UBC 621.315.392

TABATADZE, B. G., SCI'SRUN, Te. V., and Trassition, I. A., Scientific assistant Physico Chemical Inscitute imeni L. Va. Khrpov, Moscow, State Commistve for

"Adsorption of Vapors of Noble Matala on a Semiconductor Vila of Zone conto."

Moscow, Khurmal Fizicheskey Khimii, Vol 44, No 7, Jul 70, pp 1864-1800

Abstract: Au, Pt, and Ag were adsorbed on a semiconductor EnO dillo ot 12 1000 the vaper phase on heating electrically wires of these matule to 820, 135. and. 320° in an evacuated glass vessel which also contained the ZhiO film. The leatric commentivity of ZnO increased considerably as a result of adsorption of acoms of the mobile metals, but dropped efter evaporation of these metals as stopped. The operated in conductivity was observed even at temperature to It was not due to description of the noble metal atoms from the 2nd series will was established in experiments in which Pt containing to it was used. An identity aggregation of noble metal atoms on the surface of Znd took place after this ration of the shows on this surface.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

UNCLASSIFIED PROCESSING DATE--020CT70

1/2 017 UNCLASSIFIED PROCESSING DATE--020CT70

TITLE--SEMICONDUCTOR DETECTOR FOR ATOMIC NITROGEN AND ITS USE IN STUDIES

OF SOME PHYSICOCHEMICAL PROCESSES -U-AUTHOR-(02)-TSIVENKO, V.I., MYASNIKOV, I.A.

COUNTRY OF INFO--USSR

SOURCE-KINET. KATAL. 1970, 11(1), 267-9

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, METHODS AND EQUIPMENT

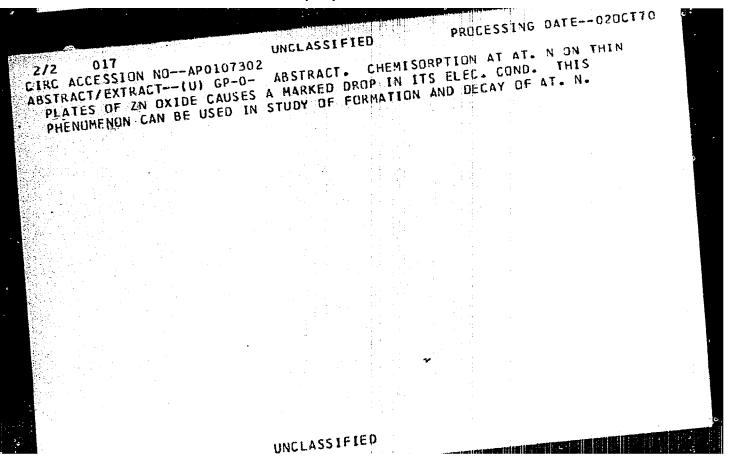
TOPIC TAGS--NITROGEN, SEMICONDUCTOR MATERIAL, SORPTION, ZINC OXIDE, ELECTRICAL CONDUCTIVITY, CHEMICAL DECOMPOSITION

CONTRUL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0760

STEP NG--UR/0195/70/011/001/0267/0269

CIRC ACCESSION NO--APO107302
UNCLASSIFIED



Abstracting Service: Ref. Code:

### Application of the heterogeneous recombination of hydrogen atoms. Pospelova. L. N. Mysmilon aland. (Fig. hydrogen atoms. 1902.) 390-3 [Phys Chem] (Russ). Recombination of the concess. (Phys Chem] (Russ). Recombination of the result of concess. (Phys Chem] (Russ). As a concess. (Phys Chem) (Phy

USSR

.UDC: 534.322.3+534.83

YEFIMOV, Yu. S., MAKAROV, L. T., MYASNIKOV, L. L., FINAGIN, B. A.

"A Maskless Fiber-Optics Acoustic Analyzer"

Tr. Leningr. korablestroit. in-ta (Works of Leningrad Shipbuilding Institute), 1972, vyp. 77, pp 45-48 (from RZh-Fizika, No. 5, May 73, abstract No 5Zh591 by R. I. G.)

Translation: A device is described which is designed for analyzing complex acoustic and electric signals by using a multichannel filter made of fiber light guides. Oscillations are optically fixed by passing light through resonating fibers. The maskless analyzer developed by the authors uses the effect of intensity modulation of light as it passes through vibrating fiber-optics light guides. It is experimentally shown that the maskless analyzer accomplishes linear conversion of a signal over a fairly wide range of dynamic variation.

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UDC 621.314.58

#### MYASNIKOV N.I.

"Harmonic Composition Of Output Voltage Of Frequency Converter With Direct Coupling"

Tr. TsNII mor. flota (Works Of The Central Scientific-Research Institute Of The Maritime Fleet), 1970, Issue 132, pp 90-103 (from RZh-Elektronika i yeye primeneniye, No 3, March 1971, Abstract No 38568)

Translation: By means of an analytical Fourier expansion, formulas are obtained for determining the frequency composition of the voltage curve at the output of a frequency converter with direct coupling. A computation was made on a digital converter of the composition of the voltage curve for various multiplicities K of the input and output frequency, the magnitude of the triggering angle of rectifiers [ventil'] and the inductances of the lead. Tables are presented of the values of the amplitude and phase shift of the harmonics for different ratios of the values of the input and output voltages and the comparative durations of the inverter regime. It is recommended that the voltage curve be shaped according to the arcsinusoidal law. 5 ill. 3 ref. A.S.

- 18 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

UCC 532.573

MYASNIKOV, S. K., KULOV, N. N., MALYUSOV, V. A., and ZHAVORONKOV, N. M., Institute of General and Inorganic Chemistry Imeni N. S. Kurnakov, Acad. Sc.

