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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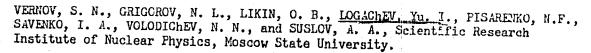
REEL/FRAME 19771100 18

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

Nuclear Physics

USSR

UDC 537.591.1



"Studies of Cosmic Radiation Aboard the Prognoz Satellites"

Moscow, Izvestiya Akademii Nauk SSSR, Fizika; Vol 37, No 6, 1973, pp 1138-1143

Abstract: Two Prognoz satellites were launched in April and June of 1972 into orbits with the following parameters: apogee -- 200,000 kilometers, perigee -- 950 kilometers, angle of inclination 65°. The satellites were launched toward the sun, the angles between projections of the apsides and the orbit through the plane of the ecliptic and the direction of the sun being 22 and 23 degrees, respectively. The angle between projections of the apsides of the two satellites was 77° in July 1972. The satellites served about six months each. Although they were in orbit during the decline in the 11-year solar cycle, their first months of observation coincide with an anomalous increase in solar activity. Background radiation was almost never recorded in these months. From April through September 1972, interplanetary space was filled with intensive streams of golar protons at energies of about 1 Mev. Higher energy protons were observed only during the August flares. The electron flow 1/3

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VERNOV, S. N., et al., Izvestiya Akademii Nauk SSSR, Fizika; Vol 37, No 6, 1973, pp 1138-1143

was well correlated with the protons. Absorbed radiation dose during this interval, except for 2-7 August, was steady at approximately 24 mrad per day.

Calculations from the uniform nature of the declines in intensity of solar proton activity indicate that the absorbing layer is at a distance of approximately two astronomical units from the sun. It is remarkable that the state of interplanetary space remained the same over a long interval, in spite of substantial manifestations of solar activity; when perturbed, it recovered rapidly.

Increases in electron flow were observed several times without any corresponding increase in proton output, but every increase in proton output from the sun was accompanied by an increase in electron flow.

During intervals of low solar activity, the detectors which determined these correlations established a strong negative correlation between the

counts of extra-solar protons at over 30 Mev and electrons under 500 kev.

The satellites recorded the intense solar activity of early August. An interesting phenomenon was the sharp increase in the flow of particles at all energies over the course of 2.5 hours early on 5 August. The peaks in the curves had particularly steep leading and trailing edges. It is theorized

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VERNOV, S. N., et al., Izvestiya Akademii Nauk SSSR, Fizika; Vol 37, No 6, pp 1138-1143

that this represented a magnetic "trap" with dimensions of approximately 0.1 au, traveling at approximately 2500 kilometers per second; the absence of any nucleons with $Z \ge 6$ indicates that the particles must all have been of solar origin.

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UDC 621.357.7.035.41669.738.7(088.8)

AZHOGIN, F. F., LOGACHEVA, Z. V., PRIBYLOVA, L. I., VLASOVA, L. P., and AGEYEVA, N. I.

"An Electrolyte for Cadmium Plating"

Author's Certificate No 346390, filed 10 Sep 70, published 22 Aug 72 (from Referativnyy Zhurnal -- Khimiya, No 8(II), 1973, Abstract No 8L307P)

Translation: An ammonium chloride electrolyte is patented for cadmium plating. It is improved in that in order to prevent the hydrogenation of the base metal, ethylene glycol is added, resulting in the following composition, in g/liter: CdCl₂,40-50; NH_LCl₂230-280; ethylene glycol₃30-40, carpenter's

glue,1-2; an optimum pH of the electrolyte of 2.5-3.5; D, less than 2 amps/decimeter2, and a theoretical yield of 100%. For example, samples from the steel EI-643 having a notch r=0.1 mm is plated with cadmium in our electrolyte having the following composition, in g/liter: CdSO4,50; NH4Cl,250; ethylene

glycol, 30; carpenters glue, 2; at pH of 3.0 and a D 2 amps/decimeter2 for a thickness of 10 microns. Without subsequent heating at a tension equal to 90% of the strength of the notched sample (the Stress equals 216 kg/m^2), the plated sample did not fracture after 200 hours.

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LOGAK, L. G., ROZENBERG, G. I., KUSNETSOV-FETISOV, L. I.

"Study of the Mechanism of Adsorption of Nitrogen Dioxide on Silica Gel by IR Spectroscopy. Report III. Desorption of Nitrogen Dioxide Adsorbed by Synthetic Zeolites"

Tr. Kazan. Khim.-tekhnol. In-ta [Works of Kazan Institute of Chemical Technology], No 46, 1971, pp 136-140 (Translated from Referativnyy Zhurnal, Khimiya, No 2, 1972, Abstract No 2 B1389 from the Resume).

Translation: The process of isothermal desorption of NO $_2$ adsorbed by cylindrical granules of acid-resistant zeolites such as H-mordenite is studied. Only the first portions of adsorbate are easily removed; evacuation for two hours leaves 20-25 mg/g NO $_2$ on the surface of the adsorbent; this figure is independent of the degree of preceding adsorption. The rate of desorption increases with dealumination of the specimens.

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LOGAK, L. G., ROZENBERG, T. I., KUZNETSOV-FETISOV, L. I.

"Study of the Mechanism of Adsorption of Nitrogen Dioxide on Silica Gel by IR Spectroscopy. Report II. Kinetics of Adsorption of Nitrogen Dioxide on Synthetic Mordenite at Low Adsorbate Pressures"

Tr. Kazan. Khim.-tekhnol. In-ta [Works of Kazan Institute of Chemical Technology], No 46, 1971, pp 131-135 (Translated from Referativnyy Zhurnal, Khimiya, No 2, 1972, Abstract No 2 B1388 from the Resume).

Translation: The effective diffusion coefficients D of nitrogen dioxide during its adsorption by H-mordenites are determined at low adsorbate pressures. It is established that D increases with increasing adsorption. It is demonstrated that diffusion is activated, and that high values of activation energy indicate high bond strength of the first portions of adsorbate with the surface of the adsorbent.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

ESSENTENDINE PRESIDENTE EN LEGIS EN LEGIS EN LEGIS DE LEG

1/2 012 TITLE--EFFECT OF KILLING TECHNOLOGY ON THE PROPERTIES OF A STEEL WITH PROCESSING DATE--11SEPTO AUTHOR-ASTROV, YE.I., LOGANOV, M.I., URAZOVA, V.A., CHICKHANOV, A.I.

COUNTRY OF INFO--USSR

SOURCE--METALLOVED. TERM. OBRAB. METAL. 1970, (2) 55-7

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--NONMETALLIC INCLUSION, KILLED STEEL, ALUMINUM CONTAINING STEEL. STEEL MANUFACTURE PROCESS, STEEL HARDENING

CONTROL MARKING--ND RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1291

STEP NO--UR/0129/70/000/002/0055/0057

CIRC ACCESSION NO--APO106072

UNCLASSIFIED

2/2 012 UNCLASSIFIED PROCESSING DATE--11SEP70 CIRC ACCESSION NO--APO106072 ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. TWO METHODS OF KILLING WERE USED: (1) DEEP KILLING IN THE FURNACE WITH FERROSILICON, FERROTITANIUM, AND AL: (2) DEEP KILLING IN THE FURNACE WITHOUT SI. BUT WITH AL AND FERROTITANIUM. SI, WITH ADDNE. PORTIONS OF AL, WERE INTRODUCED INTO THE LADLE THE STEEL WAS KILLED. TO EXCLUDE THE EFFECT OF CHEM. COMPN. OF THE STEELS ON HARDENABILITY. ALL OF THE EXPTL. MELTS WERE COMPOSED OF SINGLE CHEM. COMPNS. HARDENABILITY WAS DETD. BY ROCKWELL HARDYESS ALONG END QUENCHED CYLINDRICAL SPECIMENS. MELTS, DEEP KILLED WITHOUT SI. WITH ST ADDED TO THE LIQ. STEEL FOLLOWED BY AL AND FERROTITANIUM, SHOW LOWER HARDENABILITY AND CONTAIN LESS ANTS. OF 3 AND NONMETALLIC INCLUSIONS. UNCLASSIFIED

1/2 037 UNCLASSIFIED PROCESSING DATE--160CT70 TITLE--CLINICO ROENTGENOLOGICAL CHARACTERISTICS, CLASSIFICATION AND TREATMENT OF CHILDREN SUFFERING FROM MANDIBULAR DSTEDMYELITIS, -U-AUTHOR-(02)-BERNADSKIY, YU.I., LOGANOVSKAYA, YE.N.

COUNTRY OF INFO--USSR

SOURCE--STEMATOLOGIYA, 1970, VOL 49, NR 3, PP 69-71

DATE PUBLISHED-----70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--PEDIATRICS, BONE DISEASE, JAW, ETIOLOGY, RADIOGRAPHY, TODTH,

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1998/0068

STEP NO--UR/0511/70/049/003/0069/0071

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CIRC ACCESSION NO--AP0120768

UNCLASSIFIED

THE REPORT OF THE PROPERTY OF

2/2 037 UNCLASSIFIED PROCESSING DATE--160CT70 CIRC ACCESSION NO--APO120768 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. SUMMARY. ON THE BASIS OF ANALYSIS OF 385 CHILDREN WITH MANDIBULAR OSTERNYELITIS (311, WITH ACUTE AND 74, WITH CHRONIC) THE AUTHORS PROPOSE A CLINICO ROENTGENOLOGICAL CLASSIFICATION OF THIS DISEASE. THE CLINICAL PICTURE WAS STUDIED WITH DUE REGARD OF THE CHILD'S AGE. THE CLASSIFICATION INCLUDES THE ETIOLOGY OF THE DISEASE, SEVERITY OF ACUTE AND CHRUNIC PROCESSES (MILE, MODERATE AND SEVERE) AND ITS LOCALIZATION IN THE MANDIBLE. TO MILD FORMS OF CHRONIC OSTEOMYELITIS THE AUTHORS REFER THE FOLLOWING: INVOLVEMENT OF THE ALVEOLAR PROCESS, BODY OF THE JAW AND SECONDARY OSTEOMYELITIS: TO SEVERE, AFFECTION OF ONE HALF OF THE MANDIBLE AND THE WHOLE BRANCH; TO MODERATE OSTEOMYELITIS, AFFECTION OF THE ANGLE, CORONARY PROCESS AND NEST LIKE INVOLVEMENT OF THE BRANCH. FRONTAL PERMANENT TEETH WERE SUCCESSFULLY PRESERVED DURING THE TREATMENT: IN DIFFUSE FORMS OF CHRONIC OSTEOMYELITIS THE AUTHORS RESERTED TO SEQUESTRATION WITHOUT SCRAPING OF THE SEQUESTRAL CAVITY AND WITH PRESERVATION OF LIVE (UNCHANGED IN COLOR) DENTAL REDIMENTS. CONSERVATIVE METHODS WERE USED ONLY IN THE TREATMENT OF RESTRICTED OSTEOMYELITIS RUNNING A COURSE WITHOUT THE FORMATION OF NOTICABLE (ON ROENTGENOGRAMS) SEQUESTRAE. FACILITY: KAFEDRA KHIRURGICHESKGY STOMATOLOGII KIEVSKOGO MEDITSINSKOGO INSTITUTA.

UNCLASSIFIED

Public Health, Hygiene and Sanitation

USSR

UDO 621.373.826:57

KIRICHINSKIY, B. R., SHEPELEY, V. N., MEDVEDOVSKAYA, TS. P., INSINA, C. G., LOGAROVSKIY, N. G., SCHITSKAYA, A. S., VOL'FOVSKAYA, R. KH.

