UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APO112614 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE REACTION WAS STUDIED MANOMETRICALLY. POLY (PHENYLACETYLENE) (1) INHIBITS OXIDN. OF PH SUB2 INTRODUCTION PERIOD OF PH SUB2 CH SUB2 OXION. INCREASED LINEARLY WITH I CONCN. ON REACTION WITH FREE RADICALS, ABSORPTION COEFF. OF I DECREASED AT DIFFERENT WAVELENGTHS DIFFERENTLY. INHIBITORS ARE THE PARTS OF I MACROMOL. HAVING EXTENDED CONJUGATION. DURING A REACTION OF I WITH PH SUB2 CH SUB2 THE CONCN. OF PARAMAGNETIC CENTERS IN I DECREASED. ANALOGOUS EFFECTS WERE OBSERVED WHEN I WAS KEPT IN THE PRESENCE OF AZOBISISOBUTYRONITRILE IN THE ABSENCE OF O. FACILITY: MOSK. INST. TONKOI KHIM. TEKHNOL. IM. LOMONOSOVA, MOSCOW. USSR. UNCLASSIFIED

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USSR

UDC: 621.391:519.2

ASEYEVA, T. B. and BYKHOVSKIY, M. A.

"Noise Immunity of Polarized Spaced Reception of Multifrequency Signals in the Short-Wave Range"

Tr. NII radio (Transactions of the Scientific Research Institute of Radio) 1970, No. 1, pp 65-76 (from RZh-Radiotekhnika, No. 3, March 71, Abstract No. 3A45)

Translation: A formula is obtained for determining the noise immunity of a system of polarized space reception of multichannel signals in a multibeam channel with definite characteristics (the number of beams, their relative delay, and the state of polarization). Resume

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UDC 621.355.2(088.8)

ASEYNRERG E Ye., CHERNYSHEV, I. I., KRYUCHKOV, A. V., BETS, D. I., MARSHEVA, Z. V.

"A Lead Battery"

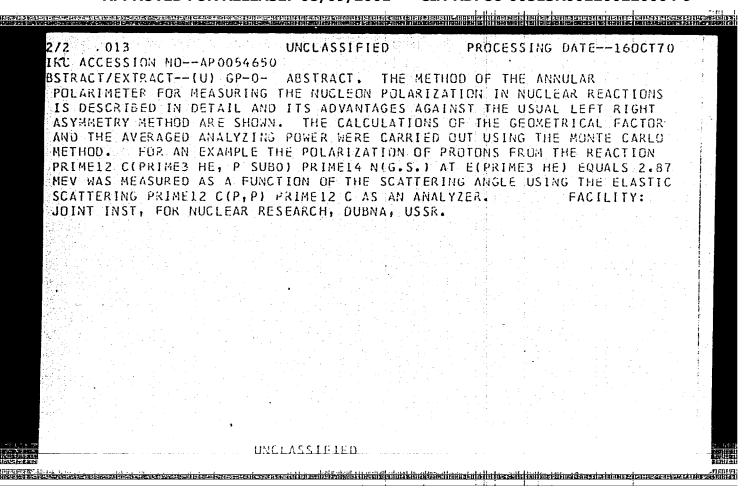
USSR Author's Certificate No 300913, Filed 21/08/69, Published 27/05/71, (Translated from Referativnyy Zhurnal, Khimiya, No 2, 1972, Abstract No 2 L213 P by the author's).

Translation: In order to increase the specific electrical characteristics and simplify the technology of manufacture of a lead battery, its body is made as individual vessels connected by barriers, each of which is made as a one-piece unit with the walls of the two neighboring vessels.

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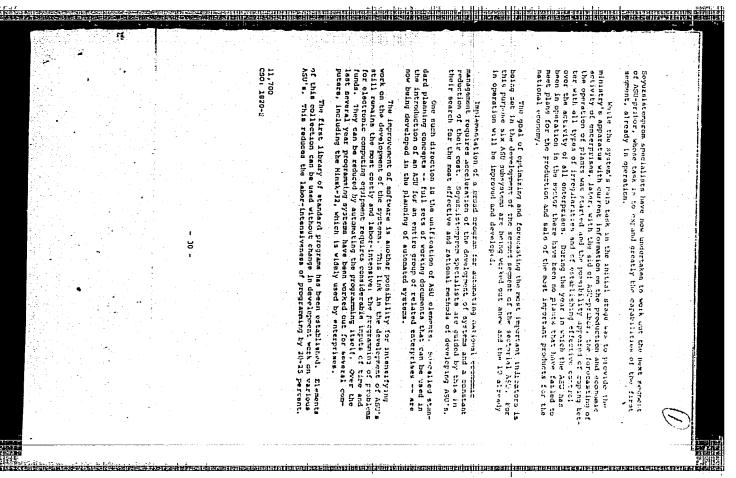
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USSR

UDC 619:616.981.42-078:636.22/.28

MUFTEYEV, F. G. and KONOVALOV, I. F., Bashkir Scientific and Practical Veterinary Laboratory, ASHATKIN, A. F., YUREYCHUK, V. P., and GUS'KOV, V. V., Primorskiy Kray

"Allergic Diagnosis of Brucellosis"

Moscow, Veterinariya, No 11, 1972, pp 59-61

Abstract: The use of brucellin resulted in the detection of diseased cattle that did not react serologically to brucellosis. In herds where the course of the disease was acute, 7.8 to 24% more animals reacted positively to the preparation than in the agglutination and complement-fixation tests. Antibodies were found in almost half of the positive within 15 to 30 days. Brucellin was injected subcutaneously into the lower lid of one of the animal's eyes. A positive reaction in a sick animal was manifested within 48 hours by pronounced edema at the injection site, readily evaluated by inspection or palpation.

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1/2 039 UNCLASSIFIED PROCESSING DATE--090C170
TITLE--THE WAYS OF PROPHYLAXIS AGAINST INFECTION OF THE OPERATIVE WOUNDS

AUTHUR-(02)-SHAFER, I.I., ASHATKIN, V.A.

COUNTRY OF INFO--USSR

SOURCE—VESTNIK KHIRURGII IMENI I. I. GREKOVA, 1970, VOL 104, NR 5, PP 9-12 DATE PUBLISHED—————70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-PROPHYLAXIS, WOUND, SURGERY, UV IRRADIATION, SANITATION, ANTIBIOTIC, ENOMYCIN, GLUE/(U)BF6 GLUE

CONTROL MARKING-NO RESTRICTIONS

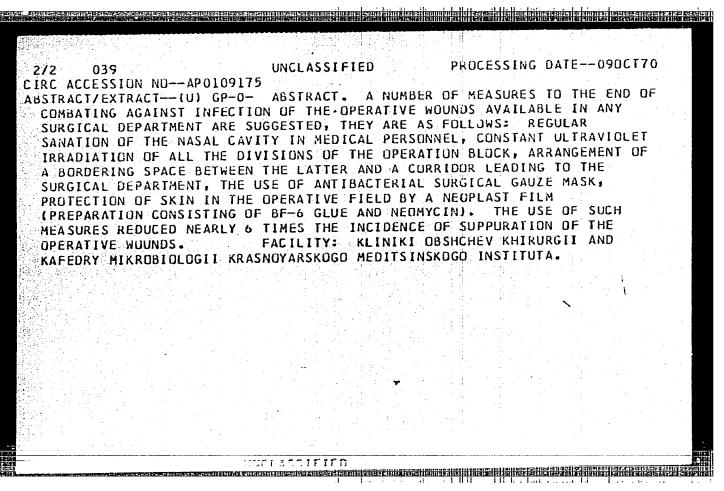
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/1024

STEP NO--UR/0589/70/104/005/0009/0012

CIRC ACCESSION NO--APO109175

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200220004-9"

USSR



UDC 621.385.2

AFANASOV, S. G., ASHBEL', I. YA.

"Distinctive Feature of Impedance Characteristics of Spherical Diode with External Cathode"

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronic Technology. Scientific-Technical Collection. Microwave Electronics), 1970, No 2, pp 62-74 (from RZh-Elektronika i yeye primeneniye, No 7, July 1970, Abstract No 7A120)

Translation: A computation is performed for the impedance characteristics of a spherical diode (SD) with an external cathode (i.e., computation of the active and reactive components of the impedance of a diode) with the assumption of smallness of the high-frequency disturbing effect with respect to the d-c voltage of the SD. A comparison of the computed impedance characteristics of a SD with the corresponding characteristics of a plane diode shows that with a SD with an exterior cathode, the negative active component of the impedance is considerably larger with respect to absolute magnitude. The possibility is considered of the practical use of SD as a reactive element for control of frequency oscillatory systems. 4 ref. Summary.

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Public Health, Hygiene and Sanitation

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UDC 615.835.5:628.83

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ASHBEL', S. I., ORESHKOVICH, I. V., and SOKOLOVA, V. G., Gor'kiy Institute of Labor Hygiene and Occupational Diseases

"Ventilation of Aerosol Inhalation Rooms"

Moscow, Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kultury, Vol 36, No 1, 1971, pp. 2-76

Abstract: The method of treating various diseases by letting patients inhale the aerosols of alkalis, antibiotics, sulfanylamides, bronchodilators, antihistamine, vitamins, corticosteroids, proteolytic enzymes, and other drugs is becoming increasingly more popular. Twenty inhalation rooms in the city of Gor'kiy were studied and found far from adequate. Each inhalation room accommodates three to six persons, each breathing a different aerosol. Because of poor ventilation, significant residual amounts of various drugs remain in the air, yielding an "aerosol bouquet" and causing chronic diseases among the personnel. In contrast, the authors describe the inhalation room designed by them. It contains several individual chambers 1/2

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ASHBEL', S. I., ORESHKOVICH, I. V., and SOKOLOVA, V. G., Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kul'tury, Vol 36, No 1, 1971, pp 72-76

which are closed during treatment, and a ventilation system which is properly installed and has enough power to purify the air. This inhalation room has been used for 2 years with highly satisfactory results.

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1/2 028 UNCLASSIFIED

PROCESSING DATE--27NOV70

TITLE--PATHOLOGICAL CHANGES OF THE CARDIO VASCULAR SYSTEM CAUSED BY

ANTIBIOTICS -U-

AUTHOR-(02)-ASHBEL, S.I., BOGOSLOVSKAYA, I.A.