"Effective Velocity of the Free Surface of a Flowing Liquid Film"

Moscow, Teoreticheskiye Osnovy Khimicheskoy Tekhnologii, Vol 6, No 6, Nov-Dec 72, pp 893-899

Abstract: A method was developed for the determination of the effective rate of movement of a free surface of a flowing liquid film WL. On the basis of the experimental data obtained, equations have been derived for the calculation of  $\overline{w_L}$  for four conditions of flowing: transitional flow (35  $\leq$  ReL  $\leq$  80), first wave laminar flow (80  $\leq$  ReL  $\leq$  280), second wave laminar flow (280  $\leq$  ReL  $\leq$  1600), and turbulent flow (Re<sub>L</sub> > 1600). It has been shown that the ratio of  $\overline{w}_L$  to the average liquid velocity  $\overline{v}_L$  in the range of laminar flow conditions is less than 3/2. The velocity on the liquid film surface has also been determined in presence of surface active materials and dilute aqueous solutions of polymers.

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PROCESSING DATE--11SEP70

TITLE--SPACE PSYCHOPHYSTOLOGY -U-

AUTHOR-KOSMOLINSKIY, F., MYASNIKOY, V.

COUNTRY OF INFO--USSR

SOURCE--MEDITSINSKAYA GAZETA, JUNE 5, 1970, P 3, COLS 1-2

DATE PUBLISHED--05JUN70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--METABOLISM, SLEEP, COSMONAUT TRAINING, DIET, DRUG, MAN MACHINE SYSTEM

CONTROL MARKING--NO PESTRICTIONS

COCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/1558

STEP NO--UR/9034/70/000/000/0003/0003

CIRC ACCESSION NO--AND103348

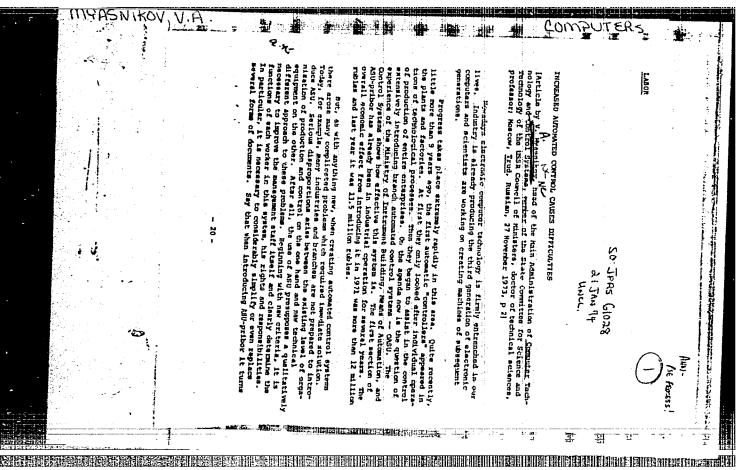
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2/2 039 UNCLASSIFIED PROCESSING DATE--11SEP70
CIRC ACCESSION NO--ANOI03348
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE ARTICLE IS A BRIEF DISCUSSION OF THE "MAN FLYING VEHICLE" THEME IN THE MEDICAL BIOLOGICAL FRAMEWORK. IN CONCLUDING, THE AUTHORS SAY THAT THE IMPROVEMENT OF THE METHODS OF GENERAL AND SPECIAL PHYSICAL TRAINING, AND THE CONTROL OF THE METABOLISM WITH THE AID OF PROPER DISTING AND CERTAIN DRUGS MERIT SPECIAL ATTEMTION. THEY ALSO STRESS THE IMPORTANCE OF SELF REGULATED SLEEP.

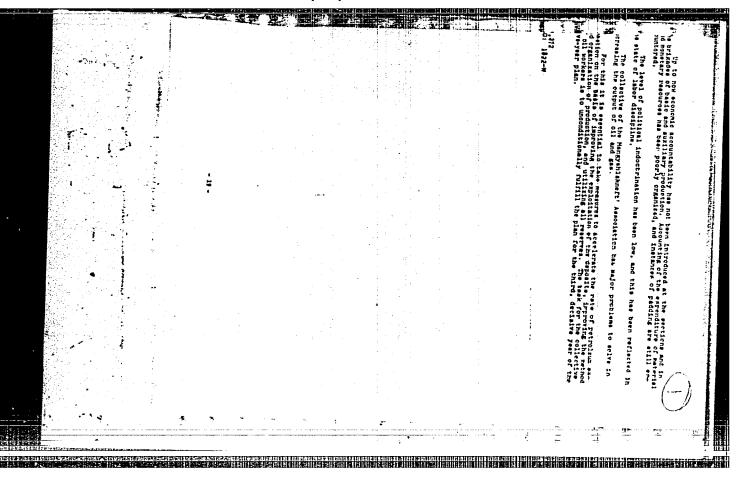
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V. A. Myasnikov - m- Sest	Unfortunately the level of autoration of technological precesses in ferrows metallury is still inadequate and does not always conform with the modern technical lovel.  The first stage of automation is mechanization. However the level of mechanization in the branch is very low. Of all of the operations being carried out at metallurgical enterprises, an average of only 30 percent cave been mechanized. Moreover, in such processes as the extraction of ore and raw materials and in a number of operations concerned with the production of the case of the carried out at the number of operations concerned with the production of the case of the carried out at the number of operations concerned with the production of the case of the carried out at the case of the carried out of the number of operations concerned with the production of the carried out at the carried out of the number of operations concerned with the production of the carried out of the carried o	The Directives of the 24th CPSU Congress for the five-year plan for assigned great tacks to ferrous metallurgy with regard to increasing its output and improving this grantity of its product; raising labor productivity in operation of a number of peverful blast furners, electro-steel smelting furners, expectation of a number of peverful blast furners, electro-steel smelting furners, expectation converters and metal rolling and tube rolling mills.  Optimum control over modern metallurgical assemblies, such as a blast and thin sheet rolling mills dayable of turning out a-6 million tons of cost iron annually rolled metal annually, cannot be schieved if use is not made of modern outputer equipment.	AUTOWATED PROCESSES AT FERROUS RETALLUNGY ENTERPRISES  [Article by where the control system of the Main Administration for Computer Equipment and Control Systems of the State Consistent for Science and Entirement of the State Consistent of Science and Preparing for the Entire Hoscow, Investiva, Russian, 11 September 1973, p. 27 Percentage for the factorial sections and the inclusive. The formula in the section of the mathematical industry, the degree to which it is equipped and also upon the status of affairs in the labor productivity, the degree to which it is equipped and also upon the status of affairs in the labor productivity.	Sol sold in the second on the second



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D. Programming and Theory of Mathematical Machines

USSR

MYASNIKOV. V. A.

