times 10^{11} \text{ cm}^{-3}$, electronic temperature 6-8 ev, velocity (3 + 8) \times 10⁶ cm/sec, degree of ionization 0.6, pressure in the interaction space 1×10^6 mm Hg. An increase of density in the boundary layer by three times after the plasma hit the metal obstacle was observed. Neutrals, forming by the interaction of the charged particles with the atoms of the obstacle and by elastic and nonelastic collisions with the particles in the boundary layer, become plasma's main component. The installation diagram and the graphs of plasma component densities versus distance from obstacle are presented.

CIA-RDP86-00513R002202820005-0"

APPROVED FOR RELEASE: 09/01/2001

USSR

UDC 669.14.018.29-414

COL'DSHTEYN, M. I., BLYUM, E. E., GRIN', A. V., SELETKOV, A. A., LITVINENKO, D. A., LEYKIN, I. M., RUDCHENKO, A. V., OREL, E. I., VAYNTRAUE, S. S., LOKTIONOV, P. Ya., LASHCHEV, V. Ya., MOSIOSHVILI, V. V., MIROSHNICHENKO, S. I., and KONDRASHOV, M. M., Ural Scientific Research Institute of Ferrous Metals, Central Scientific Research Institute of Ferrous Metallurgy imeni I. P. Bardin, and Kommunarsk Metallurgical Plant

"Adoption of the Industrial Production of 15G2AF Sheet Steel"

Moscow, Stal', No 9, Sep 70, pp 828-830

Abstract: An investigation of the 15G2AF plate steel (10-25 mm), commercially produced at the Kommunarsk Metallurgical Plant, revealed that alloying of the manganous structural steel with nitrogen and vanadium increases the strength and plasticity properties of the normalized rolled steel. Normalizing of the metal effects a size reduction of the grain (to 10-12), which assures a low (-100°C to -120°C) cold brittleness threshold. The strength of the 15G2AF steel was found to be at least 60 kg/mm² and the yield stress at least 45 kg/mm². Use of 15G2AF steel for welded structures decreased weight, in comparison with steel 10G2S1, by 13.6%.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

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1/2 TITLE-EFFECT OF BELOW ZERO TEMPERATURES ON THE PHYSICOMECHANICAL PROCESSING DATE--300CT70 AUTHOR-(02)-BALBACHAN, I.P., SELETSKIY, L.I.

COUNTRY OF INFO-USSR

SOURCE-BETON ZHELEZOSETON 1970, 16(1), 14-16

DATE PUBLISHED -----70

SUBJECT AREAS-MATERIALS

TOPIC TAGS-CONCRETE, FURFURAL, ACETONE, MONOMER, LOH TEMPERATURE EFFECT,

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--2000/1058

STEP NO-UR/0097/70/016/001/0014/0016

CIRC ACCESSION NO--APO124715

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

2/2 023 UNCLASSIFIED CIRC ACCESSION NO-AP0124715 PROCESSING DATE--- 300CT70 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CONCRETE MIXES, CONTG. ADDED SIMILAR TO 2PERCENT FURFURAL, SIMILAR TO 12PERCENT FURFURAL ACETOME MUNOMER. AND CATALYTIC AMTS. OF PHSO SUB3 H. WERE HARDENED IN THE MINUS 10DEGREES TO PLUS 20DEGREES RANGE. THE LOWERING OF THE TEMP. ONLY SLOWED DOWN THE HARDENING PROCESS AND THE INCREASE OF THE COMPRESSION STRENGTH. E.G., THE CONCRETES HARDENED AT MINUS LODEGREES TO MINUS 8DEGREES FOR LESS THAN OR EQUAL TO 5 MONTHS HAD A COMPRESSION STRENGTH SIMILAR TO LOPERCENT LOWER THAN THAT OF THE CONCRETES HARDENED AT 20DEGREES. ON WARMING UP THE RATE OF THE HARDENING INCREASED AND THE CONCRETES REACHED THEIR ULTIMATE STRENGTH IN ALL CASES.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

1/2 011 UNCLASSIFIED PROCESSING DATE--300CT79
TITLE--REACTIONS OF THE OXIDATIVE IMINATION OF DIARYL DISULFIDES -U-

AUTHOR-(02)-LEVCHENKO, YE.S., SELEZNENKO, L.V.

COUNTRY OF INFO--USSR

SOURCE--ZH. ORG. KHIM. 1970, 6(3), 485-92

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--BENZENE DERIVATIVE, HYDROLYSIS, MOLECULAR STRUCTURE, ORGANIC SULFUR COMPOUND. CHLORINATED ORGANIC COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1669

STEP NO--UR/0366/70/006/003/0485/0492

CIRC ACCESSION NO--APOLIZ663

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

2/2 011 CIRC ACCESSION NO--APO112663 UNCLASSIFIED PROCESSING DATE--300CT70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. WITH (XC SUB6 H SUB4) SUB2 S SUB2 (I) GAVE (XC SUB6 H SUB4 S) SUB2 (NSO THE REACTIONS OF 2PHSO SUB2 NCINA SUB2 PH) SUB2 (II) (X IS H DR P-GL). SIMILARLY, I REACTED WITH 2(ETO)
SUB2 C:NC1 (III) TO GIVE (XC SUB6 H SUB4 S) SUB2 (NCO SUB2 ET) SUB2 (IV) IX IS P-O SUB2 N OR O-O SUB2 N). THE REACTION OF O,O SUBW NC SUB6 H SUB4 SCL WITH III OR CL SUB2 NCO SUB2 ET ALSO GAVE IV (X EQUALS 0.0 SUB2 N) (V). PASSING CL THROUGH V GAVE 0,0 SUB2 NC SUB6 H SUB4 SCL. REVERSIBILITY OF THE ABOVE REACTION WAS CONFIRMED BY REACTING P.O SUB2 NC SUB6 H SUB4 SCL WITH CL SUB2 NCO SUB2 ET TO P.O SUB2 NC SUB6 H SUB4 S(:NCO SUB2 ET) CL AND CL. OTHER IV REACTED WITH CL TO GIVE XC SUB6 H SUB4 S(:NCO SUB2 ET)CL. SIMILARLY II REACTED WITH CL TO GIVE XC SUB6 H SUB4 S(:NSO SUB2 PH)CL. THE REACTION OF IV WITH PCL SUB5 GAVE XC SUB6 H
SUB4 SCL, CL SUB2 PONCO, AND ETCL. THE HYDROLYSIS OF II OR IV IN ACID SOLNS. GAVE XC SUB6 H SUB4 SO SUB2 SC SUB6 H SUB4 X, AND XC SUB6 H SUB4 SO SUB2 NH SUB2 OR H SUB2 NCO SUB2 ET. ALK. SOLNS. DECOMP. IV TO (XC SUB6 H SUB4 S) SUB2 AND II TO XC SUB6 H SUB4 S(:NSC SUB2, PHINHSC SUB2 PH, (XC SUB6 H SUB4 S) SUB2, AND XC SUB6 H SUB4 SO SUB2 H. THE ABOVE REACTIONS DO NOT PERMIT TO DIFFERENTIATE BETWEEN STRUCTURES (ETO SUB2 CN: S(C SUB6 H SUB4 X) | SUB2, XC SUB6 H SUB4 SS(:NCO SUB2 ET) SUB2 C SUB6 H SUB4 X, OR XC SUB6 H SUB4 SI: NCO SUB2 ET) N (SC SUB6 H SUB4 X)CO SUB2 ET FOR IV OR THE CORRESPONDS STRUCTURES FOR II. ORG. KHIM., KIEV, USSR. FACILITY:

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UNCLASSIFIED PROCESSING DATE--300C170
BENZENESULFUNIC ACID DICHLORUAMIDE -UAUTHOR-(02)-LEVCHENKO, YE.S., SELEZNENKO, L.V.

COUNTRY OF INFO--USSR

SOURCE--ZH. ORG. KHIM. 1970, 6(3), 492-6

DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS--THIOL, PHENOL, SULFONIC ACID, AMIDE, CHLORINATED ORGANIC COMPOUND, ORGANOSODIUM COMPOUND, CHLORINATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1671

STEP NO--UR/0366/70/006/003/0492/0496

CIRC ACCESSION NO--APOl12665

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

PROCESSING DATE--300CT70 UNCLASSIFIED 009 CIRC ACCESSION NO--APO112665 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE ADDN. OF 2 MOLES PHSH TO 1 MOLE PHSO SUB2 NCL SUB2 (I) GAVE PHSCL AND PHSU SUB2 NH SUB2. WHEN I PHSH MOLAR RATIO WAS 2:3, PHSCL REACTED FURTHER GIVING PHS (:NSO SUB2 PH) CL (II). THE ADDN. OF 4 MOLES I TO 5 MOLES PHSH OR P.O SUB2 NC SUB6 H SUB4 SH GAVE (PHS) SUB2 OR (P.O SUB2 NC SUB6 H SUB4 S) SUB2 WHICH REACTED FURTHER WITH I GIVING II OR P.O SUB2 NC SUB6 H SUB4 S(:NSO SUB2 PH)CL (III). THE REACTION OF 2,4,(0 SUB2 N) SUB2 C SUB6 H SUB3 SH WITH I GAVE ONLY 2,4, (O SUB2 N) SUB2 C SUB6 H SUB3 SCL AND PHSO SUB2 NH SUB2. THE REACTIONS OF PHSNA, P.CLC SUB6 H SUB4 SNA, OR P.O SUB2 NC SUB6 H SUB4 SNA WITH I EQUIV. I GAVE RS(:NSO SUB2 PH)CL (R IS PH, P,CLC SUB6 H SUB4. OR P.O SUB2 NC SUB6 H SUB4). THE REACTION OF PHSNA OR P.MEC SUB6 H SUB3 SNA WITH 0.5 EQUIV. I GAVE (PHS) SUB2 (NSO SUB2 PH) SUB2, OR (P, MEC SUB6 H SUB4 S) SUB2 (NSO SUB2 PH) SUB2 AND THE CORRESPONDING THE REACTION OF P.O SUB2 NC SUB6 H SUB4 SCH SUB2 PH DIARYL DISULFIDES. (IV) WITH I GAVE PREDOMINANTLY III (A CYCLIC REACTIONINTERMEDIATE IS PROPOSED). THE CHLORINATION OF IV DECOMPD. IT TO PHCH SUB2 CL AND P.O INST. DRG. KHIM., KIEV, FACILITY: SUB2 NC SUB6 H SUB3 SCL. USSR.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