COUNTRY OF INFO--USSR

SOURCE--TERAPEVTICHESKIY ARKHIV, 1970, VOL 42, NR 4, PP 55-59

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--DRUG INDUSTRY, ANTIBIOTIC, CARDIOVASCULAR SYSTEM, SELECTIVE DRUGEFFECT, ELECTROCARDIOGRAPHY, INDUSTRIAL MEDICINE, PENICILLIN, STREPTOMYCIN

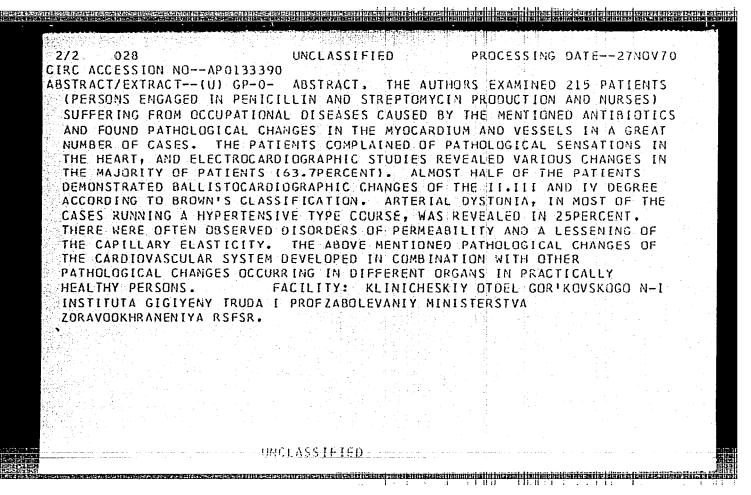
CONTROL MARKING--NO RESTRICTIONS

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STEP NO--UR/0504/70/042/005/0055/0059

CIRC ACCESSION NO--APO133390

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USSR

ASHCHEULOVA, Ye. N., All-Union Research Institute of Physical Culture

"Determination of the Acid-Base Equilibrium of the Blood as an Index of General Endurance After Exposure to Hypoxia"

Moscow, Teoriya i Praktika Fizicheskoy Kul'tury, No 11, 1972, pp 49-51

Abstract: The acid-base equilibrium was investigated in a group of veteran mountain climbers after treadmill tests before and after prolonged exposure to low barometric pressure (spending 30 days at 4,000 to 6,000 m above sea level). Before the men went into the mountains, their performance in the endurance tests was marked by a significant lowering of the blood pli by 0.08 unit, a 2.5-fold increase in the content of nonoxidized metabolic products, and a 10% decrease in the standard bicarbonates below the original values, evidence of the development of decompensated metabolic acidosis after physical stress. Following the stay in the mountains, endurance increased substantially. The blood pH was virtually unchanged and the oxygen demand increased only 2.7% while the oxygen debt decreased 17%. Thus, the well-known phenomenon of improved physical performance after exposure to low barometric pressure is related to change in tissue metabolism.

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UDC: 621.396.69:621.319.4

ASEYEV, Yu. N., KRYACHKO, V. V., LOBOV, I. Ye., SYNOROV, V. F., KOSOY, A. Ya.

"A Thin-Film Capacitor"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyve Znaki, No 7, Mar 72, Author's Certificate No 329582, Division G, filed 17 Oct 69, published 9 Feb 72, p 205

Translation: This Author's Certificate introduces a thin-film capacitor in the form of metal plates (e. g. comb plates) applied to a dielectric substrate and covered with a layer of dielectric material. As a distinguishing feature of the patent, the capacitance is increased without increasing the area of the plates by applying a layer of metal to the dielectric.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200220004-9"

USSR UDC: 621.395.657.4

ASEYEV Yn P., BELOUSOV, I. V.

"Electric Pulse Counter"

USSR Author's Certificate Number 310408, filed 29/03/68, published 27/08/71 (translated from Referativnyy Zhurnal Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 3, 1972, Abstract No 3 A369 P)

Trans: The authors suggest an electric pulse counter, based on electromagnetic relays with strobing of the input signal of each cell by the relay contact, in which the output of each cell is connected through tubes to the input of the preceding and succeeding relays, while the switching contacts of even and odd relays, which strobe the input signals, are connected into two independent electrical circuits, connected at one end to the power supply through a switching contact. In order to simplify the device, the other ends of these circuits of the series-connected contacts of odd and even relays are connected to the outputs of the first and second counter cells respectively. I figure.

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UDC: 51

ASHEROV, A. T., ZABRODSKIY, V. A.

"Monitoring the Production Process in an Automated Control System"

Pribory i sistemy avtomatiki. Resp. mezhved. temat. nauch.-tekhn. sb. (Devices and Systems of Automation. Republic Interdepartmental Thematic Scientific and Technical Collection), 1973, vyp. 26, pp 42-52 (from RZh-Kibernetika, No 7, Jul 73, abstract No 7V554 by the authors)

Translation: The paper formulates the problem of simultaneous optimization of processes of production monitoring and selection of controls from the results of prediction for quota fulfillment under automated enterprise management conditions. Monitoring of production output is treated as a controlled semi-Markov process. The structure of the transition interval is considered as well as the structure of income and management; a solution is found for the problem of selecting optimum strategies of inspection and prediction by the method of dynamic programming. Possible applications are discussed.

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- 40 -

UDC: 51

ASHEROV, A. T. and ZABRODSKIY, V. A.

"Control of the Production Process in an Automated Control System"

Pribory i sistemy automatiki. Resp. mezhved. temat. nauch.-tekhn. sb. (Automation Systems and Instruments, Republic Interdepartmental Thematic Scientific-Technical Collection) No 26, 1973, pp 42-52 (from RZh--Matematika, No 7, 1973, Abstract No 7V554)

Translation: The problem of the combined optimization of production control processes and the choice of control from the results of a prognosis for fulfilling a specified plan is formulated for conditions for automating a system of controlling an enterprise. Control of the start of production is considered to be a controllable Markov process. The structure of the transition interval, of the income, and of the control, is considered; a solution is given to the problem of the optimal control strategy and prognosis by the method of dynamic programming. Possible applications are discussed. Authors' abstract

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- 14 -

USSR

ASHEROV, A. T.

"Selection of Strategies for the Supervisory Program in a Computer Complex in an Automated Enterprise Control System"

Mat. Metody Resheniya Ekon. Zadach [Mathematical Methods of Solution of Economics Problems -- Collection of Works], No 3, Moscow, Nauka Press, 1972, pp 213-222 (Translated from Referativnyy Zhurnal Kibernetika, No 6, 1973, Abstract No 6V683, by V. Ostrovskiy).

Translation: This work is dedicated to the construction and analysis of a model of the actual functioning of a technical-economic control system. The process of actual functioning of the system is looked upon as a sequence of regulated (regular) and unregulated (irregular) operations. The unregulated operations, as a rule, are related to solution of economic problems, realization of interrogation-response connections for restoration of the working ability of computer devices. This article presents a mathematical model of the process of reordering of schedules of regulated operations, postulates an approach structure, describes a mechanism for selection of supervisory program strategies, and also studies problems of the construction of an

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Simulations

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UDC: 62-501.72

KOSHARSKIY, B. D., Candidate of Technical Sciences, SKOROBOGATOV, M. S., ASHEROV, A. T., Candidate of Technical Sciences

"Modeling a Control Problem in Systems of Organizational Type"

Kiev, Mekhanizatsiya i Avtomatizatsiya Upravleniya, No 1, Jan/Feb 73, pp 18-26

Abstract: The paper gives a formalized description of organizational systems and subsystems as sets of elements ordered in a certain way using two general approaches: a) the system is defined as a set of objects which has predefined properties with fixed relations among them; b) the system is defined as a set of objects on which a predefined relation is realized among fixed properties. These approaches can be used to isolate two kinds of functional subsystems on any hierarchical level of an organizational system for control of an industrial enterprise -- factoral and procedural. Categories of control problems are considered, and it is shown that the functional structure of such a problem can be defined in terms of the controlling link in a closed feedback loop. A model is described which was used in developing the automated control systems of the West Siberian

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USSR

KOSHARSKIY, B. D. et al., Mekhanizatsiya i Avtomatizatsiya Upravleniya, No 1, Jan/Feb 73, pp 18-26

Metallurgical Plant and the Izyumsk Instrument Making Plant. Practice has shown that the model is sufficiently general for control problems at all hierarchical levels and meets the requirements of engineering practice.

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USSR UDC 51

KOSHARSKIY, B. D., ASHEROV, A. T.

"Models of Functioning of the Automated Enterprise Control System"

V sb. <u>Sistemotekhnika</u> (Systems Engineering--collection of works), Kiev, 1971, pp 97-112 (from <u>RZh-Kibernetika</u>, No 12, Dec 72, Abstract No 12V397)

No abstract

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USSR UDC 51

KOSHARSKIY, B. D., ASHEROV, A. T., TIMOSHENKO, A. N., TIMCHENKO, N. D., MELYUSH-KINA, L. P.

"Problem of Selecting the First Stage of an Automated Enterprise Control System"

V sb. Sistemotekhnika (Systems Engineering--collection of works), Kiev, 1971, pp 113-125 (from RZh-Kibernetika, No 12, Dec 72, Abstract No 12V400)

Translation: The problem of selecting the first stage of automation when introducing an automated enterprise control system is formulated. Possible optimalness and restriction criteria, possible statements of the problem and the statement used in the present paper, the method of solution and the results of experimental research for the Western Siberian Metallurgical Plant are presented.

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USSR

UDC 577.4

KOSHARSKIY, B. D., ASHEROV, A. T.

"Some Problems of Simulating the Dynamic Structures of Regular Automated Technical-Economic Systems by the Methods of Automaton Theory"

V sb. Avtomaty, gibridn. i upravlyayushch. mashiny (Automata, Hybrid and Control Machines -- collection of works), Hoscow, Nauka Press, 1972, pp 113-120 (from RZh-Kibernetika, No 7, Jul 72, Abstract No 7V338)

No abstract

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USSR

UDC: 51

ASHEROV, A. T.

"Information Ranks of Jobs in an Automated System of Enterprise Management"

Mekhaniz. i avtomatiz. upr. Nauch.-proizv. sb. (Mechanization and Automation of Control. Scientific-Production Collection), 1971, No 6, pp 18-20 (from RZh-Kibernetika, No 6, Jum 72, Abstract No 6V470)

Translation: The formal idea of the level and information rank of jobs is introduced. An algorithm is presented for determining the information rank of jobs, together with the results of its practical use. Author's abstract.

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USSR UDC: 51

KOSHARSKIY, B. D., ASHEROV, A. T., SKOROBOGATOV, M. S.

"Prediction of Conflict Problems of Operational Control in Automated Technical-Economic Systems"

V sb. Operativn. upr. proiz-vom (Operational Control of Production-collection of works), Moscow, "Nauka", 1971, pp 51-59 (from RZh-Kibernetika, No 4, Apr 72, Abstract No 4V504)

Translation: Extraformalistic control problems belonging to the category of conflict problems are considered. The causes giving rise to conflict problems are analyzed, as well as questions of determining the random number of conflict problems over a certain period, determining the stability of the established order of operation of the computing center of an automated control system for management, optimum planning, and accounting for conflict problems Authors' abstract.

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Ref. Code: UR 0244

PRIMARY SOURCE:

Voprosy Pitaniya, 1970, Vol 29, Nr 1, pp 23-28

CHARACTERIZATION OF BIOCHEMICAL SHIFTS IN EXPERIMENTAL B₆-HYPOVITAMINOSIS

Karkalitskiy, I. M.; Karkalitskaya, G. V.; Ashikhmina, Ye. M.; Kovrizhnykh, N. D.; Tuzova, G. P.; Plotnikova, G. F.; Berdnikov, M. P.

Tubazid in an amount of 100 mg was administered daily intramuscularly for 7 weeks to nuria cospus to produce pyridoxine deficiency. The earliest sign of B_6 -hypovitaminosis was diminished passage of 4-pyridoxine acid with the urine, whose weekwise fluctuations were of an undulating nature. The blood serum of animals with pyridoxine deficiency showed a fall of α - and β -globulins, a rise of albumins, declined activity of the aspartate-aminotransferase, unchanged activity of the alanine-aminotransferase and an increase of β -lipoproteids in the blood serum and tissues. The animals also developed fatty degeneration of the liver, kidneys and fatty infiltration of aortic walls. Furthermore, they exhibited symptoms of B_6 -hypovitaminosis, such as poor appetite, loss of weight, skin lesions on the tip of the nose, focal affection of the skin around the eyes, bilateral paresis of hind legs, epileptiform seizures and symmetric lamellar desquamation of the skin in hind paws and diminished passage of riboflavin with the urine. All of the listed deviations are corrected following administration of vitamin B_6 to the animals.