"Effect of Laser Emission on the Organism of Industrial Workers"

V sb. Ispol'z. optich. kvant. generatorov v sovrem. tekhn. i ned. Ch. 2-3 (Utilization of Lasers in Medern Engineering and Medicine. Parts 2-3 -- collectof works), Leningrad, 1971, pp 108-110 (from MMh-Radiotellimika, No 1, 1972, Abstract No 10651)

Translation: A report is presented on examination of 40 people working 3.4 years on the average with later emission (200-200 bursts for neek with a pulse duration of 20-40 manorecombs and an energy of 1-10 joulem and up to 1 joule in the continuous nede). It was calculated that the radiation level on the cornea was 5·10-0-5·10-7 joules, which is approximately 2 criers higher than the levels which the majority of authors recommend as the maximum allowable and approaches the threshold values (causing minimum damage to the retina). For people with less conserve, pronounced shifts in autologic to vascular regulation.

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UDC 621.357.7.035.14(088.8)

NEVSKIY, O. B., LOGASHEV, V. V., and BARANOVSKAYA, I. N.

"Galvanic Bath for Producing Cylindrical Magnetic Films"

USSR Author's Certificate No 324309, Filed 16 Jan 70, Published 25 Feb 72 (from Referativnyy Zhurnal -- Khimiya, No 21(II), 1972, Abstract No 21L318P by E. Z. Napukh)

Translation: The patented design of the electrolyzer is intended for preparation of cylindrical magnetic films with a uniform chemical composition. Its feed and pouring chambers are formed by the electrolyzer wall and the anode container, and the cylindrical element with anodes on its external surface is made of hydrophilic material.

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UDU: 621.373.826

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USSR

YELISEYEV, P. G., IVANOV, L. P., LOGGINOV, A. S., SENATOROV, K. Ya.

"Frequency Self-Modulation of Emission in an Injection Laser"

Kratkiye soobshch. po fiz. (Brief Reports on Physics), 1972, No 6, pp 53-55 (from RZh-Radiotekhnika, No 12, Dec 72, abstract No 120148 by A. K.)

Translation: Spectral chronograms with a resolution of 3·10⁻¹¹-10⁻¹⁰ s are obtained for an isolated emission channel in a strip laser based on a double heterostructure at 300°K. It is evident from these chronograms that frequency self-modulation indicates instability of single-mode emission, and that this self-modulation accompanies buildup of pulsations and cutoff of single-mode emission with a transition to nonstationary (spike) multimode emission. Frequency self-modulation leads to considerable broadening of the individual excited modes, and to blurring of the spectrum. The influence of the frequency self-modulation on the emission spectrum increases with an increase in pumping.

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UDC 621.378.3

USSR

LANOV, L.P., LOGGINOV, A.S., SAMOYLOV, V.P., SENATOROV, K.YA.

"Self-Modulation Of Radiation Of Injection Lasers With A Single Heterojunction"

Kvantovaya elektronika (Quantum Electronics), Moscow, No. 5(11), 1972, pp. 92-94

Abstract: The results are presented of an experimental study of the dynamics of radiation of injection lasers, undertaken with the object of detecting pulsations connected with the spreading out of radiation across the plane of a p-n sations connected with the spreading out of radiation across the plane of a p-n squartive. A comparative study was made of GaAs lasers produced by various junction. A comparative study was made of GaAs lasers produced by various methods: diffusion and epitaxial-diffusion with single and double heterojunctions. The specimens studied had a resonator length of 300-800 microns and operated in a pulsed regime at temperatures from 100 to 350° K. The magnitude of the pushing pulsed regime at temperatures from 100 to 350° amp and the pulse duration in current could be varied in the limits zero to 350 amp and the pulse duration in the 50-500 nanesec range. The radiation dynamics were studied by the electron-the 30-500 nanesec range. The radiation dynamics were studied by the electron-optical chronography method. It is shown that in diffusion and epitaxial-diffusion lasers, as well as in double heterolasers, the configuration of the radiation lasers, as well as in double heterolasers, the configuration of the radiation for region is not changed in the process of generation of continuous pulses of radiation devalues at once at the critical a regime of continuous pulses of radiation devalues at once at the

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IVANOV, L. P., et al., Kvantovaya elektronika, No 5(11), 1972, pp 92-94

threshold of generation. One of the special features of operation is the penetration of radiation into the passive n-region of the lawer and deflection of the directivity pattern of rediction from the resonator mirror normal. The authors thank P.G. Yeliseyev for discussion of the results of the work and M.A. Ambartsumyen and V.G. Karnaukhov for giving specimens of lasers. 3 fig. 11 ref. Received by editors, 9 March 1972; after revision, 5 Sept 1972.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

- 60 -

UDC 621-039-623

ALEKSIN, V. F., BIRYUKOV, O. V., GEORGIYEVSKIY, A. V., KITAYEVSKIY, L. KH., KOMAR, YE. G., LOGINOV, A. S., MALYSHEV, I. F., MUROSZON, N. A., FOPROVICH, A. V., ROZHDEST VENSKIY, B. V., SAKSAGANSKIY, G. L., SINEL'NIKOV, the late K. D., SUKOLOV, YU. A., SUPRUNENKO, V. A., TOLOK, V. T., CHURAKOV, G. F., and SHABEL'NIKOV, L. A.

"The Experimental Thermonuclear Device 'Uragan'"

Moscow, Atomnaya Energiya, Vol 28, No 1, Jan 70, pp 22-28

Abstract: An urgent task of stellarator research is a definitive elucidation of the reasons for anomalous diffusion in a stellarator, as well as the effect of the shear and magnetic well on the contineas well as one effect of the shear and magnetic well on the confine-ment of a hot and dense plasma. These questions will be studied on the "Uragan" stellarator. Construction of the "Uragan" stellarator was begun at the suggestion of I. V. KUHCHATOV and completed in 1967. The physical substantiation and technical assignment of developing and constructing the complex were developed at the Physicotechnical

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ALEKSIN, V. F., et al., Atomnaya Energiya, Vol 28, No 1, Jan 70, pp 22-28

Institute of the Academy of Sciences Ukrainian SSR under the direction of K. D. SINEL'NIKOV, who took an active part in the solution of theoretical and technical questions. Organizations taking part in the development of the project and the construction of the complex included the Scientific Research Institute of Electrophysical Equipment imeni D. V. Yefremov, the Elektrosila Electrical Engineering Com-bine, the Khar'kov Polytechnic Institute imeni V. I. Lenin, the Electromechanical Plant and NIIElektroapparat [Scientific Research Institute of Electrical Equipment] in Khar kov. A considerable amount of work on the development, manufacture, and adjustment of the systems and components of the "Uragan" was done at the Physicotechnical Institute of the Academy of Sciences Ukrainian SSR.

The principal feature of the "Uragan" is high shear (of the order of 0.02 and 0.1) at a high level of magnetic field strength

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

ALEKSIN, V. F., et al., Atomnaya Energiya, Vol 28, No 1, Jan 70, pp 22-28

 $H_{\rm O}$ (35 and 10 koe respectively). The stellarator is in the shape of a racetrack and uses a high-shear triplex helical field. The vacuum chamber of the trap consists of two semi-tori with an average radius R = 1100 mm and two rectilinear sectors, each 1725 mm long. The internal diameter of the chamber is 200 mm. On the outside of the chamber on the toroidal sectors are two helical windings and longitudinal magnetic field coils, distributed evenly along the device. The maximum strength of the magnetic field is 10 koe under steady-state conditions and 35 koe under pulsed conditions. Three windings are used; viz., longitudinal magnetic field, helical, and transverse magnetic field. All metallic elements are made of low-magnet steel 1Kh18N9T. The toroidal sectors of the vacuum chamber and part of the rectilinear sectors are made of stainless nonmagnetic alloy EP-125. The article gives a detailed description of the windings, cooling system, electric power supply system, vacuum system, and plasma diagnostic and heating system.

3/3

UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--DIAGNOSTIC SIGNIFICANCE OF CYTO HISTOLOGICAL STUDIES OF THE
BIOPSIED LIVER IN COMBINATION WITH THE TISSUE CULTURE IN VITRO +UAUTHOR-(02)-LOGINOV, A.S., BLOK, YU.YE

CCUNTRY OF INFO-USSR

SOURCE-TERAPEVTICHESKIY ARKHIV, 1970, VOL 42, NR 4, PP 44-50

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-LIVER, TISSUE CULTURE, BIOPSY, TISSUE REGENERATION, CANCER, METASTASIS, LARGE INTESTINE, CIRRHOSIS

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--1990/0626

STEP NO-UR/0504/70/042/004/0044/0050

CIRC ACCESSION NO-APO108841

UNCLASSIFIED

PROCESSING DATE-- 13NOV70 UNCLASSIFIED 2/2 022 CIRC ACCESSION NO--AP0108841 ABSTRACT/EXTRACT-(U) GP-0- ABSTRACY. THE AUTHORS DESCRIBE THE METHOD OF INVESTIGATING THE BIOPSIED LIVER TISSUE AND GIVE THE RESULTS OF COMPARISON BETWEEN MORPHOLOGICAL PECULIARITIES OF CYTOLOGICAL AND HISTOLOGICAL PREPARATIONS, AS WELL AS THE CULTURE OF THE LIVER TISSUE IN 12 PATIENTS AT THE AGE OF 17-57 YEARS OLD. THE IMMEDIATE CYTOLOGICAL STUDY OF THE BIOPSIED MATERIAL MADE IT POSSIBLE TO HAVE A PRELIMINARY IDEA OF THE NATURE OF THE DYSTROPHIC CHANGES IN THE REMAL EPITHELIUM, EXTENT OF CELLULAR ATYPIA, MANIFESTATIONS OF THE IMPLAHMATORY AND REPARATIVE PROCESSES IN THE LIVER. IN CULTIVATING THE RENAL TISSUE IN VITRO IN PATIENTS WITH CIRRHOSIS OF THE LIVER MARKED PROLIFERATION OF THE CONNECTIVE TISSUE CELLS AND DEVELOPMENT OF ACUTE DYSTROPHIC CHANGES OF THE EPITHELIAL CELLS WERE OBSERVED IN CHRONIC HEPATITIS PROLIFERATION OF THE EPITHELIAL ELEMENTS PREVAILED. IN A FEMAL PATIENT SUSPECTED OF CANCER MATHASTASES OF THE COLON INTO THE LIVER WITH A NEGATIVE RESULT OF THE HISTOLOGICAL ANALYSIS OF THE BIOPSIED TISSUE ON A CYTOLOGICAL PREPARATION, THE AUTHORS FOUND ATYPICAL CELLS AND IN VITRO CULTIVATION OF THE TISSUE PROLIFERATION OF THE CAMCER CELL COMPLEXES WERE OBSERVED. A SIMILAR RESULT WAS OBTAINED IN CYTOLOGICAL INVESTIGATION OF THE BIOPSIED TISSUE OF THE LIVER INCLUDING CULTIVATION OF THE TISSUE IN VITRO, AND IN A PATIENT WITH A HIXED LIVER CIRRHOSIS AND SUSPECTED OF CIRRHOSIS, CANCER OF THE LIVER. FACILITY: VSESOYUZNYY N-I INSTITUT RASTROENTEROLOGII MINISTERSTVA ZDRAVOOKHRANENIYA SSSR, MOSCOW.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

1/2 016 UNCLASSIFIED

PROCESSING DATE--27NOV70

TITLE--HEMODYNAMIC INDICES IN PATIENTS WITH CHRONIC HEPATITIS AND

CIRRHOSIS OF THE LIVER -U-

AUTHOR-(02)-LOGINOV, A.S., BELYAYEVA, V.S.