USSR

UDC: 621.791.011:669.15-194

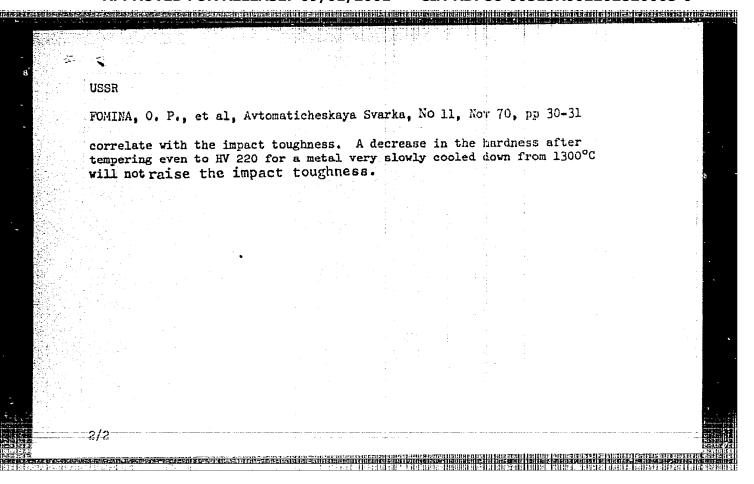
FOMINA, O. P., LEVENBERG, N. Ye., SELEZNEV, A. G., and GERMAN, S. I.; Khar'kov Polytechnical Institute, Karh'kov, Turbine Plant

"Mechanical Properties of the Metal in the High-Temperature Region of the Heat-Affected Zone in 15KhlMlFL Steel Welds"

Kiev, Avtomaticheskaya Svarka, No 11, Nov 70, pp 30-31

Abstract: A study was made of the high-temperature region of the heat-affected zone in 15KhlMlFL steel (0.19% C, 0.64% Mm, 1.7% Cr, 1.14% Mo, 0.14% V). The effects of various tempering conditions on the structural transformations and properties of the metal of each variant of the imitated weld-affected zone were analyzed. It was found that the ductility of the metal in the high-temperature region of the heat-affected zone markedly depends on the cooling rate after welding. As applied to multipass welding conditions, the required impact toughness may be met by tempering the weld at 740-760°C. The hardness of the high-temperature region of the heat-affected zone in 15KhlMlFL will not always

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Acc. Nr.: APO046765

Ref. Code: UR0125

USSR

UDC 621.791:14.011.539.163

SELEZNEV, A., G., KHRISTOFOROV, A. I., MOZHAROV, M. V., BUGAYEV, G. P.

"Radioactive Isotope Investigation of the Structure of the Transition Layer During Spin Welding"

Kiev, Avtomaticheskaya Svarka (Automatic Welding), No 1, 1970, pp 21-24 (from Avtomaticheskaya Svarka, No 1, 1970, p 79)

Translation: Results are presented from using tagged atoms to study the structure of the contact layer during spin welding of heterogeneous metals. During spin welding of steel 30 and R18 and also steel 30 and armco-iron, no essential movement of the carbon atoms is observed. The absence of carbon atom diffusion is demonstrated to a depth of more than 5-10 microns. There are 2 illustrations and a 6-entry bibliography.

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PROCESSING DATE--27NOV70

TITLE--RECOVERY OF UREA FOR DEPARAFFINATION OF PETROLEUM FUELS -U-AUTHOR-(03)-SELEZNEV, A.K., POPLAVSKAYA, A.V., VOROBYEVA, YE.I.

COUNTRY OF INFO--USSR

SOURCE--NEFTEPERERAB. NEFTEKHIM. (MOSCOW) 1970, (3), 43-3

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY, PROPULSION AND FUELS

TOPIC TAGS--CRUDE DIL, LOW TEMPERATURE EFFECT, PETROLEUM FRACTION, DEPARAFFINATION, UREA

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--300 2/1721

STEP NU--UR/0318/70/000/003/0043/0044

CIRC ACCESSION NO--APOL29089

UNGLASSIFIED.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

2/2 CIRC ACCESSION NO--APOL29089 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A DISTILLATE (B, 244-340DEGREES, UNCLASSIFIED CONGEALING AT PLUS 4DEGREES, AND 27.68PERCENT VIELD OF COMPLEX FORMERS PROCESSING DATE--27MOV70 WITH UREAL WAS OBTAINED FROM A COM. UNIT DISTG. DZEK SUATSK CRUDE DIL. IT WAS DEPARAFFINATED WITH RECRYSTD. AND SPENT UREA BY USING 4 WT. PERCENT ETOH AS ACTIVATOR. SOLVENT NAPHTHA (B. 30-1200EGREES) (100 VOL. PERCENT) WAS USED TO DIL. THE CHARGE. THE TEMP. OF TREATMENT VARIED FROM NEGATIVE 8 TO NEGATIVE 19DEGREES. AFTER MIXING FOR 30 MIR, THE COMPLEX WAS VACUUM FILTERED, WASHED FREE FROM OIL WITH NAPHTHA, DRIED, AND THEN DECOMPD. BY ETOH AT 70-5DEGREES. THE UREA DESSOLVED IN THE ON THE SURFACE WERE WASHED WITH H SUB2 O, DRIED, AND ANALYZED. THE FILTRATE CONTG. THE DEPARAFFINATED FUEL WAS WASHED WITH H SUB2 O TO REMOVE RESIDUAL UREA AND ETOH. WITH MULTIPLE USE (1-5) OF THE SAME THE PARAFFINS COLLECTED UREA, THE YIELD OF DEPARAFFINATED FUEL INCREASED FROM 72 TO 87PERCENT, THE YIELD OF PARAFFINS DECREASED FROM 27 TO SPERCENT (M. 22-5DEGREES), AND THE TEMP. OF TREATMENT WAS NEGATIVE 19 TO NEGATIVE BOEGREES. WHEN THE UREA WAS RECRYSTO., THE YIELD OF FUEL WAS GBPERCENT, THAT OF PARAFFINS WAS 27PERCENT (M. 23DEGREES), AND THE TEMP. OF TREATMENT WAS MEGATIVE 190EGREES. A METHOD OF DETG. THE ACTIVITY OF THE UREA FOR COMPLEX FORMATION WAS DEVELOPED, BASED ON MEASUREMENT OF THE HEAT OF COMPLEX FORMATION DURING DEPARAFFINATION UNDER STO. CONDITIONS. THE HEAT OF FORMATION INCREASED WITH INCREASED ACTIVITY OF THE UREA. UNCLASSIFIED

USSR

UDC: 621.376.56(088.8)

SELEZNEV, A. M.

"A Method of Controlling Semiconductor Switches"

USSR Author's Certificate No 269265, filed 17 Jan 66, published 10 Jul 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 10322 P)

Translation: This Author's Certificate introduces a method of controlling semiconductor switches such as transistors in a bridge power amplifier with PDM by regulating and reversing the voltage in the load. To reduce dynamic losses with a given polarity of the input signal, the device utilizes blocking of a pair of switches in the bridge diagonal, one of them operating in the pulse mode while the other operates continuously. Another pair of parallel leg with respect to the first of the above-mentioned switches and ous signal. V. P.

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USSR

UDC 621.314.61(088.8)

SELEZNEV, A. M.

"Three-Phase Controlled Rectifier"

USSR Author's Certificate No 269284, filed 2 Aug 66, published 16 Jul 70 (from RZh-Elektronika i yeye primeneniye, No 2, Feb 71, Abstract No 28548P)

Translation: Three-phase bridge and null circuits for rectifiers Vypryamitel' are proposed in which control of the rectified voltage is accomplished by one thyristor. In the bridge circuit one of the rectifiers /ventil' of the anode (or cathode) group is connected directly to the load, and the remaining two rectifiers of this group -- across the thyristor. In the null circuit, the cathode of one of the rectifiers is also joined with the load, and the cathodes of the two other rectifiers are joined together and connected to the anode of the thyristor, whose cathode is connected to the load. 2 ill. L.R.

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USSR

YUKHTIN, N. N., FURSENKO, I. V., IVANOVA, N. S., SELEZNEY. A. P., SHALINA, N. A.

"Synthesis of N-3,4-Dichlorophenyl-N'-hydrozyurea"

V sb. Khim. sredstva zashchity rast. (Chemical Plant Protective Agents -- collection of works), No 2, Moscow, 1972, pp 59-65 (from RZh-Khimiya, No 19, Oct 73, Abstract No 19N546)

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USSR

SELEZNEY, G. B., LAVROV, G. I.

UDG 621.394.423

"Discrete Automatic Carrier Frequency Tuning"

Moscow, Elektrosvyaz', No 7, 1970, pp 39-42

Abstract: This article discusses two basic methods for the formation of synchronous frequency oscillations in discrete signal transmission equipment from the information signal through the use of the latter's spectral characteristics. The first is the so-called resonance-phase method, and the device which executes it is known as the resonance synchronizer. In this method, the synchronous frequency oscillations are detected by a narrow-band filter from the information signal. In the second method, special correction devices for automatic phase and frequency tuning of the oscillator without direct effect on its parameters are used in the formation of the synchronous frequencies. This paper proposes a method of phase and frequency control of intermediate frequency oscillations by which the difficulties involved in applying the two systems can be avoided. A block diagram of the proposed system is given and its operation detailed. The authors express their gratitude to A. Yu. Lev for his criticism of the manuscript.

