Radiation Chemistry

USSR

OSANOV, D. P., PANOVA, V. P., and AREF'YEVA, Z. S., Editorial Board of Zhurnal Fizicheskov Khimii (Journal of Physical Chemistry) of the Academy of Sciences USSR

"Experimental Basis of Age Parameters for a Mathematical Model of the Metabolism of Radioactive Strontium"

Eksperimental'noye obosnovaniye vozrastnykh parametrov matematicheskoy modeli metabolizma radioaktivnogo strontsiya (cf. English above), Moscow, 1970, 18 pp, ill, bibliography with 10 titles (No 2883-70 Dep) (from RZh-Biologicheskaya Khimiya, No 8, 25 Apr 71, Abstract No 8F1310 Dep by authors)

Translation: The work presents the results of an experimental investigation of the rate of elimination of radioactive strontium from dog organism as a function of age. Discharge functions are determined for five age groups. A method is given for the interpolation of the discharge functions for any age. The authors consider one of the possibilities of using the results of this work in calculating doses for people of different ages.

1/1

Burn Studies

USSR

UDC 617-001.17-06:616-008.939.6-085.355:577.

DOLGINA, M. I., PANOVA, Yu. M., ZAYETS, T. L., and KUZNETSOVA, A. N.,
Institute of Surgery im. A. V. Vishnevskiy, Academy of Medical Sciences USSR,
Moscow

"Ways of Slowing Protein Catabolism in Burns"

Moscow, Sovetskaya Meditsina, No 1, 1973, pp 33-36

Abstract: Contrical, an East German drug known to inhibit trypsin, chymotrypsin, plasmin, and kallidinogenase, was administered to 28 patients with extensive thermal burns, all of whom were suffering from hypoproteinemia, hypoalbuminemia, and elevated globulin levels at the initiation of contrical treatment. The drug prevented the continued decrease in serum proteins, especially albumins, cnaracteristic of the early period of burns. Two to 3 days after the burn the activity of the proteolytic enzymes increased markedly along with the development of hypo- and dysprotinemia. Contrical was suspended after 7 days but proteolytic activity began to decrease and continued to do so for 7 more days. At this time the patients exhibited a tendency toward hyperexcretion of nitrogen (urea nitrogen) and sharp increase in excretion of creatine. Thus, and serum proteins that normally occurs in burns.

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Exobiology

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UDC 523.07

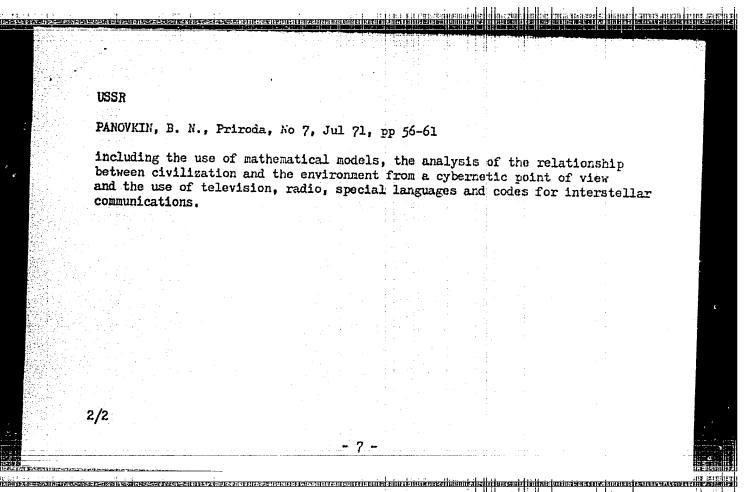
PANOVKIN, B. N., Candidate of Physicomathematical Sciences

"Extraterrestial Civilization -- Problems and Opinions"

Moscow, Priroda, No 7, Jul 71, pp 56-61

Abstract: The article discusses the difficulties of correct methodological formulation of the problem of extraterrestial civilizations and presents a critical review of some of the statements made by readers of Priroda in response to an article on this subject published several years ago. The success of the solution of this problem is related to the interpretation of such concepts as "reality." "common sense," "life," and "intellect," and the dissovery of the universal aspects of these concepts which can be applie to other hypothetical, highly organized systems of the universa. The search for cosmic signals must be continued in the hope that an intellect which resembles ours to such an extent that it will be recognized can be found but it is important to keep in mind that the intellect which may be discovered someday may be very different from out interpretation of the word. At present the traditional ideas about the origin of life are being replaced by wider, "quasicybernetic" nethodology for studying the possible evolutionary processes. Several readers suggest various approaches to the solution to this problem

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USSR

UDC 547.913.2:668.5

PANOZISHVILI, K., ZOL'NIKOVA, N. V., and BOROVKOV, A. V., All onion Scientific Research Institute of Agricultural Microbiology

"Verrukarin A from Dendrodochium Toxicum"

Tashkent, Khimiya, Prirodnykh Soyedineniy, No. 2, 1972, pp 245

Abstract: Using the activated charcoal adsorption method a toxic fraction was isolated from the Dendrodochium toxicum culture. A compound was isolated from the toxic fraction by Al₂O₃ column chromatography with melting point > 330° C. On the basis of its physico-chemical properties, IR and UV data it was identified as verrukarin A.

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1/2 023 UNCLASSIFIED PROCESSING DATE--020CT70 TITLE--PROPERTIES OF ZEULITES CONTAINING ION EXCHANGE CHEDMIUM -U-AUTHOR-(02)-PANSEVICHKOLYADA, L.V., SHARAY, V.N. COUNTRY OF INFO-USSR SOURCE--VESTSI AKAD. NAVJK BELARUS. SSR, SER. KHIM. NAVUK 1970 (1) 85-9 DATE FUEL ISHED ----- 70 SUBJECT AREAS-CHEMISTRY TOPIC TAGS-ZEOLITE, ION EXCHANGE, CHROMIUM COMPOUND, CRYSTAL STRUCTURE, CATALYTIC HYDROGENATION, ETHANOL CONTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS-UNCLASSIFIED PROXY PEEL/FRAME--1992/1560 STEP NO--UR/0419/70/000/001/0085/0089 CIRC ACCESSION NU--APO112554 UNCLASSIFIED

2/2 023 UNCLASSIFIED PROCESSING DATE--020CT70 CIRC ACLESSION NO--APO112554 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CR PRIMES POSITIVE CONTG. ZEOLITES DE THE A. X. Y. AND M TYPES WERE OBTAINED BY JON EXCHANGE BETWEEN A GIVEN ZEOLITE (E.G. OF NAA TYPE) AND 0.01 N CR(OAC) SUB3 (THE PRODUCT DESIGNATED AS CRNAY-1). OR BY MAINTAINING A ZEOLITE IN MOLTEN CREND SUB3) SUB3 .9H SUB2 O FOR 2 OR 24 HR (THE PRODUCTS CRNAY-2 AND CRNAY-3, RESP.). IN A AND X ZEOLITES OF LOW STABILITY IN ACIDIC MEDIUM, THE EXCHANGE DEGREE BETWEEN NA PRIME POSITIVE AND CR PRIMES POSITIVE IONS WAS 6-7 PERCENT WHEN USING THE 1ST PROCEDURE. REPEATING THE PROCEDURE OR INCREASING CREDACT SUB3 CONCN. LED TO DESTRUCTION OF THE CRYSTAL STRUCTURE OF THE ZEOLITES. BY THE 2ND PROCEDURE, APPLICABLE TO THE Y AND M ZEOLITES OF A HIGH SI CONTENT, THE EXCHANGE DEGREE WAS 37-60 PERCENT. REFRACTIVE INDICES OF THE PRODUCTS INCREASED WITH INCREASING OR PRIMES POSITIVE CONTENT. THE PRODUCT'S ALSO HAD INCREASED ADSORPTIVITY TO H SUB2 O VAPORS AND BENZENE AS COMPARED WITH THE PARENT ZEOLITES AND AN APPRECIABLY INCREASED CATALYTIC ACTIVITY IN DEHYDROGENATION REACTION OF ETOH.

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PROCESSING DATE--18SEP70 TITLE--OXIDES 2. ALLYLBORNEOL OXIDE AND ITS REACTION WITH SOME AMINES AND

NITROGEN CONTAINING HETEROCYCLIC COMPOUNDS -U-

AUTHOR-(02)-PANSEVICHKOLYADA, V.I., FALALEYEVA, L.N.

COUNTRY OF INFO--USSR

SOURCE--VESTSI AKAD. NAVUK BELARUS. SSR. SER. KHIM. NAVUK 1970, (1), 106-8

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY, AGRICULTURE

TOPIC TAGS--PROCESSED PLANT PRODUCT, EPOXY COMPOUND, ORGANIC OXIDE, AMINE DERIVATIVE, HETEROCYCLIC NITROGEN COMPOUND, IMIDAZOLE, AZO COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1987/1077

STEP NO--UR/0419/70/000/001/0106/0108

CIRC ACCESSION NO--APO104475

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

2/2 UNCLASSIFIED CIRC ACCESSION NO--APO104475 PROCESSING DATE--13SEP70 ABSTRACT/EXTRACT-- (U) GP-0+ ABSTRACT. KEEPING 30 G 2, ALLYLBORNEOL WITH 17 G 78PERCENT ACOUR 10 DAYS GAVE 55.8PERCENT 2, (2,3, EPOXYPROPYL) BORNEOL, B SUB2 123.5-4.5DEGREES, N PRIMEZO SUBD 1.4963, D PRIME20 1.0469. THIS KEPT WITH AMINES SEVERAL DAYS OR HEATED SEVERAL HR ON A STEAM BATH (C SUBS H SUB11 NH SUB2 AND PIPERIDINE REQUIRED 2 HR AT 120DEGREES TO COMPLETE THE REACTION), GAVE 24-60PERCENT FULLOWING 2, (3, (R SUBSTITUTED), 2, HYDROXYPROPYL) BORNEOLS: (R SHOWN): ETNH, M. 110DEGREES; ET SUB2 N. B SUB4 159-61DEGREES, N PRIMEZO SUBD 1.4880, D PRIME20 0.9798; C SUB5 H SUC11 NH, B SUB2 193DEGREES, N PRIMESO SUBD 1.4810, D PRIMESO 0.9695; PIPERIDINO, B SUB2 193-3.5DEGREES, N PRIME 50 SUBD 1.4900, D PRIME 50 1.0075; PHNH, A. 85-7DEGREES; 2, BENZIMIDAZOLYL, M. 154-5DEGREES; AND 2, BENZOTRIAZOLYL, M. UNCLASSIFIED

CIA-RDP86-00513R002202320019-0 "APPROVED FOR RELEASE: 08/09/2001

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UNCLASSIFIED . PROCESSING DATE--230CT70 TITLE--REACTION OF ALKYLPHENYL SUBSTITUTED GLYCIDOLS WITH AROMATIC AND

ALIPHATIC AROMATIC AMINES -U-

AUTHOR-(02)-BOGUSH, B.K., PANSEVICHKOLYADA, V.I.

COUNTRY OF INFO--USSR

SOURCE--VESTSI AKAD. NAVUK BELARUS. SSR, SER. KHIM. MAVUK 1970, (2),

118-19

DATE PUBLISHED---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--AROMATIC AMINE, BENZENE DERIVATIVE, PROPANOL, EPOXY CORPOUND

CONTROL MARKING--NO RESTRICTIONS

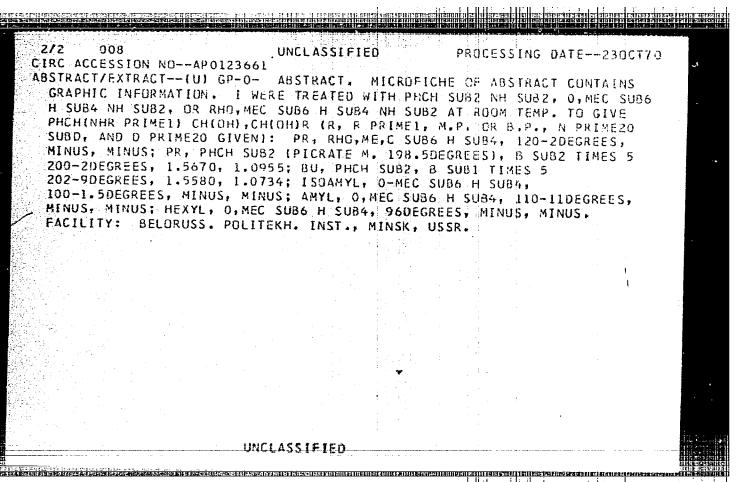
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1873

STEP NO--UR/0419/70/000/002/0118/0119

CIRC ACCESSION NO--APO123661

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"



USSR

UDC 621.382.539.1.074

KORZYUK, T. G., OVECHKIN, V. V., PANSHIN, A. Z., RAU, L. F., SMIRNOV, A. N., TAUBER, A. G., SHCHEBIOT, U. V., YUROVSKIY, A. V.