"Improvement of Control and Automated Systems"

Upravlyayushchiye Sistemy i Mashiny [Control Systems and Machines], 1972, No 1, pp 3-8 (Translated from Referativnyy Zhurnal Kibernetika, No 6, 1973, Abstract No 6V592, by the author).

Translation: The basic scientific and technical problems arising in connection with fulfillment of the directives of the resolutions of the 24th CPSU Congress in the area of automation of control of the national economy are presented.

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MYASNIKOV, V. Ye.

UDC 621.372:8:621.385.63

"Isofrequencies of a Multistage Type Delay System"

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronic Engineering. Scientific and Technical Collection. Superhigh-Frequency Electronics), 1970, vyp. 5, pp 140-142 (from RZh-Radiotekhnika, No 8, Aug 70, Abstract No 8B131)

Translation: This article contains a study of a two-dimensional periodic multistage delay system of the multiconductor line type rolled into a cylinder and loaded periodically along the axis with reactive elements. When constructing the isofrequencies the given system is represented in the form of a planar two-dimensional periodic orthogonal array. Analysis of the picture of the isofrequencies permits us to draw some conclusions with respect to the geometry of the system and the direction of propagation of normal waves. There are two illustrations and a two-entry bibliography.

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#### Epidemiology

USSR



DOBROKHOTOV, B. P., MESHCHERYAKOVA, I. S., DOLOTOVA, L. A., POMANSKAYA, L. A., ARSEN'YEV, V. P., LEVACHEVA, Z. A., PANINA, T. V., KATELINA, A. F. and MYASNIKOV, Yu. A., Institute of Epidemiology, and Microbiology imeni Gamaleya, Academy of Medical Sciences, and Tul'skaya Oblast Sanitary-Epidemiological Station

"Application of a New Method of Detecting Tularemia Epizootics Under Practical Conditions"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

The timely detection, study, and prognostication of tularemia epizootics occupy an important place in the work of divisions of especially dangerous infections of sanitary-epidemiological stations inasmuch as this makes it possible to plan and carry out prophylactic measures against this infection properly. However, methods employed at the present time for detecting epizootics in nature are extremely labor-consuming and require a great deal of time both for the collection of field material and for its laboratory examination. It is practically impossible to survey each year the entire territory serviced by the station; therefore it is expedient to conduct a detailed study of circumstances in localities only after an approximate determination of the

DOBROKHOTOV, B. P., et al., Zhurmal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

probability of the presence of tularemia epizootics in any of their parts. this preliminary estimate it was suggested that pellets of birds of prey be examined for the presence of the tularemia microbe antigen [1]. Results of the practical application of this method under the conditions of Tul'skaya Oblast are presented in this report.

On the given territory, located in the Central Russian highlands, foci of tularemia of the meadow-field type [2] are widely distributed, the principal carrier being the ordinary field mouse and the long-time preserver of the causative agent, the tick D. pictus. In spite of substantial changes which have taken place in the method of conducting agriculture, these foci continue to exist; although as a result of the mass vaccination of the population, instances of disease among the people are extremely rare [3].

During 1968 to 1971 regular organized zoologic-parasitological work was carried out in the Oblast. A total of 25,832 traps were set up in the fields by workers in the Division of Especially Dangerous Infections during the time indicated; 497 cubic meters of straw were displaced; 84 hectares of the control areas were dug up and as a result 2,199 ordinary field mice were caught.

In the autumn of 1968 a large number of ordinary field mice were observed the southern rayons of the Oblast: more than 500 per hecture; and in the



DOBROKEOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

north up to 1000-1500 in some places. This led to a concentration of small animals in the stacks (19 to 25% falling into the traps) and to the occurrence among them of tularemia epizootics. In December of 1968 and in January 1969 15 strains of the causative agent were isolated in Kurkinskiy and Shchekinskiy rayons of the Oblast: 5 from the carcasses of the field mice and 10 from the excrement. In the course of the entire year 1969 the number of field mice was low and the next increase was not registered until in the autumn of 1970: on isolated fields (clover) up to 2000, and in Shchekinskiy and Odoyevskiy rayons, up to 5000 per hectare. In 1971 the number of ordinary field mice in the entire Oblast was extremely low. During these years negative results were obtained in bacteriological investigations of small animals; only one culture of the tularemia microbe was isolated in June 1970 from the ticks D. pictus collected from cows in Suvorovskiy Rayon. Thus from 1968 to 1971 during an intensive inspection of the Oblast, the presence of tularemia was established by a bacteriological method in only three rayons -- Kurkinskiy, Shehekinskiy, and Suvorovskiv.

During 1969 to 1971, 1490 pellets of birds of prey were collected and examined in the Oblast. Their collection took place primarily in the spring 3/10



DOBROKHOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-103

(April - May) at the time of three-to-four-day field trips by automobile; a certain number was collected incidentally while other zoological work was being carried out. The pellets were most frequently found mear poles of electrotransmission and communications lines, on stacks, and hear other structures on the landscape. During the entire time in the collection of pellets approximately 30 man-days were used which comprised an extremely insignificant part of the time expended by the division for inspecting the Oblast. Unfortunately in some of the 18 rayons covered by the collection, an insufficient number of pellets were found, which did not permit the positive determination of an epizootic condition of the rodent population in their territory (See Drawing). The number of pellets collected at any point was directly dependent on the number of ordinary field mice in a given locality: under an increased concentration of these rodents more birds of prey were observed and it was possible to find more pellets.