USSR

UDC 681.3.055

KALINKIN, I. P., SELEZNEV, G. D., and TRIFONOVA, L. S.

*A Counting Device Which Retains Information When Power is Interrupted"

USSR Author's Certificate No 364112, kly 03 k 23/10, filed 16 Aug 71, published 21 Mar 73 (from EZh Avtomatika Telemekhanika i Vychislitel'nava Tekhnika, No 11, Nov 73, abstract No 11 A364 P)

Translation: A counting apparatus which retains information during power interrupts is proposed, containing a single—pulse generator, flipflops, memory elements, and a delay line. To extend the logical capabilities, inhibit and assembly circuits are included, with the output of the single—pulse generator connected to one of the regulating inputs of the flipflops and through one of the delay lines to the inputs of the read elements of the memory and to one of the inputs of the assembly circuit.

The other input of this last circuit is connected to the "command reading" bus, with the output of the assembly circuit connected through a second delay line to the signal inputs of the inhibit circuits; the controlling inputs of the latter are connected to the outputs of the flipflops, while the outputs of the inhibit are connected to the inputs of the memory elements, the outputs of which are connected to the secondary regulating inputs of the flipflops. One illustration.

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UDC 621.396.679:621.372.852.1(008.8)

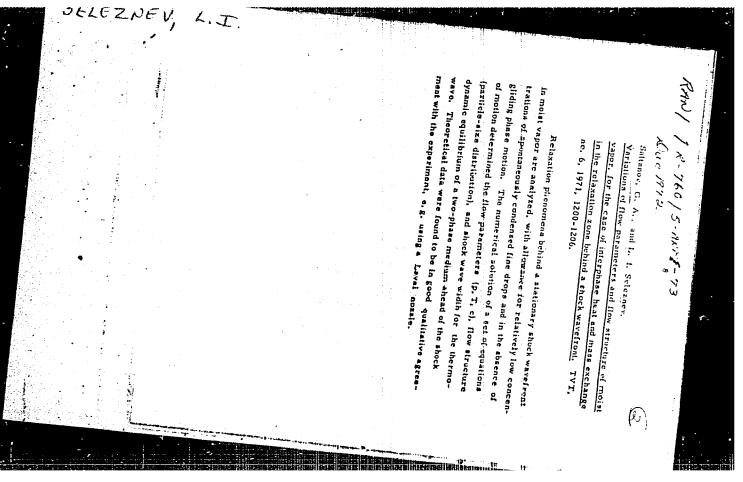
KUZMINYKH, YE. S., ZAVADOVSKIY, B. D., SELEZNEV, G. YE.

"Separating Transmission and Reception Filter"

USSR Author's Certificate No 248859, Filed 3 Apr 67, Published 22 Jan 70 (from RZh-Radiotekhnika, No 9, Sep 70, Abstract No 9885P)

Translation: The proposed separating filter consists of a basic transmission line, an auxiliary transmission line with a ballast load on the end and traveling wave resonators connecting them with a ring length equal to an even number of halfwaves of the receiver and an odd number of halfwaves of the transmitter. In order to insure the given decoupling between the cross arms, the loaded end of the auxiliary line is connected to the basic line by a directional coupler through which part of the transmitter signal coming to the filter is shunted. There is one illustration.

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USSR

UDC 536.24:621.175

SALTANOV, G. A., SELEZNEV, L. I.

"Change of Parameters and Structure of d Stream of Moist Steam with Interphase Heat and Mass Exchange in the Relaxation Zone Behind the Leading Edge

Teplofizika Vysokikh Temperatur, Vol 9, No 6, 1971, p. 1200-1206.

Abstract: Certain relaxation phenomena behind the leading edge of a shock wave in moist steam with small drops formed by spontaneous condensation are studied. Numerical solution of a system of equations is used to determine changes in the parameters of the stream and its structure when the 2-phase medium before the

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USSR

UDG 669.715.620.1

PARKHUTIK, P. A., SELEZNEV, L. P., LUBENSKIY, M. Z., and DUDETSKAYA, L. R.

"Effect of Zinc and Magnesium on the Mechanical Properties of Allov Alloy"

Moscow, Tsvetnyye Metally, No 12, Dec 70, pp 52-55

Abstract: Impurities in the AllOV include zinc, with a maximum GOST-permissible content of 0.6%. Such a rigid limitation reduces the potential use of waste and scrap in producing secondary aluminum alloys, thus requiring an additional expenditure of primary aluminum or very costly vacuum equipment for dezincification, involving high power consumption. A basic component in the AlloV alloy is magnesium which, when combined with zinc, forms a number of chemical compounds. A magnesium content within 0.2-0.5% is readily controllable under production conditions. Earlier studies have shown that 0.15-0.35% Mg additions to AlloV alloy increase its strength and hardness and decrease plasticity. This study attempts to determine the combined effect of both zinc (0.0-3.0%) and magnesium (0.0-0.5%)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

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PARKHUTIK, P. A., et al., Tsvetnyye Metally, No 12, Dec 70, pp 52-55

on the mechanical properties and plasticity of Allov alloy. The material was melted under flux consisting of equal amounts of NaCl and KCl. Zinc metal was introduced after melting at 730-740° C. The alloy was refined with MnCl₂ at 0.1% and was poured at 720-730° C. The experimental data show that extending the limit for zinc in Allov alloy to 1.4% is fully permissible and that such additions have no adverse effects on the hardness, strength, and plasticity of the alloy.

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1/2 TITLE-CHANGES OF RHEOLOGICAL PROPERTIES OF THE BLOOD IN TRAUMATIC SHOCK AND THEIR SIGNIFICANCE IN GENESIS OF CIRCULATORY DISTURBANCES -U-PROCESSING DATE--230CT70 AUTHOR-(02)-SELEZNEY, S.A., KHRASROVA, O.P. COUNTRY OF INFO--USSR

SOURCE-PATOLOGICHESKAYA FIZIOLOGIYA I EKSPERIMENTALINAYA TERAPIYA, 1970, DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--WHOLE BLOOD, FLUID VISCOSITY, RHEOLOGIC PROPERTY, TRAUMATIC

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0025

STEP NO--UR/0396/70/014/002/0065/0070

CIRC ACCESSION NO--APO105124

UNCLASSIFIED

SIN OS RIERANIES UNBINA (USBIZIDANI) MANTANTINI MURITIMA (USBIZIDANI)

2/2 022 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--AP0105124 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. RHEOLOGICAL PROPERTIES OF THE BLOOD OBTAINED AT VARIOUS PERIODS OF TRAUMATIC SHOCK FROM CATS WERE STUDIED. THE FOLLOWING DETERMINATIONS WERE MADE: BLOOD VISCOSITY WITH THE AID OF HESSIVISCOSIMETER; BLOOD VISCOSITY AT VARIOUS EXTENSE OF THE SHOCK IN A UNIT WITH CAPILLARIES WITH A RADIUS OF 0.45 AND 0.60 MM; SEDIMENTATION OF FORMED ELEMENTS UNDER CONDITIONS OF CONTINUOUS FLOW. CAPILLARIES INCLUDED INTO THE UNIT WERE GRADUATED BY WATER, 40 AND 60PERCENT SACCHAROSE SOLUTIONS. BESIDES, THE VALUE OF HEMATORITE READING AND OF THE PLASMA PROTEIN COMPOSITION WERE ALSO TAKEN INTO CONSIDERATION. THE RELATIVE AND ASYMPTOTIC VISCOSITY PROVED TO BE DIMINISHED DURING SHOCK. ALTERATIONS OF VISCOSITY WERE MORE PRONOUNCED THAN THE CHANGES OF HEMOTOCRITE INDEX. VISCOSITY OF ERYTHROCYTE SUSPENSION WAS REDUCED IN THE PLASMA OF ANIMALS IN CONDITION OF SHOCK. IN SHOCK SEDIMENTATION OF FORMED ELEMENTS CHARACTERIZING THEIR ADHESIVE PROPERTIES EXCEEDED THE NORMAL ONE. FACILITY: LABORATORIYA PATOLOGICHESKOY FIZIOLOGII INSTITUTA SKOROY POMOSHCHI IM. I. I. DZHANELIZDE, LENINGRAD.

UNCLASSIFIED

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UDC 536.46 + 662.222.1

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POKHUL, P. F., MAL'TSEV, V. M., LOGACHEV, V. S., SELEZNEV, V. A., MOSCOW

"Combustion of Aluminum Particles in the Flame of a Condensed System"

Fizika Goreniya i Vzryva, No 1, Mar 71, pp 51-57.

ABSTRACT: This work presents a study of the process of combustion of aluminum particles in a flame of type N ballistite powder and a model mixture of ammonium perchlorate with organic fuel. The study of the process of combustion of metal particles was performed in a constant pressure bomb with quartz windows, created. The metal particles were introduced to the composition of the fuels during the manufacturing process. A photographic method was used to study the study the dimensions of the metal particles through the height of the flame. It was established that as ballistite powder burns, the metal particles adhere near the surface of the charge. Increasing the percentage of metal in the fuel causes an increase in particle diameter. Aluminum particles accumulate and

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USSR
POKHUL, P. F., MAL'TSEV, V. M., LOGACHEV, V. S., SELEZNEV, V. A., Fizika
Goreniya i Vzryva, No 1, Mar 71, pp 51-57.

aglomerate on the surface of combustion of the charge. In the initial stage of combustion, oxidation of the metal occurs on its surface, with 4 to 6% of the heat realized due to combustion of the metal liberated in this manner in the reaction layer. Combustion of aluminum particles in the flame occurs through intermediate products with the formation of lower oxides. The temperature of the combustion zone of aluminum particles is 400-600° higher than the

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USSR

UDC 536.46

POKHIL, P. F., LOGACHEV, V. S., MAL'TSEV, V. M., SELEZNEV, V. A.