"Use of Thermoelectric Microrefrigerator for Cooling of Gamma-Spectrometric Si(Li) Detectors"

V sb. Prikl. yadern. spektroskopiya (Applied Nuclear Spectroscopy -- Collection of Works), Issue 1, Moscow, Atomizdat, 1970, pp 223-232 (from RZh--Elektronika i yeye primeneniye, No 5, May 1971, Abstract No 5B257)

Translation: The construction and production technology of Si(Li) Gamma radiation detectors with a thickness of the sensitive region up to 10 mm are described. The spectrometric properties are studied of such detectors, which are cooled with the aid of thermoelectric microrefrigerators of temperatures of minus 40°C. It is found that such cooled detectors make it possible to realize an energy resolution of 1-1.8 percent for 137Cs. Several possible and promising uses in applied spectrometry of the detectors described are shown.

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USSR

UDC: 620.193.6

BARBASHEV, Ye. A., BOGATOV, V. A., PANSHIN, B. I.

"Influence of Proton Bombardment in a Vacuum on Properties of Polymer Films"

L'vov, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 8, No 6, 1972, pp 66-68.

Abstract: This article presents a study of the effects of proton bombardment on polymer films. The study was performed using films of polyethylene terephalate 20 μ thick and polyvinyl chloride films 200 μ thick. Tensile-test specimens were bombarded in a vacuum by protons at 200 KeV energy produced by an accelerator at 0.014, 0.028 and 0.14 $\mu a/cm^2$ density, maximum flux 0.8·10¹⁵ protons per square centimeter. Proton bombardment causes both the strength and elongation of the films at rupture to decrease. The effect of radiation decreases with increasing specimen material thickness. Gas chromatography of the specimens before and after bombardment indicated that acetaldehide is formed upon bombardment of PETP films, which could occur only by rupture of the bonds in the main chain, i.e., destruction of the material.

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UNCLASSIFIED PROCESSING DATE--09DCT70

PLASTICS AT VARIOUS TEMPERATURES -UAUTHOR-103)-FINOGENOV, G.N., PANSHIN, B.I., CHERENINA, M.K.

COUNTRY OF INFO--USSR

SOURCE--MEKH. POLIM. 1970. 611). 29-34

DATE PUBLISHED----70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS-PLASTIC MECHANICAL PROPERTY, TENSILE STRENGTH, IMPACT STRENGTH, GLASS CLOTH, POLYMETHYLMETHACRYLATE, LAMINATED STRUCTURE, THERMAL EFFECT, LOW TEMPERATURE EFFECT

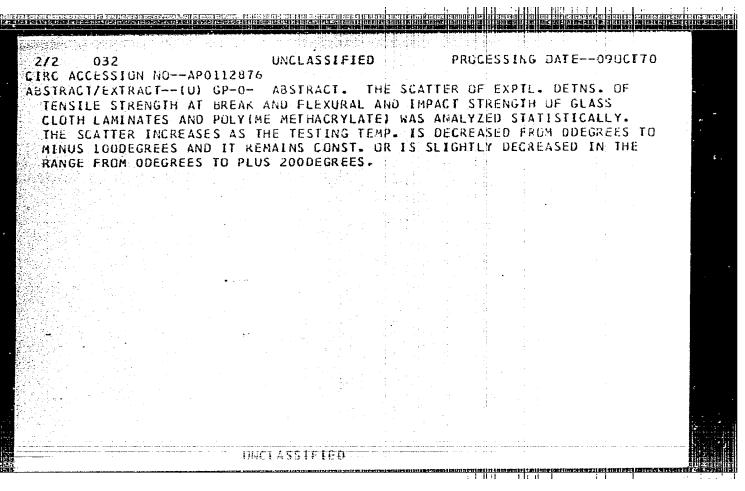
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PRUXY REEL/FRAME--1992/1896

STEP NO---UR/0374/70/006/001/0029/0034

CIRC ACCESSION NO--APOIL2876

UNCLASSIFIED



USSR

UDC 620.171-41

PANSHIN, B. I., KOTOVA, L. P., and KOLCHEV, O. V.

"Method for Determining the Mechanical Properties of Sheet Materials With a Shear in the Sheet Plane"

Moscow, Zavodskaya Laboratoriya, Vol 36, No 11, 1970, pp 1371-

Abstract: A brief review is presented of methods for determining the rigidity and strength characteristics of isotropic and anisotropic materials in the presence of shear in the sheet plane. The shortcomings of indirect methods for determining the shear characteristics of anisotropic materials are noted. Refined formulas for calculating the modulus of transferme elasticity G and the shear stress γ_B from data from tensile and compression tests are derived. A systematic error inherent to tests on buckling of sheet materials in conventional hinge frames is shown and evaluated in tests of ST-1 glass-reinforced textolite. A new stand for pure shear testing is described and presented schematically. It ensures a uniform stress and strain distribution and makes it possible to determine G and γ_B by refined

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PANSHIN, B. I., et al., 1970, pp 1371-1374	Zavodskaya	Laborato	riya, Vol	36, No	11,	
formulas without correct using the conventional a	ions. Comp nd new test	arative stands	results o are prese	btained nted in	tables.	, .
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UDC 509,216,22

PAN'SHIN, I. A.

"Modes of Reporting Fine-Structured Optical Information on Manganese-Bismuth Films"

Tr. Mosk, in-ta inzh, zh,-d,transp. (Proceedings of the Moscow Institute of Railroad Transportation Engineering), No 412, 1973, pp 29 - 32 (from RZh Avtomatika Telemekhanika i Vychislitel'naya Tekhnika, No 11, Nov 73, abstract No 11 A438)

Translation: A method is given for choosing recording modes, considering the characteristics of the magnetic recording material. Recording circuits are given which permit a sharp improvement in the dynamic range of the recording material. Four illustrations, three bibliographic citations.

Abstract by the author.

1/1

USSR

UDC: 621.391.837.32:681.84.083.84

NOZDRIN, V. V., PAN'SHIN, I. A., PODPALYY, Ye. A., STEPANOV, B. M., FABRI-KOV, V. A., All-Union Scientific Research Institute of Opticophysical Measurements

"A Method of Increasing Contrast in Recording Optical Images on Strip-Domain Magnetic Tape"

Moscow, Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol 18, No 3, May/Jun 73, pp 217-218

Abstract: A method is described for increasing image contrast in thermal video recording on strip-domain magnetic tape. Before recording, the magnetic structure of the tape is oriented by an alternating magnetic field with amplitude exceeding the saturation field applied in the plane of the tape. The recording (domain-rotation) field is then applied perpendicular to the orientation of the initial domains. The film is heated by 0.03 µs neodymium laser pulses. As a result, the domain structure is rotated through an angle proportional to the density of the irradiation energy. Contrast at low intensity is increased by an order of magnitude over conventional recording methods.

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- 94 -

Photographic

UDC 778.39:778.534.425

USSR

YEGOROV, YU. P., PAN'SHIN I A., STEPANOV, B. M., FABRIKOV, V. A.

"Photography on Magnetic Films of Large Size"

Moscow, Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, No. 6, Nov/Dec 71, pp 443-445

Abstract: An experimental study to test the possibility of recording an optical image of dimensions $50 \times 50 \text{ mm}^2$ by low intensity light pulses (10^{-7} sec) on a magnetic film with a band domain structure are described. The possibility of applying thin ferromagnetic films with a band domain structure to photograph objects in a pulsed irradiation regime was shown in 1969. Radiant energy scattered from the surface of the object to be photographed is recorded by the magnetic film in the form of the distribution of angles of rotation of the domains in segments of the film with a different degree of irradiation. Nonselectivity of the magnetic films to the radiation wavelength in the thermal recording method makes it possible to record images over a wide spectral range, recording the infrared, and the sensitivity over this whole range is comparable including the infrared, and the sensitivity over this whole range is comparable

71/2

USSR

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

YECOPOV, YU. P., et al, Zhurnal nauchnoy i prikladney fotografii i kinematografii, No. 6, Nov/Dec 71, pp 443-445

to the sensitivity of photographic films. In the 1969 study recordings were made on an iron-nickel film of dimensions 15 × 15 mm². The light source was a neodymium glass laser in the free generation regime with a pulse length of 1 msec and the image was visualized by a magnetic colloid. For practical purposes it was of great interest to increase the dimensions of the recorded image and to decrease the exposure time. A special technique to keep the composition of the iron-nickel alloy constant over the entire surface of the glass substrate was developed that kept the deviation of the composition in the magnetic film from the composition of the initial alloy less than 0.2%. To reduce exposure time a method of sequential recording of individual sections of the image was applied, the boundaries of which overlapped. The rated heat diffusion from the exposed segments was large in comparison with the repetition rate of the pulses and therefore the cumulative effect on the overlapping sections of the film was eliminated. A photograph is given showing the image on a 50 × 50 mm² film.

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Heat, Combustion, Detonation

USSR

UDC 624.074.075.04

PAN'SHIN, L. L., Moscow

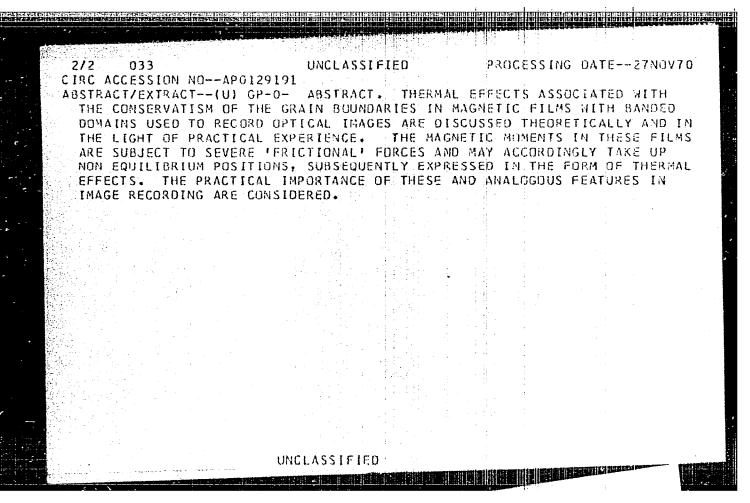
"Longitudinal Deflection of Supporting Structures of Multi-Story Buildings"

Moscow, Stroitel'naya Mekhanika i Raschet Soorusheniy, No 1, 1973, pp 30-35

Abstract: A method is presented for the calculation of multistory buildings for stability and according to a deformed
schema. A spatially similar model of the building is analyzed
in the form of a bundle of plane rod-like elements united by
continuous series of elastically pliable shearing joints and
absolutely rigid lateral and longitudinal joints. The problem
is reduced to the solution of a system of linear differential
equations. Some special cases of the work of supporting structures of multi-story buildings (single-span diaphragms, bundling supporting structures, framework-bundling systems) are
analyzed and algorithms of their solutions are given. Five
figures, fifteen formulas, three bibliographic references.