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USSR

UDC 546.26:118.07

RYSKULOV, T., BEYSHEKEYEV, ZH., KOZHAKHNETOVA, R., DZHUNDUBAYEV, K., and ASHINBAYEVA, B., Institute of Organic Chemistry, Academy of Sciences Kirgiz.

"Organophosphorus Derivatives of Piperazines"

Frunze, Izvestiya Akademii Nauk Kirgizskoy SSR, No 4, Jul-Aug 73, pp 47-49

Abstract: Reaction of monosubstituted amyl- and benzylpiperazines with phosphonic acid dichlorides and phenylamidophosphoric acid chloride in presence of dry triethylamine yields novel amidophosphonates and amidophosphates. All of the amidophosphonates are crystalline products; the di(1-amylpiperazinyl-4) phenylamidophosphate is an oily product which can be isolated by conversion to a picrate. Another possible synthetic method for amidophosphates is based on the reaction of monoamylpiperazine with dialkyl(aryl)phosphoric acid chlorides in benzene and in presence of dry triethylamine.

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Rubber and Elastomers

USSR

UDC 661.185.1

ASHIMOV. M. A., MURSALOVA, M. A., SADYKH-ZADE, S. I., and AKHMEDOV, G. G., Sumgait Branch INKhT, Acad. Sc., AzerbSSR

"Study of the Utilization of Biodegradable Alkylarylsulfonate INKhP-9 as an Emulsifier During Production of Butadiene-nitrile Rubber"

Baku, Azerbaydzhanskiy Khimicheskiy Zhurnal, No 1 (73), 1971, pp 64-66

Abstract: The copolymerization of butadiene and acrylonitrile was studied as a function of the amount of a new biodegradable emulsifier INKhP-9 used and of the reaction time. INKhP-9 is the sodium salt of a mixture of 75-78% of mono-, 15-18% of the di- and 4-10% of the trialkylaranesulfonic acids obtained by alkylation of benzene with normal- \propto -olefines containing 6-14 carbon atoms in presence of AlCl₃ or H₂SO₄. Increasing the amount of INKhP-9 from 2.2 parts by weight to 3.8 and 4.2 results in 82, 77, and 65% ccpolymerization in 8 hrs respectively. However, the latex obtained with the lowest level of INKhP-9 is not stable. The higher concentrations of INKhP-9 give a sufficiently rapid process and a stable latex product which compares favorably with the commercially produced rubber SKN-26.

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USSR

VDC: 621.382.33

ASHIMOV N M

"Effect of the Distributed Base Resistance on the Input Characteristics of a Transistor With Ribbon Construction"

Moscow, Radiotekhnika, No 2, 1972, pp 84-89

Abstract: The ribbon construction of the transistor under consideration is defined as a geometry in which the emitter and base contacts are in the form of two parallel bands. An explanatory diagram of this type of construction is also given. The effect of the base resistance volume distribution for such a transistor is investigated under the following assumptions: that there is no emitter injection into the passive region of the base nor is there any resistance in the passive region; that the width of the base is uniform throughout its length; that there is no variation in the resistance of the base region nor is there a longitudinal electric field in the base; that the transistor & factor is independent of the emitter current. Hew expressions are obtained for the input characteristic of the transistor with shortcircuited and switched-in collector, and for the base resistance as a function of the current. The author finds that the 1/2

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VDC: 621.382.33

ASHIMOV, N. H., Radiotekhnika, No 2, 1972, pp 84-89

distributed base resistance can practically be regarded as a quasi-junction, introduced into the equivalent circuit of the transistor, whose saturation current is a function of the geometry and resistivity of the base and is much greater than the saturation current of the emitter junction.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200220004-9"

USSR UDC 621.039

ASHIROV, E. G., GUREVICH, L. G., and ZINOV'YEV, N. F.

"Application of a Polynomial Approximation of Fast Neutron Spectra for Analysis of the Results of the Activation of Threshold Detectors"

V sb. Radiats. dozimetriya i spektrometriya ioniziruyushch. izluch. (Radiation Dosimetry and Spectrometry of Ionizing Radiation -- Collection of Works), Tashkent, "Fan," 1970, pp 230-234 (from RZh-Fizika, No 4, Apr 71, Abstract No 4V578)

Translation: The fast neutron spectrum in a vertical channel of the VVR-S reactor was investigated with the aid of a set of six threshold indicators of In¹¹⁵, Ni⁵⁸, Zn⁶⁴, Mg²⁴, and Al²⁷ (n, p and n, a reactions). The polynomial approximation of the spectrum was used: $\Phi(E) = \alpha_1 e^{-3} + \alpha_2 e^{-2} + \dots$ $\alpha_6 e^2$. The dependence of the reaction cross sections on E was also approximated by polynomials. This representation of the spectrum was unsuccessful, since negative values of $\Phi(E)$ were obtained in the region E = 1.5-3 Mev. There were considered 22 combinations of the polynomial representation of the spectrum, the function $\Phi_0(E)$ describing the fission spectrum, and the exponential function $\alpha_0(E) = \exp(E - \sqrt{2E})$. Considerable discrepancies were 1/2

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ASHIROV, E. G., et al, Radiats. dozimetriya i spektronetriya ioniziruyushch. izluch. (Radiation Dosimetry and Spectrometry of Ionizing Radiation -- Collection of Works), Tashkent, "Fan," 1970, pp 230-234 (from RZh-Fizika, No 4, Apr 71, Abstract No 4V578)

obtained in the spectra found from the spectra calculated for the vertical channels of the reactor. The best approximation to the calculated spectrum using the spectrum found was obtained by the use of a simple approximation $\Phi(E) = (\alpha_1/E) + \alpha_2\Phi_0(E)$; this is explained by the similarity of the form of the spectrum in water-water reactors to the fission spectrum.

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Functional Analysis

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UDC 518:517.948

ASROROV, YA., and ASHIROV, O., Turkmen State University imeni A. M. Gor'kiy

"Convergence of Certain Iterative Processes for the Solution of Systems of Operator Equations"

Ashkhabad, Izvestiya Akademii Nauk Turkmenskoy SSR, Seriya Fiziko-Tekhnicheskikh, Khimicheskikh i Geologicheskikh Nauk, No 3, 1971, pp 14-20

Abstract: In the present article, various sufficient conditions for the existence of a solution to systems of operator equations of the following type are found:

x = F(x,y)y = G(x,y)

The operators F(x,y) and G(x,y) are defined over SXS_1 , where S and S_1 are closed spheres from a Banach space. It is established that the solution to the given system of equations is the limit of certain successive approximations, and the speed with which these approximations converge to the solution is determined. When conditions are such that the system can be broken down into two independent operator equations, then from one of the theorems proven in the article one can obtain as a particular case the principle of contractive mappings (for 1/2

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ASROROV, YA., and ASHIROV, O., Izvestiya Akademii Nauk Turkmenskoy SSR, Seriya Fiziko-Tekhnickeskikh, Khimicheskikh i Geologicheskikh Nauk, No 3, 1971, pp 14-20

the first equation) and the principle of majorants (for the second equation). In practical work, a system of operator equations of the following form is often encountered:

x = F(x,y)P(x,y) = 0

It is easy to verify that this sytem may be written in the form of the system indicated above and the results obtained above will apply to it.

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UNCLASSIFIED PROCESSING DATE--020CT70

1/3 028 UNCLASSIFIED PROCESSING DATE--020CT70

TITLE--EFFECT OF THE F2 LAYER ON IONOSPHERIC SCATTERING LINES (U IS LESS
THAN 2,000 KM) IN THE SHORT WAVE FREQUENCY RANGE -U-

AUTHOR--ASHKALIYEV. YA.F.

COUNTRY OF INFO--USSK

SOURCE-IONOSPHERIC SECTION, ACADEMY OF SCIENCES KAZAKH SSR; MUSCOW, GEOMATHETIZM I AERONOMIYA, VOL X, NO 2, 1970, PP 350-351

DATE PUBLISHED----70

SUBJECT AREAS -- ATMOSPHERIC SCIENCES

TOPIC TAGS--F LAYER, IUNOSPHERIC SCATTER, ELECTRON DENSITY, CRITICAL FREQUENCY, D LAYER, E LAYER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/1674

STEP NO--UR/0203/70/010/002/0350/0351

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CIRC ACCESSION NO--APO109662

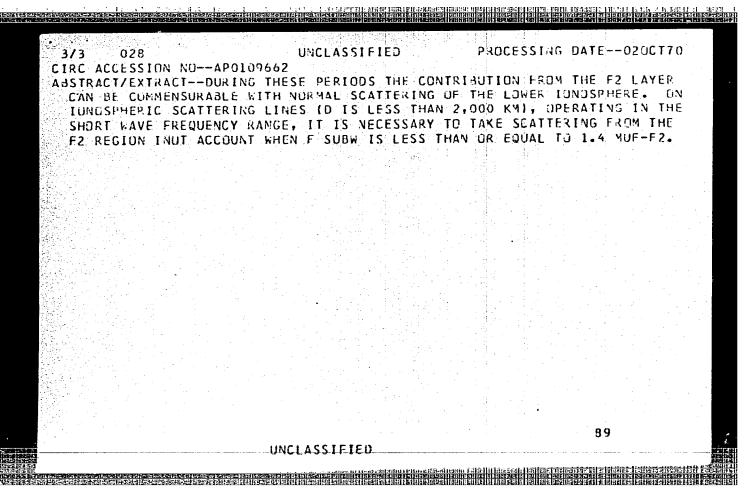
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PROCESSING DATE--020CT70

028 2/3 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. ULTRASHORT WAVELENGTHS ARE NOW USED ON LUNOSPHERIC SCATTERING LINES; IN THIS RANGE F SUB2 GREATER THAN ALPHA F SUBO F. WHERE F SUBW IS THE WORKING FREQUENCY. ALPHA IS THE ANGLE OF INCIDENCE ON THE F2 LAYER. F SUBO F IS THE CRITICAL FREQUENCY THE OBSERVED WEAK BUT CONSTANTLY EXISTING SIGNAL LEVELS ARE INTERPRETED AS SCATTERING ON IRREGULARITIES OF ELECTRON DENSITY IN THE D E REGIONS OF THE IONOSPHERE (H EQUALS 75-90 KM). WITH TRANSITION TO LOWER FREQUENCIES (SHORT WAVES) ABSORPTHION IN THE D LAYER CEASES TO BE NEGLIGIBLE. THERE IS BASIS FOR EXPECTING THAT IRREGULARITIES OF ELECTRON DENSITY IN THE F2 REGION WILL EXERT A DECISIVE EFFECT ON SIGNAL STRENGTH AT THE RECEPTION POINT. IF SHORT WAVES ARE USED ON IONOSPHERIC SCATTERING LINES, DURING CERTAIN TIMES MUF F2 (MAXIMUM FREQUENCY, F2 LAYER) CAN BE COMMENSURABLE WITH THE WORKING FREQUENCY. THEN PART OF THE INCIDENT STRENGTH CAN BE REFLECTED FROM THOSE INHOMOGENEITIES FRO WHICH AT THE PARTICULAR TIME THE ELEMENTARY MUF IS GREATER THAN OR EQUAL TO THE WORKING FREQUENCY. DY THE BASIS OF THREE YEARS OF OBSERVATIONS OF RADIO WAVE PROPAGATION AT FREQUENCIES GREATER THAN MUF FZ IN THE RANGE 9-19.8 MC-SEC, THE AUTHOR FOUND THE EXPERIMENTAL DEPENDENCE OF DECREASE IN SCATTERED POWER ON EXCESS OF THE WORKING FREQUENCY OVER MUF F2. IN THE STUDY A WORKING FREQUENCY OF 16.2 MC-SECWAS USED AND OBSERVATIONS WERE MADE ONLY FROM 2000 TO 1200 HOURS. IT WAS FOUND THAT DURING THE EVENING AND MORNING HOURS THE SCATTERING FROM THO REGIONS (D E AND F2) MUST BE CONSIDERED.