"Spectral and Photometric Research on the Flame Jet in Model Fuel-Oxidizer-Metal Systems"

Novosibirsk, Fizika Goreniya i Vzryva, No 2, June 1970, pp 143-152

Abstract: The equipment used for spectral research on the flame jet in the combustion of fuel-oxidizer-metal systems is described, and its operation is explained. Spectral flame-jet research by means of this installation permitted the photometric method to be used for temperature measurement; this method permitted the shape of the flame of individual metal particles in the combustion products of the charge to be locally determined. Evaluation of the combustion temperature of aluminum and magnesium particles in the flame jet of model systems by the spectral and the photometric method is discussed.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

USSR

UDC 629.7.036.54-66:536.46

MAL'TSEV, V. M., KURYLEV, V. V., and SELEZNEV, V. A.

"The Ignition of Individual Metal Particles"

Odessa, 11-ya Vses. Konf. po Vopr. Ispareniya, Goreniya i Gaz. Dinamiki Dispersn. Sistem, 1972--Sbornik (11th All-Union Conference on Problems of the Evaporation, Combustion, and Gas Dynamics of Dispersed Systems, 1972--Collection of Works), 1972, p 33 (from Referativnyy Zhurnal--Aviatsionnyye i Raketnyye Dvigateli, No 1, 1973, Abstract No 1.34.165. Resume)

Translation: The authors discuss the influence of various factors upon the ignition of particles of zirconium, titanium, magnesium, and zirconium hydride. The investigation was conducted by means of microphotographing the particles during heating in an atmosphere of air. The maximum temperature of the heater was 1900°K, the heating rate was from 2.5 to 120 degrees/sec. Particles 100 particle size, heating rate, and porosity upon the influence of the type of metal, established. Zirconium, titanium, and zirconium hydride ignite in two stages. The first stage is smoldering, which is characterized by elevation of the particle temperature to a red glow. The second stage is a flare-up, characterized by the formation of a bright nucleus of light. Zirconium and

USSR

MAL'TSEV, V. M., et al., 11-ya Vses. Konf. po Vopr. Ispareniya, Goreniya i Gaz. Dinamiki Dispersn. Sistem, 1972--Sbornik, 1972, p 33

titanium are characterized by the earlier ignition of larger particles. The converse pattern is observed for magnesium. As the heating rate increases, the Tignit of the particles decreases. The ignition temperature of the less dense particles is lower because of the greater specific surface.

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USSR

UDC 546.791.6.161

TSVETKOV, A. A., SELEZNEV, V. P., SUDARIKOV, B. N., GROMOV, B. V., MOSCOW Institute of Chemical Technology imeni D. I. Mendeleyev

"Basic Uranyl Fluorides"

Moscow, Zhurnal Neorganicheskoy Khimii, Vol XVIII, No 1, 1973, pp 12-15

Abstract: The possibility of the formation of the basic salt of uranyl fluoride was demonstrated by Marshall, et al. [J. Amer. Chem. Soc., No 76, 4279, 1954] when studying the phase diagram of the uranyl fluoride and water systems. Yu. A. Buslayev, et al. [Dokl. AN SSSR, No 148, 832, 1963] detected the existence of hydrated hydroxofluoruranyl which precipitates as the equilibrium bottom phase in the range of 0.59-8.39% by mass of HF. In the present work, the differential thermal analysis method was used in combination with chemical and x-ray phase analysis to demonstrate the existence of two separate hydrates of the basic salts of variable composition in the UO3-HF-H20 system: 1) $UO_2(OH)_xF_{2-x} \cdot 2H_2O$ and $UO_2(OH)_xF_{2-x} \cdot H_2O$ where x = 0.3-1.2. A study was made of the structure of the salts, and some of their thermodynamic characteristics were determined. The thermogravimetric curve of the decomposition of UO2(0H) xF2-x · 2H2O and tabulated data for the analysis of the basic salts of uranyl fluoride are presented. The heats of formation and the isobaricisothermal potentials of the formation of the basic salts of uranyl fluoride and their errors are also calculated.

USSR

UDC 539.3

SELEZNEV, V. G., YAKOVLEV, V. V.

"Study of the Bending of Plates by the Holographic Interferometry Method"

V sb. Ispol'z. optich. kvant. generatorov v sovrem. tekhm. i med. Ch. 2-3 (Use of Lasers in Modern Engineering and Medicine. Parts 2-3 -- Collection of Works), Leningrad, 1971, pp 47-50 (from RZh-Mekhanika, No 3, Mar 72, Abstract No 3V272)

Translation: A schematic diagram and parameters are given for a device for studying the bending of plates by the holographic interferometry method. The device is mounted on a concrete plate weighing about 1000 kg which is placed on two rubber balloons filled with air to exclude the effect of field oscillations of the location. Deflections were measured by the double exposure method. Construction of an interpolation polynomial in terms of known values of the deflection is proposed to determine derivatives of the bending in terms of orthogonal coordinates. V. P. Netrebko.

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- 134 -

USSR

UDC: 632.951+661:718.1:632.732

SELEZNEY, V. N., and SHUTOVA, S. S., All-Union Scientific Research Institute of Tobacco and Makhorka imeni A. I. Mikoyan

"Effectiveness of the Application of New Insecticides Against Tobacco Aphid"

Moscow, Khimiya v Sel'skom Khozyaystve, no 11, Nov 70, pp 28-30

Abstract: Tobacco aphid (Mynodes persicae Sula) draws the sap from tobacco leaves, contaminates them with sticky excretions and reduces the quality of the raw material. The All-Union Scientific Research Institute of Tobacco and Makhorka conducted a series of tests on a number of new compounds-insecticides. It was found that metathion, folithion, methylnitrophos, and Nexion may be used against the tobacco aphid instead of the toxic thiophos group. Saiphos and metathion in 0.3% concentrations are recommended for wider large-scale testing in the tobacco-growing

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USSR

SELECTION, V. N., et al, Khimiya v Sel'skom Khozyaystve, no 11, Nov 70, pp 28-30

areas of the Union. Treatment of plants with rogor and metathion promotes higher crops and yields of light tobacco varieties. The various concentrations of insecticides used in this study as well as their effectiveness in these concentrations are cited.

USSR

WC 621.375.82

GIAZER, A. A., NIKITINA, T. F., PANTELEYEV, V. I., PLOTNIKOV, A. F., POPOV, YU. M., POTAPOV, A. P., SELEZNEV, V. N., TAGIROV, R. I., and SHUR, YA. S.

"Using GaAs and Nd Lasers for Optical Writing on MnB1 Film"

Kratkiye Soobshch. po fiz. (Brief Communications on Physics) No 12, 1972, pp 9-12 (from RZh-Fizika, No 7, 1973, Abstract No 7D1088)

Translation: The possibility of using a CaAs semiconductor laser for recording information on a ferromagnetic film of MnBi is experimentally investigated. MinBi film 700 A thick, which has undergone condensation in a vacuum on glass Substrates of 0.1-0.2 mm in thickness, is used. For recording information, a GaAs laser with a threshold current of 2 amp at 77 K and a p-n junction width of 400 M is used. It is shown that the laser's minimum pumping current at which recording is possible is 80 amp, whereas the radiation power is 20 w. The energy density of the radiation on the film is then 6.10-9 j/m2. With a monopulse neodymium laser, an evaluation of an information recording density equal to 2500 lines/cm is made. It is noted that the use of a semiconductor laser with a junction width not exceeding 20 of permits reducing the power.

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029

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UNCLASSIFIED

PROCESSING DATE--18SEP70

TITLE--MAGNETIC CRYSTALLOGRAPHIC ANTOTROPY OF SINGLE CRYSTALS OF LITHIUM AND LITHIUM ZINC FERRITES WITH TRACE COBALT DOPANTS -U-AUTHOR-(04)-SELEZNEV, V.N., PUKHOV, I.K., DRONIN, A.I., SHAPOVALOV, V.A.

COUNTRY OF INFO--USSR

SOURCE-FIZ. TVERD. TELA 1970, 12(3), 865-91

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS, PHYSICS, CHEMISTRY

TOPIC TAGS--SINGLE CRYSTAL, LITHIUM, IRON OXIDE, COBALT, ZINC FERRITE, MAGNETIC PROPERTY, CRYSTAL LATTICE STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/0581

STEP NO--UR/0181/70/012/003/0885/0891

CIRC ACCESSION NO--APOLO5564

UNCLASSIFIED.

USSR

UDC 546.791.6'161-31'

TSVETKOV, A. A., SELEZNEV, V. P., SUDARIKOV, B. N., GROMOV, B. V., and PEGANOV, V. A., Moscow Chemical-Technological Institute imeni D. I. Mendeleyev

"Complex Compounds of Uranyl Fluoride With Water and Hydrogen Fluoride"

Moscow, Zhurnal Neorganicheskoy Khimii, Vol 16, No 3, Mar 71, pp 768-771

Abstract: Three complex uranyl fluoride compounds were isolated in the system $U0_2F_2$ -HF-H₂0: $H_2[U0_2F_4]\cdot 4$ H_20 , $H[U0_2F_3]\cdot 2$ H_20 , and $H[(U0_2)_2F_5]\cdot 4$ H_20 . All of these materials form salts with alkali metals and ammonia; their structures were studied. Thermodynamical properties of these compounds were determined by means of differential thermal analysis.