COUNTRY OF INFO--USSR

SOURCE--KLINICHESKAYA MEDITSINA, 1970, VOL 48, NR 4, PP 70-75

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--HEPATITIS, CIRRHOSIS, LIVER FUNCTION, HEMODYNAMICS

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3004/0735

STEP NO--UR/0497/70/043/004/0070/0075

CIRC ACCESSION NO--APOL31330

AMELICATE IZA

PROCESSING DATE--27NOV70 2/2 UNCLASSIFIED: 016 CIRC ACCESSION NO--APO131330 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. BY MEANS OF THE DYE DILUTION TECHNIQUE THE HEMODYNAMIC INDICES WERE STUDIED IN 41 PAFIENTS WITH CHRONIC HEPATITIS AND 61 PATIENTS WITH DIFFERENT MORPHOLOGICAL FORMS OF LIVER CIRRHOSIS (43 POSTNECROTIC, 13 PORTAL, 5 PRIMARY BILIARY CIRRHOSIS OF THE LIVER). IN PATIENTS WITH CHRONIC HEPATITIS THERE WAS NOTED A TENDENCY TOWARDS AN INCREASED CARDIAC EJECTION AND MEDUCTION OF THE GENERAL PERIPHERAL RESISTANCE, AS WELL AS A DECREASE OF THE MEAN ARTERIAL PRESSURE. IN CIRRHOSIS OF THE LIVER THERE WERE SIGNIFICANT CHANGES IN HEMODYNAMIC INDICES OF THE TYPE OF HYPERKINETIC STATE OF CIRCULATION, AN INCREASE OF THE CARDIAC DUTPUT, CARDIAC AND SYSTOLIC INDICES, A DECREASE OF THE GENERAL PERIPHERAL RESISTANCE AND MEAN ARTERIAL PRESSURE, RISE OF THE MASS OF CIRCULATING BLOOD AND INTRATHORACIC VOLUME OF THE BLOOD, AND AN ACCELERATED CIRCULATION RATE. CHANGES OF MOST HEMODYNAMIC INDICES WERE MOST MARKED IN POSTNECROTIC CIRRHOSIS OF THE LIVER. FACILITY: VSESOYUZNYY N-I INSTITUT GASTROENTEROLOGII MZ SSSR.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

UNCLASSIFIED PROCESSING DATE--30UCT70
TITLE--NF TEST FUR INVESTIGATING THE ABSORBTIVE EXCRETORY FUNCTION OF THE
LIVER -UAUTHOR-(02)-LOGINOV, A.S., KONDASHOVA, Z.D.

COUNTRY OF INFO-USSR

SOURCE--TERAPEVTICHESKIY ARKHIV, 1970, VOL 42, NR 6, PP 101-103

DATE PUBLISHED ----- 70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES
TOPIC TAGS—LIVER FUNCTION TEST, LIVER DISEASE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1919

STEP NO-UR/0504/70/042/006/0101/0103

CIRC ACCESSION NO-AP0129268

UNCLASSIFIED

2/2 015 UNCLASSIFIED PROCESSING DATE-- 300CT70 CIRC ACCESSION NO-APO129268 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE ARTICLE PRESENTS DATA OF INVESTIGATION OF THE ABSORBTIVE EXCRETORY FUNCTION OF THE LIVER USING A WESTEST IN 63 PATIENTS WITH DISEASES OF THE LIVER. SENSITIVITY OF THIS METHOD IN THE DIAGNOSIS OF EARLY FUNCTIONAL DISORDERS OF THE LIVER IS NOTED, IT HAS A DIFFERENTIAL DIAGNOSTIC SIGNIFICANCE IN THE ASSESSMENT OF THE SEVERITY OF FUNCTIONAL DISORDERS. THE MAXIMUM DEGREE OF THE CHANGES OF THE WF TESTS WAS OBSERVED IN PATIENTS WITH LIVER CIRRHOSIS, MIANLY BILLIARY, AND MODERATE, IN CHRONIC HEPATITIS. FACILITY: VSESOYUZNYY NII GASTRCENTEROLOGII MZ SSSR, MOSKVAL UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

VDC: 621.378.3

VASIL'YEV, A. M., DE, S. T., and LOGINOV, A. V.

"Laboratory Argon Laser With a Discharge Channel of Beryllium Oxide"

Novosibirsk, Avtometriya, No 5, 1972, pp 125-126

Abstract: Details are given of an argon ion laser, developed by the authors, which is capable of standing up under long use in the laboratory. A photograph of the laser is shown. The discharge channel of the device is a beryllium oxide tube 350 mm long and 3 mm in diameter. The choice of this material was dictated by the fact that it has the highest heat conductivity of all the insulating ceramics and can stand thermal shock. The optical resonator consists of a spherical mirror and a plane mirror from which the radiation emerges. Oscillation occurs in six lines in the 4579-5145 Å range, with a total power of five watts. It is noted that most industrially produced ion lasers in the Soviet Union have quartz discharge channels. This is a mistake, in the authors opinion, since quartz has low heat conductivity and consequent high inner wall temperatures, with resultant shorter life. They express

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

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WDC: 621.378.3

VASIL'YEV, A. M., et al, Avtometriya, No 5, 1972, pp 125-126

their gratitude to Yu. Ye. Nesterekhin and A. G. Kozachok for their attention to the work.

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- 31 -

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

UNCLASSIFIED PROCESSING DATE--300CT70 TITLE--INFRARED SPECTROSCOPIC AND ELECTRICAL CONDUCTIVITY STUDIES ON THE FORMS OF FORMIC ACID, WATER, AND METHANOL ADSORPTION ON YTTRIUM DXIDE AUTHOR-(03)-TOPCHIYEVA, K.V., LOGINOV, A.YU., IVANKOYSKIY, V.E.

COUNTRY OF INFO--USSR

SOURCE-KINET. KATAL. 1970, 11(1), 193-9

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--FORMIC ACID, METHANOL, ADSORPTION, HYDROGEN BONDING, CHEMICAL DECOMPOSITION, YTTRIUM COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0527

STEP NO--UR/0195/70/011/001/0193/0199

CIRC ACCESSION NO--APOL19446

UNCLASSIFIED

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2/2 021 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APO119446 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. TWO FORMS OF ADSDAPTION WERE OBSD. MOLS. OF THE ADSORBED CUMPD. FORM H BONDS WITH THE SURFACE OF Y OXIDE AND CAUSE A STRONGLY POS. CHARGE ON THE SURFACE. THE LATTER OCCURS DUE TO DONOR ACCEPTOR INTERACTIONS. A DISSOCIATIVE FORM OF ADSORPTION TAKES PLACE DUE TO BOND REDISTRIBUTION OF THE ADSORBED SPECIES. HCO SUB2 H DECOMP. ON Y OXIDE VIA THE DISSOCIATIVE FORM OF THE ADSORPTION, FURMING Y FORMATES AS INTERMEDIATE REACTION PRODUCTS. FACILITY: KHIM. FAK., MOSK, GOS. UNIV. IM. LOMONOSOVA, MOSCOW, USSR. UNCLASSIFIED

USSR

UDC: 621.372.54

LOGINOV, B. N.

"On Calculating an Active Low-Frequency Filter With a Uniform RC Line"

V sb. Vopr. elektrosvyazi (Problems of Electrical Communications--collection of works), Kiev, "Tekhnika", 1970, pp 31-34 (from RZh-Hadiotekhnika, No 11, Nov 70, Abstract No 11A152)

Translation: Some critical remarks are given relative to the method proposed by Rarkin (Bell System Techn. J., 1968, No 5) for calculating an active low-frequency filter which consists of a uniform RC line loaded by negative conductance and capacitance. It is shown that the computational procedure may be considerably simplified by using the relationship between the cutoff steepness and nonuniformity of damping in the passband. An expression is found for the principal filter characteristics as a function of the load parameters. Three illustrations, bibliography of one title. N. S.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

Higher Algebra & Geometry and Topology

USSR

UDC 512.831

ARZHANYKH, I. S., GUGNINA, V. K., and LOGINOV, B. V., Institute of Mathematics imeni V. I. Romanovskiy, Academy of Sciences Uzbek SSR

"On a Generalization of the Hamilton-Cayley Theorem for Multiparameter Matrices and on Root Vectors of Polynomial Matrices"

Tashkent, <u>Izvestiya Akademii Nauk Uzbekskoy SSR</u>, <u>Seriya Fiziko-Matematicheskikh</u> <u>Nauk</u>, No 5, 1971, pp 3-8

Abstract: Previous articles by the authors proved the Hamilton-Cayley theorem for polynomial matrices of the type $\phi(\lambda) = \lambda^S I - \lambda^{S-1} A_1 + \ldots + \lambda^{S-1} - A_S$ where A_1 , ..., A_S are square matrices of order n; I is an identity matrix; λ is a parameter. The present article generalizes this result for the case of several parameters λ_1 , λ_2 , ..., λ_m , then gives a natural definition of root vectors of polynomial matrices.

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UDC 517.93+513.881

LOGINOV, B. V., Tashkent, and TRENOGIN, V. A., Moscow

"The Use of Group Properties for Determining Multiparametric Families of Solutions to Nonlinear Equations"

Moscow, Matematicheskiy Sbornik, Vol 85, No 3, Jul 71, pp 440-454

Abstract: The authors examine a nonlinear equation in Banach space that is invariant relative to the continuous group. They give the conditions that permit reducing the equations of the Lyapunov-Schmidt branching both by number of equations and by number of unknowns, thus making it possible to greatly simplify finding the multiparametric families of solutions to this problem.

Instances are often encountered in which the solution to a nonlinear problem depends on one or more free numerical parameters. Included here are problems concerning long and isolated waves having a finite number of solutions. Such a situation exists in the problem of secondary stationary flows of a viscous fluid between cylinders rotating on one side and the problem, which is similar, concerning free convection, especially convection in the horizontal layer of a fluid heated from below.

If the problem is invariant relative to a certain group of transformations, then either all or part of the free parameters have a group connotation

USSR

LOGINOV, B. V. and TRENOGIN, V. A., Matematicheskiy Sbornik, Vol 85, No 3, Jul 71, pp 440-454

thus permitting the problem to be simplified in a number of instances by seeking a solution which belongs to a certain subspace. The authors carry out a detailed analysis of the possibilities available for the general equation in a Banach space.

Theorems are stated, and detailed mathematical proof is offered to support the authors' position. The article contains a bibliography of 15 titles.

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Acc. Nr:

APO048297 CHEMICAL ABST. 9/70

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UDO: 621.396.677.833(088.8)

DEMENT'YEV, V. P., KUZ'NIN, I. V., and LOGINOV, I. V.

"Passive Relay"

Avt. sv. SSER (Author's Certificate USSR) Class 21a4, 46/01, (H Ol o 15/00), No. 275171, Application 19.02.69, Publication 12.10.70 (from RZh-Radiotekinika, No. 5, Larch 71, Abstract No. 3862P)

Translation: The proposed device consists of a reflecting array with curvilinear edges. The upper and lower edges are made in different parabolic curves with a common focal axis.