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1/2 036 UNGLASSIFIED PROCESSING DATE--110EC70
TITLE--RAJID WAVE PROPAGATION AT FREQUENCIES ABOVE THE F2 MAXIMUM USABLE
FREGUENCY IN THE SHURT WAVE REGION -UAUTHOR-(02)-ASHKALIYEV, YA.F., BOCHAROV, V.I.

CCUNTRY OF INFC--USSR

SOURCE-MCRPHOLOGY OF THE QUIET AND PERTURBED LONGSPHERE (A70-36084 18-13)
ALMA-ATA IZDATEL'SIVO NAUKA (AKADENITA NAUK KAZAKHSKUI SSR, SEKTOR
DATE PUBLISHED-----70

SUBJECT AREAS -- NAVIGATION, ATMOSPHERIC SCIENCES

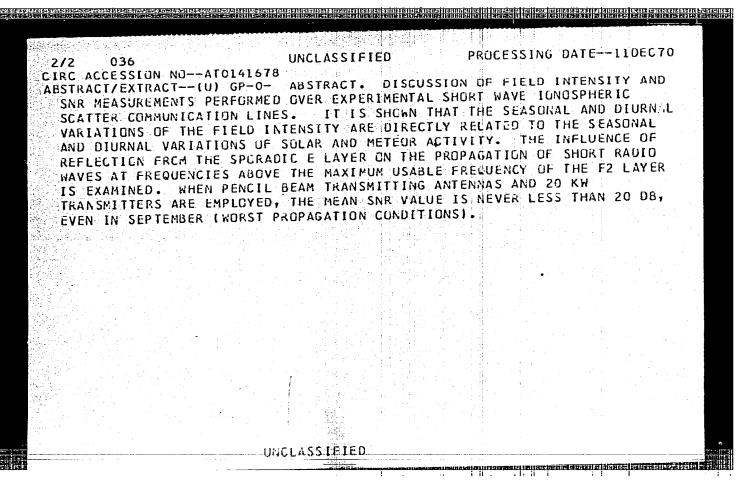
TOPIC TAGS--RADIO WAVE PROPAGATION, F LAYER, E LAYER, DIURNAL VARIATION, IONOSPHERIC SCATTER COMMUNICATION, SEASONAL VARIATION

CENTREL MARKING--NO RESTRICTIONS

CIRC ACCESSION NO--ATO141678

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1/2 035 UNCLASSIFIED PROCESSING DATE--11DEC70
TITLE--UNDITING OF THE RADIO FREQUENCY SPECTRUM IN THE BAND BETWEEN 16 AND
23 MHZ -U-

AUTHUR-(CZ)-ASHKALIYEV, YA.F., BUCHAROV, V.I.

COUNTRY OF INFO--USSR

SCURCE-IN: MORPHOLOGY OF THE QUIET AND PERTURBED LONGSPHERE (A70-36084 18-13) AKAGEMIIA NAUK KAZAKHSKOI SSR, SEKTUR IONOSFERY, TRUDY, VOLUME 1) DATE PUBLISHED----70

SUBJECT AREAS -- NAVIGATION, ATMOSPHERIC SCIENCES

TGPIC TAGS--ICNOSPHERIC SCATTER COMMUNICATION, RADIO COMMUNICATION, F

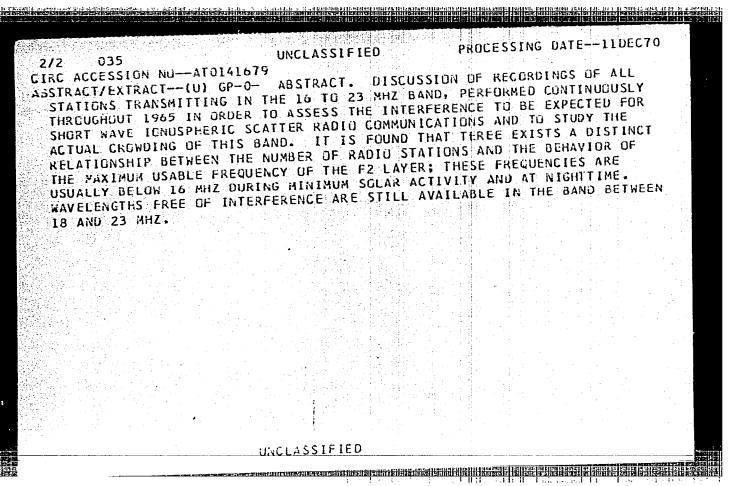
CENTROL MARKING-NO RESTRICTIONS

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CIAC ACCESSION NU--AT0141679

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UDC 621.396.677

ASHKENAZI, D. YA., BRODULENKO, G. I., BELYAYEVA, G. N., KALMYKOVA, T. A.

"Push-In Lightning Arrester with a Capillary"

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronic Engineering. Scientific and Technical Collection. Superhigh Frequency Electronics), 1970, vyp. 6, pp 158-160 (from RZh-Radiotekhnika, No 9, Sep 70, Abstract No 9B79)

Translation: This article contains an investigation of the use of a capillary as one of the elements of a wide-band lightning arrester which is installed in a wave guide filter or resonator. The capillary is coupled to the wave guide via a cylindrical housing in which the capillary is fastened. The design of the discharger permits combination of small losses and small recovery time inherent to a capillary discharger with high mechanical strength and convenience of replacement during operation. There are two illustrations and a one-entry bibliography.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200220004-9"

UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--EXPERIMENTAL PROOF ON THE APPLICABILITY OF A FOURTH DEGREE POLYNOMIAL FOR DESCRIBING THE SURFACE OF EQUALLY CRITIAL PLANE STRESSED AUTHOR-(02)-ASHKENAZI, YE.K., PEKKER, F.P.

COUNTRY OF INFO--USSR

SOURCE--MEKH. POLIM. 1970, 6(2), 284-94

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS-CALCULATION, MECHANICAL STRENGTH, GLASS FIBER, REINFORCED PLASTIC

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1120

STEP NO--UR/0374/70/005/002/0284/0294

CIRC ACCESSION NO--APOL24775

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ARE REQUIRED TO O	BTAIN THE LONG TED	A DIRE SHEAR	MCDULI OF THE	
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UDC: 622.011.43

KULIYEV, A. K., ASKEROV, F. A., IMANOV, A. A.

"Studies of the Mechanical Properties of Rocks by the Method of Punch Identation Under a Lateral Pressure of up to 2.74 · 108 N·m-2"

V sb. Bureniye i razrabotka glubokozalegayushchikh neftegaz. mestorozhd. (Drilling and Working Deep Petroleum and Gas Deposits--collection of works), Baku, "Elm", 1972, pp 64-70 (from RZh-Mekhanika, No 7, Jul 72, Abstract No 7V621)

Translation: The paper deals with destruction of rocks by a boring tool in different stressed states. In a series of experiments cylindrical rock specimens were loaded by pressure on the lateral surface. The end faces were indented by flat punches. It was found that with an increase in lateral pressure up to a certain value for each rock, the values of hardness and yield stress change basically only slightly, while a further increase in lateral pressure leads to an increase in these characteristics. The volume of rock destroyed under the punch increases with lateral pressure considerably faster than the increase in hardness. Bibliography of six titles. A. B. Fadeyev.

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UDC: 538.56:519.25

ASHKENAZY, V. O.

"Some Problems of Statistical Estimation of the Location of Signal Sources in a Dispersing Medium"

Gor'kiy, Izvestiya VUZov: Radiofizika, Vol 15, No 12, 1972, pp 1843-1851

Abstract: The author considers the problem of optimum accounting for the dispersive properties of the propagation medium in statistical estimation of the coordinates of a source of signals which are being received against a background of random interference. Computational relations are found and an analysis is made of the accuracy characteristics of single-point and multipoint spectral dispersion measurement systems.

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Acc. Nr: APO043662

Ref. Code: UR 0056

PRIMARY SOURCE: Zhurnal Eksperimental noy i Teoreticheskoy

Fiziki, 1970, Vol 58, Nr 2, pp 507-514

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COLLECTIVE PROPERTIES OF EXCITONS IN SILICON

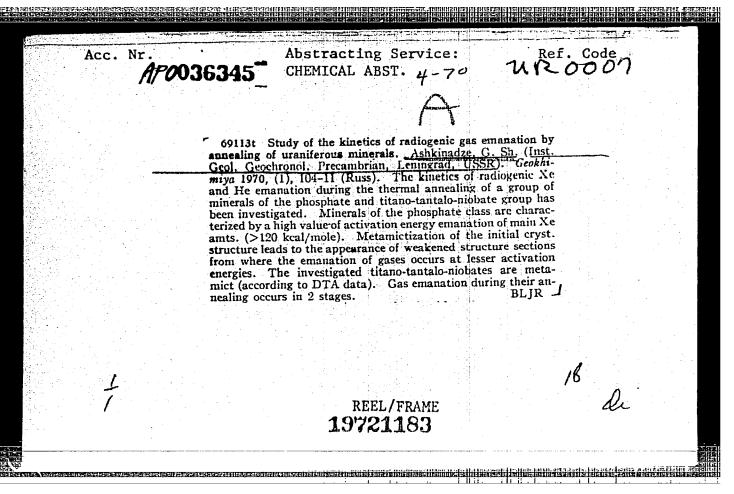
Ashkinadze, B. M.; Kretsu, I. P.; Ryvkin, S. M.; Yaroshetskiy, I. D.

Recombinational radiation for high injection levels is investigated. It is shown that then the exciton density is high their collective interactions become important. At low temperatures (below 20° K) these lead to the formation of exciton «drops». At higher temperatures the formation of exciton associations, which are drop embryos, becomes possible.