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029

UNCLASSIFIED

PROCESSING DATE--18SEP70

CIRC ACCESSION NO--APO105564 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE 1ST K SUB1 AND 2ND K SUB2 MAGNETIC ANISOTROPY CONSTS. WERE MEASURED FOR ANNEALED AND TEMPERED SINGLE CRYSTAL FERRITES, LI SUBOTIMESS NEGATIVE (X-2) FE SUB2TIMESS NEGATI OR EQUAL TO 0.005) AND LI SUBOTIMES39 NEGATIVE(X-2) FE SUB2TIMES39 NEGATIVE(X-2) ZN SUBOTIMES22 CO SUBX D SUB4 (X EQUALS 0,0.005), AT 4.2-600DEGREES K. MEASUREMENTS WERE CARRIED OUT BY THE METHOD OF FERROMAGNETIC RESONANCE AT SIMILAR TO 9500 AND SIMILAR TO 36,700 MHZ. WITH INCREASED CONTENT OF CO. THE CONTRIBUTIONS TO K SUBI MAGNITUDE OF DELTA K SUBI AND K SUB2 MAGNITUDE OF DELTA K SUB2 INCREASE LINEARLY. ON TEMPERING OF LI-CO FERRITES, MAGNITUDE OF DELTA K SUBI AND MAGNITUDE OF DELTA K SUB2 DECREASE 3 FOLD. TEMPERING OF LI-ZN-CO FERRITES AFFECTS ONLY LITTLE THE CONTRIBUTION OF CO TO THE ANISOTROPY CONSTS. DISORDER TRANSITION IN LI FERRITE STRONGLY AFFECTS THE CONTRIBUTION OF CO TONS TO K SUB1 AND K SUB2. AT GREATER THAN GODEGREES, EXPTL. DBSD. TEMP. DEPENDENCES OF DELTA K SUBL AND DELTA K SUBL IN THE ORDERED CRYSTALS CAN BE SATISFACTORILY DESCRIBED BY THE THEORY OF TACHIKI; HOWEVER, AT 4.2DEGREES K, EXPTL. AND THEORETICAL DATA DIFFER CONSIDERABLY. POSSIBLE CAUSES ARE DISCUSSED.

UNCLASSIFIED

UDC 621.384.664

GALYAYEV, N. A., GOLOVINA, N. I., GRACHEV, M. I., CRIDASOV, V. T., GUBRIYENKO, KUZNETSOV, V. S., MERKER, E. A., MYZNIKOV, K. P., PUCHUGIN, V. A., CHEPTON, KUZNETSOV, V. S., MERKER, E. A., MYZNIKOV, R. WILDDANDER, V. A., CHEPTON, V. S., MERKER, E. A., MYZNIKOV, R. WILDDANDER, V. A., CHEPTON, V. S., MERKER, E. A., MYZNIKOV, R. WILDDANDER, V. S., MERKER, E. A., WYZNIKOV, R. WILDDANDER, V. S., MERKER, E. A., MYZNIKOV, R. WILDDANDER, V. S., MERKER, WILDDANDER, V. S., MERKER, WILDDANDER, V. S., MERKER, WILDDANDER, V. S., WILDDANDER, WILDDANDER, WILDDANDER, V. S., WILDDANDER, WILDDA A. A., SELEZNEV, V. S., SEREBRYAKOV, B. A., KHODYREV, Yu. S., and CHEPEGIN,

"Proton Beam With an Impulse of Up to 70 Gev/s Elastically Dispersed Inside a V. N.

Leningrad, Zhurnal Tekhnicheskoy Fiziki, Vol 42, No 7, 1972, pp 1437-1445

Abstract: This paper discusses the operation of a channel built into the French liquid-hydrogen Mirabelle chamber for the accelerator of the Institute of High-Energy Physics (IFVE). The function of the channel is to form pure beams of pi and k mesons, and antiprotons, in a broad range of impulse magnitudes under the action of a high-frequency separator. The secondary particles are generated on the inside of a target placed in the path of a proton beam diverted from the accelerator with an energy of 70 Gev. By using a fast system for aiming the proton beam at the target, together with a kicker magnet in the channel, the required number of particles passing through the channel can be provided. The optical system of the channel is described with the 1/2

CIA-RDP86-00513R002202820005-0" **APPROVED FOR RELEASE: 09/01/2001**

ori Billija dagesani indih herika ili i dijaraka di 1801 ili 8 kalalik ili 1804 ili 1804 ili 1805 ili 1805 ili Balanna 1866 ili 1871 ili 1881 ili 1881 ili 1882 ili 1882 ili 1885 ili 1885 ili 1886 ili 1886 ili 1886 ili 188

USSR

GALYAYEV, N. A., et al., Zhurmal Tekhnicheskoy Fiziki, Vol 42, No 7, 1972, pp 1437-1445

aid of diagrams of two possible variants; the beam aiming system and the particle dosage for the bubble chamber are also explained. The authors thank R. M. Sulyayev, P. F. Yermolov, A. M. Moiseyev, M. I. Solov'yev, I. A. Danil'chenko, Ye. A. Parshin, V. M. Kolesnik, A. N. Aleyev, V. D. Rudko, and V. M. Gorshkov for their assistance.

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:USSR

UDG 621.384.634

ALEKSANDROV, I. A., FRACHEV, M. I., GUBRIYENKO, K. I., YEMENKO, YE. V., KOTOV, V. I., HEKRASOV, A. N., PRILEPIN, A. A., PIGHUGIN, V. A., RSAYEV, R. A., SAMOYLOV, A. V., SELFZNEV, V. S., SEREBRSAKOV, B. A., KHANAMIRYAN, A. YE., and KHODYREV, YU. S.

"Negative Particle Channel With Momentum up to 60 Gigaelectron Volts/Second"

Moscow, Atomnaya Energiya, Vol 29, No 1, Jul 70, pp 29-34

Abstract: This article contains a description of a channel for transporting negative particles generated in an internal accelerator target with momentum up to 60 fifaelectron volts/second and an accelerated proton energy of 70 gigalectron volts. The channel is designed so that for an accelerated proton energy of 70 gigaelectron volts it can be adjusted to momentum in the range of 40-60 gigaelectron volts/second. On reducing the energy of the accelerated protons, the channel can be adjusted to lower momentum. The lower limit corresponds to an accelerated proton energy of 20 gigaelectron volts and is equal to 11.4 gigaelectron volts/second.

The optical system of the channel and its characteristics

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

ALEKSANDROV, I. A., et al., Atomnaya Energoya, Vol 29, No 1, Jul 70, pp 29-34

are presented. The limiting solid capture angle of the secondary particles by the channel is 32 microsteradians. The best resolution with respect to momentum is 0.3 percent without decreasing the pacture angle. The channel was investigated primarily using a secondary beam with a momentum of p = 50 gigaelectron volts/second. The procedure for adjusting the channel and the calculated data are described. The differences between the calculated operating conditions of the elements and the conditions after adjustment together do not exceed the errors of the fringing field of the accelerator, the magnetization curve, and the curve for calibrating the bypasses of the magnet. On the whole, the beam parameters agree well with the calculated data.

A detailed diagram of the channel layout is presented, and graphs are presented for the radial position of the targets and the preduction angle as functions of the momentum of the secondary particles, the optical system of the channel and path of the beams in the horizontal and vertical planes, the momentum 2/3

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ALEKSANDROV, I. A., et al., Atomnaya Energiya, Vol. 29, No 1, Jul 70, pp 29-34

resolution of the channel, the beam profile with momentum of 50 gigaelectron volts/second in the parallel section and slit width of the aperture collimators of +20 mm and the pulse collimator +6mm, the beam profile with momentum of 50 giga-electron volts/second in the final representation on including the lens doublet, and the beam profile with momentum of 50 gigaelectron volts/second in the final representation on including a lens triplet.

1/2 029 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--THE USE OF A DEFIBRILLATOR UNDER THE CONDITIONS OF A GARRISON

HOSPITAL -U-

AUTHOR-SELEZNEV, YE.K.

COUNTRY OF INFO--USSR

SOURCE--VOYENNO-MEDITSINSKIY ZHURNAL, 1970, NR 3, P 126

DATE PUBLISHED----70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--LUNG, TUBERCULOSIS, ELECTROCARDIOGRAPHY, BLOOD PRESSURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0422

STEP NO--UR/0177/70/000/003/0126/0126

CIRC ACCESSION NO--APO135891

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

PROCESSING DATE--27NOV70 UNCLASSIFIED 2/2 029 CIRC ACCESSION NO--AP0135891 ABSTRACT. PATIENT M, 56 YEARS OLD, WAS ABSTRACT/EXTRACT--(U) GP-0-ADMITTED TO THE HOSPITAL ON 28 NOVEMBER 1966 FOR AGGRAVATION OF ANTITUBERCULAR THERAPY WAS DISSEMINATED PULMONARY TUBERCULOSIS. ON 12 DECEMBER A SELZURE OF DYSPENA STARTED FROM THE FIRST DAY. SUDDENLY AROSE, ACCOMPANIED BY PAINS IN THE EPIGASTRIC REGION AND TACHYCARDIA. ACCORDING TO THE DATA OF ELECTROCARD OGRAPHIC INVESTIGATION TRANSMURAL INFARCT OF THE POSTERIOR WALL OF THE LEFT VENTRICLE WAS DIAGNOSED, COMPLICATED BY A PAROXYSMAL FORM OF VENTRICULAR THE ARTERIAL PRESSURE DROPPED TO TACHYCARDIA (180 BEATS PER MINUTE). 80-60 MM HG. UNCLASSIFIED

Ref. Code: UR0589

PRIMARY SOURCE:

Vestnik Khirurgii imeni I. I. Grekova, 1970,

Vol 104, Nr / , pp/420

A CLASSIFICATION OF CHRONIC PNEUMONIA

By F. G. Uglov, S. N. Sokolov and Yo. K. Seleznen A.