In the spring collections pellets (which had been preserved since autum) of ordinary and rough-legged buzzerds that winter in the territory predominated (more than 90%). A large portion of the pellets of the lesser falcons had disintegrated by this time. In 88 to 96% of the pellets the remains of ordinary 4/10

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DORROKHOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

field mice were encountered; those of other kinds of nammals (mice of plowed land, field mice, grey hamsters, gophers, weasels, shrews) and birds were rarely encountered. During a selective examination in 1969, the remains of 128 small animals were detected in 85 pellets; in 1970, in 232 pellets, the remains of 356 small animals; and in 1971, the remains of 200 small animals in 140 pellets, giving an average of 1.5 small animal per pellet.

In this manner the 1490 pellets collected contained more small animals than those obtained in the fields during these years for investigation by all other methods. One should also keep in view that by consuming in nature primarily the weakened animals or their carcasses, birds of prey ensure the selection out of the animal population of precisely those individuals which are desirable for bacteriological investigation.

The presence of an antigen in the pellets positively confirmed the fact of an epizootic condition while through an analysis of the bone remains it was possible to determine the kinds of mammals involved in the epizootic process.

For the purpose of detecting the antigen the entibody neutralization reaction was employed. The material was prepared and the reaction carried out by the method described earlier [1].

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DOBROKHOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

The antigen of the tularemia microbe was detected in 173 pellets collected in the territory of 11 rayons of the Oblast. Colly those results were considered positive in which there was a sharp delay in hemagglutination which was observed in titrations (from the initial dry weight of the pellet); 1:10 - 1:20 in 73 cases; 1:40 - 1:80 in 67 cases; 1:160 - 1:320 in 23 cases; 1:640 - 1:1280 in 12 cases (See Table).

The number of sites where pellets were found containing an antigen was significantly greater than the number of sites where cultures were formed -- 21 against 4. This made it possible to establish with far greater precision the boundaries of epizootics that had transpired, and it testified to the fact that an epizcotic situation with respect to tularemia still exists in a significant part of the territory of Tul'skaya Oblast. Moreover, the presence of epizootics was successfully established for the years having a smaller number of ordinary field mice where it is impossible to detect the causative agent of tularemia by the usually applied methods.

In such torpid epizootics the tularemia microbe antigen is detected only in 1 to 1.5% of the pellets. Cultures of the tularemia microbe from rodents can be isolated only at the time of sufficiently intensive epizootics, and in 6/10

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logii, No 7, 1973, pp 105-108

DOBROKHOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobio-

such places more than 20% of the collected pellets contained the tularemia microbe antigen.

In this way, results of an examination of pellets (by the antibody neutralization reaction) collected in early spring in meadow-field foci of tularemia can serve as a precise indication of the existence during the past winter of epizootic tularemia in the territory being surveyed and its magnitude. The revelation of this fact is extremely important in determining the enzooticity of the territory for the purpose of conducting prophylactic measures, the first and foremost being systematic vaccinations. Negessarily in a suspect territory a more thorough collection of material must be achieved for the purpose of isolating the causative agent of tularemia by ordinary bacteriological methods.

Conclusions

1. Examination of pellets of birds of prey collected in springtime in meadow-field foci of tularemia for the presence of the tularemia microbe antigen makes it possible quickly and with a small expenditure of work to establish the past winter's epizootics of this infection and their intensity over extensive areas.

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DOBROKHOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

- 2. In the course of the years 1969 to 1971, tularemia enzooticity was established by the indicated method in 11 rayons of Tuliskaya Oblast; whereas by the bacteriological method the causative agent was detected in only 3 rayons.
- 3. With a sufficient amount of research material (100 to 200 pellets from each point) it will be possible to successfully detect each year even torpid tularemia epizootics, given a reduced number of ordinary field mice per focus.
- 4. The suggested method is completely suitable for use in work of divisions of especially dangerous infections of sanitary-epidemiological stations.

  BIBLIOGRAPHY
- 1. Dobrokhotov, B. P., Meshcheryakova, I. S., Zh. Mikrobiol. [Journal of Microgiology], 1969, No 12, p 38.
- 2. Myasnikov, Yu. A., Prirodnyve Ochagi Tulvaremii Srednerusskoy Vozyvehennosti, ikh Epidemiologicheskiye Osobennosti i Profilaktika [Katural Tularemia Sites of Central Russian Highlands, Their Epidemiological Features and Prophylactics], Thesis for Doctor of M., 1963.
- 4. Olsuf'yev, N. G., Dobrokhotov, B. P. et al., Zh. Mikrobiol., 1971, No 6, p 117.

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DOEROKHOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

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•	1969 1970 1971							
	Total	With	Total	With	Total	With		
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Kamenskiy			14		40	1		
Chernskiy			8		117	:		
Teplo-Orarevskiy	27	4	24		1 . mm			
Kireyevskiy			30		166	2		
Odoyevskiy			2		: <del>9</del> 8	42		
Dubenskiy					185	55		
Leninskiy			22		1.68	5		
Venevskiy	2		67	2	***	**		
Yasnogorskiy			23	3				
Zaokskiy			4		46	2		
Aleksinskiy	***		12		36			
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Total	2114	60	320	5	932	103	*****	
9/10								

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DOBROKHOTOV, B. P., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 7, 1973, pp 105-108

# Drawing

EXAMINATION OF PELLETS OF BIRDS OF PREY FOR TULAREMIA MICROES ANTIGEN CONTENT IN MEADOW-FIELD FCCI OF TUL'SKAYA OBLAST

- 1. Sites of Formation of Cultures of Tularemia Microbe From the Smaller Mammals, From Their Excrement and Ixedic Ticks
- 2. Collection Point of Pellets in 1969
- 3. Collection Point of Pellets in 1970 4. Collection Point of Pellets in 1971

Crosshatched symbols are points where the tularemia microbe antigen was found in pellets; dotted symbols are points at which more than 5 pellets were collected.