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- 18 -

UDC: 621.396.677.833

DEMENT'YEV, V. F., KUZ'MIN, I. V., LOGINOV, I. V., LOKSHIN, V. L., YAMPOL'SKIY, V. G.

"A Passive Radio Relay Unit"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 22, 1970, Soviet Patent No 275171, Class 21, filed 19 Feb 69, p 42

Abstract: This Author's Certificate introduces a passive radio relay unit made up of a reflecting array with curvilinear edges. As a distinguishing feature of the patent, the mean effectiveness of the unit is increased, and especially the effectiveness in the case of subrefraction by making the upper and lower edges of the array conform to different parabolic curves with a common focal axis and a high ratio of the focal parameters of the parabolic curves, which may, for instance, be equal to one hundred.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

UDC 629.78.002.3

LOGINOV, N. Z., IL'CHENKO, A. M.

"Probability Estimate of the Dispersion of the Fracture Coordinate and the Fatigue Limits in Connection with the Technological Process for Treating Specimens"

Tr. Kazan. avats. in-ta (Works of the Kazan' Aviation Institute), 1972, vyp. 141. pp 40-46 (from RZh-Raketostroyeniya, otdel'nyy vypusk, No 12, Dec 72, Abstract No 12.41.242)

Translation: The basic principles of the procedure for joint statistical and functional analysis of fatigue laws are presented. A study is made of the application of this method for comparing the effect of various progressive technological processes on strength under sign-variable loads. It is demonstrated that the least diameter of the toroidal specimens is not the dangerous cross section but the most probable fracture point. An estimate is made of the fracture coordinate and the relation of this variable to the fatigue characteristics of the material. Examples are also presented of the structure of the fatigue curve with the fracture probability equal to zero with respect to a small sample of specimens using equidistant transfer of the experimental points and analysis of the fracture coordinates. There are 4 illustrations, 2 tables and a 7-entry bibliography.

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USSR

LOGINOV. N. Z., SHKANOV, I. N.

"Improvement of Method of Testing with Separation of Process of Fatigue Rupture into the Stage of Microdamage and Final Rupture"

Tr. Kazan. Aviats. In-ta [Works of Kazan Aviation Institute], No 136, 1971, pp 25-33, (Translated from Referativnyy Zhurnal, Mekhanika, No 4, 1972, Abstract No 4 V1272 by L. M. Shkol'nik).

Translation: A series-produced machine for fatigue testing with pure bending and rotation is redesigned so that the stretched fibers of the specimen are in the upper portion. A stroboscopic effect produced by illumination of the rotating specimen with a type ISSh-15 flash lamp is used to observe the moment of appearance of a macrocrack. When notched specimens of VI-8 titanium alloy were studied, data were produced showing that the viability factor of the specimen is 0.6 with respect to the mean probability of rupture at variable stress level 28 kg/zm².

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- 87 -

UDC 539.4

BRAGIN, D. YA., LOGINOV, N. Z., SHKANOV, I. N., Kazan' Aviation Institute, Kazan'

"Effect of Certain Engineering Factors on the Fatigue Strength of Titanium Alloys"

Kiev, Problemy prochnosti, No. 8, Aug 71, pp 78-82

Abstract: Fatigue tests were conducted on circular samples of titanium alloys widely used in the aviation industry. It is noted that despite the extensive use these alloys have several considerable shortcomings, including great inhomogeneity in the micro- and macrostructure, high sensitivity to stress concentration under variable loads, and considerable variability of mechanical properties as a result of working processes. The test samples had a diameter of 5 and 7.5 mm under pure bending with a frequency of rotation of 50 Hz. Tests based on statistical data showed several features in the behavior of titanium alloys under cold working which lead to a low value of the fatigue limit at the extreme boundary of the dispersion region. It is shown that the application of electrochemical working, electric polishing, and protective media in mechanical working lowers the cold working layer and stabilizes the

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BRAGIN, D. YA., et al, Problemy prochnosti, No. 8, Aug 71, pp 78-82

mechanical properties of the alloys. It is concluded that the process of electrochemical working at the present level of its technological development should be applied as a final operation in fabricating titanium alloy parts.

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UDC 621.762.002.5(088.8)

KABEL SKIY, I. M., LOGINOV, P. I., SOKOLOVSKIY, A. B.

"Metal Die Pressure Cast Mold for Molding Annular Products"

USSR Author's Certificate No 268880, filed 20 Oct 66, published 4 Aug 70 (from RZh-Metallurgiya, No 7, Jul 1971, Abstract No 7G479P)

Translation: A metal die pressure cast mold for molding annular products from powders using electric discharge in a liquid medium with coaxially arranged electrodes, a tubular elastic molding shell, and a die attached to the crossbar which moves relative to the pressure die casting mold and interacting with the casting nozzle is proposed. In order to insure free removal of the molded product and the required seal of the cavity filled with the liquid, a moving nozzle with a beveled inside surface is placed in the annular cavity of the die so as to block it. This nozzle is equipped with stepped spring-loaded pins passing through the holes in the crossbar and the housing of the mold. In order to insure automatic simultaneous movement of the die and the beveled electrode and subsequent advance of the blocking nozzle after removal of the die from the molded part, a beveled electrode is attached to the moving crossbar, and slides designed to hold the step pins and controlled by means of wedges attached to the moving crossbar are placed on the housing of the pressure die casting mold.

USSR

UDC 542.91:547.1:118

MUSLINKIN, A. A., NEKLESOVA, I. D., KUDRINA, M. A., YEGORC/A, N. V., IRAIKOVA, I. S., and LOGINOV, V. B., Institute of Organic and Physical Chemistry Imeni A. Ye. Arbuzov, Acad. Sc. USSR

"Synthesis and Some Properties of Acrylic and Methacrylic Derivatives of Chlorophos and Its Analogues"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimichesknya, No 4, Apr 73, pp 883-886

Abstract: Reaction of chlorophos and its analogues with acid chlorides of acrylic, metacrylic and X-fluoroacrylic acids gave new products with funcicidal activity: 0,0-diphenyl-, 0,0-di-n-butyl-, and 0,0-dimethyl-(1-acroyloxy-2,2,2-trichloroethyl)phosphonate, di-n-butyl-(1-metacryloxy-2,2,2-trichloroethyl) phosphonate and 0,0-d-n-butyl-(1-X-fluoroacroyloxy-2,2,2-trichloroethyl) phosphonate. Using 0,0-di-methyl ether of 1-acetoxy-2,2,2-trichloroethylphosphonic acid as control, it has been established that replacement of the acetyl group by an acroyl or metacroyl radical increases the fungicidal activity and toxicity. Introduction of a chlorine atom onto an alkoxy group has a similar effect. Elongation of an alkoxy chain at the phosphorus atom decreases the toxicity.

Acc. Nr:

AP0043799

Ref. Code: UR 0056

PRIMARY SOURCE:

Zhurnal Eksperimental'noy i Teoreticheskoy

Fiziki, 1970, Vol 58, Nr 2, pp 747-750

EVEN GALVANOMAGNETIC EFFECT IN ANTIFERROMAGNETIC MnAu, IN THE PARAMAGNETIC TEMPERATURE REGION

V. G. Loginov, V. I. Nikolayev

Results of investigation of the even galvanomagnetic effect in the antiferromagnetic compound $\mathrm{MnAu_2}$ at paramagnetic temperatures are reported. It is shown that for $T>T_N$ the magnetic resistance of $\mathrm{MnAu_2}$ depends on the magnetic moment in the same way as in ferromagnetic substances. The results show that in the paramagnetic temperature region the even galvanomagnetic regularities previously established for ferromagnetic substances are also applicable to antiferromagnetic compounds.

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REEL/FRAME 19770208 I/DI

1/2 034 UNCLASSIFIED TITLE--SLAG SYSTEMS OF BLAST FURNACES -U-

PROCESSING DATE--04DEC70

AUTHOR-LOGINOV, V.I.

COUNTRY OF INFO--USSR

SOURCE--- 1ZV. VYSSH. UCHBE. ZAVED., CHERN. MET. 1970, 13(4), 55-60

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS—BLAST FURNACE SLAG, PHASE EQUILIBRIUM, SILICA, ALUMINA, CALCIUM OXIDE, MELTING POINT, PHASE COMPOSITION, FLUID VISCOSITY, DESULFURIZATION, GAS JET, OXYGEN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0834

STEP NO--UR/0148/70/013/004/0055/0060

CIRC ACCESSION NO--AT0132924

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

地种类的 计校图 2/2 034 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--AT0132924 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. BASED ON THE ABAILABLE RESULTS FOR THE SIO SUB2, AL SUB2 O SUB3, CAO SYSTEM, THE DIAGRAM FOR THE CHANGE IN THE PROPERTIES OF THE SLAGS AS DEPENDENT ON THEIR BASICITY WAS CONSTRUCTED AT LOPERCENT ALS UBZ O SUB3, MAKING IT POSSIBLE TO DET. APPROX. THE OPTIMUM AND LIMITING VALUES FOR THE BASICITY OF THE SLAGS. AT A BASICITY OF THE SLAG OF GREATER THAN 1.25, THE CRYSTN. TEMP., THE FUSIBILITY, AND THE HEAT CONTENT INCREASE. TO IMPART TO SUCH SLAGS THE NECESSARY MOBILITY AND STABILITY, THEY SHOULD BE HEATED TO GREATER THAN THE UPPER LIMIT JOF THE BASICITY OF \$LAG ALLOWED IN A 1500-1600DEGREES. BLAST FURNACE IS LIMITED BY THE POSSIBILITY OF MELTING NAD HEATING IT TO THE TEMP. OF FLUIDITY. UNDER CONVENTIONAL ATM. BLOWING, HEATED TO 1000 DEGREES, THE ACTUAL AV. COMBUSTION TEMP. OF THE GASES IN THE FURNACE FLUCTUATES AROUND 1700DEGREES. THE LIMITING ALLOWABLE BASICITY OF THE SLAG THEREBY IS APPROX. 1.6. THE OPERATION OF FURNICES ON SLAGS OF SUCH A BASICITY IS NOT EXPEDIENT. WITH INCREASED BLOWING TEMP. AND WITH O ENRICHMENT, THE THEORETICALLY ALLOWABLE BASIGITYLIMIT OF THE SLAG INCREASES. WITH DECREASED BASICITY OW THE SLGAS TO A GIVEN LIMIT, THEIR PHYS. PROPERTIES IMPROVE, BUT THEIR DESULFURIZATION CAPABILITY DECREASES. ON LESS BASIC SLAGS, THE FURNACES OPERATE MORE ECONOMICALLY. THE RESULTS OF FURNACES OPERATING ON ACIDIC SLAGS ARE ALSO PRESENTED. FACILITY: ONEPRODZERZHINSK. IND. INST., DNEPRODZERZHINSK, USSR.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

USSR

UDC 541.515:547.785.1

TIKHONOVA, L. G., TANASEYCHUK, B. S., and LOGINOV, V. S., Mordavsk State University Imeni N. P. Ogarev, Saransk

"Investigation in the Area of Nitrogen-Containing Heterocyclic Free Radicals. XIX. 2-Aryl-4,5-(p-bromophenyl)imidazolyl Radicals and Their Dimers"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, No 1, Jan 73, pp 96-98

Abstract: Dimers of 2-ary1-4,5-di(p-bromophenyl)imidazolyls have been synthesized and the relationship between the rate of dissociation of the dimers into radicals and the nature of substituents in the 2-phenyl ring has been investigated. The effect of the substituents on the rate of dimer dissociation can be described by Hammet's equation. The presence of bromine atoms in p-positions of the 4- and 5-phenyl rings increases the contribution of the mesomeric component to the stabilisation of the transition state of the dimer dissociation process in comparison to bis(triphenylimidazolyls).