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Acc. Nr. <i>APO</i> 03	Abstracting Service: CHEMICAL ABST. 4-70	UROOO7
	69113t Study of the kinetics of radiogenic gas annealing of uraniferous minerals. Ashkinadae minerals of Geochronol. Precambrian, Leningrad, USS min 1970, (1), 104-11 (Russ). The kinetics of and He emanation during the thermal annealing minerals of the phosphate and titano-tantalo-niobe been investigated. Minerals of the phosphate clatterized by a high value of activation energy emanatic amts. (>120 kcal/mole). Metamictization of the structure leads to the appearance of weakened struftom where the emanation of gases occurs at less energies. The investigated titano-tantalo-niobat	Gash, (Inst. SR). Geokhi- radiogenic Xe of a group of ate group has ss are charac- on of main Xe e initial cryst. cture sections ser activation tes are meta-
1	mict (according to DTA data). Gas emanation du nealing occurs in 2 stages.	BLJR J
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UDC 550.89

ASHKINADZE, G. SH., Institute of Precambrian Geology and Geochronology, Academy ST Sciences USSR, Leningrad

"Kinetic Study of Radiogenic Gas Emanation in Thermal Annealing of Uraniferous Minerals"

Moscow, Geokhimiya, No 1, Jan 70, pp 104-111

Abstract: The authors studied the behavior of radiogenic helium and xenon in the thermal annealing of uraniferous phosphates and titanotantalo-niobates. The method of stepwise isochronous annealing was used to study the kinetics of xenon emanation, the "tempering" method to study the kinetics of helium emanation. Possible structural transformations of the studied minerals during their annealing were checked by differential thermal analysis. Uranium analyses were performed by O. A. LEVCHENKOV. It was found that minerals of the phosphate class are characterized by a high activation energy for the emanation of the major part of xenon (> 120 kcal/mole). Metamictization of the initial crystalline structure results in the appearance of weakened structure

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ASHKINADZE, G. SH., Geokhimiya, No 1, Jan 70, pp 104-111

ture sections, from which gas emanation occurs at lower activation energies (66 and 14-26 kcal/mole). The titano-tantalo-niobates studied are metamict (according to DTA data). During their annealing gas emanation takes place in two stages, viz. a low-temperature stage (temperature < 750°C), in which the minerals are in the metamict state and the gas emanation activation energy is > 60 kcal/mole, and a high-temperature stage (temperature > 750°C), in which the metamict state is annealed and the gas emanation activation energy is > 60 kcal/mole.

The author thanks YU. A. SHUKOLYUKOV for his advice and comments.

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1/2 027 UNCLASSIFIED

PROCESSING DATE--18SEP70

TITLE-THE INFLUENCE OF HYPERCOAGULATION ON THE DURATION OF LIFE OF CR

PRIMEST LABELLED ERYTHROCYTES -U-

AUTHOR-1021-ASHKINAZI, I.YA., DRICHKO, V.F.

COUNTRY OF INFO--USSR

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SOURCE--BYULLETEN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 69, NR 3, PP 46-49

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BLOOD COAGULATION, CHROMIUM ISOTOPE, TAGGED ATOM, ERYTHROCYTE,

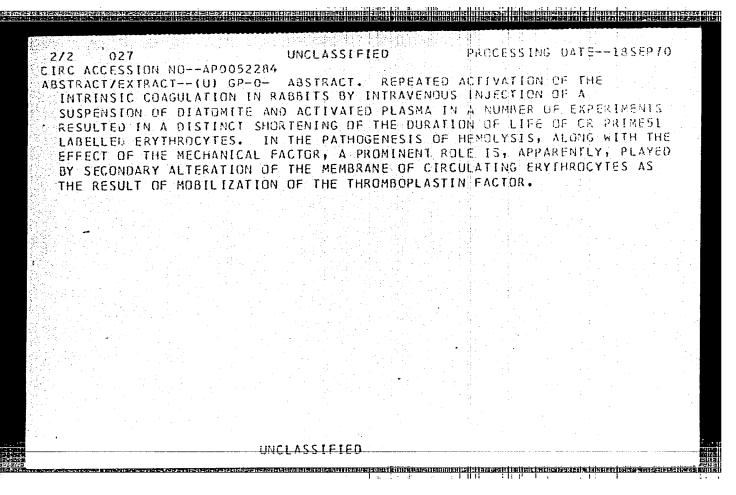
CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1082/0850

STEP NO--UR/0219/70/059/003/0046/0049

CIRC ACCESSION NO--APO052284

UNCLASSIFIED



1/2 017

UNCLASSIFIED

PROCESSING DATE--020CT70

TITLE-THE INFLUENCE OF ACTIVATED HAGEMAN'S FACTOR ON THE BLOOD

COAGULATION SYSTEM IN VIVO -U-

AUTHOR-(02)-ASHKINAZI, I.YA., KLEMINA, I.K.

COUNTRY OF INFO--USSR

SOURCE-BYULLETIN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 69, NR 4, PP 32-36

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC FAGS--BLOOD COAGULATION, RABBIT, BLOOD PLASMA, PROTHROMBIN, FIBRINCLYSIS

CONTROL "ARKI'MS--NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1594

STEP NO--UR/0219/70/059/004/0032/0035

CIRC ACCESSION NO--APO106340

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UNCLASSIFIED PROCESSING DATE--020CT70 CIRC ACCESSION NO--APO106340 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN EXPERIMENTS STAGED ON RABBITS THE AUTHORS UNDERTOOK IN VIVO STUDIES OF THE BLOOD COAGULATION SYSTEM IN DIATOMITE ACTIVATION OF HAGEMAN'S FACTOR, AS WELL AS IN THE ADMINISTRATION OF ACTIVATED PLASMA. UNDER THE INFLUENCE OF THE REFERRED TO EFFECTS THERE WERE OBSERVED A MARKED ACCELERATION OF COAGULATION OF "SILICONE" BLOOD (PLASMA), A SHORTENING OF RAND K INTERVALS OF THE THROMBUELASTOGRAM OF RECALCIFIED PLASMA WITH INCREASE OF THE ALPHA ANGLE, INTENSIFICATION OF PROTHROMBIN UTILIZATION. HYPERCOAGULATION WAS MORE REGULAR IN DIATOMITE ADMINISTRATION AND WAS ATTENDED IN A NUMBER OF EXPERIMENTS BY THE DEVELOPMENT OF A MODERATELY MARKED COAGULOPATHIA OF UTILIZATION (REDUCTION OF THE BLOOD CONTENT OF I, V, VIII FACTORS). NOTWITHSTANDING THE APPEARANCE IN THE CIRCULATION OF ACTIVATED HAGEMAN'S FACTOR, NO REGULAR INTENSIFICATION OF FIBRINOLYSIS WAS OBSERVED, THIS TESTIFYING TO RE EVALUATION OF THE ROLE OF THIS FACTOR IN THE MECHANISM OF FIBRINOLYSIS INTENSIFICATION IN VIVO.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200220004-9"

USSR

UDC: 543.42-547.241

EPSHTEYN, L.M., NOVIKOVA, Z.S., ASHKINADZE, L.D., RUBASHEVA, L.M., KAZITSYNA, L.A., Institute of Organo Elemental Compounds, Moscow, Academy of Sciences USSR

"Spectral Investigation of the Electron-Donor Capacity of Triethyl Phosphite as a Method of Evaluating the Purity of Phosphites"

Moscow, Izvestiya Akademii Nauk SSSR: Seriya Khimicheskaya, No 3, Mar 70, pp 689-690

Abstract: When ethanol forms a hydrogen bond with triethylphosphite, the absorption bend for the H-complex (3560 cm⁻¹) has a secondary peak at about 3480 cm⁻¹. It was found that the assymetry of the absorption band is due to a slight admixture of triethylphosphate. The amount of impurity was determined by studying the ternary triethylphosphite-triethyl-phosphate-ethanol system. The spectral method used for quantitative determination can detect a phosphate impurity of the order of 0.005 M/1 in the H-complex. A study of the electron-donor capacity of triethyl-phosphite and its carbon analog orthoformic ether as compared with H-acids showed that the integral intensity of the band of the H-complex of ethanol with triethyl-phosphite is less than with orthoformic ether. The frequency shifts as compared with von of free ethanol are 82 and 87 cm⁻¹ respectively. A similar pattern is observed when a stronger proton donor -- trifluoroethanol -- is used. The reasons for the reduction in the proton acceptor properties of triethylphoephite as compared with its carbon analog are now being investigated.

UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--SPECTRAL STUDY OF THE ELECTRON DONUR CAPACITY OF TRIETHYL PHOSPHITE
AS A METHOD FOR EVALUATING THE PURITY OF PHOSPHITES -UAUTHOR-(05)-EPSHTEYN, L.M., NOVIKOVA, Z.S., ASHKINADZE, L.D., RUBASHEVA,

COUNTRY OF INFO--USSR

SOURCE-- IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (3), 689-90

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ELECTRON DONOR, ALKYL PHOSPHITE, CHEMICAL PURITY, HYDROGEN BONDING, COMPLEX COMPOUND, ABSORPTION BAND SPECTRUM, ETHANOL, FLUORINATED ORGANIC COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/0082

STEP NO--UR/0062/70/000/003/0689/0690

CIRC ACCESSION NO--APO125916

UNCLASSIFIED

2/2 031 UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--AP0125916 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. SINCE THE EGRMATION OF H BOND BETWEEN ETOH AND POUET) SUBBRESULTS IN A H COMPLEX WHICH GIVES AN ABSORPTION BAND AT 3560 CM PRIME NEGATIVEL WITH A SHOULDER AT 3480 CM PRIME NEGATIVEL (E., ET AL., 1969) THE APPEARANCE OF THE LATTER HAD BEEN SUGGESTED TO BE THE RESULT OF 2 TYPES OF SUCH COMPLEXES. HOWEVER SUCH A SHOULDER MAY BE CAUSED BY A SMALL ADMIXT. OF ET SUB3 PO SUB4 WHICH CANNOT BE DETECTED BY THE SPECTRAL METHOD DIRECTLY. CAREFULLY PURIFIED P(DET) SUB3 AND ETOH GAVE AN IR SPECTRUM IN WHICH THE HO BAND WAS SYMMETRIC, BUT A BRIEF CONTACT WITH AIR RESULTED IN SHOULDER FORMATION AT 3460 CM PRIME NEGATIVEL AT THE FREQUENCY AT WHICH THE COMPLEX OF ETOH AND ET SUB3 PO SUB4 HAS A BAND. TO EVALUATE THE SENSITIVITY OF THIS BAND THE SUITABLE CALIBRATION RUNS WERE MADE AND ET SUB3 PO SUB4 AT 0.07 MOLES-L. RESULTS IN THE SHOULDER OF THE BAND AT 1280 CM PRIME NEGATIVE1 WHILE AT G.01-0.02 MOLES-L. THIS CAN NO LONGER BE OBSERVED, BUT THE ASYMMETRY OF THE 3460 CM PRIME NEGATIVEL BAND IS STILL CLEARLY VISIBLE. CF SUB3 CH SUB2 OH IN PLACE OF ETOH ALLOWED SPECTROSCOPIC DETECTION OF ET SUB3 PO SUB4 EVEN AT 0.005 MULES-L. THE INTEGRAL INTENSITY OF THE BAND OF THE COMPLEX OF ETOH WITH PLOET! SUB3 (3 TIMES 10 PRIME4 L. M. PRIME NEGATIVEL CM PRIME NEGATIVEL) WAS SMALLER THAN THAT OF ETCH WITH HC(GET) SUB3 (3.5 TIMES 10 PRIME4); CF SUB3 CH SUB2 OH GAVE SIMILAR RESULTS. THUS PIDET) SUB3 IS LESSEFFECTIVE ELECTRON DONOR IN RESPECT TO ALCS THAN IS HOJOET) SUB3. FACILITY: INST. ELEMENTOORG. SOEDIN, MOSCOW, USSR.