- Key: 1. Yasnogorsk
- 2. Venev

- 7. Kireyevsk 8. Odoyev 9. Teploye
- 3. Tula 4. Dubna
- 10. Kurkino
- 5. Suvorov
  6. Shchekino
- 11. Yefremov

Shchekino

10/10

USSR

WDC 620.193.28

ZAKHAROV, YU. V., MYASNIKOV, YU. F., UL'YANIN, YE. A., VASIL'YEV, P. YE., and USTIMENKO, M. YU., Central Scientific Research Institute of Ferrous Metallurgy imeni I. P. Bardin

"Investigation of High-Strength Steels and Alloys for Work in Humid Hydrogen Sulfide"

Moscow, Zashchita Metallov, Vol 9, No 1, Jan-Feb 73, pp 61-63

Abstract: The tendency to failure under the action of hydrogen sulfide was investigated on 40Kh and 65G structural steels. 4Kh13 and 4Kh16H7H2Yu stainless steel subjected to martensitic transformation, and dispersion-hardened 4Kh140H2T2U (EP543) austenitic steel. Cylindrical specimens of 40Kh and 4Kh13 steels and EP-543 alloy were over a period of one month. The test results revealed that 40Kh and 4Kh13 steels in the hardened state (R > 30) are highly inclined to cracking in the presence of humid hydrogen sulfide, whereas the EP-543 alloy is stable. Leboratory tests under similar conditions revealed a high stability of austenitic dispersion-hardened EI437B alloy on a nickel base. One figure, twelve bibliographic references.

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USSR

UDC: 621.386.12:548.73.08

KUZNETSOV, F. I., SMIRNOVA, Z. F., and MYASNIKOV, YU. G.

"The Mars-2 X-ray Unit"

V sb. Apparatura i metody rentgenovsk. analiza (Equipment and Methods of X-ray Analysis — collection of works), Vyp.11, Leningrad, "Mashinostroyeniye", 1972, pp 39-43 (from RZh-32.Metrologiva i Izmeritel nava Tekhnika, No 5, 1973, Abstract No 5.32.892)

Translation: The authors present a description of the Mars-2 bench type x-ray unit with an x-ray radiation generator of 0.1 kw output in the form of the BSV-7 sealed off, sharp-focus tube. The x-ray unit ensures the supply of uniformly controllable voltage to the tube within the 0 to 50 kv limits. The anode current is regulated by the supply of direct current with a 0-125v shift to the forcing electrode of the tube. The standard deviation from the given voltage value and the anode current for 12 hours of continuous operation does not exceed 2 percent. An example is given of using the unit in the realization of the high-resolution topographic lang method. Original article: three illustrations and two bibliographic entries. Resume.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

WDC 613.6.612.766.1-08

VOL'KHINA, T. P., KAGAN, B. I., and MYASNIKOVA, G. P., Sverdlovsk Scientific Research Institute of Labor Hygiene and Occupational Diseases"

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"Physiological Evaluation of the Difficulty of Work"

Moscow, Gigiyean i Sanitariya, No 4, 1971, pp 100-102

Abstract: Various physiological indexes (pulse rate, muscular strength, coordination of movement, reactions to sound and light, attention, and so forth) were investigated as a means of grading the difficulty of the jobs of several categories of workers - lathe operator, machinist, milling machine operator, engineer/programmer - in a pilot machine plant. Pilot plants are characterized by the lack of strict control of the industrial processes, uniqueness of the products, creative nature of the workers' participation, ami so forth. Judging (90 to 99 beats per minute) while the jobs of the machinist, milling machine operator, and engineer/programmer are light (less than 90 pulse beats per minute). But with regard to nervous strain and fatigue, all four categories of workers are essentially a like, i.e., the work of a lathe operator, machinist, and milling machine operator in a pilot plant is essentially a variety of mental work.

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### Microbiology

USSR

UDC 576.851.45.077.3:576.8.073.4

URALEVA, V. S., FETSAYLOVA, O. P., MYASNIKOVA, G. S., DASHKEVICH, L. V., and AZARTSEV, A. N., Rostov-na-Donu Scientific Research Antiplegue Institute and Poltavskaya, Yaroslavskaya, and Orlovskaya Oblast Sanitary Epidemiological Stations

"Results Obtained by Means of Fluorescent Antibodies During Investigation of Natural Foci of Tularemia"

Moscow, Laboratornoye Delo, No 1, 1973, pp 57-58

Abstract: Spleen, blood, lymph node, liver, and lung smear prints of 13 infected laboratory mice were treated with luminescent tularemia serum. A large number of brightly luminescent microbes were found in the samples of seven animals. Bacteriological investigations yielded tularemia pathogen from all 13 Luminescent bodies resembling tularemia migrobes were also observed in two additional mice infected with Dermacentor pictus ticks. However, no tularemia bacteria were isolated from these animals. It was established that smear prints of internal organs remain suitable for treatment with luminescent serum for up to 6 months if kept in a refrigerator and for up to 3 months if kept at room temperature. The method of contrasting specific luminescence yields good results only if bovine albumin tagged with fluorothiocyanate is used. Albumin tagged with isothiocyanate is ineffective.