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UDC 533.9:538.566

LOGINOV, V. V.

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"Quasilinear Approximation for Low-Frequency Waves in a Plasma in a Constant Electric Field"

Minsk, Kolebaniya i Volny v Plazme. (Oscillations and Waves in a Plasma), "Nauka i Tekhnika," 1971, pp 3-5

Abstract: On the basis of the equations of quasilinear approximation, the author examines the stationary state of a spatially homogeneous plasma in a permanent electric field. He finds the equations of balance of momentum and energy of each component of the plasma and determines the nonlinear dependence of the energy of the plasma oscillations on their frequency. The results obtained are compared with experiment. The author solves the problem for low-frequency waves excited by a constant current in a weakly-ionized non-isothermic plasma. He examines a simple model of a quasiequilibrium plasma when the distribution function of the ions is Faxwellian and that of the electrons is Faxwellian with the current. The extrinsic electric field is assumed to be sufficiently small so as to neglect the effects of "escape" of the electrons. The attentuation and spectrum of oscillations are determined by the formulas of linear theory by allowing for the inverse influence of the

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

LOGINOV, V. V., Oscill tions and Waves in a Plasma, "Nauka i Tekhnika." 1971, pp 3-5

oscillations on the temperature and the current in the plasma; the oscillations themselves in the form of plane waves that do not interact with one another were examined. This type of model permits the author to determine the energy of the low-frequency waves as a function of their frequency as well as of the magnitude of the extrinsic field, the frequency of collisions, and the degree of nonisothermicity of the plasma which influences the landau ion attentuation. The computational scheme used here can also be used for completely ionized plasma. The article contains 1 illustration and 4 bibliographic entries.

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UDG: 621.391:519.2

LOGINOV, V. V.

"Effect of Low Harmonic Noise on a Synchronous Phase Demodulator"

Tr. NII radio (Transactions of the Scientific Research Institute of Radio) 1970, No. 2, pp 54-59 (from RZh-Radiotekhnika, No. 3, March 71, Abstract No. 3A48)

Translation: The action of low harmonic noise on a synchronous phase demodulator with no modulation of the input signal is considered. Results are given of an accurate and approximate solution for the differential equation of the synchronous phase demodulator.

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- 136 -

UDC: 621.391.27:621.376.32

OKHTYARKIN, Ye. G. and LOGINOV, V. V.

"Analyzing the Threshold Characteristics of Synchronous Phase De-

Moscow, Elektrosvyaz', No. 12, 1970, pp 8-11

Abstract: The synchronous phase demodulator is defined as the phase AFC system used as a frequency demodulator in artificial satellite and tropospheric communication lines, and to improve the noise immunity of the receiving equipment in the Soviet "Orbita" television system. This article is evidently the continuation of an earlier one (Devele, Porogovyy kriteriy dlya sinkhronnoy demodulatii, THER — Threshold Criterion for Synchronous Demodulation /expansion of THER unknown/—1963, No. 2) which determined the threshold characteristics of the synchronous phase demodulator and found the threshold signal-to-noise threshold ratio for the optimal transfer function and second order systems. By using the results of this and other earlier papers, the authors of the present article determine the moment at which the threshold sets in.

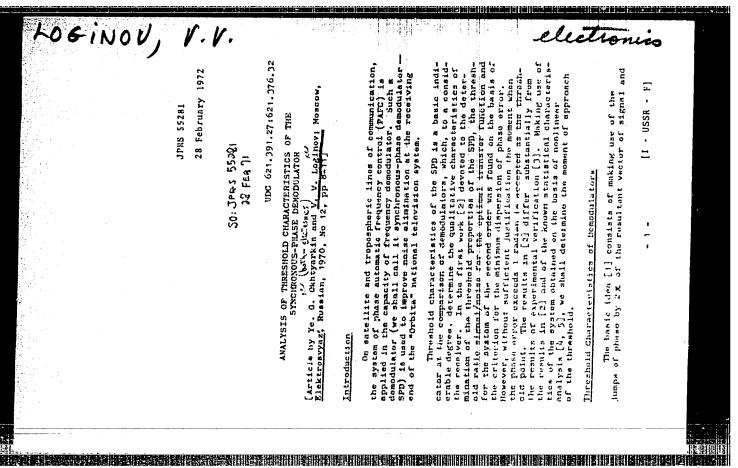
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OKHTYARKIN, Ye. G. and LOGINOV, V. V., Elektrosvyaz', No 12, 1970, pp 8-11

The threshold characteristics of the SPD with and without a proportionally integrating filter are compared, and it is shown that use of the filter substantially improves the gain in a shift of the threshold for high modulation indices.

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WC 543.422.23.546.1'118

NURETDINOV, I. A., NEGREBETSKIY, V. V., YANKELEVICH, A. Z., KESSENIKH, A., HIKONOROVA, L. K., and ICCINOVA, E. I., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR, and Institute of Organic Chemistry imeni N. D. Zelenskiy, Academy of Sciences USSR

"NMR-H¹, NMR-P³¹ and INDOR-H¹ - $\left\{P^{31}\right\}$ Spectra of Compounds Containing =P(X) - N - P(Y)= Group"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, no 11, Nov 71, pp 2589-2591

Abstract: For purposes of studying the spin-spin interaction in compounds with fragments of the type =P(X)-N-P(X)= and =P(X)-N-P(Y)=, the authors stud-

ied the NMR-H¹, NMR-P³¹ and INDOR-H¹ - $\{p^{31}\}$ spectra of the following compounds:

(CH₃0)₂P₁(0)H(CH₃)P₁₁(OCH₃)₂, (CH₃0)₂P₁(0)N(CH₃)P₁₁(Se)(OCH₃)₂, (CH₃0)₂P₁(0)N-

 $(CH_3)P_{II}(Se)(OC_4H_9-i)_2$, $(CH_3O)_2P_I(S)N(CH_3)P_{II}(Se) < \frac{OC_3H_7-i}{N(C_2H_5)_2}$. The values and 1/2

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NURETDINOV, O. A., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 11, Nov 71, pp 2589-2591

signs of the constants $^2J_{pp}$, $^3J_{pNCH}$ were determined. The series of compounds studied display a decrease in the value of $^2J_{pp}$ with a change in its sign.

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UDC 542.91 + 661.718.1

NURETDINOV. I. A., BUINA, N. A., GRECHKIN, N. P., and LOGINOVA, E. I., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR

"Diphenyl- and Phenyldiethylamidoselenophosphoric Acid Esters"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 1, Jan 71, pp 131-136

Abstract: A series of alkyl esters of diphenyl- and phenyldiethylamidoselenophosphoric acid was synthesized. Selenium was added to ethyl diphenyl phosphite and after the initial exothermic reaction subsided, the mixture was heated for I hr at 100°, filtered and distilled under yncum yielding ethyl diphenyl selenophosphate (I), b.p. 133-134°/0.02 mm, dq 1.3709, nd 1.5765. (I) was also obtained from the reaction of diphenyl selenochlorophosphate with (C2H5)3N and ethanol in benzene at 10-15°. The solid (C2H5)3N-nCl formed was removed by filtration and (I) distilled in vacuum; both methods gave the identical product. Following compounds were obtained by the second reaction: ethyl phenyl diethylamidoselenophosphate, b. p. 109-111°/0.001 mm, dc 1.2707, nd 1.5389; propyl diphenyl amidoselenophosphate, b.p. 141-143°/

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

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NURETDINOV, I. A., et al. Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 1, Jan 71, pp 131-136

/0.002mm, $d_{t_0}^{20}$ 1.3354, n_D^{20} 1.5703; and propyl phenyl diethylamidoselenophosphate. b.p. 120-120.5°/0.001 mm, $d_{t_0}^{20}$ 1.2423, n_D^{20} 1.5368. It was determined that methyl esters of diphenyl- and phenyldiethylamidoselenophosphoric acids obtained analogously to the ethyl esters isomerize on heating to methylselenium esters of respective phosphoric acids.

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1/2 017 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE-THIOL ESTERS OF SELENOPHOSPHORIC ACIDS -U-

AUTHOR-(04)-NURETDINOV, I.A., BUINA, N.A., GRECHKIN, N.P., LOGINOVA, E.I.

COUNTRY OF INFO-USSR

SOURCE-IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (3) 708-10

DATE PUBLISHED -----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-THIOL, ORGANIC PHOSPHORUS COMPOUND, ORGANOSELENIUM COMPOUND, TRIETHYLAMINE, NMR SPECTRUM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1999/1780

STEP NO--UR/0052/70/000/003/0708/0710

CIRC ACCESSION NO--APO123577

UNCLASSIFIED

BINETY. PROCESSING DATE --- 300C170 UNCLASSIFIED 2/2 017 CIRC ACCESSION NO-APO123577 ABSTRACT/EXTRACT-(U) GP-O- ABSTRACT. REACTION OF B G ETSH AND 4.9 S EY SUB3 N IN C SUB6 H SUB6 WITH 15 G PHOP (SE) INET SUB21 CL. FINALLY 1.5 HR AT 35DEGREES, GAVE 63.4PERCENT PHOP (SE) (NET SUB2) SET, B SUB0.002 121-3DEGREES, D PRIMEZO 1.3011,N PRIMEZO SUBD 1.5840; SIMILARLY WERE PREPD. THE ANALOGS. 65.8PERCENT BUS, 8 SUBO.001 140 MINUS IPERCENT, 1.2468, 1.5710; AND 53.8PERCENT PHS, N. 32-3DEGREES. EXCESS ETSINA IN ET SUB2 O TREATED WITH (PHO) SUB2 P (SE) CL GAVE AFTER REFLUXING 5 HR 30PERCENT (PHO) SUB2 P (SE) SET. B SUB0.005 152-3DEGREES, 1.3986, 1.6223: SIMILAR REACTION WITH STOICHIOMETRIC RATIO OF REACTANTS AND RUN IN C SUB6 H SUB6 2 HR AT 13-20DEGREES GAVE 37PERCENT SIHILAR PRODUCT, B SUBO.002 146-7DEGREES, 1.3874, 1.6125. BOTH HAD SIMILAR NMR SPECTRA. REACTION OF (PHO) SUB2 P (SE) CL WITH RSH AND ET SUB3 N GAVE (PHO) SUB2 P (SE) SR (R SHOWN): 71.6 PERCENT ET, 8 SUB0.002 144-6 DEGREES, 1.3876, 1.6180; 72.3PERCENT BU. B SUBO.001 151-2UEGREES, 1,3347, 1.6050; 58.2PERCENT PH. AND B SUBO.002 166-7DEGREES. 1.3744, 1.6490. THESE HAD PHYS. CONSTS. VERY DIFFERENT FROM THOSE REPORTED PREVIOUSLY BY N. I. ZEMLYANSKII ET AL. (1965, 1967); THOSE COMPOS. MAY HAVE BEEN PRODUCTS OF REACTION OF THESE WITH EXCESS RENA. FACILITY: INST. ORG. FIZ. KHIH. IM. ARBUZUVA, KAZAN, USSR.