The elaboration of the most rational classification of enronic pneumonia is an essential task of the science of pneumology. Therefore, principal efforts of the authors were directed toward the selection of a better approach to treatment of various forms of chronic pneumonia both by conservative and surgical methods, new conceptions of etiology and pathogenesis being taken into consideration. The pulmonary lesion usually started from consideration. starts from impairment of the drainage function in $B_{4,5}$ that results from construction of the bronchus by enlarged and consolidated perihilar lymph nodes. The classification of the prononus by emarged and consonuated permuar tymph nodes, the classification is based on stage development of chronic inflammatory process. The first stage involves the affection of $B_{6.5}$ and partly B_{7} , the second $-B_{6.5,7,8}$ (or all basal segments), the third stage —also B_{6} , and the fourth stage includes the cases when the affection involves the upper lobe. The classification considers only the acquired pulmonary lesions.

REEL/FRAME 13790870



USSR

VDC 621.43.011:533;621.5:533

BRIZHENYUK, N. I., POZNANSKIY, V. I., RYBAKOV, V. S., SELEZNEV, Yu. V., KHOKHLOV, Yu. G.

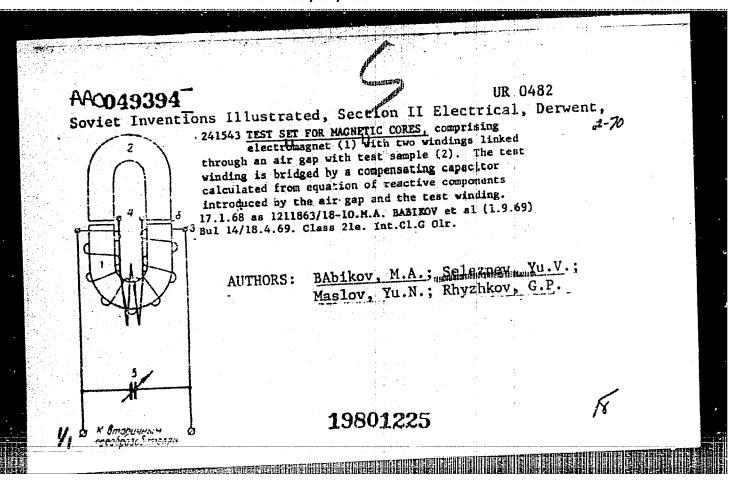
"On the Problem of Determining the Rate of Combustion of Fuel in Diesels"

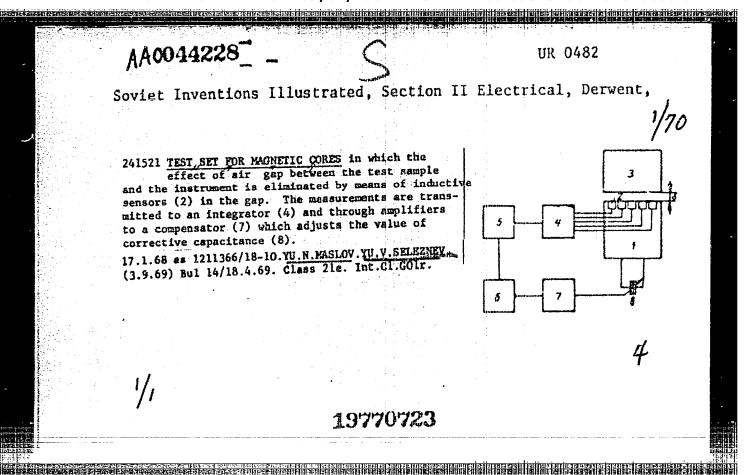
V sb. 11-ya Vses. konf. po vopr. ispareniya, goreniya i gaz. dinamike dispersn. sistem. 1972 (11th All-Union Conference on Problems of Evaporation, Combustion and Gasdynamics of Disperse Systems, 1972 — Collection of Works), Odessa, 1972, p 44 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 38421)

Translation: A formula for determining the rate of combustion of fuel in diesels that was proposed by one of the authors of the article is analyzed. It is shown that one of the factors determining the rate of combustion is the rate of evaporation of the fuel, which depends in turn on the thermodynamic of heat release was investigated as a function of the basic physicochemical parameters. Yu. F. Dityakin.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"





USSR

UDC 621.327.66

KRATKO, V. I., SELEZNEV, Yu. Ye., Computing Center, Siberian Department of the Academy of Sciences of the USSR

"A Method of Making Frameless Memory Arrays"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, 1970, No 25, Soviet Patent No 277860, class 21, filed 14 Jun 69, published 5 Aug 70, p 45

Translation: This Author's Certificate introduces a method of making frameless memory arrays by threading a ferrite matrix in the spread-out state and then folding it up. As a distinguishing feature of the patent, the following steps are taken to increase labor productivity: the cores are mounted in two rows along technological rods; the apertures are oriented crosswise to the rod; the cores are fastened by a wire which is a coordinate conductor of one coordinate; this wire is made to follow a helix inside the cores; the wire is fastened on the ends of the rods; the rods are arranged in parallel with the apertures of each row of cores oriented opposite one another; the resultant continuous holes are threaded by wires which are the coordinate conductors of the second coordinate and lie crosswise of the rods; inhibit and readout wires are then threaded through, the

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USSR

KRATKO, V. I., SELEZNEV, Yu. Ye., Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, 1970, No 25, Soviet Patent No 277860, class 21, filed 14 Jun 69, published 5 Aug 70, p 45

rods are removed, the helically wound wires are stretched into straight lines, and the matrix is folded up.

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11 -

USSR

UDC 517.919

SELEZNEVA, F. G., and EYDEL MAN, S. D., Voronezh Polytechnic Institute, Kiev Advanced Radio-Engineering School

"Initial Value Problem for Systems With Constant Coefficients"

Minsk, Differentsial'nyye Uravneniya, Vol o, No 11, Nov 70, pp 2062-2073

Abstract: V. A. SOLONNIKOV was the first to show that for general systems of partial differential equations unsolved relative to higher derivatives with respect to the time coordinate t, the Cauchy problem, generally speaking, is poorly formulated and it is natural to replace it with an initial value problem whose operator is connected with the initial system of differential equations by YA. B. LOPATINSKIY's algebraic condition. The present article establishes theorems on the correct solvability of the initial value problem for arbitrary systems with constant coefficients in the spaces H as well as the solvability in.

spaces increasing with an increase of the spacial coordinates of the func-

USSR

SELEZNEVA, F. G., and EYDEL'MAN, S. D., Differentsial'nyye Uravneniya, Vol 6, No 11, Nov 70, pp 2062-2073

tions. The article essentially uses methods developed in the study of the Cauchy problem, constructions of V. A. SOLONNIKOV, and the Seidenberg-Tarski exclusion theory.

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USSR

UDC 632.95

SELEZNEVA, T. YE., SISTER, YU. D., SUPIN, G. S.

"Amperometric Titration of Sulfur Containing Biologically Active Substances. Analysis of Cyneb"

Tr. 2-go VSes. sovesirh po issled. ostatkov pestitsidov i profilakt. zagrvazneniya imi produktov pitaniya, kormov i vnesh. sredy (Works of the Second All-Union Conference on the Investigation of Pesticide Residues and Preventive Contamination of Food Products, Feeds and Environment), Tallin, 1971, p 249 (from RZh-Khimiya, No 12, Jun 72, Abstract No 1201476)

Translation: Cyneb is dissolved in 5 moles of KOH; the solution is neutralized with HCl or HNO₃ to pH 6.8, and is titrated with $\rm Hg^{2+}$ or $\rm Ag^+$ salts on a platinum rotating microelectrode with respect to a saturated $\rm Hg_2^{Cl}_2$ -electrode with a potential of ± 0.6 volts. The relative error in analyzing 10^{-7} - 10^{-5} moles of cyneb in 50 mL of the solution is 0.3 ± 0.62 .

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USSR

SELEZNEVA, T. V.; TUTUBALIN, V. N.

"Evaluation of Statistical Characteristics of Long Waveguides in a Two-Wave Model"

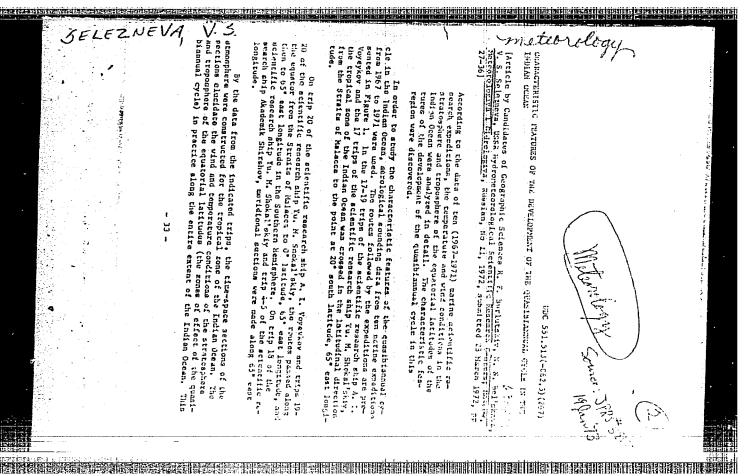
Moscow, Teoriya Veroyatnostey i Yeye Primeneniya; Jamuery-March, 1973; pp 94-108

ARSTRACT: The product of random independent matrices (of the second order) is considered as an exact model of a long waveguide with two propagating waves: the basic wave and a parasitic wave. Two approximation methods for evaluating mation and a type of central limit theorem. The accuracy of these approximations is investigated by a Monte Carlo simulation. The Monte Carlo experiments are found to be not statistically stable, but a certain agreement exists between the results of these experiments and the approximation methods given in

There are seven bibliographic references.

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USSR

UDC 539.3:534,231.1

SELEZOV, I. T.