USSR

UDC 577.858.27.095.51.095.14

SOKOLOV, M. I., and MYASNIKOVA, I. A., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, Moscow

"Mutagenic Action of Ultraviolet Rays on Fowl Plague Virus. Selection and Characterization of Some Properties of Plus and Minus UV-Mutants"

Moscow, Voprosy Virusologii, No 4, Jul/Aug 72, pp 453-458

Abstract: The nature of UV mutagenesis was studied on the model of LpI (large-plaque) fowl plague virus growing in chick embryo fibroblast culture. When subjected to 200 ergs/mm², the rate of S-mutant appearance in intracellular reproducing colonies increased 10-fold over that of the wild virus. Such mutations were found to be reversible after several passages. All S-mutants displayed reduced reproductive activity at optimum (37°C) and higher and lower temperatures (32°, 40°). However, differences in response to temperature, in erythrocyte agglutinating ability, and response to triprotamine sulfate separated these mutants into 3 groups: Group 1 -- lowest reproductive rates at all temperatures, loss of ability to agglutinate chick and rat erythrocytes (minus mutants), no response to triprotamine sulfate; group 2 -- reproduce at 32 and 37°C but not at 40°C, added ability to agglutinate nouse erythrocytes, in addition to those of chicks and rats 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

SOKOLOV, M. I. and MYASNIKOVA, I. A., Voprosy Virusologii, No 4, Jul/Aug 72, pp 453-458

(plus mutants), no response to triprotamine sulfate; group 3 -- reproductive rates intermediate to those of groups 1 and 2, maintained ability to agglutinate chick and rat erythrocytes, reproduction inhibited by agar polysaccharides and plaque formation stimulated by protamine sulfate. Intracellular mutations probably arise due to simple replacement of nitrogenous bases. Mutants arose in extracellular (intact) wild colonies subjected to 1,000 and 1,500 ergs/mm² only after 2 or more passages, dissociating into colonies with large and small plaques. Inte development of 8°-mutants in this case suggests heterozygotic dissociation of the large-plaque phenotype and prolonged mutagenesis.

2/2

-82

3

USSR

unc 576.858.75.095.57

PODCHERNYAYEVA, R. Ya., SOKOLOV, M. I., PARASYUK, N. A., WYASYIKOVA, I. A., BASOVA, E. A., SOKOLOVA, N. N., and MOLIBOG, Ye. V., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR

"Study of Genetic Markers and Their Variability in Influenza Virus Isolated During the 1968-1969 Influenza Epidemic. II. Variability of Genetic Markers in Influenza Type A<sub>2</sub> (Hongkong) Virus In Passages in Mice at Low Temperatures"

Moscow, Voprosy Virusologii, No 5, 1971, pp 543-548

Abstract: Ten passages of influenza type A2 (Hong Kong) virus in mice resulted in variants that produced lung changes typical of influenza in mice. After the 20th passage, the pathogenic variants exhibited increased reproductive activity at 36 and 40°C. All strains, except A2 (Hong Kong) 1/68 M<sub>20</sub>, resisted heating to 56°C. Like the original strains, they were completed adsorbed on chick erythrocytes but were more readily eluted from them. Neuraminidase activity was half that in the original strains. The pathological variants remained sensitive to normal animal serum inhibitors and did not agglutinate mouse erythrocytes. They resembled the original strains in resistance to trypsin, urea, and ultraviolet irradiation.

USSR

PODCHERNYAYEVA, R. Ya., et al., Voprosy Virusologii, No 5, 1971, pp 543-548

After 10 passages of A2 (Hong Kong) 1/68 and its pathogenic variant A2 (Hong Kong) 1/68  $\rm M_{20}$  in chick embryos incubated after inoculation at 28°C both strains reproduced actively and remained able to do so even at 40°C.

2/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

UDC 519.21

MYASNIKOVA, I. A.

"Necessary and Sufficient Condition for Existence of Limiting Cycles of One Class of Systems of Differential Equations with Random Right Portion"

Nekotor. Krayev. Zadachi Obyknoven. Differents. Uravneniy [Some Boundary Problems of Ordinary Differential Equations -- Collection of Works], Moscow, 1970, pp 98-103, (Translated from Referativnyy Zhurnal, Kibernetika, No 6, 1971, Abstract No 6 V102 by M. Nevel'son).

Translation: A system of two equations with random coefficients dependent on a small parameter  $\mu$  and having a "center" type singular point where  $\mu=0$  is studied. Conditions are presented providing the existence of a limiting cycle for this system with probability 1 with all sufficiently small  $\mu$ .

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USSR

UDC 576.858.75.095 5

SOKOLOV, M. I., PODCHERNYAYEVA, R. Ya., PARASYUK, N. A., MYASNIKOVA, I. A., MYASNIKOVA, I

"Study of Genetic Properties and Their Variability in Viruses Isolated in the 1968-1969 Influenza Epidemic. Communication 1: Biological Properties of Strains of A2/Hong-Kong 1/68"

Moscow, Voprosy Virusologii, No 6, Nov/Dec 70, pp 677-680

Abstract: A study was made of the inhibitor ratio, thermal stability, neuramidase and eluent activities, stability against UV light, and pathogenic and toxic effects on white mice of the A2/Hong-Kong 1/68 flu strain and two similar strains isolated in the USSR. The latter strains did not differ significantly from the former. On the basis of the test results, it is assumed that evolution of the A2 virus in nature does not involve reversion to strains of group AO. Additional studies with laboratory varieties are required to elucidate this problem.

1/1

1/2 O11 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--GENETIC MARKERS OF HERPES SIMPLEX VIRUS COMMUNICATION 2:
INVESTIGATION OF GENETIC MARKERS OF THE US STRAIN OF HERPES SIMPLEX
AUTHOR-(04)-RUDNEVA, I.A., GERMANDV, A.G., MYASNIKOVA, I.A., SOKOLOV, M.I.