UNCLASSIFIED

UDC 547, 26'118:541.49

PUDOVIK, A. N., MURATOVA, A. A., MEDVEDEVA, M. D., YARKOVA, E. T., and LOGINOVA. E. I., Kazan' State University imeni V. I. Ul'yanov-Lenin

"Investigation of the Reaction of Diethylphosphinous Acid Esters With Trialkyl and Dialkyl Halides of Tin"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(103), No 2, Feb 72, pp 327-333

Abstract: The authors study reactions of methyl, ethyl, n -propyl, isopropyl, n-butyl and n -hexyl esters of diethylphosphinous acid with triethyl and diethyl chlorides, bromides and iodides of tin. It was found that diethylphosphinous acid esters react with trialkyl and dialkyl halides of tin to form stable complexes containing trialkylphosphine oxide and an alkyl halide of tin. As the radical of the alkoxy group increases, the reactivity of the phosphinite in these reactions decreases. The activity of alkyl halides of tin drops with a transition from dialkyl to trialkyl halides, and also with a transition from iodine to chlorine derivatives of tin.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

UDC 542.91.661.718.1

NURETDINOV, I. A., NIKONOROVA, L. K., LOCINOVA, E. I., and GRECHKIN, N. P., Institute of Organic and Physical Chemistry imeni A. Yu. Arbusov, Academy of Sciences USSR

"Amidoesters of Selenophosphoric Acid"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 9, Sep 71, pp 2095-2097

Abstract: For purposes of studying the effect of the amide and ester group structure on the physical and biological properties of alkylselenophosphoric acid amides, the authors synthesized a series of new amidoesters of selenophosphoric acid by the addition of elemental selenium to corresponding tervalent phosphorus acid amides. The NNR-P31 and IR spectra of the resultant compounds were studied. It was found that the electron effects of the phosphorus substituents in amidoesters of selenophosphoric acid have little influence on the shielding of the phosphorus nucleus. A separate article will report the results of a study of insecticidal and fungicidal properties of the compounds.

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- 54 -

UDG 542.91 + 538.113 + 661.718.1

NURETDINOV, I. A., LOGINOVA, E. I., NIKONOROVA, L. K., and GRECHKIN, N. P., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Kazan, Academy of Sciences USSR

"Synthesis and NMR Spectra of Compounds Containing the : P(S)-N-P: Group"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, Vol 4, Apr 70, pp 914-916

Abstract: Mixed amides of dimethylthiophosphoric acid and trivalent phosphorus acids were obtained by reacting the methylamide of dimethylphosphoric acid with trivalent phosphoric acid chloride in the presence of triethylamine or by the reaction of N-dimethylthiophosphane-N-dichlorophosphine-N-methylamine with the dimethylamine in ether solution. Since the two phosphorus atoms are not equivalent -- pIV_N-pIII -- their respective signals were found to be split in doublets. Chemical shifts of the nuclei of tetracoordinated phosphorus are not affected by substituents on the tricoordinated P,

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

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NURETDINOV, I. A., et al, <u>Izvestiya Akademii Nauk SSSR</u>, Seriya Khimicheskaya, Vol 4, Apr 70, pp 914-916

while the shifts of nuclei on tricoordinated P behave analogously to monophosphoric compounds. The constants of spin-spin interaction Jpp depend on the electron donating power of the substituents on tricoordinated phosphorus.

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UDC: 542.91-661.718.1

NURETDINOV, I.A., BUINA, N.A., GRECHKIN, N.P., LOGINOVA, E.F., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR

"Thiol Esters of Selenophosphorus Acids"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 3, Mar 70, pp 708-710

The ethyl- and butylthiol esters of phenyldiethylamidoselenophosphoric acid are liquids, while the phenylthiol ester of this acid is a crystalline substance. Thiol esters of diphenylselenophosphoric acid are produced by a similar reaction. $(PhO)_{2}P(Se)Cl + RSH + R_{2}N \rightarrow (PhO)_{2}P(Se)SR + E_{1}N \rightarrow HCI$

The resultant products have a considerably higher boiling point than thiol esters of phenyldiethylamidoselenophosphoric acid. The properties of eight esters of selenophosphorus acids are tabulated.

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WDC 621.382.2

AGEYEVA, L. A., KOVALEVA, N. K., and LOGINOVA, L. B.

"Production and Study of Planar Contacts in Gunn Diodes"

Izv. Leningr. elektrotekhn. in-ta (Bulletin of the Leningrad Electrical Engineering Institute), 1970, Issue 96, pp 60-63 (from RZh-Elektronika i yeye primeneniye, No 8, August 1971, Abstract No 8B114)

Translation: The results are presented of an experimental study of the resistance of contacts for coplanar Gunn-effect diodes. Alloys of AgSn, NiIn, and AgGeIn were used as material for the contacts. The resistance of GaAs contacts with an electron concentration of 1015 cm⁻² amounted to 15. 10⁻² ohm.cm⁻. A. Ye.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

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UDC 576.809.5

LOGINOVA, L. G.

"Physiological Characteristics of Thermophilic Microorganisms"

Uspekhi mikrobiologii (Advances in Microbiology), No 7, 1971

Abstract: The survey contains data on some physiological characteristics of thermophilic bacteria. It is known, for example, that at high temperatures their respiration is intensified markedly, a phenomenon consistent with the large cytochrome content of their cells. Spore-forming thermophilic bacteria are most demanding of the composition of the nutrient medium, i.e., of a larger quantity of vitamins than mesophilic forms. The factors that enable thermophiles to exist and develop at high temperatures are revealed. There is a discussion of the possibility of using thermophilic microorganisms for practical purposes.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

1/2 016 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--THE EFFECT OF GROWTH CONDITIONS OF THERMUGENESIS IN CANDIDA

TROPICALIS -U-

AUTHOR-(03)-PLATONOV, A.L., POZMOGOVA, I.N., LOGINOVA, L.G.

COUNTRY OF INFO--USSR

SOURCE--MIKROBIOLOGIYA, 1970, VOL 39, NR 1, PP 47-54

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--YEAST, FUNGUS, GLUCOSE, CULTURE MEDIUM, NITROGEN, PHOSPHORUS, CALORIMETER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0484

STEP NO--UR/0220/70/039/001/0047/0054

CIRC ACCESSION NO--APO117720

____UNCLASSIFIED

PROCESSING DATE--230CT70 2/2 UNCLASSIFIED 016 CIRC ACCESSION NO--APO117720 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. YEAST GROWTH WAS ACCOMPLISHED WITH AN INTENSIVE HEAT OUTPUT WHICH WAS REGISTERED JUST AFTER CELL INOCULATION IN THE CHAMBER OF MICROCALORIMETER. DURING THE FIRST SIX HOURS OF THE YEAST GROWTH THE BULK OF ENERGY (60-78PERCENT), RELEASED AS A RESULT OF GLUCOSE OXIDATION BY THE CULTURE, WAS CONTAINED IN THE PRODUCTS OF GLUCOSE INCOMPLETE OXIDATION. THERMOGENESIS DECREASED DURING THE YEAST GROWTH ON MEDIA WITHOUT A NITROGEN OR PHOSPHORUS SOURCE. HOWEVER, RECALCULATION OF THE ENERGY RELEASED AS HEAT PER 1 MG OF UTILIZED GLUCOSE HAS SHOWN THAT IT WAS 1.5-2 TIMES HIGHER THAN IN THE CASE OF THE YEAST GROWTH ON THE COMPLETE MEDIUM. HENCE, UNCOUPLING BETWEEN THE RATE OF ENERGY ACCUMULATION AND THE YEAST GROWTH TOOK PLACE ON THE MEDIUM WITHOUT N OR P. ONTENSIVE AERATION DURING THE YEAST GROWTH ON THE PHOSPHORUSLESS MEDIUM RESULTED IN AN INCREASE OF GLUCOSE UTILIZATION. BIOMASS YIELD AND THERMOGENESIS. THE VALUE OF ENERGY COEFFICIENT REMAINED THE SAME UP TO A CERTAIN LIMIT OF AERATION; IF IT BECAME HIGHER THE ENERGY COEFFICIENT DECREASED, PROBABLY, DUE TO A FALL PH PHOSPHORUS CONTENT DOWN TO PHYSIOLOGICAL THRESHOLD CONCENTRATION.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

USSR

UDO 621.315.592:546.19'681

SCKOLOV, YE.B., BOL'SHEVA, YU.N., LOGINOVA, L.V., MIL'VIDSKIY, M.G.

Behavior Of Copper During Melting Of Gallium Arsenide To A Flux

Sb.nauch.tr. po probl. mikroelektron. Mosk. in-t elektron.tekhn. (Collection Of Scientific Works On Problems Of Microelectronics. Moscow Institute Of Electronics Technology), 1972, Issue 8, pp 109-112 (from RZh:Elektronika i yeve primeniye, No 9, Sept 1972, Abstract No 98106)

Translation: The behavior is considered of one of the most studied impurities—copper at the boundary of melts of gallium arsenide—boric anhydride. It is assumed that with equilibrium of these two melts it is possible for extraction of the impurities in the flux to take place. It is shown that with high concentrations of copper (and copper oxide) in the melt, it is possible to disregard extraction of boric anhydride in the melt. 4 ref. Summary.

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UDC 547.341

RAZUMOV, A. I., SCKOLOV, M. P., LICREER, B. G., MOSKVA, V. V., SAZONOVA, Z. YA., and LOGINOVA, N. G., Kazan' Chemical-Technological Institute Imeni S. M. Kirov

"Synthesis and Properties of Phosphorylated Imines and Enamines"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 5, May 73, pp 1019-1026

Abstract: Several methods exist for the synthesis of phosphorylated secondary and tertiary enamines and imines: direct reaction of primary amines with aldehydes, reaction of secondary enamines with phosphorylated aldehydes in presence of p-toluenesulfonic acid, reaction of the diamides of allylphosphorous acid with aldehydes, and transamination of enamines. Imine-enumine tautomerism of these products was studied showing that the position of tautomeric equilibrium depends principally on the nature of substituents at the nitrogen atom and on the type of solvent used. Hydrogen bonding of the enamine forms depends mainly on the substituents at nitrogen and phosphorus atoms and on the steric distribution of proton acceptors.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

1/2 009 UNCLASSIFIED PROCESSING DATE---20NOV70
TITLE--AL*FIYA, A NEW HIGH QUALITY LIQUID SYNTHETIC DETERGENT -U-

AUTHOR-(05)-BULYANOVSKIY, D.M., GETMANSKIY, I.K., LOGILNOVA, N.I.,

MAYMUSHINA, A.A., KUDYASHOV, A.I.