"Propagation of Waves From a Cylindrical Cavity in a Magnetoelastic Medium"

V sb. Kontsentratsiya napryazh. Vyp. 3 (Stress Concentration. No. 3 -- Collection of Works), Kiev, "Nauk dumka", 1971, pp 143-150 (from RZh-Mekhanika, No 9, Sep 71, Abstract No 9V71)

Translation: Approximation equations are derived for the dynamics of a weakly conducting magnetoelastic medium under the action of an unperturbed magnetic field; the magnetoelasticity equations are linearized and considerably simplified through retention of first order terms after representation of all desired functions in the form of expansions in terms of a small magnetic Reynolds number. The relationship between elastic and magnetic fields is determined by the boundary conditions and pondermotor and Lorentz forces. The Laplace transformation method is used to solve the problem of the propagation of compression waves from a cavity to the surface of which pressure is applied that changes in time as a Heaviside function. A constant homogeneous magnetic field acts along the axis of the cavity. Asymptotic solutions are constructed in the prefrontal

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USSR

SELEZOV, I. T., Kontsentratsiya napryazh. Vyp. 3, Kiev, "Nauk dumka", 1971, pp 143-150

region for radial stresses. It is shown that the magnetic field and an acoustical medium in the cavity decrease the stresses. Authors abstract.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

PROCESSING DATE--27NOV70 UNCLASSIFIED TITLE--SCATTERING OF ELECTROMAGNETIC WAVES AT A CYLINDER IN A SEMIROUNDED REGION -U-

AUTHOR-(02)-SELEZOV, I.T., KRIVONOS, YU.G.

COUNTRY OF INFO--USSR

SOURCE--AKADEMIIA NAUK UKRAINS KOI RSR, DOPOVIDI, SERIIA A FIZIKO-TEKHNICHNI I MATEMATICHNI NAUKI, VOL. 32, APR. 1970, P. 367-372 DATE PUBLISHED----70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS--ELECTROMAGNETIC NAVE SCATTERING, CYLINDRIC WAVE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED

PROXY REEL/FRAME--2000/1809 STEP NO--UR/0441/70/032/000/0367/0372

CIRC ACCESSION NO--AT0125421 UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

PROCESSING DATE--27NOV70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--AT0125421 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. APPLICATION OF THE METHOD OF IMAGES TO THE SOLUTION OF THE PROBLEM OF THE STATIONARY PROBLEM OF THE SCATTERING OF ELECTROMAGNETIC WAVES AT A CIRCULAR CYLINDER SITUATED IN A SEMIBOUNDED REGION. THE PROBLEM IS REDUCED TO THE SOLUTION OF A HELMHOLTZ EQUATION BY TRANSFORMING THE SOLUTION OBTAINED BY THE METHOD OF IMAGES TO THE REGION OF "REAL" VARIABLES. THE FINAL SOLUTION IS OBTAINED IN THE FORM OF A SERIES WHOXE TERMS DESCRIBE MULTIPLY SCATTERED FIELDS. AN APPROXIMATE ANALYTICAL SOLUTION IS OBTAINED IN A RAYLEIGH APPROXIMATE FOR THE FAR FIELD CASE. NUMERICAL RESULTS ARE PRESENTED WHICH REVEAL A STRONG INFLUENCE OF THE BOUNDARY ON THE RADIATION FACILITY: AKADEMIIA NAUK UKRAINS KOI RSR, INSTITUT PATTERN. KIBERNETIKI, KIEV, UKRAINIAN SSR. UNCLASSIFIED

1/2 033 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--WAVE DIFFRACTION OF CONVEX BODIES IN SEMI BOUNDED REGIONS -U-

AUTHOR--SELEZOV, L.I.

COUNTRY OF INFO--USSR

SOURCE--PRKLADNAIA MEKHANIKA, VOL. 6, MAR. 1970, P. 38-46

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--ELECTROMAGNETIC WAVE DIFFRACTION, CONVEX BODY, WAVE EQUATION, SUCCESSIVE APPROXIMATION, BOUNDARY VALUE PROBLEM, ELASTICITY THEORY

CONTROL MARKING -- NO RESTRICTIONS

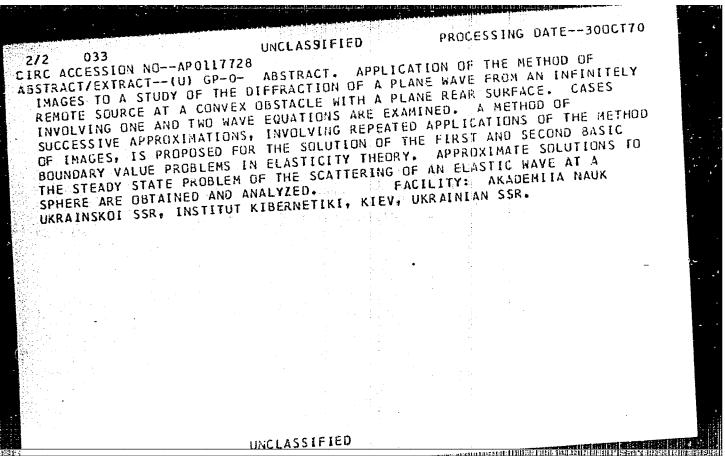
PROXY REEL/FRAME--1996/0494

STEP NO--UR/0198/T0/006/000/0038/0046

CIRC ACCESSION NO--APO117728

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"



038 1/2

UNCLASSIFIED PROCESSING DATE--27NOV70

TITLE--DYNAMIC INSTABILITY OF AN ELASTIC PLATE SITUATED IN A FLOW OF

IONIZED GAS -U-

AUTHOR--SELEZOVA, L.V.

COUNTRY OF INFO--USSR

SOURCE--AKADEMIIA NAUK UKRAINS KOI RSR; SOPOVIDI, SERIIA A FIZIKO-TEKHNICHNI I MATEMATICHNI NAUKI, VOL 32, APR. 1970, P. 361-364

DATE PUBLISHED ---- 70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS--ELASTIC PLATE, ION, GAS STATE, GAS FLOW

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1798

STEP NU--UR/0441770/032/000/0351/0364

CIRC ACCESSION NO--ATU125410

. UNGLASSIFIED:

ABSTRACT/EXTRACT(U) GP- INFINE ELECTRICALLY NOW A WEAKLY CONDUCTING GAS MEDIUM AT REST. THE EMAGNETIC FIELD. A DIST REGIONS IS DERIVED, AND INFLUENCE OF THE MAGNET FREQUENCY IS EXAMINED.	-O- ABSTRACT. ANALYSIS OF THE FLUTTER OF A NCONDUCTION PLATE ONE SIDE OF WHICH IS SITUATED IN S WHILE THE OTHER SIDE IS BOUNDED BY AN ACCUSTIC NTIRE SYSTEM IS SITUATED IN AN UNPERTURBED PERSION EQUATION DESCRIBING THE INSTABILITY D IS SOLVED NUMERICALLY ON A COMPUTER. THE FIC FIELD ON THE CRITICAL FLUTTER SPEED AND TWO REGIONS IN WHICH THE INFLUENCE OF THE ARE IDENTIFIED.
	UNCLASSIFIED

1/2 026 UNCLASSIFIED PROCESSING DATE--20NOV70
TITLE--WAVE DIFFRACTION AT A CYLINDER IN AN ELASTIC HALF SPACE -U-

AUTHOR-SELEZGY, I.T.

CCUNTRY OF INFO--USSR

SCURCE--AKACEMIIA NAUK UKRAINS KOI RSR, DOPOVIDI, SERIIA A FIZIKO TEKHNICHNI I MATEMATICHNI NAUKI, VOL. 32, MAR. 1970, P. 259-264. DATE PUBLISHEC----MAR70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS-SHOCK WAVE DIFFRACTION, CYLINDRIC WAVE, HARMONIC FUNCTION

CENTREL MARKING--NJ RESTRICTIONS

DCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1650

STEP NU--UR/0441/70/032/000/0259/0264

CIRC ACCESSION NO--ATO118629

UNCLASSIFIED

2/2 026
CIRC ACCESSION NO--ATOLIBE29
ABSTRACT-(U) GP-O- ABSTRACT. APPLICATION OF THE METHOD OF IMAGES IL THE SQUILICN OF THE STEADY STATE DIFFRACTION PROBLEM OF A PLANE HARMONIC WAVE INCIDENT ON A CYLINDER WHICH IS SITUATED IN AN ELASTIC HALF SPACE. THE SQUITTON IS GBYAINED IN THE FORM OF AN INFINITE SERIES IN WHICH EACH S-TH MEMGER REPRESENTS A DIFFRACTION FIELD OF S-TH MULTIPLICITY. SEVERAL EXAMPLES OF THE APPLICATION OF THIS METHOD TO FACILITY: AKADEMIIA NAUK UKRAINS'KGI RSR, INSTITUT KIBERNETIKI, KIEV, UKRAINIAN SSR.

UNCLASSIFIED

UNCLASSIFIED

USSR

UDC 621,317,757

SELIBER, A. B.

"Procedural Error in Measuring the Coefficients of the Fourier Series for the Coefficient of Transmission of a Linear Four-Terminal Network with a Discrete Spectrum of the Measuring Signal"

Materialy nauchno-tekhn. konferentsii. Leningr. elektrotekhn. in-t svyazi. Vyp. 2 (Materials of the Scientific and Technical Conference. Leningrad Electrotechnical Communications Institute. Vyp. 2), Leningrad, 1970, pp 237-244 (from RZh-Radiotekhnika, No 8, Aug 70, Abstract No 8A429)

Translation: This article contains an investigation of the problem of a procedural error in measuring the coefficients of a Fourier series of the complex frequency characteristic of a linear four-terminal network for three types of measuring signal with a discrete spectrum.