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UDC 539.4:624

SHAPIRO, G. A., SIMON, Yu. A., ASHKINADZE, N. G., GORLOVA, E. S., PARUSHKIN, A. K.

"Experimental Study of Earthquake Resistance of Residential Buildings of Sawn Limestone on Southern Shore of Crimean Using Vibration Machines"

Proyektir. i Str-vo Zdaniy v Seysmich. R-nakh. USSR i MoldSSR [Planning and Construction of Buildings in Earthquake Regions of UkSSR and MoldSSR -- Collection of Works], Kishinev, Timpul Press, 1972, pp 117-131, (Translated from Referativnyy Zhurnal, Mekhanika, No 11, 1972, Abstract No 11 V911).

Translation: Vibration tests and certain additional studies have shown that large-block construction of large (two-row) sections can cope successfully with dynamic loads, which, in combination with reinforced concrete walls in stairwells, assures earthquake resistance of the buildings tested with a double reserve for level eight loadings.

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ASHKINUZE, V. G. and KATSEVA, V. P.

"Heuristic Methods in Computer Modeling of the Process of Proof of Geometric Theorems"

Vopr. Algoritmiz. i Programmir. Obuch. [Problems of Algorithmization and Programming of Learning -- Collection of Works], No 2, Moscow, Pedagogika Press, 1973, pp 111-117 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No 9V803).

Translation: Problems of the expansion of heuristic aspects of programs modeling the search for proof of theorems from elementary geometry on computers are discussed. Heuristic methods are divided into syntactical and semantic on the basis of the nature of the information used in the solution of the problem. Heuristic methods based on information related only to the formal system itself are called syntactic methods; heuristic methods based on information relating also to the model of the system (or to the model alone) are called semantic methods. Heuristic limiting methods (excluding certain search areas from analysis as unpromising) and guiding methods (indicating the directions in which search should first be performed) are also distinguished.

V. Mikheyev

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UDC: 681.3.06:51

ASHKINUZE, V. G., POTAPOV, B. I.

"The 'Nyanya' and 'Kontrol' Debugging Programs"

Tr. 3-y Zimney shkoly po mat. programmir. i smezhnym vopr., 1970. Vyp. 1 (Works of the Third Winter School on Mathematical Programming and Related Problems, 1970, No 1), Moscow, 1970, pp 70-92 (from RZh-Kibernetika, No 7, Jul 71, Abstract No 7V745)

Translation: A detailed description is given of the NYallya and KONTROL' debugging programs. The purpose of these programs is to give the programmer detailed information on the operation of his program or separate fragments of that program. The proposed programs are accommodated in cells from 1000 to 1777 of the first array of the core store, and are designed for operational debugging. Upon completion of debugging, the conclusive information is printed out. Provision is made for self protection of the debugging programs from impairment by the main program. NYaNYa twists the debugged program or its individual sections and prints out information concerning commands of interest to the programmer on these

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ASHKINUZE, V. G., POTAPOV, B. I., Tr. 3-y Zimney shkoly po mat. programmir. i smezhnym vopr., 1970. Vyp. 1, Moscow, 1970, pp 70-92

sections. The rate of twist without printout is 160 commands per second. The rate of printout is ≈2 commands per second. Its information structure ensures maximum selectivity of the output information. There is an abbreviated version of NYaNYa-2 which operates with information preset from the panel. At certain points of the program being debugged, KON-TROL compares the results obtained by this program with predetermined standards, and after detecting an error, organizes twisting of this section (by means of NYaNYa). I. Shelikhova.

- 71 -

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UNCLASSIFIED

PROCESSING DATE--090CT70

TITLE--EFFECT OF STORAGE TIME, TYPE OF FILLERS, AND PACKAGING ON THE STABILITY OF THE PREPARATION BIOVIT -U-

AUTHOR--ASHKINUZI, Z.K.

COUNTRY OF INFO-USSR

SOURCE-FERMENT. SRT. PROM. 1970, 36(1), 17-19

DATE PUBLISHED 70

SUBJECT AREAS-AGRICULTURE, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-TETRACYCLINE, CEREAL CROP, COBALT COMPOUND, CALCIUM COMPOUND, VITAMIN B COMPLEX, ANIMAL HUSBANDRY, FOOD STURAGE, CHEMICAL STABILITY

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/1709

STEP NO-UR/0071/70/036/001/0017/0019

CIRC ACCESSION NO--APO103475

UNCLASSIFIED

2/2 020 UNCLASSIFIED PROCESSING DATE-090CT70 CIRC ACCESSION NO--APO103475. ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. BIOVIT IS FEED GRADE BIOMYCIN (CHLORTETRACYCLINE) (I). MIXTS. WERE PREPD. WITH WHEAT AND CORN FLOURS, COCL SUB2, CA(DAC) SUB2, AND BENZYE THIOCYANATE WITH 10-80 G I-KG MIXT. THE EFFECT OF PACKAGING WAS INVESTIGATED. BECAUSE OF THE MANNER OF PREPNE I IS ALWAYS ACCOMPANIED BY VITAMIN B SUBIZE DURING 30 MONTHS OF STORAGE THE AMT. OF I CHANGES INSIGNIFICANTLY, SMALLER THAN SPERCENT, IRRESP. OF THE FILLERS AND WRAPPERS USED. BUT THE AMT. OF VITAMIN B SUB12 DROPS BY 30-TOPERCENT. I STORED LARGER THAN 6 MONTHS SHOULD CONTAIN ADDED VITAMIN 8 SUB12, IF IT IS INTENDED TO BE THE MAIN SOURCE OF THIS VITAMIN FOR THE ANIMALS. **UNCLASSIFIED** ist dags and the state of the s

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ASHKINYZE, V. G. and KATSEVA, V. P.

"Computer Modeling of the Process of Proof of Geometric Theorems"

Vopr. Algoritmiz. i Programmir. Obuch. [Problems of Algorithmization and Programming of Learning -- Collection of Works], No 2, Moscow, Pedagogika Press, 1973, pp 89-110 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No 9V802).

Translation: An algorithm and program for the BESM-4 computer are described, modeling the process of solution of geometric problems requiring proof. The given class of problems is formally described as follows. It is assumed that a certain finite set M is given (as a universal set — the universum). It is also assumed that certain subsets $A\subseteq M$ are set in correspondence with certain elements; one subset may correspond to various elements. The problem is the pair (D, X), where $D\subseteq M$ is a subset, the elements of which are called given elements of the problem, while $X\subseteq M$ is called the desired element. The program described is designed to prove theorems relating to a certain fragment of elementary geometry; this fragment includes the theory of equality of types of statements used in the proof of theorems from this section of

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Ashkinyze, V. G., and Katseva, V. P., Vopr. Algoritmiz. i Programmir. Obuch., No 2, Moscow, Pedagogika Press, 1973, pp 89-110.

geometry. A continous listing of all formally possible versions to achieve each goal is practically impossible, even in simple geometric problems. In order to reduce the list, a drawing is used -- a coordinate model of the problem. However, even when the drawing is used heuristically, the volume of the list which must be run through for selection of a goal is too great in complex problems: it is never known when the listing can be interrupted and an attempt judged unsuccessful. The program described allows the depth of the runthrough to be externally limited (assignment of maximum resolved level in the tree of the problem). It is noted that the program of proof of the geometric theorems allows quantitative estimation of the relationship between elements of logic and clarity in elementary geometry proofs: of all conditions of the "axioms" of this program, some 40% are statements based solely on references to the drawing.

Y. Mikheyev

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Electromagnetic Wave Propagation

USSR

UDC: 621.396.677

ASHKONAZI, D. Ya., BELYAYEV, V. P., BRODULENKO, G. I., DOBANOV, N. P.,

"Starting Losses in SHF Dischargers"

Elektron, tekhnika, Nauchno-tekhn, sb. Elektron, SVCh (Electronic Technology. Scientific and Technical Collection. SHF Electronics), 1970, vyp. 9, pp 123-124 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12B98)

Translation: An experimental study was made of the power dissipated in the discharge as a function of the transmitter pulse duration for an electrodeless discharger with double dielectric walls. Measurements were taken on two different wavelengths in the decimeter band; the dischargers had a different height in each of these cases. The dissipated power was measured with an air calorimeter. The results show a high proportion of starting losses (up to half the dissipated power). This means that the process of growing electron concentration in the discharge continues considerably longer than the process of growing current determined by the wave impedance of the waveguide channel. Three illustrations, bibliography of two titles.

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USSR

UDC: 666.638.678.027.5

SOKOLOVA, M. A., MERKUSHEV, O. M., NEYMAN, M. I., ASHKRUMOVA, A. Yu. SVERDLOVA, A. N.

"A Ceramic Suspension for Making Thin-Film Capacitors"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 16, Jun 71, Author's Certificate No 303663, Division H, filed 31 Jan 69, published 13 May 71, p 187

Translation: This Author's Certificate introduces a ceramic suspension for making thin-film capacitors which is based on an organic solvent. As a distinguishing feature of the patent, a dielectric coating with a dense structure is produced by taking the initial components in the following quantitative ratios (in parts by weight): ceramic material—10-20, acetone—30-60, ammonium acetate—0.1-0.5, and the remainder amylacetate—up to 100 parts by weight of the total.

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ASHMAN, A. Ye., KRUPSKIY, A. A.

"Characteristic Properties of Magnetic Memory Elements as Functions of their Structure"

Moscow, Magnitnyye Elementy Pamyati, 1972, pp 10-19.

Abstract: The characteristic properties of magnetic memory elements were studied as functions of their structure, as applicable to the problem of storage and readout of information. Among these properties are the method of storage of information (magnetic parameter used to differentiate 1 and 0 states, as well as the range of permissible changes of the magnetic state of an information magnetic circuit), nature of difference of 1 and 0 signals, nature of reading. The structure also influences the quantitative parameters of the elements. The study was performed using elements with minimal structure, divided into three classes: those with modulation of the information flux, with controlling information flux, and with flux switching. The flux-switching elements are described most completely. It is demonstrated that the characteristic properties and parameters depend on the type of relationship between functionally separate magnetic circuits in the core of the element. For example,

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Ashman, A. Ye., Krupskiy, A. A., Moscow, Magnitnyye Elementy Pamyati, 1972, pp 10-19.

the possibility of producing 1 and 0 output signals of different polarity is determined by the relationship between the interrogation and working magnetic circuits, the possibility of nondestructive readout -- by the relationship between the interrogation and information magnetic circuits. The relationship between the information and working magnetic circuits determines the noise level of the element. A table is presented in which these properties are systematized according to the structural classification of elements.

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UDC 681.327

ASHMAN, A. Ye.

"Memory Cells"

USSR Author's Certificate No 271581, filed 29 Jul 68, published 28 Aug 70 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 6, Jun 71, Abstract No 6 B281 P)

Translation: A well-known memory cell containing a magnetic circuit with three parallel branches is introduced. The two extreme branches have two modulation outlets. The cell is critical with respect to scattering of the geometric dimensions and magnetic characteristics of the magnetic circuit, and it requires high control currents. The proposed memory cell is distinguished by the fact that the middle branch of the magnetic circuit has a pair of modulation holes; the write winding encompasses one branch, the output winding, and another branch; and the interrogation winding passes through all three pairs of modulation holes. The forbid winding, which is part of the interrogation winding, passes through the modulation holes of the two branches encompassed by the write winding and the output winding. There are 3 illustrations.