COUNTRY OF INFO--USSR

SOURCE--VOPROSY VIRUSOLOGII, 1970, NR 2, PP 182-186

DATE PUBLISHED---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--HERPES SIMPLEX VIRUS, TISSUE CULTURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/0729

STEP\_NO--UR/0402/70/000/002/0182/0186

CIRC ACCESSION NO--APO108935

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

UNCLASSIFIED PROCESSING DATE--18SEP70

2/2 011

CIRC ACCESSION NO--APOL08935

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. A VARIANT DF THE US STRAIN OF HERPES SIMPLEX VIRUS PRODUCING A CYTOPATHIC EFFECT IN HUMAN EMBRYO AND HERPES SIMPLEX VIRUS PRODUCING A CYTOPATHIC EFFECT IN HUMAN EMBRYO AND HERPES SIMPLEX VIRUS PRODUCTIONS WAS STUDIED. DIFFERENT SENSITIVITY OF CHICK EMBRYO FIBROBLAST CULTURES DEPENDING ON THE TYPE OF THE US STRAIN TO SULFATED AGAR POLYSACCHARIDES DEPENDING ON THE TYPE OF THE US STRAIN TO SULFATED AGAR POLYSACCHARIDES DEPENDING ON THE TYPE OF CHICK EMBRYO FIBROBLAST CULTURE BUT NOT IN HUMAN WAS OBSERVED ONLY IN CHICK EMBRYO FIBROBLAST CULTURE BUT NOT IN HUMAN WAS OBSERVED ONLY IN CHICK EMBRYO FIBROBLASTS. THE VARIANT UNDER STUDY WAS FOUND TO BE SENSITIVE EMBRYO FIBROBLASTS. THE VARIANT UNDER STUDY WAS FOUND TO BE SENSITIVE TO 5.BROMODEOXYURIDINE AND TO BE INCAPABLE OF REPRODUCTION AT HIGH TEMPERATURE.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

UNCLASSIFIED

UDC 669.292.5'24'71.013.13

MYASNIKOVA K. P., PONOMAREVA, L. F., PRYAKHINA, L. I., and MARSHAKOV, I. K., Moscow, Voronezh

"Study of the NiAl3-VAL3 and Ni2Al3-V5Al8"

Moscow, Izvestiya Akademii Nauk SSSR, Metally, No 1, Jan 71, pp 186-189

Abstract: Microstructural, x-ray structural and thermal analysis were made to study the phase equilibria in NiAl3-VAl3 and Ni2Al3-V5Al8. It is demonstrated that in the solid state, the alloys of both sections have a two-phase structure, the phase components of which are the initial compounds. The polythermal section of the NiAl3-VAl3 cross section has three fields of primary crystallizations: L + Ni<sub>2</sub>Al<sub>3</sub>, L + Val<sub>3</sub>, and L + V<sub>5</sub>Al<sub>8</sub>. Fusion of the NiAl<sub>3</sub> compound in the entire concentration interval is inconstruct in natural interval in the entire concentration interval is Fusion incongruent in nature. The combined crystallization of the incongruent in nature. The combined crystallization of the phases Ni<sub>2</sub>Al<sub>3</sub> and V<sub>5</sub>Al<sub>8</sub> in the 20-80 at.% V<sub>5</sub>Al<sub>8</sub> interval occurs according to the eutectic type. The peritectic nature of the formation of the compounds Ni<sub>2</sub>Al<sub>3</sub> and V<sub>5</sub>Al<sub>6</sub> results in the presence of two three-phase areas on the polythermal section. The mutual replacement of nickel and vanadium atoms has little

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

**USSR** 

MYASNIKOVA, K. P., et al., Izvestiya Akademii Nauk SSSR, Metally, No 1, Jan 71, pp 186-189

influence on increasing the hardness of alloys, due to the similarity of their atomic radii. The absolute value of hardness of alloys in the Ni<sub>2</sub>Al<sub>2</sub>-V<sub>5</sub>Al<sub>8</sub> cross section is 2,5 times greater than the hardness of alloys in the NiAl<sub>3</sub>-Val<sub>3</sub> cross section.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

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UDC 669:539.3:546.4

MYASNIKOVA, K. P., Moscow

"Hereditary Phenomena in the Crystallization Process of Double Solid Solutions of Nickel"

Moscow, Izvestiya Akademii Mauk SSSR, Metally, No 4, Jul-Aug 70, pp 141-14.

Abstract: The "hereditary" bond of the cast structure of allogo with a charical substructure of homogenized solid solutions was experimentally investigated and double solid solutions of electrolytic Ni with Zr iodide, electron-beam who is in moldings, and refined Ru, Rh, and Pb, by the method of selective ctd. In the surfaces in the cast, annealed, deformed, and recrystallized states. The analysis of microstructures of the investigated alloys shows that their solution proceeds in accordance with the character of wheir insibality diagram. Small additions of the second component in the Ni-Mo, Ni-Pu, and Ni-Rh bystems do not give rise to noticeable liquation phenomena and wheir structure shows a polygonal character, but an increased concentration produces at first a vesicular and their a dendritic structure. Zr, Nh, and Pb dissolved in Mi intensively decrease an melting temperature and when the temperature interval between the liquidus that solidus lines. The microstructure of all investigated alloys

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

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MMASNIKOVA, K. P., Izvestiya Akademia neek SSSR, Metalij, Ne 4, Jul-kag 70, pp

becomes uniphase after a long-term homogenizing anneal at 11de 6. A congurasch of microstructures also shows that the vasicular, acidelar, and dendritic crystallization characters are related to analogous characters in the distribution of euching figures of annealed alloys and that the enthing figures are bution of euching figures of annealed alloys and that the enthing figures are consolidated with orientation characteristics of crystalline grains. The leat treatment, deformation, and recrystallization only slightly affect the "hereditery" structure of the crystallization process.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

UDC 615.332 (LINCONYCINUM).036.8:616.981.555-092.9

POLYAK, M. S. and MYASNIKOVA, L. G., Leningrad Scientific Research Institute of Antibiotics

"Experimental Study of Lincomycin in Gas Gangrene Infection"