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PROCESSING DATE--27NOV70 UNILLASSIFIED TEMPERATURE EFFECTS IN FILMS WITH BANDED DOMAINS WHEN RECORDING AN OPTICAL IMAGE ON THESE -U-AUTHOR-(03)-PANSHIN: I.A., PODPALYY, YE.A., FABRIKOV, V.A. SOURCE--FIZIKA METALLOV I METALLOVEDENIE, FEB. 1970, 29, (2), 439-441 COUNTRY OF INFO--USSR DATE PUBLISHED --- FEB 70 TOPIC TAGS--FERROMAGNETIC FILM, MAGNETIC DOMAIN STRUCTURE, GRAIN BOUNDARY, SUBJECT AREAS--PHYSICS, MATERIALS DPTIC IMAGE, MAGNETIC MOMENT, THERMAL EFFECT, MAGNETIC RECORDING CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0126/10/029/002/0439/0441 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--300 2/ 18 23 100122121



Precision Mechanical & Optical

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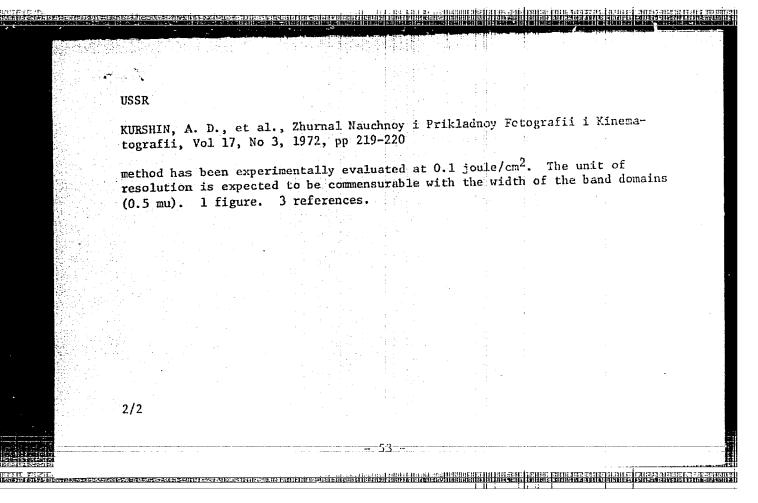
UDC 778.39

KURSHIN, A. D., PANSHIN, I. A. and FABRIKOV, V. A., All-Union Scientific Research Institute of Opticophysical Measurements

"Utilization of Brightness Hysteresis for Recording Images on Ferromagnetic Film"

Moscow, Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol 17, No 3, 1972, pp 219-220

Abstract: A method for recording images on ferromagnetic film is described, in which the azimuthal angle and the diffraction angle do not change and the image is obtained due to different intensity of the diffracted illumination on illuminated and unilluminated sectors. The new method is based upon the hysteresis nature of the relationship of diffracted-radiation intensity to a normal magnetic field. The hysteresis is manifested in the change of diffraction intensity after the action of a normal field upon a film with band domains. This change of diffraction intensity, brought about by the normal magnetic field, can be "photographed" by heating the film. This forms the basis of the new recording mechanism by means of which the image is fixed on the film in the form of sectors with different diffraction intensities. Pulse laser radiation is used to obtain the image. The sensitivity of this recording 1/2



USSR

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UDC: 669.15.156:620.17

PAN'SHIN, I. F., Kurgan Machine Building Institute

"Mechanical Properties of Steel Quenched From the Intercritical Temperature Interval"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 8, 70, pp 119-122

Abstract: An attempt is described to determine the relationship of the properties of 35KhNV steel (0.34% C: 0.33% Si: 0.67 Mn; 1.41% Cr: 1.48% Ni and 0.9% W) to its structure after quenching from the Ac1-Ac3 interval. 35KhNV steel after quenching from the intercritical interval was found to have lower strength and plasticity properties than after quenching and high tempering. The difference in the properties diminishes as hardness decreases. The proportionality limit depends on phase distribution and remains constant at a low level until the formation of a martensite skeleton. The greatest promise is held by incomplete quenching for a lower hardness (HRC \leq 30), when the set of mechanical properties is close to an improved steel and the possibility of stress redistribution is greater.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

UDO 621.385.54

PAN'SHIN, V.V.

USSR

"Approximate Calculation Of The Flight Time Of Electrons Between The Electrodes In Magnetron Devices With A Cathode In The Interaction Area"

Elektron. tekhnika. Nauchno-tekhn. ab. Elektron. SVCh (Electronica Technology. Scientific-Technical Collection. Microwave Electronica.), 1970, No 1, pp 143-145 (from RZh-Elektronika i yeye primaneniye, No 8, August 1970, Abstract No 8A118)

Translation: On the basis of adiabatic theory a formula is obtained for calculation of the flight time of electrons from the cathode to the anode in magnetron devices with the cathode in the interaction area. The dependences are presented of the flight time of electrons in a magnetron (expressed in periods of the cyclotron frequency), on the phase of the escape of an electron from a cathode, the parameters of the magnetic field, the amplitude of the high-frequency voltage, and the anode voltage. 4 ill, 3 ref. G.B.

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UDC 621.385.64

PAN'SHIN, V.Y.

"Approximate Computation Of The Impact Energy Of Electrons Against The Anode In Magnetron Devices"

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronic Technology. Scientific-Technical Collection. Microwave Electronica), 1970, No 9, pp 23-235 (sic) (from RZh--Elektronika i yeye primeneniye, No 12, December 1970, Abstract No 12A155)

Translation: A method is proposed for an approximate computation with the use of a simple computer of the impact energy of electrons against the anode in magnetron devices with secondary emission cathodes. The effect is considered of the amplitude and phase of the HF field and other parameters which determine the operating conditions of the device, on the character of the electron motion near the anode. Graphs are presented of the dependences of the averaged square of the dimensionless electron velocity at the point of impact, on the dimensionless parameters of the regime. A comparison of the computed characteristics of the anode losses with those observed in practice gives satisfactory agreement. 9 ref. Summary.

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UDC 632.95

USSR

GOL'DINOV, A. L., PANSHIN, Yu. A., ZIL'BERMINTS, G. S., SHAPKIN, L. G., and GALUTSKIY, G. M.

"Synthesis of Trichloroacetic Acid"

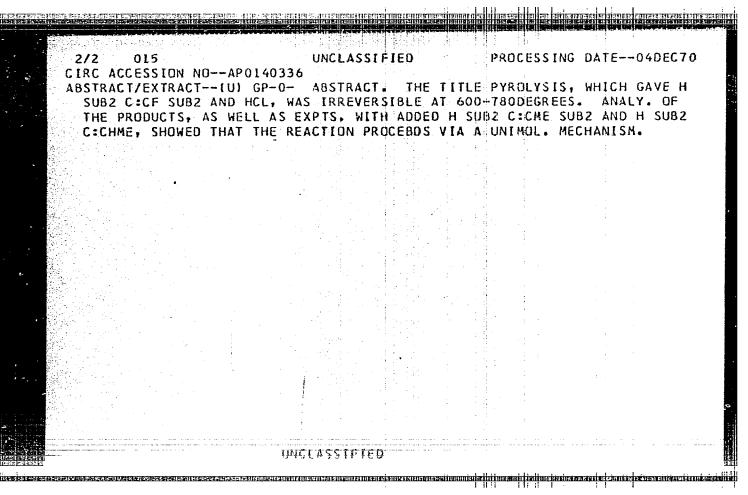
USSR Author's Certificate No 284781, Filed 11 Jun 69, Published 12 Jun 72 (from Referativnyy Zhurnal -- Khimiya, Svodnyy Tom, (I, L-S), No 1(II), 1973, Abstract No 1N499P by T. A. Belyayeva)

Translation: Trichloroacetic acid is synthesized by oxidation of CCl₃CHO (I) at 45-65°C in the presence of HNO₃ by passing oxygen through the reaction mixture, followed by a final oxidation with HNO₃ at 80-100°C. Example. Synthesis is carried out continuously in a sequence consisting of three glass reactors (Rc). The first Rc is supplied with I, as well as with HNO₃ and O₂ in amounts 0.2-0.5 and 0.4-0.8 mole per 1 mole of I, respectively. In some cases the second RC is also supplied with O₂. The reaction mixture stays in each Rc for 6 hrs. Temperature in the first, second, and third Rc is maintained at 45-65, 80-90, and 90-95°C, respectively. The concentration of HNO₃ is kept at 85-98%, and of I at 83-98%. The yield of CCl₃COOH is 97.5-100%.

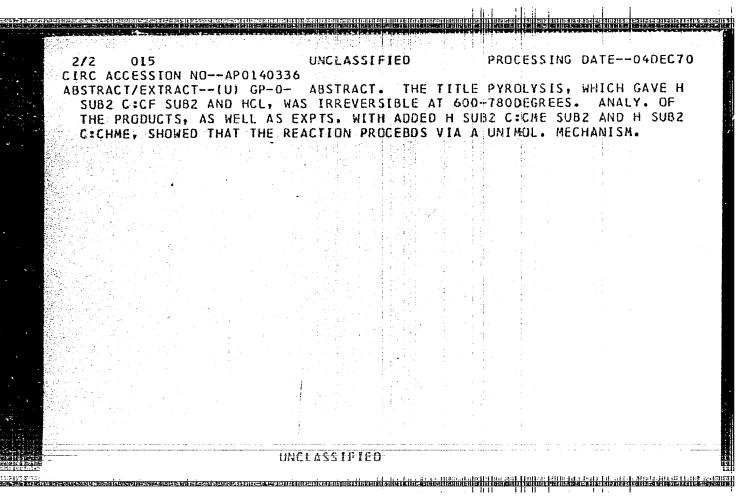
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PROCESSING DATE--04DEC70 UNCLASSIFIED TITLE--KINETICS AND MECHANISM OF THE THERMAL DECOMPOSITION OF 1,2, DIFLUORO, 1, CHLOROETHANE FREON 142 -U-AUTHOR-(02)-PANSHIN, YU.A., PANSHINA, N.G. COUNTRY OF INFO--USSR SOURCE-ZH. FIZ. KHIM. 1970, 44(6), 1396-9 DATE PUBLISHED----70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS-REACTION KINETICS, CHEMICAL REACTION MECHANISM, THERMAL DECOMPOSITION, FREON, PYROLYSIS, CHLOROFLUOROCARBON COMPOUND CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO----FD70/605012/F06 STEP NO--UR/0076/70/044/006/1396/1399 CIRC ACCESSION NO--APOL40336 UNCLASSIFIED



PROCESSING DATE--04DEC70 1/2 015 UNCLASSIFIED TITLE-KINETICS AND TECHANISM OF THE THERMAL DECOMPOSITION OF 1,2, DIFLUORO, 1, CHLUROETHANE FREON 142 -0-AUTHOR-102)-PANSHIN, YU.A., PANSHINA, N.G. COUNTRY OF INFO--USSR SOURCE-ZH. FIZ. KHIM. 1970, 44(6), 1396-9 DATE PUBLISHED---- 70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--REACTION KINETICS, CHEMICAL REACTION MECHANISM, THERMAL DECOMPOSITION, FREON, PYROLYSIS, CHLOROFLUOROCARBON COMPOUND CONTROL MARKING--NO RESTRICTIONS OCCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO----FD70/605012/F06 STEP NO--UR/0076/70/044/006/1396/1399 CIRC ACCESSION NO--APO140336 UNCLASSIFIED os de la company de la comp La company de la company de



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VDC 632.95

KAGAN, YU. S., KLISENKO, M. A., and PAN'SHIDVA HARMAN

"Some Questions in the Quantitative Toxicology of Organophosphorus Compounds"

V sb. Khimiya i primeneniye fosfororgan. soyedin. (Chemistry and Application of Organophosphorus Compounds -- Collection of Works), Moscow, "Nauka," 1972, pp 438-448 (from RZh-Khimiya, No 14, 25 Jul 72, Abstract No 14N448 by T. A. Belyayeva)

Translation: In vivo experiments during study of the neutralization of organophosphorus compounds (OPC) confirmed the regularity noted during in vitro investigations, viz. that there is a correlation between the rate of neutralization and the degree of toxicity. Neutralization of OPCs in insects takes place considerably more slowly than in the organism of warm-blooded animals, and this is the basic reason for the selectivity of OPCs for insects.

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BIOLOGY Agriculture

USSR

BURYY, V. S., and PAN'SHINA, T. N.

"Herbicides"

Moscow, Zdorov'ye, No 2, 1971, pp 28-29

Abstract: Following a description of the properties of the pain classes of herbicides authorized for sale in the USSR, their degree of toxicity, and symptoms of poisoning they produce upon inhalation or ingustion, the authors outline a series of steps that must be taken to safeguard those whose jobs require regular handling of the chemicals and those who may want to use them in private gardens and orchards. These steps are set forth in detail in the official publication Sanitarnyye pravila khraneniya, transportirovki i primeneniya yadokhimikatov v sel' skom khozyaystve (Sanitary Regulations for the Storage, Transport, and Use of Toxic Chemicals in Agriculture).