CCUNTRY OF INFO-USSR

SOURCE-NEFTEPERERAB. NEFTEKHIM. (MOSCOW) 1970, (3), 34-5

CATE PUBLISHED ----- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES, MATERIALS

TOPIC TACS--BIODEGRADABLE DETERGENT, AMIDE, FATTY ACID, PHOSPHATE, UREA, BLEACHING AGENT/(U)ALFIYA DETERGENT

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/0441

STEP NO-UR/0318/70/000/003/0034/0035

CIRC ACCESSION NC--AP0128011

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

PROCESSING DATE--20NGV70 UNCLASSIFIED 2/2 009 CIRC ACCESSION NO--APOL28011 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE COMPONENTS OF ALIFIYA ARE PRIMARY ALKYL SULFATES 8-13. SEC-ALKYL SULFATES 3-8, SYNTHONAL DT-7 (A PRODUCT OF EXYETHYLATION OF C SUBIO NEGATIVE 13 PRIMARY ALCS.) 0-3, SYNTHAMID, 5 (MONOETHANCLAMIDES OF SYNTHETIC FATTY ACIDS) 4, NA HEXANETAPHOSPHATE 4. UREA 13. ISO-PROH 1. BLEACHING AGENT 0.15. PERFUME 0.1, AND H SUB2 O TO LOOPERCENT. ALL THE COMPONENTS OF ALIFIYA ARE BIODEGRADABLE. THE WASHING POWER OF A 0.125PERCENT SOLN. OF ALIFIYA IN HARD WATER (15DEGREES) AT 50DEGREES WITH WOOL IS 124-180PERCENT OF THAT OF NA LAURYL SULFATE. ALIFIYA CAN BE USED EFFECTIVELY ALSO FOR SILK AND SYNTHETIC FABRICS. THE STABILITY OF ALIFIYA AGAINST TURBIDITY AT 10DEGREES LASTS GREATER THAN 24 HRS. UNCLASSIFIED STREET STREET STREET HER STREET STREE

UDC 576.858.25.097.2.083.3

LOGINOVA. N. V., NARODITSKIY, B. S., and GAVRILOV, V. I., Institute of Virology imeni D. I. Ivanovskiy, USSR Academy of Medical Sciences, Moscow

"A Simple Method for the Concentration of Tissue Culture Antigen of Japanese Encephalitis"

Moscow, Voprosy Virusologii, B No 4, 1973, pp 494-496

Abstract: Tests were conducted on the feasibility of using polyethylene glycol (PEG) to concentrate Japanese encephalitis (JBE) and West Nile Fever viruses. The viruses were grown in chick embryo cells maintained in medium 199 containing 10% bovine serum. The culture fluid was centrifuged for 1 h at 10,000 g at 4°C to remove cellular detritus. The pH of the supernatant liquid was adjusted to 7.8 with sodium bicarbonate and NaCl was added to 0.5 M concentration. This was followed by the addition of 6,000 MW PEG to 8-9% and storage at 4°C for 1 to 24 h. Centrifugation for 1 h at 10,000 g yielded a sediment which was dissolved in 1-2 ml borate buffer, pH 9.0, containing 0.4% BSA and tested for hemagglutination. JBE was found to be concentrated 50-70-fold after storage at 24 h; significant concentration was also evident after 1 h. Concentration of West Nile virus was less effective and smounted to 8-16-fold concentration, presumably due to aggregation of the virus. PEG thus offers an easy method for concentrating JBE in tissue culture supernatants.

VASHKOVA, V. V., LOGINOVA, N. V., and L'VOV, D. K., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences, USSR

"A Comparative Study of the Effects of Two Varieties of Japanese Encephalitis Virus on Chromosomes and Mitotic Activity of Cells"

Moscow, Voprosy Virusologii, No 4, Jul/Aug 71, pp 494

Translation: The effects of two varieties of Japanese encephalitis virus (Nekayama strain and clone No 33), differeing from each other in neuropathogenicity with regard to white mice and in certain other genetic properties, on the chromosome apparatus in cells and on the mitotic activity of tissue cultures were studied. The Nakayama strain had no effect on the mitotic activity of tissue cultures. Clone No 33 suppressed mitotic activity, beginning with the 14th hour after inoculation. Forty-three hours after inoculation, cultures infected with the Nakayama strain had 17.2% chromosome rearrangements and those infected with clone No 33 had 11.7% of rearrangements.

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WC 613(075.8)

ZIL'BER, D. A., (DECEASED), LOGINOVA, R. A., NOVIKOVA, I. M., OLEKHNOVICH, A. I., OSTROVSKIY, M. M., and RAZUMOVSKIY, M. D.,

Gigiyena (Hygiene), Moscow, "Meditsina," 1970, 384 pp

Translation: Annotation: This textbook has been compiled for students of pharmaceutical institutes and pharmaceutical faculties of nedical institutes in accordance with the hygiene teaching program. It contains materials corresponding to the nature of their future work. Such materials concern problems of hygiene in pharmacies, labor hygiene in galenical and chemicopharmaceutical enterprises, foundations of epidemiology and organization of antiepidemic measures, and sanitary education.

The indicated subjects are completely lacking in hygiene textbooks issued for students of therapeutic, sanitary, and other faculties of medical institutes.

Some facets of general hygiene are elucidated also in this textbook without which it is impossible for students to learn certain hygienic problems which are specific for them as future specialist pharmacists.

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UDC: 621.314.652

BELYAYEV, V. B., LOGINOVA T. A., TSINMAN, I. M.

"A Device for Igniting Gas-Discharge Tubes With Liquid Cathode"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obrastsy, Tovarnyye Znaki, No 7, Mar 72, Author's Certificate No 329594, Division G, filed 24 Aug 70, published 9 Feb 72, p 208

Translation: This Author's Certificate introduces a device for igniting gas-discharge tubes with liquid cathode. The device contains two coaxially arranged igniting electrodes, one of which is made in the form of a rod. These electrodes are accommodated in a branch of the tube. The device also contains a pulse transformer. As a distinguishing feature of the putent, the reliability is increased, the design is simplified, and the ignition voltage is reduced by placing the primary winding of the pulse transformer on the branch of the tube, the secondary winding being the second ignition electrode which is made in the form of a helix with the end on the side furthest from the cathode being electrically connected to the rod electrode, while the other end of the helix forms with the rod electrode a discharge gap close to the cathode.

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1/2 024 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--OSMOTIC STABILITY OF LEUKOCYTES UNDER NORMAL CONDITIONS AND DURING
EXPERIMENTAL RADIATION INJURY -UAUTHOR--LOGINOVA, T.G.

COUNTRY OF INFO--USSR

E RATE OF

SOURCE-RADIOBIOLOGIYA 1970, 19111, 70-3

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--X RAY RADIATION BIOLOGIC EFFECT, LEUKOCYTE, OSMOSIS, SEASONAL VARIATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0235

STEP NO--UR/0205/70/010/001/0070/0073

CIRC ACCESSION NO--APOL19231

UNCLASSIFIED -

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

2/2 024 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--APO119231 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. MALE RATS WERE IRRADIATED WITH 200 R X RAYS. EXPTS. WERE PERFORMED IN SUMMER AND IN WINTER TO DET. A SEASONAL INFLUENCE. THE OSMOTIC STABILITY OF LEUKOCYTES FROM INTACT RATS IN WINTER DIFFERED FROM THAT OBSD. IN THE SUMMER (THE LATTER BEING HIGHER). NO SIGNIFICANT CHANGES OCCURRED ONE DAY AFTER THE IRRAUN. AFTER THREE DAYS THE OSMOTIC STABILITY OF THE LEUKOCYTES WAS MARKEDLY DECREASED. TWO MONTHS AFTER THE IRRADN. THE OSHOTIC STABILITY WAS STILL NOT RECOVERED AND SHOWED A TENDENCE TO LOWER VALUES. FACILITY: VOENNO-HED. AKAD. IM. KIROVA, LENINGRAD, USSR. UNCLASSIFIED

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UDO 621.382.322

ZAGORSKIY, YA.T., LOGINOVA, T.I.

"Investigation Of Low-Frequency Amplifying Parameters Of Field-Effect Transistors"

Dokl. Vses. nsuchno-tekhn. konferentsii po radiotekhn. izmereniyam. T. 2 (Proceedings Of The All-Union Scientific-Technical Conference On Radio Engineering Measurements. Vol. 3), Novosibirsk, 1970, pp 102-106 (from RZh-Elektronika i yaya primeneniya, No 2, February 1971, Abstract No 2B240)

Translation: The dependences of the h-parameters of field-effect transistors on the current of the source and the voltage source-drain are investigated. In order to assure open circuit conditions at the input, a dynamic load was applied, in the capacity of which the transistor was used. Standard dependences are presented. 11 ref. I.M.

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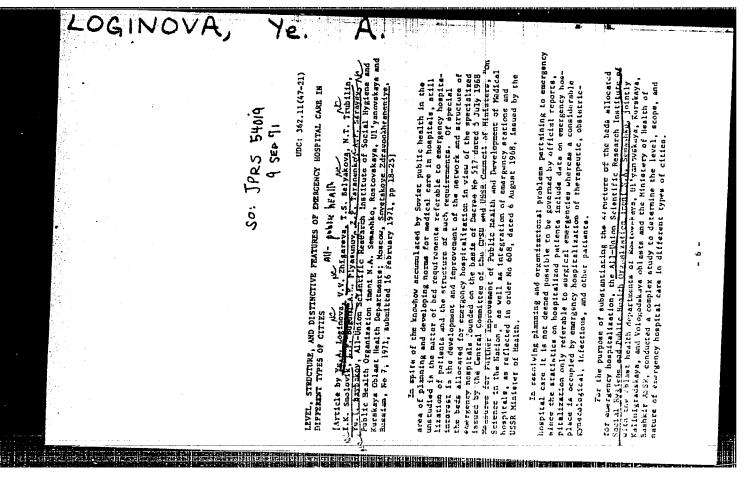
URITSKAYA, M. Ya., LOGINOVA, V. A., and YAHONTOV, L. N., USSR Institute of Chemical-Pharmaceutical Scientific Research imeni S. Ordzhonikidze, Moscow

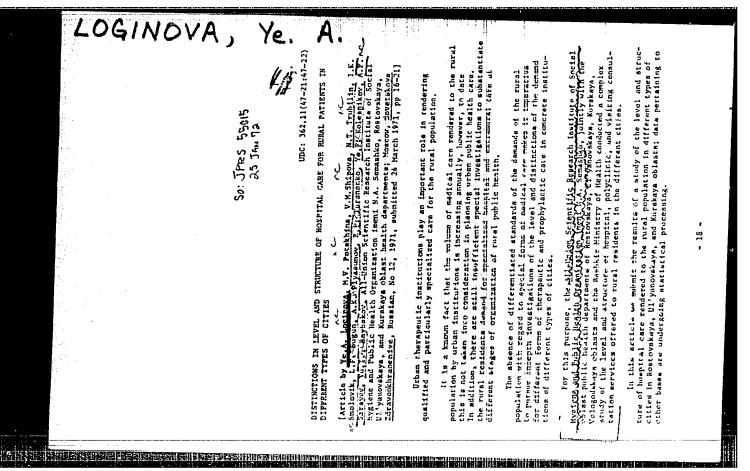
"Azaindole Derivatives XLIII: Synthesis of 1-acetyl-4-methyl-7-azatriptamines"

Riga, Akademiya Nauk Latviiskoy SSR, Himiya Geterotsiklicheskih Soedinenii, No 10, Oct 73, pp 1370-1373

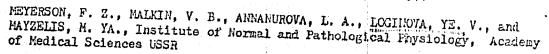
Abstract: The synthesis of 1-acetyl-4-methyl-7-azatriptamine from the ethyl ester of (4-methyl-7-azaindolyl-3) acetic acid by way of the 3-(β -chloro-ethyl)-4-methyl-7-azaindole, followed by replacement of the halogen by a nitro group and reduction of the nitro group to the amine is shown. An alternate method is to remove the halogen by reacting 1-acetyl-3-(β -chloroethyl)-4-methyl-7-azaindole with ammonium hydroxide, potassium bis-(dimethylmethoxysilyl) amide and potassium phthalimide (followed by removal of the phthalimide protector). The IR spectrum was used to determine the final structure.