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USSR

UDC 636.083.37

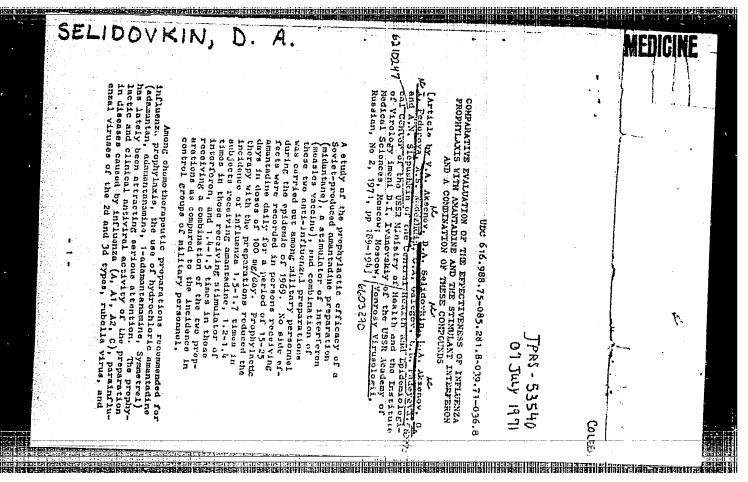
KARANFILOV, N. I., Chairman of Kolkhoz imeni M. V. Frunze, Ovidiopol'skiy Rayon, Odesskaya Oblast, Honored Veterinarian, Ukrainian SSR, FAYTEL'BERG, R. O., Doctor of Medical Sciences, TKACHENKO, G. P., Candidate of Biological Sciences, Senior Scientific Associate, Odessa State University imeni M. I. Mechnikov, MEDVEDEVA, Ye. I., Doctor of Biological Sciences, PANCHENKO, K. A., PETRENKO, Ye. V., LUKINA, G. D., Senior Engineers, BOYKO, L. I., and SELICH. Ye. F., Engineers, Odessa Technological Institute of the Food Industry

"The Effect of a Preparation Obtained From Algae (Phyllophora) Upon the Weight Gains and Blood Composition of Calves"

Moscow, Zhivotnovodstvo, No 3, Mar 72, pp 82-83

Abstract: A valuable preparation containing amine acide and peptides has been developed from industrial Phyllophora waste by the Odessa Technological Institute of the Food Industry (Author's Certificate No 287959). Employed as a fodder supplement, 4.5 kg of the preparation yield an incremental weight gain of 11.43 kg, in other words, 2.54 kg of meat for each kilogram of the preparation, which costs less than 30 kopeks. The erythrocyte number of the calves increases, as does the hemoglobin content and the total protein content.

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Therapy

USSR

UDC 615.281.8.035.4:616.988.75-053.4-036.8

AKSENOV, V. A., SELIDOVSKIN, D. A., GLADKIKH, G. N., KUFLIKOV, V. S., KUZNETSOVA, O. V., MOLODISOVA, L. D., BERSENEVA, R. A., AKSENOV, L. A., BOGDANOVA, N. S., and PERSHIN, G. N., All Union Chemico-Pharmaceutical Institute imeni S. Ordzhonikidze,

"Study of the Prophylactic Value of the New Soviet Antiviral Preparation Oxolin in Preschool Children during the 1969 Influenza Epidemic"

Moscow, Pediatriya, No 5, 1970, pp 18-22

Abstract: The viricidal agent oxolin (tetraoxotetrahydronaphthalene (dihydrate) is effective in the treatment of adenovirus kerato-conjunctivitis, herpetic keratitis, dermatitides of virus etiology, and some acute respiratory diseases. In a double-blind trial, oxolin was administered to 4,170 children one to seven years of age in an unidentified Soviet city during the 1969 influenza epidemic. (It was applied to the nasal mucosa in the form of a 0.25% ointment on a vaseline base twice daily for 40-49 days). Oxolin reduced the incidence of influenza 1.7 times (43%) compared with control children. Severe forms of the disease and complications were 1.1-1.4 times more frequent in the latter than in those who received the preparation, and the course of the disease was 1.2 days longer on the average. The use of oxolin produced side effects in only 0.6% of the cases.

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AKSENOV, V. A., SELIDOVKIN D. A., GLADKIKH, C. N., GRAKHOVA, A. G., BOGDANOVA, N. S., and PERSHIN, G. N., Ministry of Health USSR, and All Union Scientific Research Chemicopharmaceutical Institute imeni S. Ordzhonikidze, Moscow

"Evaluation of the Prophylactic Effectiveness of the New Soviet Antiviral Agent Oxoline During the 1969 Influenza Epidemic"

Moscow, Farmakologiya i Toksikologiya, Vol 33, No 6, Nov/Dec 70, pp 726-733

Abstract: Oxoline, a polyox compound of the naphthalene series, is a virucidal drug with selective activity against influenza virus and a local action. It is effective in the treatment of virus infections of the eyes and skin, and relieves the symptoms of influenza in patients on application in the nasal and pharyngeal cavities. Its effectiveness as an influenza preventive was studied during the 1969 epidemic caused by the A2 virus. Tests were carried out on 9,600 children 1-7 years old in two cities. Oxoline was applied twice a day for 25 days on the mucosa of the nose in the per day. The coefficient of effectiveness in preventing influenza was 1.7, corresponding to a reduction of the incidence of influenza by 43% over the controls. The frequency of side effects was 0.6 and 0.9% for the 0.25 and

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AKSENOV, V. A., et al, Farmakologiya i Toksikologiya, Vol 33, No 6, Nov/Dec 70, pp 726-733

and 0.5% ointment, respectively. The 0.25% ointment was as effective as the 0.5% ointment. The effectiveness coefficient was the same for children 1-3 years and 4-7 years old, a fact which indicated that exoline produces a barrier effect, preventing entrance of the infection into the organism through the nasal mucosa, and is not resorbed into the blood. Prophylactic treatment with exoline alleviated the clinical course of influenza when infection did occur and shortened the duration of the disease.

2/2

1/2 023
TITLE--SOME FEATURES OF INFLUENZA EPIDEMIC IN THE TOWN OF GLAZOV -U-

AUTHOR--AKSENOV, V.A., ORLOVA, N.N., SELIDOVKIN, D.A., ARSENOV, L.A.,

ZORIN, V.S. COUNTRY OF INFO--USSR

SOURCE--VOPROSY VIRUSOLOGII, 1970, NR 1, PP 97-101

DATE PUBLISHED---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--EPIDEMIOLOGY, INFLUENZA, BLOOD SERUM

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STEP NO--UR/0402/70/000/001/0097/0101

CIRC ACCESSION NO--APO103743

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202820005-0"

2/2 023 UNCLASSIFIED CIRC ACCESSION NO--AP0103743 PROCESSING DATE--11SEP70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. AN EPIDEMIC OF INFLUENZA WITH A TWO WAVE COURSE WAS OBSERVED IN THE TOWN OF GLAZOV. THE OUTBREAK WAS DEVELOPING AGAINST THE BACKGROUND OF FAVOURABLE CONDITIONS WITH REGARD TO INFLUENZA IN THE SURROUNDING TERRITORY, A FEW WEEKS BEFORE THE ONSET OF INFLUENZA EPIDEMIC IN THE USSR. THE FIRST WAVE OF THE EPIDEMIC WAS REGISTERED IN NOVEMBER DECEMBER 1966, THE SECOND IN FEBRUARY 1967. THE FIRST WAVE INVOLVED PREDOMINANTLY CHILDREN IN KINDERGARTENS AND SCHOOL CHILDREN, IN THE SECOND WAVE THE MORBIDITY OF INFLUENZA WAS RELATIVELY UNIFORMLY DISTRIBUTED BETWEEN ADULT AND CHILD CONTINGENTS. ANTIBODY TO INFLUENZA A SUB2 VIRUS WAS OBSERVED IN THE SERA OF PATIENTS IN THE FIRST WAVE OF THE EPIDEMIC. A STRAIN OF INFLUENZA VIRUS WAS ISOLATED MORPHOLOGICALLY AND SEROLOGICALLY CONSIDEREE TO BE AN ATYPICAL A SUBI STRAIN WITH ALTERED ANTIGENIC STRUCTURE. THE STRAIN HAD NO UNCLASSIFIED

USSR

UDC 616.921.5-036.22(470.51)"1966-'967"

AKSENOV, V. A., ORLOVA, N. N., SELIDOVKIN, D. A., AKSENOV, L. A., ZORIN, V. S., VOLOGIKOV, A. D., GIADINA, TE. H., SAMUSEV, N. F., ZAKSTEL'SKAYA, L. YA., and YEVSTIGNEYEVA, N. N., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, Ministry of Health USSR

"Some Features of the 1966-1967 Influenza Epidenic in Glazov"

Moscow, Voprosy Virusologii, No 1, 1970, pp 97-101

Abstract: This epidemic occurred in two waves: the first in Movember-December, 1966, when few cases of influenza or other acute respiratory diseases were reported in most of the USSR and localities adjacent to Glazov, and the second in February, 1957. The first wave affected mostly young children, while the second wave affected children and adults to almost the same degree, 10.6 and 9.8 per 100 persons. The course of the disease was severe among children, but relatively mild among adults. The high incidence of influenza in the first wave, characteristic dynamics of the curve with a sharp rise, quick attainment of a peak, and sharp drop, as well as the results of serological examinations, implicated the A2 virus as the

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USSR

AMSEMOV, V. A., et al., Moscow, Voprosy Virusologii, No 1, 1970, pp 97-101

causative agent. The second wave was attributed to the 2 virus. A paculiar virus - an atypical A. strain with altered antigenic structure - was also isolated during the epidemic. However, the absence of antibodies in both children and adults indicated that it did not play an etiological role in the outbreak.

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