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

USSR

GABOVICH, A. M., PASHITSKIY, E. A. (Institute of Physics of the Ukrainian Academy of Sciences, Kiev)

"Polarization Operator of a Superconducting Electron Gas. Kohn Anomalies and Screening of the Charge in Superconductors"

Kiev, Ukrainskiy Fizicheskiy Zhurnal, April 1973, pp 549-557

Abstract: A static polarization operator of supercondcuting electron gas $II_3(q,0)$ was calculated within the framework of the Bardeen-Cooper-Schrieffer model at T=0. It is shown that, as a result of the Fermi surface diffusion by an amount on the order of Δ (where Δ is a gap in the spectrum of quasiparticles), the logarithmic singularity at the point $q=2k_F$ in $II_3(q,0)$ characteristic of the polarization operator for a normal electron gas II_n (q,0) is absent. This leads to a diffusion of the Kohn anomalies in the metal phonon spectrum and to a change in the character of the asymptotic behavior of the screened potential of the charge at distances of $r \geqslant \xi_0$ (ξ is the coherence length).

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USSR

CABOVICH, A. M., PASHITSKIY, E. A. (Physics Institute of the Ukrainian Academy of Sciences, Kiev)

Interaction of Nuclear "Magnetic Susceptibility of a Degenerate Electron Gas. Magnetic Moments in Normal Metals and Superconductors"

Kiev, Ukrainskiy Fizicheskiy Zhurnal, June 1973, pp 898-905

Abstract: Static magnetic susceptibilities of normal and superconducting electron gases were calculated by means of a macroscopic electrodynamic approach based on the Lindhard formula (Dan. Mat. Fys. Medd., 28, 8, 1954) relating magnetic permeability with transverse and longitudinal dielectric constants of a medium having space and time dispersion. A formula is obtained for the energy of the interaction of nuclear magnetic moments in normal metals. It is shown that the logarithmic singularity at the point q = 2kg, characteristic of the magnetic susceptibility of a degenerate electron gas, disappears in the transition from a normal to a superconducting state; this may affect the character of ordering nuclear spins in superconductors as well as the magnitude of the anomalies in the spin wave spectrum under the condition of the simultaneous existence of ferromagnetism and superconductivity. 1/1

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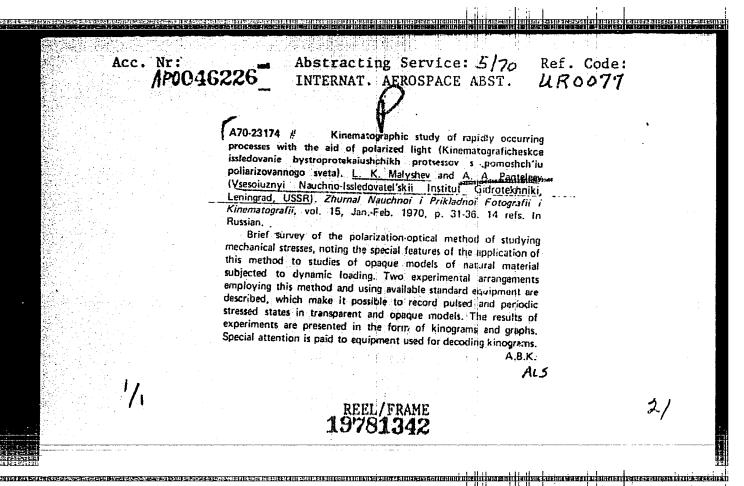
UDC 669.15-194:669.295:621.785.6: · USSR :539.389.3:620.183.6 GRINBERG, B. G., PASHKOV, P. P., PINCHUK, P. A., KNYSHEV, Yu. V., and SHTEYN, L. M., All-Union Correspondence Construction Engineering Institute *X-Ray Microanalysis of the Diffusion Layer in Titanium-Steel Bimetal" Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 7, 1973, pp 133-135 Abstract: Investigation results are presented of diffusion processes in the bimetal VT1-1 titanium + EI702(N 36TYu) alloy. The bimetal was produced by means of joint rolling of EI702 alloy, heated in argon, with cold VT1-1 titanium. The thickness of the bimetal was 0.12-1.2 mm, that of the covering was 10% of this. Parts from the bimetal were hardened from 950-1000°C and subjected to hardening temper (aging) at 650-700°C for 2-6 hrs. The redistribution of iron, nickel, and chromium from EI702 alloy into VII-1 titanium was determined. By comparison of the microhardness, 1/2 59



GRINBERG, B. G., et al., Izvestiya Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 7, 1973, pp 133-135

the electron-topography, and the characteristic X-ray radiation with concentration redistribution curves of iron, nickel, and chromium, the character and regularities of the formation of diffusion zones in the process of production and of heat treatment of the bimetal were exposed. One figure, three bibliographic references.

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USSR

UDC 778.534.83:535.5

MALYSHEV, L. K., and PANTELEYEV, A. A., All-Union Scientific Research Institute of Hydraulic Engineering imeni B. YE. Vedeneyev

"Cinematographic Investigation of Fast Flowing Processes With the Help of Polarized Light"

Moscow, Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol 15, No 1, Jan-Feb 70, pp 31-36

Translation: A polarization optical method of studying mechanical stresses and the peculiarities of its application in the study of opaque models made of natural material during dynamic loading are reviewed. Two experimental apparatuses which utilize the method are described. They are assembled from standard parts and make possible a recording of pulsed and periodic stress states in transparent and opaque models. Results obtained in experiments are presented in the form of cinemagrams and graphs. The technique of reading cinemagrams is given special attention.

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USSR UDC 539.4

PANTELEYEV, A. K., RZHAVIN, L. N., GL SHCHENKO, N. I., KONOVALOV, V. I., and TRIPOL'SKIY, S. S. (Zaporoz'ye)

"Investigation of Combined Vibrations of the Disk-Blade System of the Impeller of a Turboprop-Engine Turbine"

Kiev, Problemy Prochnosti, No 11, Nov 73, pp 78-81

Abstract: In order to study the nature and modes of the vibrations of a turboprop-engine turbine, as well as the distribution of the stresses, a tensometric investigation was conducted of the entire ste of the &2 blades and the disk of the turbine impeller. Results of the conducted tests show that the cause of the high stresses occurring in the blades is to be found in the critical impeller rotation rates, at which combined vibrations of the disk-blade system occur in accordance with a mode with five node diameters. Frequency adjustment of the disk-blade system was conducted via variation of the system components. A correlation was established between the critical rotation rates and the average frequency during the axial mode of vibrations of the blade set. On the basis of this correlation, control over the average vibration frequency of the blade set during the axial vibration mode has been introduced into the process of blade production. 5 figures. 1/1

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USSR

UDC 621.017.1.014.482

KHAITOV, R. M., and PANTELEYEV. E. I., Institute of Biophysics, Ministry of Health USSR

"Immunological Memory in Mice Following Lethal Irradiation and Shielding of an Extremity"

Moscow, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 6, 1973, pp 19-23

Abstract: CBA mice, 4 to 5 months old and 24-26 g in weight, were employed in studies to determine the effects of lethal irradiation (800 r) on the secondary immune response and the radioresistance of memory cells. Different groups of animals were either only immunized (0.5 ml of 2% SRBC, intraperitoneally) (controls), or immunized and 1.5 months later irradiated with protection of the right posterior extremity by a metal shield (6 mm lead, 1 mm aluminum) and reimmunized 12 days later, or immunized and irradiated with shielding without reimmunization, or irradiated with shielding and then immunized. The last group consisted of animals that were immunized, subjected to total body irradiation, and then were reimmunized. Comparison of blood hemagglutinin titers for the different groups at a comparative period of time, corresponding to 14-24 days after the secondary immunization, 1/2

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KHAITOV, R. M., and PANTELEYEV, E. I., Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 6, 1973, pp 19-23

revealed that only the group that had been immunized, irradiated with shielding, and reimmunized gave an anamnestic response with a titer (in \log_2) of 8.7 ± 0.25 (M \div SE). The titers for the other irradiated groups ranged from 4.2 to 4.6; the corresponding titer for the non-reimmunized controls was 5.9 \pm 0.14. Thus, shielding of bone marrow was required for an anamnestic response in irradiated mice; irradiation alone caused the titers to fall. Further studies with spleen cell transfer experiments showed that cells from immunized and totally irradiated animals would not endow unimmunized totally irradiated recipients with the capacity to respond with an anamnestic reaction. However, spleen cells from immunized unirradiated donors did endow these recipients with the ability to respond with a secondary immune response, demonstrating that the immune memory cells are pot radioresistant.

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STATES OF STATES OF THE STATES PROCESSING DATE--27NOV70 UNCLASSIFIED 028 TITLE--RADIATION GROWTH OF URANIUM DURING LOW BURN UPS +U-1/2 AUTHOR-(04)-KONOBEYEVSKIY, S.T., PANTELEYEV, L.D., LEVITSKIY, B.M.; NASKIDASHVILI, I.A. COUNTRY OF INFO--USSR SOURCE--AT. ENERG. 1970. 28(4), 326-32 DATE PUBLISHED ---- 70 SUBJECT AREAS--PHYSICS TOPIC TAGS--URANIUM, IRRADIATION, CRYSTAL LATTICE DEFORMATION, LATTICE DEFECT CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0089/70/028/004/0326/0332 PROXY REEL/FRAME--3008/0558 CIRC ACCESSION NO--APO137.644 UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--27NOV70

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. RADIATION GROWTH OF U AT MINUS
150DEGREES AND 160DEGREES WAS STUDIED IN THE 1ST STAGES OF IRRADN., US CIRC ACCESSION NO--APO137644 BEING THERMALLY PRETREATED AT VARIOUS TEMPS. 20-420DEGREES. STAGE OF GROWTH WAS THE RESULT OF THE FORMATION OF INDIVIDUAL DEFECTS CAUSING THE ANISOTROPIC DEFORMATION OF THE ALPHA U LATTICE IN THE TOTAL VOL. OF THE METAL, NOT ONLY IN THE NEIGHBORHOOD OF THE THERMAL PEAKS. OWING TO VACANCIES FORMED DURING THE KNOCK OUT OF ATOMS BY FISSION FRAGMENTS, THE CONTRACTION INSIDE THE ZIGZAG LIKE LAYERS OF ALPHA U LATTICE TOOK PLACE AND THE DISPLACED ATOMS WERE SITUATED IN POSITIONS WITH THE COORDINATION NO. OF 5, PYRAMIDAL DEFECTS, OR 4 OR 6, OCTAHEDRAL DEFECTS; VOL. AND AXIAL DEFORMATIONS CAUSED BY THE FORMER DEFECTS EXCEEDED MANY TIMES THOSE ARISING WHEN DCTAHEDRAL DEFECTS WERE FORMED. IN THE PRESENCE OF LATTICE IMPERFECTIONS, THE PYRAMIDAL DEFECTS WERE FORMED PREDOMINANTLY. IN THE IST STAGE OF GROWTH, PARTIAL RECOMBINATION OF DEFECTS TOOK PLACE WHICH REDUCED THEIR AMT. IN U DEFORMED AT LOW TEMPS., DISPLACED ATOMS WERE PREVENTED FROM RECOMBINING OWING TO THEIR ADSORPTION ON VARIOUS LATTICE IMPERFECTIONS, WHICH EXPLAINED THE HIGH RATE OF GROWTH IN THESE SPECIMENS. WHEN THE LOCAL CONCN. OF DEFECTS REACHED A SUFFICIENTLY HIGH VALUE. THE FORMATION OF THEIR COMPLEXES STARTED OWING TO THE FIELD OF TENSION. THE STAGE WHEN AN EQUIL. BETWEEN THE NO. OF FORMED INDIVIDUAL DEFECTS AND THE NO. OF DEFECTS FORMING THEIR COMPLEXES WAS REACHED CORRESPONDED TO THE LINEAR COURSE OF THE RADIATION GROWTH CURVE.

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1/2 011 TITLE-ECONOMIC ENCOURAGEMENT OF HIGH QUALITY MANUFACTURING -U-

PROCESSING DATE--090CT70

AUTHOR-(02)-LINKE, YE.A., PANIELEYEV, V.D.

COUNTRY OF INFO--USSR

SOURCE-STANDARTY I KACHESTVO, 1970, NR 3, PP 54-55

DATE PUBLISHED ---- 70

SUBJECT AREAS—BEHAVIORAL AND SOCIAL SCIENCES

TOPIC TAGS-ECONOMIC INCENTIVE, INDUSTRIAL PRODUCTION, QUALITY CONTROL

CONTROL MARKING-NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/1743

STEP NO--UR/0422/70/000/003/0054/0055

CIRC ACCESSION NU--APO103507

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USSR

WDC 621.375.82

GLAZER, 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 MnBi 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 GaAs semiconductor laser for recording information on a ferromagnetic film of MnBi is experimentally investigated. MnBi film 700 Å 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 to a fraction of a watt. Bibliography of four.