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IDC 577.4



"Effect of RNA Synthesis Inhibitor on the Development of Adaptation to High-Altitude Hypoxia"

Moscow, Izvestiya Akademii Nauk SSSSR, Seriya Biologicheskaya, No 3, May/Jun 72, pp 405-412

Abstract: The importance of increased nucleic acid and protein production in adaptation to high-altitude hypoxia was evaluated by minimistering actinomycin 2703 -- an RNA synthesis inhibitor -- to rats raised in 500 meter increments to 7,000 meters over a 25-day period in an altitude chamter (6 hrs/day exposure). Experiment variations included rats unadapted to hypoxia (control) (1), adapted over 25 days (2), unadapted and given actinomycin for 5 days (3), and adapted over 25 days and given actinomycin from the 20-25th days (4). Weight gain rate decreased in group 2 as compared to controls, weight decreased 7% in group 3, while weight decreased 16% in group 4 and 63% of the animals died during acute hypoxia generated by raising them to 11,000 meters at 80-100 meters/sec. Protein synthesis in the

MEYERSON, F. Z., et al., Izvestiya Akdemii Nauk SSSR, Seriya Biologicheskaya, No 3, May/Jun 72, pp 405-412

heart and cerebral cortex increased in group 2, remained normal in group 3, but decreased in group 4, indicating that actinomycin is inhibitory only during adaptation to hypoxia. While 0, consumption decreased 30% in group 1 at 7,000 meters, by the 25th day of adaptation the decrease diminished to 10% in group 2. Actinomycin produced no significant changes in group 3 as compared to controls. In group 4 however, actinomycin caused 0, consumption to decrease 20 25%. Moreover the consumption decreased 22% at sea level for this group, indicating that something other than the O, transport system had been affected, since 0, is readily available and there is no stress on the transport system. This idea is further supported by the fact that while the breathing rate decreased over the adaptation period, actinomycin caused it to rise again. Nor did the drug cause abnormal changes in erythrocyte and hemoglobin counts. Finally, animals given actinonycin and exposed to acute hypoxia died not during exposure but on the following day in an abundance of 0,. Thus it is suggested that actinomycin disrupts 0, utilization -- 1.e., mitochondrial function, rather that 0; transport. The increased protein and nucleic acid production detected is a necessary part of adaptation to hypoxia, and it is inhibited by suppression of mitochondrial activity. 2/2

- 42 -

LOGINOVA, Ye. in the course of investigating thr effect on the organism of prolonged haracterizes the conception of a hypodynamic syndrome was formed which is adaptive capabilities (A.R. Euroysakaya er al., 1964; L.I. Kakurin et al., 1965; L.I. Kakurin et al., Various resoures have been proposed to prevent development of the hyponend syndiase; physical axeroise (A.V. Veremin et al., 1969; V.I. Stepantsov and A.V. Veremin Brannon et al., Miles et sh., and others, use of arm and also cutis (1.D. Pearov. Uagis Severes et al., and others), use of pharmacolone fil.) and finalty users at allityer and By. Laplackayn; Bohn et alli McAlly et al., and severe at allityer and By the physician and allity and and allity and allity and allity and allity severe and foreign constitution in the proposettimes of a basine of physician and severe physicians (V.B. Malkin et al.; P.V. Vanil'yey and M.M. Hylove, and others). N.C. Loginma, V.Ye. The purpose of the present work was to investigate the possibility of the trypodynamic systems of preventing development of Mathod. The invostigations were conducted in four series of experiments and ranged albino male race, weighting 120 to 200 grows. The distribution which in groups and experimental conditions are allown in Table 1. The invicontion in and our authors called werlows attention to a regimen of invicontion trifing. Their attoine authors datablished that optimin effectiveness is for 5-by-step alevation to increasing altitudes, staying their out to 5-by day for in their and descending for 26-16 hours avery day [aid]. Such a regiment of training in hypoxia is most effective for development of compensatory rectinguishing the molecular and calluing levels (F.2. Mayaron et al.). UDC: 612.766.2.014,464 inche studies are indicative of the affectiveness of using "hymnic" THE EFFECT OF AN ALTERED GAS ENVIRONMENT ON SOME PHYSIOLOGICAL, EFFECTS OF PROLONGED HYPOXINESIA (EXPERIMENTS ON ANIMALS) SO: JPRS 54435 - 104 15 SN 5 e ..

LOGNITHON V.

Acc. Nr.: MO051327

Ref. Code: UR 90/2

FROM:

FBIS, Daily Report, Soviet Union, 20 March 1970, Vol III, No 55, p a 27

USSR

POLAR INSTITUTE SHIPS AID POLISH FISHERMEN

Moscow PRAVDA 16 Mar 70 p 4 L

[V. Lognituov report: "Persey-3' Helps the Pishermen"]

[Text] A telegram has recently reached the <u>Polar Institute</u> from the scientific research ship "<u>Persey-3</u>" which is now in the South Labrador area. It says that the "Persey-3' which is now research work with practical assistance to Polish fishermen.

North Atlantic Polar Institute laboratories head K. G. Konstantinov has commented on this telegram:

"Close cooperation has long been organized between the ichthyologists of Bulgaria, the GDR, Poland, Romania, and the Soviet Union. We meet each other every year at Murmansk, Gdynia, Rostok, or Constants and exchange scientific information. But more frequently

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the meetings take place at sea, in the regions of the fisheries, where dispatcher conferences are held by radio. The fishermen report on the situation in the industry. There is now a very complex ice situation in the South Labrador area, where a large group of Soviet and Polish ships is located. The Polar Institute's scientific workers are carrying out research on the nature of the ice distribution, giving forecasts of its movement, searching for fish shoals in the most advantageous and secure fishery areas, and are reporting this information to the Polish ships' captains.

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UDC 591.1.05

AKHVLEDIANI, K. S., LOGUA, G. SH., KEKENADZE, L. V., and LOMOURI, I. D. Tbilisi State University

"A Method of Direct Microdetermination of Phosphorylcholine and Some Other Esters of Phosphoric Acid"

Tbilisi, Bulletin of the Academy of Sciences of the Georgian SSR, Vol 66, No 2, May 72, pp 437-439

Abstract: A new method of direct microchemical determination of phosphoryl-choline based on a change in the optical density of a phosphomolybdate solution has been developed. A phosphorylcholine solution (0-240~Mg/ml) is added to a reagent solution containing 2% phosphomolybdic acid acidified with 0.1 N HCl to pH 5.3+0.1. Optical density is measured at N=358~mH and the level of phosphorylcholine is determined from a calibrated titration curve. This method is suitable for determination of other phosphate and pyrophosphate esters.

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Pharmacology on Toxicology

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AKHVIZDIANI, K. S., LOZU., G. Sn., LOMCURI, I. D., Thillini State University

"Synthesis and Acetylcholdno-Mike Activity of Acetylpholycorylcholdno"

Thillied, Soobshehendya Akademii Kank Gruzinskoy SER, Vol. 65, No 2, 1972, pp 465-467

Abstract: Acetylphocyhorylcholine was simthesized by treating phocyhorylcholine with acetic animaride. Acetylphosphorylcholine and phosphorylcholine ware separated by electrophorosis (assonis-neetle sold buffer, piles 8.0) and also by paper chromato raphy in various colvents. The kupt solvent was betanedethanol-sectic coid-water (8:2:1:3) in which the RF is 0.25 for scattlemes kerylcholine, 0.15 for phosphorylaholine, 0.45 for ecetylaholine, and 0.36 for choline. Biological tests indicate that acetylphosphogylcholine behaves like acetylcholine in muscle cells.

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UDC 662,766

AKHVLEDIANI, K. S., LOGUA, G. SH., LOMOURI, I. D., Thilisi State University

"Synthesis of Acetylphosphorylcholine and Its Acetylcholine-like Activity"

Tbilisi, Soobshcheniya Akademii Nauk Gruzinskoy SSR, No 2, 1972, pp 465-467

Abstract: Acetylphosphorylcholine was synthesized to check the proposition that in the case of fermentative acetylation of phosphoryicholine, not acetylcholine but acetylphosphorylcholine is formed which has acetylcholine-like biological activity. The acetylphosphorylcholine and phosphorylcholine were analyzed by radio activity. The substances were separated by paper chronatography and electrophoresis. The acetylcholine activity was tested on the musculus rectus abdominis of a frog. The proposition was proved correct.

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	Lawrence translation	718901D
AUTHOR	LOGUNOV A. DIRECTOR INSTITUTE OF CORRESPONDING MEMBER OF THE ACADEMY	HIGH ENERGY PHYSICS, OF SCIENCES
	U.S.S.R.	11/.
TITLE	A STEP TOWARD THE COMPREHENSION OF	ANTIMATTER 5
NEWSPAPER	PRAVDA, FEBRUARY 14, 1970, P 3, COL	5 1-3
ABSTRACT TUTE OF HIG N. K. VISHN F. A. YECH, V. M. KUT, I A. G. MOROZ V. I. SOLYA HAS DISCOVE IS DESCRIBE	IT IS REPORTED THAT A TEAM OF PHYSICH ENERGY PHYSICS, CONSISTING OF YU. M. EVSKIY, YU. P. GORIN, S. P. DENIBOV, S. D. ZHIL, CHENKOVA, A. M. ZAYTBEV, U. N. L. G. LANDSBERG, V. G. LAPSHIN, A. OV, A. I. PETRUKHIN, YE. A. RAZUVAYEV, NIK, D. H. STOYANOVA, V. P. KHROMOV, FRED THE NUCLEI OF ANTIHELIUM. THE EXP. D.	CISTS AT THE INSTI- ANTIPOV, W. DONSKOV, A. KACHANOV, A. LEBEDEV, V. I. RYKALIN, AND R. S. SHUVALOV PERIMENTAL PROCEDURE
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LOGUNOV, A. A. et al, Teoreticheskaya i Matematichcskaya Fizika,

integral representation, inverse integral representation, the upper bound of the amplitude of the inelastic process with fixed projection of moment, the upper bound of the decrease in the differential inelastic cross-section in the wide-angle region at high energies, the sensitivity of the bounds of the multipleproduction cross-section to the dimensions of the analyticity region for variables $\cos \theta$ and ω , the Kinoshita-Loeffell-Martin representation, and the evaluation of the differential elastic

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201820008-8"

LOGUNOV. A. A., MESTVIRISHVILI, M. A., and KHRUSTALEV, O. A., Institute of High-Energy Physics

"Restrictions on the Behavior of the Elastic and Inelastic Cross-Sections at High Energies. II"

Moscow, Teoreticheskaya i Matematicheskaya Fizika, Vol 9, No 2, Nov 71, pp

Abstract: The first part of the article, dealing with the short-range action of nuclear forces and restrictions on the behavior of the elastic and inelastic cross-sections, considers the effective interaction radius, restrictions on the behavior of the cross-sections, the equality of the total interaction cross-sections of particles and antiparticles at high energies, and restrictions on the behavior of the total interaction cross-sections at high energies. The second part of the article, on the basis of the condition of unitarity and analyticity, obtains conclusions regarding the behavior of the differential multiple-production cross-section with energy growth in the wide production angle region. Topics covered in the second part include the