USSR

VDC 519.4

ASHMANOV, S. A., BRONSHTEYN, M. A.

"Simple Polyverbal Operations"

Moscow, <u>Izvestiya AN SSSR</u>, Ser. Matematicheskaya, Vol 35, No 6, Nov/Dec 71, pp 1409-1428

Abstract: The paper is devoted to construction and investigation of a new series of neutral polyverbal Maltzevian operations on groups -- so-called simple operations, including all those which satisfy Maltzev's postulate. The authors define the new series in such a way as to cover all known polyverbal Maltzevian operations. The properties of simple operations are defined, and it is shown that the set of all neutral polyverbal Maltzevian operations has the power of the continuum. It is also proved that all different Maltzevian operations (not necessarily polyverbal) form a set. A continuum of polyverbal Maltzevian operations which are not simple is constructed. The authors thank O. N. Golovin for interest in the work. Bibliography of 15 titles.

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UDC: 621.378.385

ASHMARIN, I. I., BYKOVSKIY, Yu. A., DEGTYARENKO, N. N., YELESIN, V. F., LARKIN, A. I., SIPAYLO, I. P., Moscow Physical Engineering Institute

"Pulse Holography Study of Gas Breakdown in Front of a Laser Beam"

Leningrad, Zhurnal Tekhnicheskoy Fiziki, Vol 41, No 11, Nov 71, pp 2369-2377

Abstract: The paper is devoted to a study of phenomena which take place in air and in helium at different pressures when the output from a ruby laser is focused on lead, copper, and aluminum targets. The method of pulse holography is used for these purposes. The efficacy of the holographic method for studying these phenomena is demonstrated. It is observed that the axis of symmetry of the beam at atmospheric pressure deviates from the normal to the target in the case of oblique incidence of the laser beam. This effect can be attributed

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ASHMARIN, I. I. et al., Zhurnal Tekhnicheskoy Fiziki, No 11, Nov 71, pp 2369-2377

to localized absorption of the energy of laser emission on the boundary of the beam. It is found that the effect of the laser beam on the probability of gas breakdown in front of the target can be attributed to the ionizing action of ultraviolet radiation. An investigation of the way that the magnitude of the effect depends on the target material and the composition of the ambient gas confirms this hypothesis. The authors thank D. M. Samoylovich and R. V. Ryabov for furnishing the photographic materials and for constructive criticism. Nine figures, one table, bibliography of 14 titles.

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UDC 577.12:576.12:155.3

ASHMARIN, I. P., Leningrad University

"Neurological Memory as a Possible Evolutionary Product of Other Forms of Biological Memory"

Leningrad, Zhurnal Evolyutsionnoy Biokhimii i Fiziologii, No 3, May/Jun 73, pp 217-224

Abstract: The author advances a theory whereby the bearer of genetic memory is a single cell, regardless of the complexity of the organism. In a multicellular organism, numerous lymphoid cells related by common origin and function store immunological memory. Assemblies of neurons stably joined to one another are bearers of neurological memory. Immunological memory, though qualitatively different from the genetic memory, includes the mechanisms of the latter. Neurological memory is much more complex than immunological memory and apparently includes certain of its mechanisms. In support of this theory, the author posits the existence in brain tissue of an isolated system capable of elaborating antibodies to synaptic membrane antigens. When the synapses are functioning, these antigens are produced in excess and they escape from the neuron, causing antibody formation and closure 1/2

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ASHMARIN, I. P., Zhurnal Evolyutsionnoy Biokhimii i Fiziologii, No 3, May/Jun 73, pp 217-224

of the corresponding synapses. The phenomenon of transfer of habits by brain extracts is regarded as the consequence of transfer of excess antigens from functioning synapses or as the transfer of compounds that are precursors of these antigens.

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UDS 615.779.9

ASHMARIN, I. P., ZHDAN-PUSHKINA, S. M., KOKRYAKOV, V. I., SAMEDOV, A., Sh., and ANTONOVA, S. N., Leningrad State University

"Antibacterial and Antiviral Functions of Basic Cellular Proteins and Prospects for Their Practical Use"

Leningrad, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 4, 1972, pp 502-508

Abstract: After noting the functions of basic proteins in chromatin, ribosomes, lysosomes, etc., the authors review the literature and their own research on the role of these proteins in the mechanism of protection against infection and on their antibiotic activity in vitro and in vivo. Results of studies on the tolerance of animals for the basic proteins following a single or prolonged parenteral administration of various histone fractions are summarized. The use of histones combined with antibacterial and antiviral agents with limited ability to penetrate certain cellular and tissue membranes is regarded as a promising clinical approach. Positive results have been obtained in treating tuberculosis in guinea pigs and mice with isoniazid and histones. The effective doses of isoniazid could be reduced five-fold when combined with certain histone fractions. Histone fractions were also efficacious in the treatment of herpetic left.

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UDC 615.779.9

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ASHMARIN, I. P., ZHDAN-PUSHKINA, S. M., KOKRYAKOV, V. I., SAMEDOV, A., Sh., and ANTONOVA, S. N., Leningrad State University

"Antibacterial and Antiviral Functions of Basic Cellular Proteins and Prospects for Their Practical Use"

Leningrad, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 4, 1972, pp 502-508

Abstract: After noting the functions of basic proteins in chromatin, ribosomes, lysosomes, etc., the authors review the literature and their own research on the role of these proteins in the mechanism of protection against infection and on their antibiotic activity in vitro and in vivo. Results of studies on the tolerance of animals for the basic proteins following a single or prolonged parenteral administration of various histone fractions are summarized. The use of histones combined with antibacterial and antiviral agents with limited ability to penetrate certain cellular and tissue membranes is regarded as a promising clinical approach. Positive results have been obtained in treating tuber-culosis in guinea pigs and mice with isoniazid and histones. The effective doses of isoniazid could be reduced five-fold when combined with certain histone fractions. Histone fractions were also efficacious in the treatment of herpetic keratitis.

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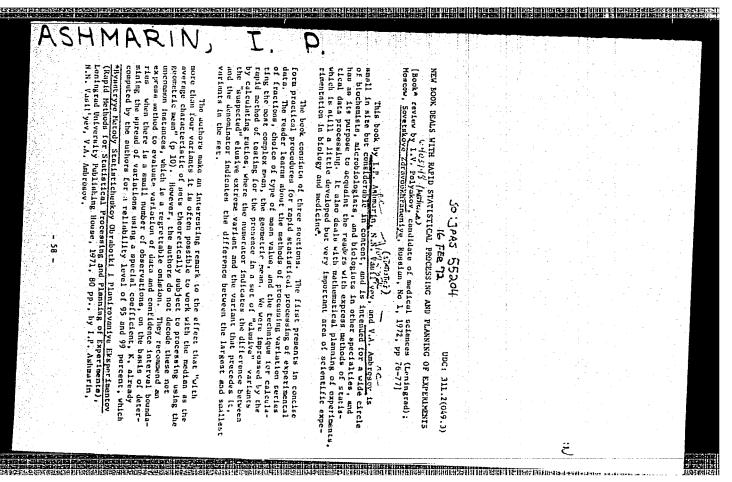
MATYUSHICHEV, V. B., and ASHMARIN, I. P., Leningrad State University

"Concentration and Storage of Preparations of 026 Coliphage"

Moscow, Voprosy Virusologii, No 5, 1971, p 623

Abstract: The effectiveness of some chemical methods of precipitating bacteriophages by concentrating lysates of 026 coliphage were compared. The maximum effect was achieved by precipitating virus with 2.0 to 2.3 M ammonium sulfate. A centimolar solution of magnesium sulfate in an 0.9% NaCl solution is recommended as a protein-free stabilizing diluent for resuspending phage precipitates.

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UNCLASSIFIED PROCESSING DATE--020CT70

TITLE--EFFECT OF HISTONES AND ACTINOMYCIN D ON RNA SYNTHESIS IN BRAIN -U-

AUTHOR-(02)-ASHMARIN, I.P., AVENIROVA, YE.L.

COUNTRY OF INFO--USSR

SOURCE--VOPROSY MEDITSINSKOY KHIMII, 1970, VOL 16, NR 2, PP 137-139

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-BRAIN, RNA, BIOSYNTHESIS, ANTIBIOTIC, PROTEIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0829

STEP NO--UR/0301/70/016/002/0137/0139

GIRC ACCESSION NO--APO102791

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200220004-9"

CIRC ACCESSION NO—APOLOZ791
ADSTRACT/EXTRACT—(U) GP-0- ABSTRACT. INTRACEREBRAL ADMINISTRATION OF ACTINGMYCIN D INTO MICE INHIBITS URIDINE AND ORDTIC ACID INCORPORATION INTO RNA BY 62-79PERCENT I H AFTER INJECTION OF ORUG. AS DISTINCT FROM ACTINGMYCIN D F SUB1 FRACTION OF THYMUS HISTONES DOES NOT INHIBIT RNA BIOSYNTHESIS IN BRAIN. THE LACK IN INHIBITORY ACTION OF HISTONES ON RNA SYNTHESIS MAKES IT POSSIBLE THAT THE SITE OF HISTONES ACTION IN BRAIN TISSUE CELLS IS NOT THE CHROMATINE BUT OTHER STRUCTURES POSSIBLY THE MEMBRANES.

UNCLASSIFIED

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UNCLASSIFIED PROCESSING

PROCESSING DATE--20NOV70

TITLE--POSSIBLE RECONSTRUCTION OF CHROMATIN AFTER DISSOCIATION IN SALT

SCLUTIONS -U-

AUTHOR-(02)-ASHMARIN, I.P., FEDOROVA, N.A.

CCUNTRY OF INFC-USSR

SOURCE-TSITCLOGIYA 1970, 12(3), 336-42

DATE PUBLISHED----70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TCPIC TAGS-CHROMATIN, RAT, LIVER, DNA, DIALYSIS, PROTEIN

CENTROL MARKING-NO RESTRICTIONS

DCCUMENT CLASS--UNCLASSIFIED

PROXY REEL/FRAME--3002/0426

STEP NO--UR/9053/70/012/003/0338/0342

CIRC ACCESSION NO--APO127997

UNCLASSIFIED

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CIRC ACCESSION NO--APO127997

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. FRACTIONS OF BOTH NATIVE AND RECONSTRUCTED CHROMATIN ISOLATED FROM RAT LIVER AFTER ULTRASONIC TREATMENT WERE FRACTIONATED GN A SEPHADEX G-200 COLUMN. PROTEIN OISSOCN. FREM NATIVE CHRUPATIN OCCURRED IN 2.5M NACL. PROTEIN RECOMBINATION WITH DNA WAS ACCOMPLISHED BY MEANS OF STEPMISE DIALYSIS. BOTH PHOSPHOPPOTEIN CONTENT AND OPTICAL ABSORPTION AT 230 AND 260 MMU WERE THE SAME IN FRACTIGN OF NATIVE AND RECONSTRUCTED CHROMATIN. FACILITY: DEP. BIOCHEM., LENINGRAD UNIV., LENINGRAD, USSR.