- 38 -

USSR

UDC 681.333:53

KALININ, I. F., SOSUSTIN, B. P., PANTELEYEV, V. I., Scientific Research Institute of Automation and Electromechanics Affiliated With Tomsk Polytechnical Institute

"A Device for Modeling Electric Circuits"

USSR Author's Certificate No 321832, filed 7 Apr 70, published 31 Jan 72 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 7, Jul 72, Abstract No 78477 P)

Translation: This Author's Certificate introduces a device for modeling electric circuits which contains a comparison module, a feedback module, an input signal generator, a load model, an operational amplifier, a square pulse generator, and relays. As a distinguishing feature of the device, the class of solvable problems is enlarged by connecting the winding of the relay in the comparison unit to the feedback module and through the normally closed contact of the commutation relay to the input signal generator, whose first output is connected to the square pulse generator. The output of the square pulse generator is connected through the first normally closed contact of the comparison module relay and

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CIA-RDP86-00513R002202320019-0 "APPROVED FOR RELEASE: 08/09/2001

KALININ, I. F. et al., USSR Author's Certificate No 321832 through the feedback module to the load model. The second output of the input signal generator is connected through the operational amplifier and the normally open contact of the commutation relay to the winding of the comparison module relay. The winding of the commutation relay is

connected through the second normally closed contact of the comparison module relay to the zero line, the load model being connected through the first normally open contact of the comparison module to the zero line as well. One illustration.

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UDC 621.378.35

BOGATOV, A.P., YELISEYEV, P.G., PANTELEYEV, V.I., SHEVCHENKO, YE.G.

*Comparison Of Instantaneous And Average Emission Spectrum Of An Injection Laser In A Regime Of Spontaneous Pulsations"

Kvantovaya elektronika, Moscow, No 5, May 71, pp 95-95

Abstract: A comparison is made of the spectra of the multimede generation of an injection laser, obtained with averaging during not more than 10-10 sec ("instantaneous" spectrum) and during 105 pumping pulses ("average" spectrum).

A "Kontrol'-2" photoelectron recorder and a DFS-8 diffraction spectograph were used for observation of spectrs with a large resolving time. A number of models of lasers based on heterostructures in the system GaAs-Alas and operating at 300° K were studied. The data presented in the paper pertain to a diode with a typical behavior for all the models studied which has a one-way heterostructure and a Fabry--Perot resonator with a length of 347 micrometer and a width of 200 micrometer. A pulse of the pumping current had a duration of 200 nsec, a repetition frequency of 5--500 Hz, and an amplitude up to 40 amp, with the presence of deep pulsations of laser emission, the instantaneous spectrum in the separate pulses strongly differs from the average and contains an arbitrary set of modes of the number observed in the sverage spectrum. It is assumed that the random dis-

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BOGATOV, A. P., et al., Kvantovaya elektronika, Moscow, No 5, May 71, pp 93-95

tribution of photons with respect to the oscillation modes at the start of the pulses predetermines the instantaneous generation spectrum. It is noted that during the transition to a singlemode regime the spontaneous emission pulsations disappear. Received by editors, 28 May 71. 3 fig. 7 ref.

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USSR

BERLOVICH, E. Ye., BLINNIKOV, Yu. S., VAYSHNIS, P. P., VITMAN, V. D., YELKIN, Yu. V., IGNATENKO, Ye. I., PANTELEYEV, V. N., and TARASOV, V.K., B. P. Konstantinov Nuclear Physics Institute

"Short-Lived Osmium Isotopes"

Moscow, Izvestiya Akademii Nauk SSSR -- Seriya Fizicheskaya, No 12, 1972, pp 2490-2498

Abstract: The purpose of the experiments described in this paper is to detect 1750s and to obtain information concerning gamma irradiation of this and lighter osmium isotopes. The short-lived isotopes were obtained in spallation reactions by irradiating mercury with 1-Gev protons in the synchrocyclotron of the irradiation conditions vary, inasmuch as the proportion of the different Os isotopes in the specimens depends on the mode of proton bombardment. In the gamma irradiation, the gamma ray spectrum was measured by a Ge(Li) detector, with a resolution of 3.5 kev for a line of 662 kev, and the spectra were recorded by an electronic system including an AI-1024 analyzer, a control block with timer, and the Minsk-22 computer to measure half-lives. Isotopes

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USSR

BERLOVICH, E. Ye., Izvestiya Akademii Nauk SSSR -- Seriya Fizicheskaya,
No 12, 1972, pp 2490-2498

with half-lives of more than 2.5 minutes and less than 2.0 minutes were investigated, and tables of their gamma-radiation spectra are given. Results vestigated, and tables of their gamma eradiation of earlier papers. An attempt was of the present paper are compared with those of earlier papers. An attempt was also made to find a genetic connection between short-lived osmium and rhenium also made to find a genetic connection between short-lived osmium and rhenium isotopes, and a table for the gamma irradiation of 174Re is also given.

* Leningrad Institute of Nuclear Physics;

USSR

UDC 621.318.576

LERNER, M. I., PANTELEYEV, V. N., RYZHEVSKIY, A. G., SHLYANDIN, V. M.

"Digital Display Device"

USSR Author's Certificate No 307401, filed 27 Nov 69, published 29 Jul 71 (from RZh--Avtomatika, Telemekhanika i vychislitel'naya tekhnika, No 4, Apr 72, Abstract No 4A474P)

Translation: A digital display device is proposed which contains a counting decade, a decoder, switches, a display tube, and switch transistors, the base outputs of which are connected via resistors to the outputs of the low-order flip-flop of the counting decade. In order to use low-voltage elements requiring a feed voltage which is positive with respect to the common point to control the indicator tube, the anodes of the indicator tube are connected via series-connected resistors and diodes to the power supply and via capacitors to the collectors of the switch transistors connected via resistors to the power supply, and the bases of the transistors are connected via resistors to the control pulse source. There is 1 illustration.

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USSR

UDC: 621.3.083.721

PANTELEYRY V. N., RYZHEVSKIY, A. G., and SHLYANDIN, V. M.

"Shape of the Scanning Voltage in Time-Pulse Converters"

Novosibirsk, Avtometriya, No 5, 1971, pp 97-104

Abstract: Since the available literature offers no means of generalizing the choice of scanning voltage shape in analog-digital converters used for time-pulse conversion, the purpose of the authors is to develop such an approach. A possible application of the approach is to find new areas for the utilization of the rating the proper scanning voltage shape are shown in the form of block diagrams. It is shown that the shape is determined by the and a general equation is obtained for the scanning voltage. From this equation, an expression for the voltage as applied to a parconversion characteristic.

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USSR

PANTELEYEV. V. V., RAZINOVA, S. M., VASIL'YEV, S. S.

"Temperature Field in a Discharge Column Bounded by Walls"

Moscow, Khimiya i Fizika Nizkotemperaturnoy Plazmy, Moscow University Press, 1971, pp 139-142

Abstract: Rotational gas temperature distribution is spectrometrically determined for a discharge in air in an enclosed tube. The ISP-51 spectrograph was used with a camera having a focal length of 270 mm. The intensity of the rotational lines was also determined photoelectrically, using the FEP-1 attachment. A discharge tube with an inside radius of 0.2 cm was used. The results agree with data in the literature obtained with a high-dispersion spectrograph. Three figures, one table, bibliography of five titles.

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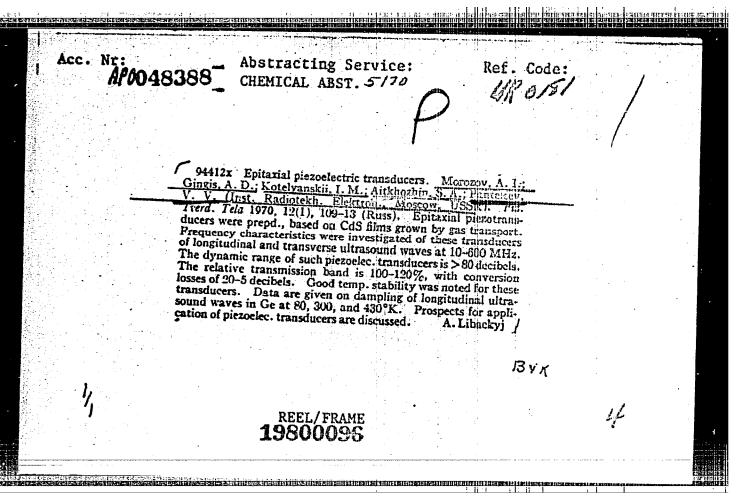
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1/2 033 PROCESSING DATE--13MOV70 TITLE--YIELD OF METAL SUBSTANCE FOR METALS EXPOSED TO THE ACTION OF LASER RADIATION -U-AUTHOR-(04)-KORUNCHIKOV, A.I., PANTELEYEV, V.V., PUTRENKO, O.I., YANKOVSKIY, A.A. COUNTRY OF INFG--USSR SOURCE--ZH. PRIKL. SPEKTROSK, 1970, 12(5), 819-23 DATE PUBLISHED ---- 70 SUBJECT AREAS -- MATERIALS, PHYSICS TOPIC TAGS--BIBLIOGRAPHY, LASER THERMAL EFFECT, METAL SURFACE PROPERTY CENTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1425 STEP.NO--UR/0368/70/012/005/0319/0823 CIRC ACCESSION NO--APO135099

UNCLASSIFIED PROCESSING DATE13NOV70 CIRC ACCESSION MOAPO135099 ABSTRACT/EXTRACT(U) GP-0- ABSTRACT. A REVIEW WITH 13 REFS., CUNTG. DATA ON THE EFFECTS OF LASER RADIATION FOCUSED ON SN., PB., ZN., MG., AL., CU., NI., FE., MD., W., AND C TANGETS. UNCLASSIFIED				
ABSTRACT/EXTRACT(U) GP-O- ABSTRACT. A REVIEW WITH 13 REFS., CONTG. DATA ON THE EFFECTS OF LASER RADIATION FOCUSED ON SN, PB, ZN, MG, AL, CU, NI, FE, MD, W, AND C TARGETS.			PROCESSING DAT	E13N0V70
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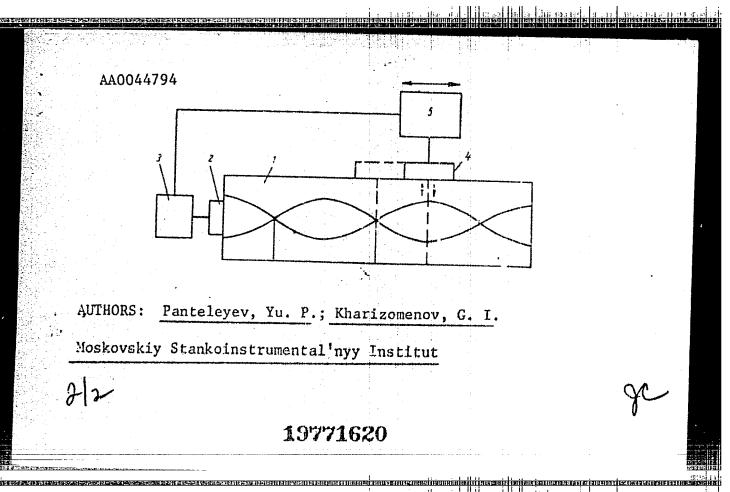
UR 0482

Soviet Inventions Illustrated, Section II Electrical, Derwent,

243237 ULTRASONIC LENGTH AND DISPLACEMENT GAUGE based on the propagation of ultrasonic waves down a waveguide and the exact measurement of the standing wave antinode positions, is improved in accuracy by the additional use of a second ultrasonic transmitter-receiver set up perpendicular to the waveguide and detecting the precise position of the antinode. The second unit is fixed to the length or displacement measuring device and moves with it. The diagram shows the elongated body l forming the master waveguide, on the end of which is the primary ultrasonic transmitter 2 energized from generator 3. The position of the antinodes in the standing waves propagated by 2 is the hasis on which the length or displacement is measured, converted by instrument 5 from a measure of the time of passage of the waves along I. Connected with 5 is the secondary ultrasonic set 4, which acts as a fine position indicator of the wave phase 22.3.67 as 1147486/25-28. YU.P. PANTELE STANSSIN-I.
KHARIZOMENOV. MACHINE TOOL INST., DSCOW. (24.9.69) Bul 16/5.5.69. Class 42k, 42b. Int.Cl.G Oln,G Olb

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Ion Exchange

USSR

UDC 66.074.7

PANTELEYEVA, A. P., DOLMATOVA, M. YU., and DOLMATOV, YU. D.

"Study of the Ion-Exchange Interaction of Bivalent Cations with Alginic Acid"

Leningrad, Radiokhimiya, Vol XIV, No 5, 1972, pp 741-743

Abstract: New experimental data are presented on the interaction of alginic acid with metal cations as a function of the conditions of this process, and the problems of a specific nature of the interaction are discussed. Laboratory samples of alginic acid (AlgH) and its calcium hydride form (AlgCaH) obtained by saturation of alginic acid with calcium ions under static conditions were used for the investigation. The product obtained contained 24-27 mg of calcium per 1 gram of acid. A study was made of the exchange of

Mn²⁺, Ni²⁺, Co²⁺, Ca²⁺, Sr²⁺, Cu²⁺ ions from 3.0·10⁻³ normal solutions of the chloride salts tagged by their radioactive isotopes (⁵⁴Mn, ⁹⁰Sr⁺ 90_Y, ⁶³Ki, ⁴⁵Ca, ⁶⁰Co). All of the experiments were performed under thermostated conditions using the experimental procedure and radiometric and chemical analyses introduced previously (M. Yu. Dolmatova, et al., Radiokhimiya, Vol 10, No 3, 379, 1968). Inasmuch as in aqueous solutions at pH > 5 sodium alginate forms a colloidal solution, the method of dialysis with ultrafiltration was used to separate the phases at pH = 7.5 (S. M. Puchkova, Can-

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PANTELEYEVA, A. P., et al., Radiokhimiya, Vol XIV, No 5, 1972, pp 741-743

didate's Dissertation, Medical Institute, Chelyabinsk, 1969). The experimental data are presented in the form of the ion distribution coefficients during static soprtion. The possible mechanism of the observed effects connected with the structural features of the ion-exchange resins is proposed.

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UDC 669-172

USSR

PANTELEYEVA, G. V., LYUTOVICH, A. S., CHUPRIKOV, G. Ye., and FROLOV, A. V.

"Structure and Electrophysical Properties of Boron in Crystals Produced by Crucibleless Zone Melting in a Vacuum and in an Atmosphere of Hydrogen"

Monokristally Tugoplavkikh i Redkikh Metallov [Single Crystals of Refractory and Rare Metals -- Collection of Works], Nauka Press, 1971, pp 95-99

Translation: Results are presented from a study of the little-studied material, baron, which is being used increasingly for the manufacture of heat-resistant, refractory alloys, as well as for semiconductor devices for operation under high temperature conditions. Metallographic investigations by the method of chemical thermal etching were performed on high-purity specimens grown by crucibleless zone melting in various atmospheres. The superiority of the structure of boron grown in a vacuum in comparison to that produced in hydrogen is demonstrated. Certain electrophysical properties of boron crystals are studied. 2 Tables; 4 Figures; 4 Bibliographic References.

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1/2 026 TITLE -EFFECT OF TRINITROPHENYLATION OF MYOSIN ON THE ISOTOPIC EXCHANGE OF OXYGEN IN THE MYDSIN ATP H SUB 2 PRIME 18 O SYSTEM -U-AUTHOR-(03)-KULEVA, N.V., KARANDASHOV, E.A., PANTELEYEVA, N.S. COUNTRY OF INFO--USSR

SOURCE--BIOKHIMIYA 1970, 35(1), 42-7

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- MUSCLE PHYSIOLOGY, ADENOSINE TRIPHOSPHATE, ORGANIC NITRO COMPOUND, BENZENE DERIVATIVE, ORGANIC SULFUR COMPOUND, OXYGEN METABOLISM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/0862

STEP NO--UR/0218/70/035/001/0042/0047

CIRC ACCESSION NU--APOOSSS62

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

2/2 · 026
CIRC ACCESSION NO--APO055562
ABSTRACT--(U) GP-O- ABSTRACT. THE BINDING OF FREE MHSUB2 GROUPS
BY 2,4,6-TAINI-TROBENZENESULFONATE (INBS) IN MYDSIN ATPASE INHIBITED, BY
40-70PERCENT, THE ISOTOPIC O EXCHANGE REACTION CATALYZED BY MYDSIN
PRESENCE OF MGPRIMEZ POSITIVE 5-9-FOLD, DEPENDING UPON THE NO. OF BOUND
ACTIVITY MAS SIMILAR TO THAT OF ACTIN. COMPORMATION OF TRINITROPHENYLATED

CITYLE CENTER OF MYDSIN MAY OCCUR DURING FORMATION OF TRINITROPHENYLATED

UNCLASSIFIED

UNCLASSIFIED

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UDC 669.183.218.5

AKINFIYEV, V. I., DUNETS, A. M., and PANTELEY VA R. I.

"Sulfur Exchange in the Bath-Gas Phase System in an Open-Hearth Furnace With Blowing of Powdered Materials in a Stream of Oxygen Through the Metal and Without Blowing"

Proizvodstvo Chernykh Metallov [Production of Ferrous Metals--Collection of Works], No 75, Metallurgiya Press, 1970, pp 48-52

Translation: The exchange of sulfur between bath and gas phase in a 10 T openhearth furnace is studied during the period of melting and finishing in melts with blowing of iron ore concentrate and oxygen through the bath and without

The characteristics of participation of the gas phase in the desulfuration of the metal used in the work were not the concentration of sulfur in the combustion products, but rather its relative quantity (in relationship to the mass of metal), carried away by the combustion products from the working space per unit time. This quantity was determined for the period of melting and finishing of melts and for the blowing period in experimental melts. The combustion products were taken for analysis using a special device developed for the purpose. 1/2

It was established that desulfuration of the gas phase during the period

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

USSR

AKINFIYEV, V. I., et al., Proizvodstvo Chernykh Metallov, No 75, Metallurgiya Press, 1970, pp 48-52

of melting in most cases occurred more intensively than during the period of finishing. Worsening of desulfuration of the bath by the furnace atmosphere during the finishing period is explained not only by the decrease in activity of sulfur during this period, but also by the increase in basicity of the slag. The rate of desulfuration of the bath by the gas phase during blown melts refs.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

USSR

UDC 669.183.218.5

AKINFIYEV, V. I., DUNETS, A. M., and PANTELEYEVA, R. I.

"Sulfur Exchange in the Bath-Gas Phase System in an Open-Hearth Furnace With Blowing of Powdered Materials in a Stream of Oxygen: Through the Metal and

Proizvodstvo Chernykh Metallov [Production of Ferrous Metals--Collection of Works], No 75, Metallurgiya Press, 1970, pp 48-52

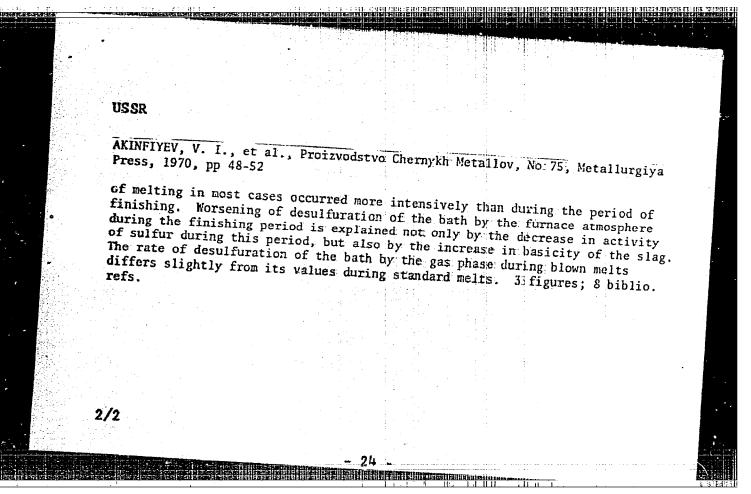
Translation: The exchange of sulfur between bath and gas phase in a 10 T openhearth furnace is studied during the period of melting and finishing in melts with blowing of iron ore concentrate and oxygen through the bath and without

The characteristics of participation of the gas phase in the desulfuration of the metal used in the work were not the concentration of sulfur in the combustion products, but rather its relative quentity (in relationship to the mass of metal), carried away by the combustion products from the working space per unit time. This quantity was determined for the period of melting and finishing of melts and for the blowing period in experimental melts. The combustion products were taken for analysis using a special device developed

It was established that desulfuration of the gas phase during the period

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"



1/2 019 TITLE--KINETIC DETERMINATION OF COPPER -U-

PROCESSING DATE--160CT70

AUTHOR-(05)-KREINGOLD, S.U., BOZHEVOLNOV, YE.A., ANTONOV, V.N., COUNTRY OF INFU-USSK SOSENKOVA, L.I.

SOURCE--U.S.S.R. 260,952

REFERENCE--OTKRY, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970 47(4) 95 DATE PUBLISHED--06JAN70

SUBJECT AREAS -- MATERIALS, CHEMISTRY

TOPIC TAGS--COPPER, CHEMICAL PATENT, OXIDATION, HYDROGEN PEROXIDE,

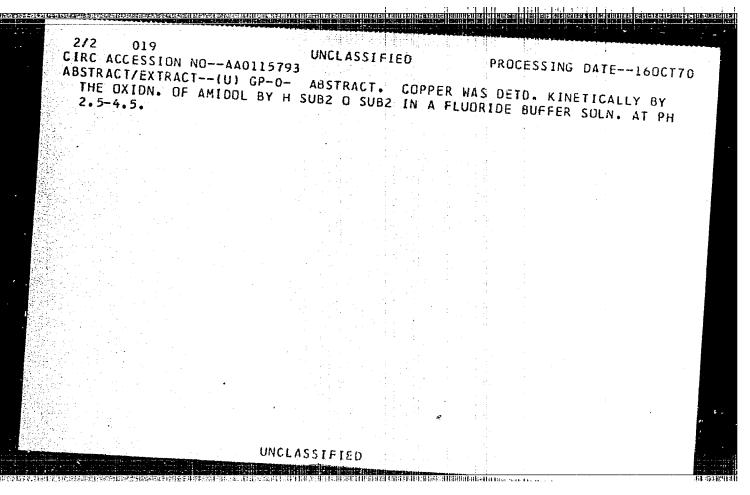
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/1994

STEP ND--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0115793

UNCLASSIFIED



TITLE--CN THE MECHANISM OF THE INTRACRANIAL PRESSURE FLUCTUATIONS PROCESSING DATE--020CTTO SECUNDARY TO STIMULATION OF THE DIENCEPHALON -U-

AUTHOR-(03)-BUNIN, A.YA., PANTIYELEVA, V.M., ZHDANOV, V.K.