UNCLASSIFIED PROCESSING DATE--300CT70
TITLE-ANALYSIS OF TUMOR TRANSFORMATION OF TISSUES. II. BIOCHEMICAL
DEDIFFERENTIATION OF TISSUE DURING CARCINOGENESIS, CHANGES OF CREATINE
AUTHOR-(05)-SALYAMON, L.S., ASHHARIN, I.P., OSTRETSOVA, I.B., LYZLOVA,
S.N., PLUZHNIKOVA, G.F.
COUNTRY OF INFO--USSR

SOURCE-TSITOLOGIYA 1970, 12(1), 102-10

DATE PUBLISHED 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-TUMOR, TISSUE PHYSIOLOGY, CELL PHYSIOLOGY, ENZYME ACTIVITY, CARCINOGEN, CARBON TETRACHLORIDE, LEAD COMPOUND, BENZENE DERIVATIVE

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—3001/2107

STEP NO--UR/9053/70/012/001/0102/0110

CIRC ACCESSION NO--APO127480

UNCLASSIFIED

医中腺结果医中毒性中毒炎 医原生手术

PROCESSING DATE--300CT70 UNCLASSIFIED 015 2/2 CIRC ACCESSION NO--APO127480 ABSTRACT/EXTRACT-(U) GP-O- ABSTRACT. CREATINE KINASE (I) AND ALK. PHOSPHATASE (II) ACTIVITY WAS STUDIED IN TRANSPLANTABLE TUMORS (HEPATOMA 22A IN C SUB3 HA MICE. HEPATOHA 27 AND KIDNEY TUMOR AB-12 IN RATS) AND TISSUES OF MICE AND RATS ADMINISTERED CARCINOGENIC COMPDS. (CCL SUB4) PB(OAC) SUB2, URETHANE AND 3,4, BEZNO (ALPHA) PYRENE). I ACTIVITY WAS INCREASED 3 FOLD IN HEPATOMA 27 AND 5-10 FOLD IN HEPATOMA 22A. IT INCREASED ALSO UP TO 2 FOLD DURING THE HEPATOCARCINOGENESIS IN MICE AFTER CCL SUB4 ADMINISTRATION. AFTER THE ADMINISTRATION OF 3.4.BENZG(ALPHA)PYRENE, I ACTIVITY IN SKELETAL MUSCLES DECREASED TO 56PERCENT OF THE NORMAL VALUE WITHIN 26 DAYS AND A SIMILAR DECREASE WAS FOUND IN KIDNEYS OF RATS ADMINISTERED PB ACETATE. HOWEVER, I ACTIVITY IN THE LIVER WAS INCREASED. II ACTIVITY IN THE LIVER OF MICE ADMINISTERED CCL SUB4 INCREASED UP TO 3 FOLD DURING THE 1ST FEW DAYS THEN RETURNED TO NORMAL VALUES. PB ACETATE CAUSED A DECREASE IN II ACTIVITY IN THE KIDNEY AND KIDENY TUMORS. AFTER THE ADMINISTRATION OF URETHANE. II ACTIVITY IN THE LIVER INCREASED. IT WAS CONCLUDED THAT CHEM. CARCINOGENESIS IS ACCOMPANIED BY REPRESSIONS AND DEREPRESSIONS OF GENES REGULATING THE SYTHESIS OF ENZYMES IN CERTAIN TISSUES. FACILITY: LAB. PATHOL. PHYSIOL. TUMOR GROWTH, INST. UNCOL., LENINGRAD, USSR.

UNCLASSIFIED

1/2 020 UNCLASSIFIED PROCESSING DATE-20NOV70
TITLE-USE OF TRANQUILIZERS IN DERMATOLOGICAL PRACTICE -U-

AUTHOR-103)-ASHMARIN, YU.YA., SHATOVA, L.I., RYBAK, E.L.

CCUNTRY OF INFC--USSR

SOURCE-VESTNIK DERMATULOGII I VENEROLOGII, 1970, NR 6, PP 6-12

DATE PUBLISHED----70

SUBJECT AREAS-BIGLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-DERMATOLOGY, TRANQUILIZER, NEUROSIS

CONTROL MARKING--NO RESTRICTIONS

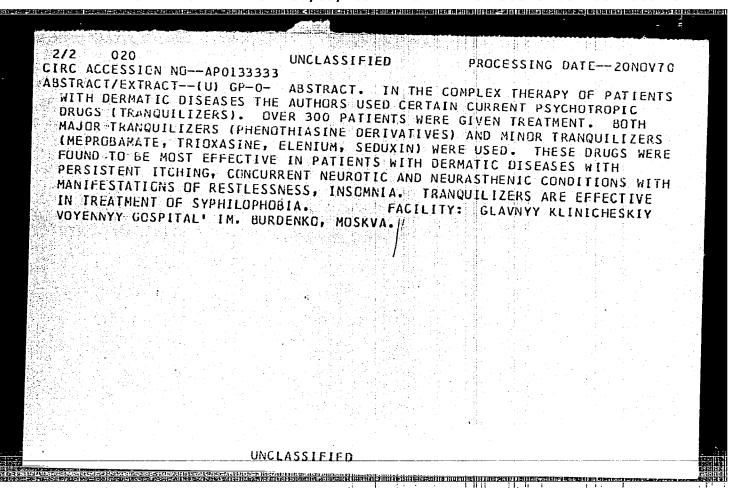
DUCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME--3005/1381

STEP NO--UR/0206/70/000/006/0006/0012

CIRC ACCESSION NO--APO133333

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USSR

ASHHENSKAS, YU. I.

UDC 615.917

"Variation of the Total Protein and Protein Fractions of the Blood Serum under the Effect of Sevin, Cineb, Ciram and Maneb"

V sb. Vopr. epidemiol. i gigiyeny v LitSSR (Problems of Epidemiology and Hysiche and the Lituanian SSR — collection of works), Vil'nus, 1971, pp 165-169 (from RZh-Farmakologiya. Khimiterapevticheskiye sredstva. Toksikologiya, No

Translation: Sevin (I; 2 mg/kg), cineb (II; 10 mg/kg), ciram (III; 2.5 mg/kg) and maneb (IV; 0.75 mg/kg) were administered internally to rats of 5 MAY for 9 months. No changes in the total protein level were observed. The I-IV caused a reduction in the albumin content and an increase in the content of all poisoning by II and IV (but not I and III).

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200220004-9"

USSR

UDC [537.226+537.311.33]:[537+535]

ASHMONTAS, S. P., POZHELA, YU. K., and REPSHAS, K. K.

"Bigradient Electromotive Force of Hot Current Carriers"

Lit. fiz. sb. (Collection of Lithuanian Works on Physics), 1971, 11, No 2, pp 243-245 (summaries in Lithuanian and English) (from RZh-Fizika, No 10, Oct 71, Abstract No 10YE757 by authors)

Translation: The article presents experimental results of the investigation of the bigradient electromotive force of hot current carriers: i.e., the electromotive force appearing in a homogeneous semiconductor specimen on the creation therein of two different gradients of the warming electric field. Such warming up was brought about by the special shape of the specimen. Investigations were conducted on n-Ge specimens at room temperature by the microwave method and the d-c pulse method. The authors obtained the dependence of the bigradient electromotive force of hot current carriers on the strength of the electric microwave field in a wave guide.

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UDC: [537.226+537.311.33]: [537+535]

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ASHMONTAS, S. P., POZHELA, Yu. K., and REPSHAS, K. K.

"Photogradient EMF of Thermal Current Carriers in Germanium and Silicon"

Lit. fiz. sb. (Lithuanian Physics Collection) No. 3, vol. 11, 1971, pp 451-456 (from RZh-Fizika, No. 11, 1971, Abstract No. 11E1139)

Translation: The results are given of an investigation into the photogradient emf of thermal current carriers in Ge (n and p type) and Si (n type) at To = 300° K. In the case of n-Ge, a reduction was experimentally observed in the growth rate of the photogradient emf with the electric field intensity, beginning with fields of E>5000 V/cm, which fact is explained by the effect of the non-equivalent <100> valleys on the electron heating. Computations of the photogradient emf were made with approximate electron and hole temperatures computed from equations of energy balance.

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SHAGIDULLIN, R. R., BEL'SKIY, V. YE., ASHRAFULLINA, L. KH., KUDRYAVTSEVA, L. A., IVANOV, B. YE.

"Study of Dipole-Dipole Interaction of Phosphoryl Compounds with the Environment by the Method of Infrared Spectroscopy"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 11, 1973, pp 2502-2504

Abstract: A study was made of the nature of the variation of the valence phosphoryl oscillation frequency $V_{p=0}$ in different media for phosphoryl compounds differing significantly with respect to dipole moments. The interaction with the environment of organophosphorus ethers, amides, acid chlorides and trialkyl (aryl) phosphine oxides having a phosphoryl group takes place by the same mechanism as the linearity of the variation of the valence oscillation frequency of the P=0 bond under the effect of the environment indicates. The interaction of the phosphoryl compounds with the environment is intensified with an increase in their dipole moments which can be caused by an increase in the polarity of the P=0 bond. The capacity of the phosphoryl compounds for interaction with the environment depends on the intramolecular effects of the substitutions on the phosphorus determined by the Taft induction constants.

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AUTHOR-(04)-GUSLIAKOV, A.A., ASHUKIN, A.V., KULEBA, V.I., LYUBARSKIY, I.M.

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USSR

ASHURLY, Z. I., BABAYAN, V. G., YEMEL'YANOV, Yu. M., MOROZOVA, N. P., FEDOTOVA, T. A.

"Effect of the Frequency on the Ignition Voltage in an Ozonizer"

Moscow, Khiriya i Fizika Nizkotemperaturnoy Plazmy, Moscow University Press, 1971, pp 121-125

Abstract: The authors investigate the ignition voltage as a function of frequency in an ozonizer with a 3 mm discharge gap at frequencies of 50, 500, 1000, 2000, and 3000 Hz. The reactor was a flat ozonizer of special design which fed the gas into the discharge zone of the ozonizer. The dielectric barriers were glass plates ground on both sides 1 mm thick and 100 mm in diameter with plexiglass rings glued to the edges to prevent breakdown on the glass surface. Ground aluminum electrodes 70 mm in diameter were applied to the glass plates. It was found that the ignition voltage decreases from 6900 to 5300 volts when the frequency increases from 50 to 3000 Hz. The experimental results agree satisfactorily with theoretical calculations. Two figures, one table, bibliography of ten titles.

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UR 0492

104667a Calculation of the combustion temperature of natural and liquified gases. Ashurov. S. A. (MINKh CP im. Cubkina, Moscow, USSR).

(Russ). Heats of dissocn. of combustion products of natural and liquified gases, as calcd. from the formula, gains = 100Qain/Qphys + Quisa), where Qiin. = 30.2 CO + 25.8 H; + 17 OH + heat capacity of the ith component in the temp. range from 0 to l, decreased with increasing coeff. a of excess air and were 0.5% higher than those calcd. with values for Qdin; and Qphys which neglected dissocn. products of HO and NO. The differences between gdin; for CH, and qdin; for CHin and CHin; at 2100° were 0.5 and 1.0%, resp. Tables of correction coeffs. \$\phi\$ = 1 - qdin for calcg, the rated combustion temp. \$l_i\$ = \$\phi_0\$ from the calorimetric combustion temp. \$l_i\$ = \$\phi_0\$ from