COUNTRY OF INFO--USSR

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SOURCE--VESTNIK OFTAL MOLUGII, 1970, NR 2, PP 55-58

DATE PUBLISHED ----- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-BRAIN. INTRACRANIAL PRESSURE, DIAGNOSTIC MEDICINE. ELECTRIC

CONTRUL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REFL/FRAME--1986/0804

STEP NO--UR/0357/70/000/002/0055/0058

CIRC ACCESSION NO--APO102767

UNCLASSIFIED

2/2 027 CIRC ACCESSION NO--APO102767 UNCLASSIFIED ABSTRACT-(U) GP-0- ABSTRACT. A TOTAL OF 330 FLECTRIC STIMULI IN THE HYPOTHALAMUS. DIFFERENT AREAS OF THE BRAIN, BODY AND EXTREMITIES WERE IMPARTED TO 5 RABITS IN 10 TESTS WITH THE AIM OF ELUCIDATING MECHANISMS GOVERNING VARIATIONS IN THE LEVEL OF THE INTRAOCULAR TENSION FOLLOWING STIMULATION OF THE DEINCEPHALON WITH ELECTRIC SURRENT. IN APPLYING STIMULATION A SERIES OF COMPLEMENTARY WAVES, WHICH DEPEND UPON CHANGED BLOOD SUPPLY AND THE TONE OF INTRADCULAR VESSESL, EMERGED ON THE BASIC WAVES OF THE OPTHAL MOPHET HYSMOGRAM. INVESTIGATIONS SHOWED THAT CHANGES IN THE AMOUNT OF BLOOD FILLING INTRAOCULAR VESSESL IS ONE OF THE PRIME FACTORS CAUSING FLUCTUATIONS OF THE OPHTHALMOTONE IN STIMULATION OF THE DIENCEPHALON. AN IDENTITY OF OPHTHALMOPLETHYSMOGRAPHIC CHANGES OBSERVED IN ELECTRIC STIMULATION OF THE HYPOTHALMAUS AND OTHER PARTS OF UNCLASSIFIED

Acc. Nr: 190049043 Ref. Code: UP0357

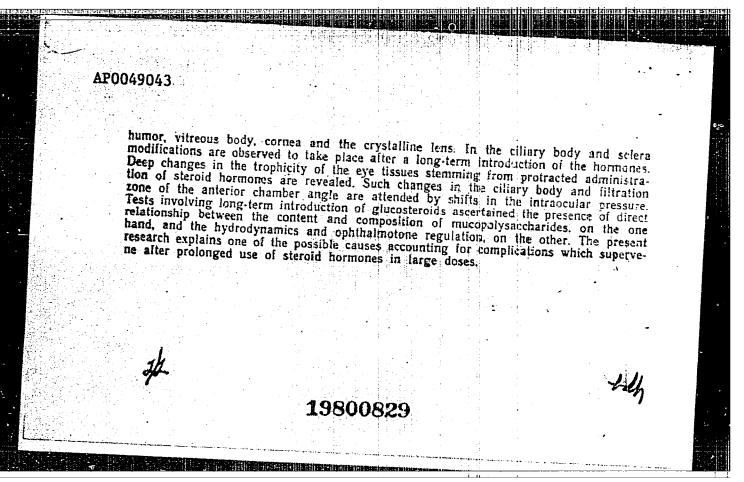
PRIMARY SOURCE: Vestnik Oftal'mologii, 1970, Nr /
pP / 3-/7

**Teffect of Glucocorticoids on the Eye Tissue
Mucopolysaccharides in Rabbits and the State
Of the Ophthalmotone Regulation

B. S. Kasavina, V. M. Pantiyeleva, A. M. Shapkina
Summary

Glucocorticosteroids (cortisone, hydrocortisone) were found to exercise different influence on the content and composition of mucopolysaccharides in the ocular hamors and tissues, depending upon the kind, dosage and timing of the hormones administration. The earliest and most pronounced changes are shown to occur in the aqueous

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UDC 576.851.47.095.38:576.858.9

PANTSKHAVA, N. N., DITYATKIN, S. Ya., and IL'YASHENKO, B. N., Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR, Moscow

"Reproduction of Infectious DNA from E. coli Phage in Proteus Cells"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, 1973, pp 35-40

Abstract: Studies were conducted to determine the optimum conditions for the infection of 2 strains of Proteus vulgaris (401 and 3137) with the circular DNA (1.7 x 10^6 MW) isolated from E. coli phage 10^6 7. DNA was isolated from ca. 10^{13} viral particles per 1 ml, and diluted with 0.05 M tris buffer, pH 7.8. The DNA preparation was mixed with a proteus culture, grown in peptone broth (Spofa, Czechoslovakia), and 0.2 ml samples were immediately frozen in a mixture of dry ice and alcohol at -70°, and then thaved in a water bath at 37° . After an additional 10 min incubation period, the bacteria were diluted with 1% peptone and the viral titer was determined by plaque assay on E. coli C. Optimal conditions consisted of a cell concentration of 1-2 x 10^{10} /ml, and 0.062-1 μ g/ml of DNA, pH 6.0-8.0, and Spofa peptone. Under these conditions 1/2

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PANISKHAVA, N. N., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, 1973, pp 35-40

1-4 x 10⁵ infectious centers were formed per 1 Mg of phage 107 DNA. The fraction of proteus cells that were transfected constituted 1/10⁵th of the total number of proteus cells. The low efficiency of infectivity was apparently due to the low number of proteus cells able to take up the DNA. The freezing and with E. coli phage 107 DNA. All previous studies had consisted of attempts at infecting proteus spheroplasts with phage 107 DNA. Proteus cells in the lag, logarithmic, and stationary phases of growth were equally well infected.

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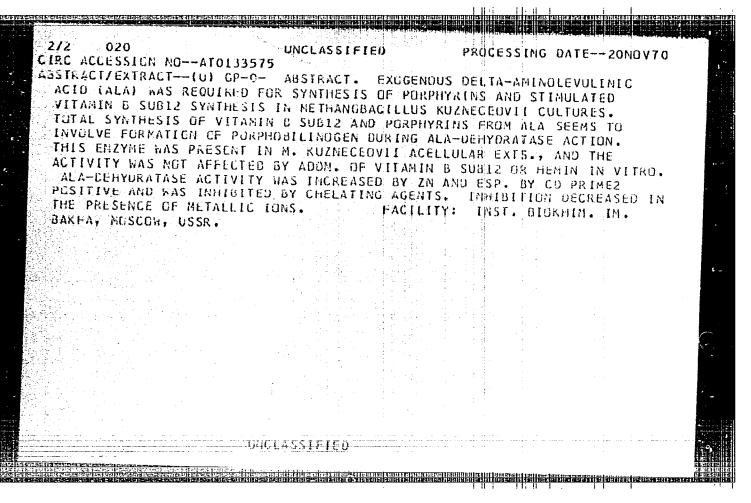
- 25 -

1/2 025 TITLE-VITAMIN & SUB12 -U-UNCLASSIFIED PROCESSING DARE--20NOV70 AUTHOR-102)-PANTSKHAVA, YE.S., PCHELKINA, V.V. CCUNTRY OF INFC-LSSR SOURCE--U.S.S.R. 265,043 REFERENCE-OTKRYTIYA, IZUBRET., PROM. OBRAZISY, TOVARNYE ZHAKI 1970, SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES, CHEMISTRY TEPIC TAGS--VITAMIN, COBALT CEMPOUND, BIOSYNTHESIS, BACILLUS, CONTINUOUS CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3003/1079 STEP-NO--UR/0482//0/090/900/00000/0000 CIRC ACCESSION NUT-AAD 130114 Unclass IFIED

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AHSTO	ACCESSION NO	9AA0130114 {U1 GP-0-	ABSTRACT	ied	PROCESSIA 8 SUBIZ IS ANDBACICLUS	6 UATE20%	IUV 7 g	
JHE.	PRESENCE OF	CO SALTS.	4 THERMOPH	TLIC METH	PROCESSIA 8 SUBIZ IS ANDBACICLUS	PREPO- BY RUZNECEGUII	ΙN	
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		WILLAS	SIFIED					

1/2 C20 UNCLASSIFIED PROCESSING DATE-2000V70 TITLE -- BLOSYNTHESIS OF VITAMIN B SUB12 AND PORPHYRING BY THERMOPHILIC METHANE FURNING BACTERIA -U-AUTHOR-(04)-BYKHOVSKIY, V.YA., ZAYTSEVA, N.I., PANTSKHAVA, YE.S., BUKIN, CCUNTRY OF INFO-USSR SGURCE--COKE. AKAD. NAUK SSSR 1970, 191(1), 221-3 DATE PUBLISHED ---- 7C SUBJECT AREAS--BIOLEGICAL AND MEDICAL SCIENCES TUPIC TAGS-BIUSYNTHESIS, VITAMIN B COMPLEX, METHANE, BACTERIA, ENZYME ACTIVITY, PORPHYRIN CENTREE MARKING--NO RESTRICTIONS DECUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3005/1670 STEP NO--UR/0020/70/191/001/0221/0223 CIRC ACCESSION NG--ATO133575 UNCLASSIFIED



1/2 UNCLASSIFIED TITLE--REACTIVITY OF COMPOUNDS WITH DIARYLMETHYLOL GROUPS. IV. BASICITY OF PROCESSING DATE--13NOV70 SUBSTITUTED AMIDES OF DIARYLGLYCOLIC ACIDS -U-

AUTHOR-(04)-SHKLYAYEV, V.S., CHEKRYSHKIN, YU.S., KOBLOVA, A.Z.,

COUNTRY OF INFO--USSR

SOURCE--ZH ORG KHIM. 1970, 6(5), 1055-61

DATE PUBLISHED---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES, CHEMISTRY

TOPIC TAGS -- AMIDE, CONDENSATION REACTION, AMINE DERIVATIVE, AROMATIC CARBOXYLIC ACID, CHLORINATED ORGANIC COMPOUND, BENZENE DERIVATIVE

CONTROL MARKING--NO RESTRICTIONS

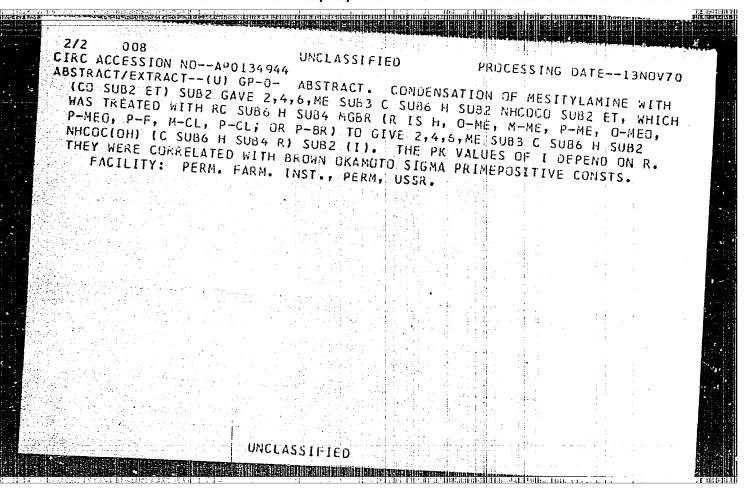
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1270

STEP NO--UR/0366/70/006/005/1055/1061

CIRC ACCESSION NO--APOI34944

UNCLASSIFIED

CIA-RDP86-00513R002202320019-0" APPROVED FOR RELEASE: 08/09/2001



019 TITLE--VAGOTOMY AND PYLOROPLASTY IN SURGERY OF DUDDENAL ULCERS -U-PROCESSING DATE--160CT70 AUTHOR-(04)-PANTSYREV, U.M., GRINBERG, A.A., MINTS, V.YA., AGEYCHEV, V.A. COUNTRY OF INFO--USSR

SOURCE--VESTNIK KHIRURGII IMENI I. I. GREKOVA, 1970, VOL 104, NR 4, PP DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--DUODENUM, SURGERY, CRANIAL NERVE, LESION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0038

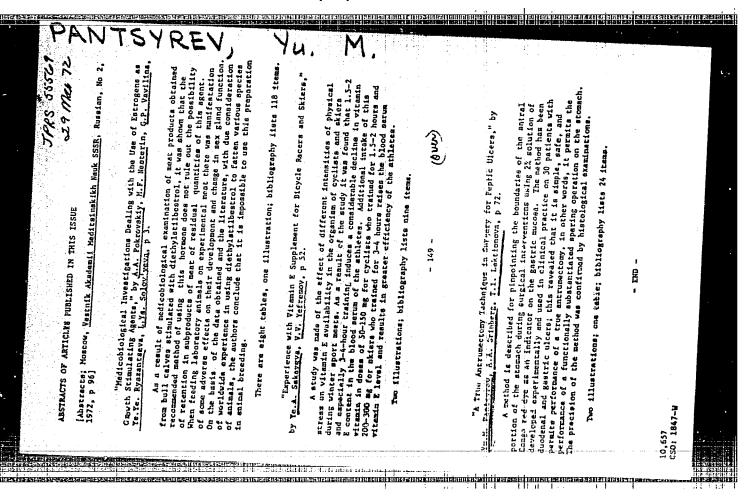
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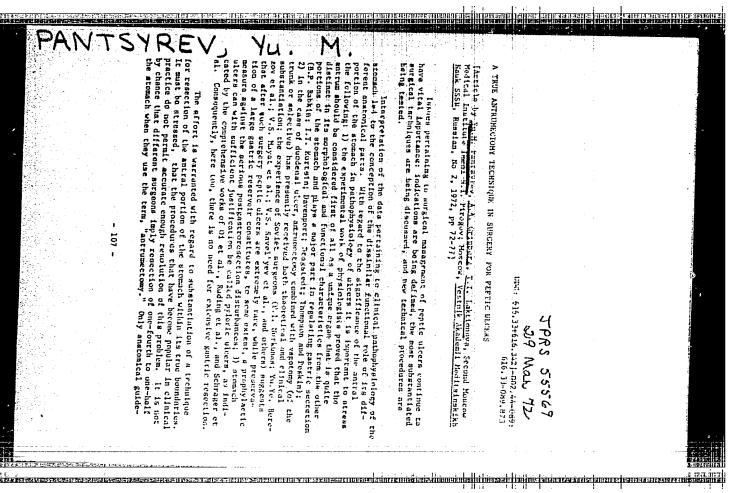
STEP NO--UR/0589/70/104/004/0074/0079

CIRC ACCESSION NO--APO105137

UNCLASSIFIED

多斯多特斯斯斯 2/2 019 CIRC ACCESSION NO--APO105137 UNCLASSIFIED PROCESSING DATE--160CT70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE HEINEKE-MIKULICZ PYLOROPLASTY ASSOCIATED WITH BILATERAL TRUNK OR SELECTIVE VAGOTOMY WAS ACCOMPLISHED IN 62 PATIENTS WITH DUODENAL ULGERS. FOURTY EIGHT PATIENTS WERE OPERATED UPON ON URGENT INDICATIONS FOR PERFORATION OR PROFUSE HEMORRHAGE FROM DUDDENAL ULCERS. LIGATION OF THE BLEEDING VESSEL WITH PYLOROPLASTY AND VAGOTOMY IS BELIEVED TO BE ADVANTAGEOUS IS SURGERY OF PROFUSE HEMORRHAGES, WHEN THE ROUTINE GASTRECTOMY YIELDS STILL GREAT PER CENT OF THE POSTOPERATIVE MORTALITY. DISSECTION OF A PERFORATING DUODENAL UECER, PERFORMED IN 38 PATIENTS, IS CONSIDERED TO BE MORE RADICAL THAN SIMPLE SUTURING OF THE ULCER. THE FORMER IS MORE FEASIBLE TECHNICALLY THAN GASTRECTOMY. IN VAST MAJORITY OF PATIENTS PYLOROPLASTY AND VAGOTOMY RESULTED IN RELIABLE INHIBITION OF THE GASTRIC SECRETION. AMONG 62 PATIENTS THERE WERE TWO DEATHS DUE TO CAUSES NOT RELATIVE TO SURGICAL INTERVENTION. IN THE REMAINDER GOOD IMMEDIATE RESULTS WERE OBTAINED. TWENTY SIX PATIENTS WERE INVESTIGATED CLINICALLY WITHIN THE TERMS FROM 3 MONTHS TO 1.5 YEARS, NO ULCER RECURRENCE WAS NOTED. SLIGHT DIARRHEA WAS OBSERVED IN 2 CASES. NO MARKED DUMPING SYNDROME PHENOMENA UNCLASSIFIED

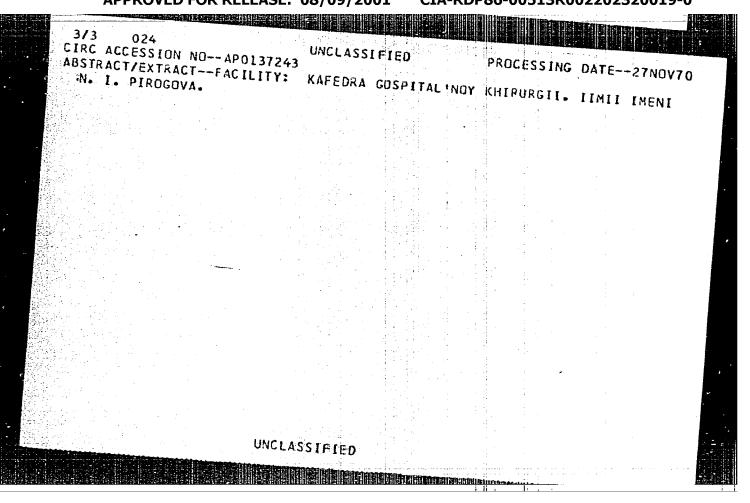




1/3 024 UNCLASSIFIED TITLE--VAGOTOMY IN SURGERY OF PEPTIC ULCER -U-PROCESSING DATE--27NOV70 AUTHOR-(03)-MAYAT, V.S., PANTSYREV, YU.M., GRINBERG, A.A. COUNTRY OF INFO--USSR SOURCE-KHIRURGIYA, 1970, NR 6, PP 28-34 DATE PUBLISHED ---- 70 SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--SURGERY, STOMACH, DIGESTIVE SYSTEM DISEASE, SECRETION, CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0052 STEP NO--UR/0531/70/000/006/0028/0034 CIRC ACCESSION NO--AP0137243 UNCEASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202320019-0"

2/3 UNCLASSIFIED CIRC ACCESSION NO--AP0137243 PROCESSING DATE--27NOV7G ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ON THE BASIS OF LITERATURE DATA AND PERSONAL ABSERVATIONS THE AUTHORS PRESENT A PATHOPHYSIOLOGICAL SUBSTANTIATION OF DIFFERENT METHODS IN THE SURGICAL TREATMENT OF PEPTIC THE NECESSITY OF DIFFERENTIATED APPROACH IN SOLVING THE PROBLEM ULCER. OF THE OPERATIVE TECHNIQUE WITH DUE CONSIDERATION OF THE LOCALIZATION AND COURSE OF ULCER, FEATURES SPECIFIC TO THE SECRETORY AND MOTOR FUNCTION OF THE STOMACH, IS EMPHASIZED. DUT DF 345 OPERATIONS IN PEPTIC ULCER 150 WERE PREFORMED IN COMBINATION WITH VAGOTOMY. IN OVER 80 PER CENT OF PATIENTS THERE WERE ABSOLUTE OPERATIVE INDICATIONS. RESECTION OF THE STOMACH IN COMBINATION WITH VAGOTOMY IS THE OPERATION OF CHOICE IN CHRONIC DUODENAL ULCER. PYLOROPLASTY WAS CARRIED DUT ONLY IN PATIENTS WITH A MARKED PREVALENCE OF SECRETION AFTER INSULIN STIMULATION. IN STENOSIS OF THE PYLORUS THE OPERATIVE TECHNIQUE IS MAINLY DETERMINED BY THE DEGREE OF STENOSIS AND STATE OF THE GASTRIC MOTOR ACTIVITY. A RARE INHIBITION OF THE LATER SHOULD SERVE AS A CONTRAINDICATION TO VAGOTOMY. SPARING OPERATIONS ARE PARTICULARLY EXPEDIENT IN EMERGENCY SURGERY IN PERFORATING ULCERS AND PROFUSE THE IMMEDIATE RESULTS OF 150 OPERATIONS WITH VAGOTOMY ARE SATISFACTORY. OUT OF 80 PLANNED OPERATIONS THERE WAS ONE LETHAL ISSUE. THE GREATEST LETHALITY WAS OBSERVED IN THE GROUP OF PATIENTS OPERATED FOR PROFUSE HEMORRHAGE. RELAPSES OF PEPTIC ULCER NERE NOT OBSERVED. THERE WERE SEEN NO MARKED POSTGASTRECTOMY DISORDERS. AT REMOTE POSTOPERATIVE PERIODS A MODERATE DIARRHEA WAS REVEALED IN 2 OUT OF 65 CLINICALLY EXAMINED PATIENTS. UNCLASSIFIED



USSR

UDC 669.245'71.017.3

ARKHANGEL'SKAYA, A. A., BOGACHEV, I. N., LITVINOV, V. S., and PANTSYREVA, Ye. G., Ural Polytechnic Institute imeni S. M. Kirov

"Phase Transformations in Nickel-Aluminum Alloys With Cesium Chloride

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 34, No 2, Aug 72, pp

Abstract: A study was made by metallographic, dilatometric, and roentgenostructural methods of the effects of the degree of nickel supersaturation on phase transformations during heating in substitutional Ni-Al-base solid solutions. The diffusionless transformation of a part of martensite into the β -phase in allows with 65 and 66 at% Ni is accompanied by a separation of Ni₃Al dispersion particles. At the same time, a reduction of the specific volume of martensite and β -phase takes place. The transformation in the 240-360 deg. temperature interval results in intense hardening of the alloy: its microhardness increases up to 900 kg/mm². Analogous effects are observed for the 64% Ni-2% Co-34% Al and 64% Ni-2% Fe- 34% Al ternary alloys. It is supposed that volumetric changes accompanying the formation of martensite and its transformation during heating must affect the properties

USSR

ARKHANGEL'SKAYA, A. A., et al., Fizika Metallov i Metallovedeniye, Vol 34, No 2, Aug 72, pp 541-546

of coatings, particularly during repeated heating and cooling, develop microcracks in the protective coating, decay the heat-resistant oxide film, and intensify the diffusion processes in the coating. Three figures, one table, five bibliographic references.

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USSR

UDC: 669.245'71.017.3

LITVINOV, V. S., BOGACHEV, I. N., ARKHANGEL'SKAYA, A. A., PANTSYREVA, Ye. G., "Electron Microscope Investigation of Nickel-Aluminum Alloy Martensite"

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 36, No 2, 1973,

Abstract: The structure of the alloy 64 at. % Ni + 36 at. % Al, in which martensite conversion has occurred upon cooling from high temperatures (1200°C) at rates preventing separation of excess nickel, is studied by an electron-microscope method. It is shown that the martensite needles consist of thin plates in twin orientation in relation to each other with twinning planes in the set {101}. A \(\beta\)-phase shear plan is suggested, leading to the formation of such a martensite structure.

USSR

тс 669.71°24:535.21:621.378.325

LITVINOV, V. S., and PANTSYREYA G., Sverdlovsk

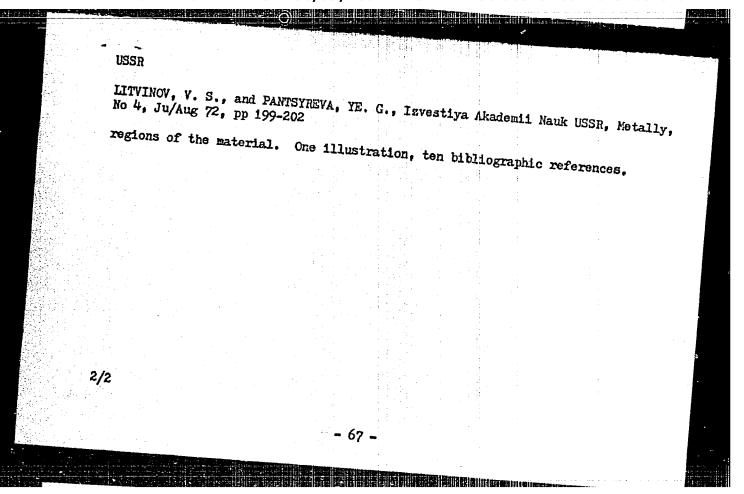
"Special Features of the Deformation and Disintegration of Compounds in the Ni-Al System Under the Effect of High Thermal Impulses"

Moscow, Izvestiya Akademii Nauk USSR, Metally, No 4, Jul/Aug 72, pp 199-202

Abstract: The stresses in the Ni-Al surface layer of gas turbine blades causing blade failure at high flow rates and high local temperature changes were simulated by using the inpulse effect of a light beam on specimens of Ni-Al binary alloys with different Ni contents. The microstructures of the specimens show a correlation between the size of the developing craters and the fusing temperature of alloys, indicating an incremse in crater size with decreasing fusing temperature. Signs of plastic deformation and microcracks were observed in the influence zone of one-phase specimens. The Ni2Al3 and

NiAl compounds and solid solutions showed low plasticity under local mechanical and thermal actions. A necessary condition for the plasticity of the alloy is the presence of the NigAl phase in its structure. As a result of the thermal impulse action, a sharp hardening of surface microvolumes takes place. This

is obviously connected with an increase of the density of defects in these



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"Effect of Groups at the 5 and the 8' Positions on the Rate of the Dark Decoloration Reaction of Colored Solutions of 1,3,3,-Trimethylspiro [indolin-2,2'-]2H-1 benzopyranes"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, 5, May 1973, pp 653-658

The reaction rates of thirty-five spiropyranes having the general form

were measured. The R and R' (the 5 and 8') groups were a variety of alkyle, alkoxyls, acids, esters, and halides. A detailed statistical analysis of the kinetics curve at 10° in toluene established that the decoloration reaction