Moscow, Antibiotiki, No 3, 1972, pp 218-222

Abstract: Lincomycin suppressed the multiplication of 15 pathogenic clostridial strains (C1. perfringens, C1. cedematiens, C1. septicum, C1. histolyticum, Cl. sordelli) in vitro at concentrations not exceeding 4 µg/ml (except Cl. sordelli which was resistant to the antibiotic). The bactericidal concentrations were generally twice the bacteriostatic. Bacteriostatic and bactericidal concentrations of erythromycin were in most cases similar to those of lincomycin. In experimental infection of mice caused by Cl. perfringens and Cl. septicum, lincomycin exhibited therapeutic activity, but it was ineffectual against Cl. oedematiens and Cl. histolyticum. When lincomycin was combined with tetracycline, the effect on all the Cl. septicum, Cl. oedematiens, Cl. histolyticum, and Cl. sordelli strains studied was negligible. However, a synergistic effect was noted in 7 of 3 Cl. perfringens strains treated with the two antibiotics. Study of the effect of subbacteriostatic concentrations of lincomycin and tetracycline on multiplication 1/2

USSR

POLYAK, M. S., and MYASNIKOVA, L. G., Antibiotiki, No 3, 1972, pp 218-222

of the Clostridia revealed a considerable prolongation of the lag phase and decreased density of the biomass in the logarithmic and stationary phases.

2/2

UNCLASSIFIED PROCESSING DATE--27NOV70

FITLE--KINETICS AND THERMODYNAMICS OF THE FORMATION OF A DIFFUSION LAYER

IN THE IRON CHROMIUM SILICON ALLOY SYSTEM -U-

AUTHOR-(03)-KRISHTAL, M.A., MOKROV, A.P., MYASNIKOVA, L.V.

COUNTRY OF INFO--USSR

SOURCE-FIZ. KHIM. MEKHAN. MAT., 1970, 6, (2), 59-65

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--CHROMIUM STEEL, SILICON CONTAINING ALLOY, METAL DIFFUSION, THERMODYNAMIC ANALYSIS, METAL SURFACE PROPERTY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1679

STEP NO--UR/0369/70/006/002/0059/0065

CIRC ACCESSION NO--AP0129049

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

2/2 026 UNCLASSIFIED PROCESSING DATE--27NOV70
CIRC ACCESSION NO--AP0129049
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. SOME GENERAL LAWS GOVERNING THE
KINETICS AND THERMODYNAMICS OF THE FORMATION OF A DIFFUSION LAYER ON CR
STEELS IN THE COURSE OF SILICIZING (RESULTING IN THE FORMATION OF AN
FE,CR,SI ALLOY) ARE PRESENTED. THE EFFECT OF CR ON THE SI DISTRIBUTION
IS INDICATED AND THE KINETIC AND THERMODYNAMIC CONSTANTS FOR THE
DIFFUSION OF SI IN THE FE,CR,SI SYSTEM ARE LISTED. THE RESULTS PRESENT
A CLEAR PICTURE OF THE PROCESSES GOVERNING THE MUTUAL REDISTRIBUTION OF
CR AND SI DURING THE SILICIZING OF CR STEELS AND HELP IN ESTIMATING THE
MECHANICAL PROPERTIES OF THE SURFACE LAYER.

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UNCLASSIFIED

Polymers and Polymerization

USSR

UDC 678.742.2.01:53

MYASNIKOYA. N. M.

"Incombustible High-density Polyethylene"

Moscow, Plasticheskiye Massy, No 7, Jul 70, pp 37-39

Abstract: The article describes results of a study to determine the optimal quantities of additives for creating incombustible compositions based on high-density polyethylene. The additives used were chlorinated paraffin brand KhP-70, antimony trioxide and basic lead acetate and were introduced into the polyethylene individually or in combination. The best physicomechanical indices were found in a self-extinguishing composition consisting of high-density polyethylene plus 5 parts by weight of chloroparaffin plus 15 parts by weight of antimony trioxide plus one part by weight of basic lead acetate.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

Acc. Nr: APO049920 Abstracting Service: CHEMICAL ABST. 570

Ref. Code: UR 0070

104827c Elastic constants of the anthracene crystal as a function of temperature. Afanas'eva, G. K.; Myasnikova R. M. (Inst. Elementoors: Soedin., Moscow, Lessible anthracene grafiya 1970, 15(1), 189-90 (Russ). Elastic consts. of monoclinic single crystals of anthracene were detd. by a method described earlier (CA 68: 33930k) for the temps. 100, 140, 180, 220, 260, and 300°K. For these temps. the elastic wave velocities V, and elastic constants ci; are given. V increases with increasing temp. in a slightly distorted parabolic fashion. The av. value  $\partial \ln c_{ij}/\partial T$  was, on the av., 2-times lower than that for naphthalene crystals.

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REEL/FRAME 19801856

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

VDC: 535.343

MYASNIKOVA, T. P. and YEVSEYEVA, R. Ya., Rostov-on-Don State University

"Effect of Light Dispersion on Infrared Spectra"

Tomsk, <u>Izrostiya Vysshikh Uchebnykh Zavedeniy--Fizika</u>, No 11, 1972, pp 155-157

Abstract: To clarify the question of how close the spectrum of a suspension in vaseline, the most often used immersion material, is to the true spectrum, the authors undertook experiments comparing the infrared spectra of such specimens as potassium nitrate, sodium nitrite, and sodium argentonitrite. The first was made as a suspension in vaseline, as a cooled melt on a metallic grating, and as a monocrystal; the second as a suspension and a melt; the third as a suspension and as a monocrystal. The absorption spectra of all three are plotted. The purpose of the experiments described in this brief communication was to help explain experimental results in infrared spectroscopy.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

UDC 681.325.3(088.8)(47)

MYASNOV, V. I., PLESHAKOV, A. A., and GASUMYAN, K. A.

"A Converter Which Converts an Interval of Time Into Digital Code"

USSR Author's Certificate, No 292173, Filed 8 Sep 69, Published 26 Feb 71 (from Referativnyy Zhurnal -- Avtomatika, Telemekhanika, i Vychislitel'naya Tekhnika, No 8, 1971, Abstract No 8B373 P)

Translation: A converter which contains generators of standard-frequency pulses, a pulse counter, and gates is suggested. In order to reduce errors in quantization that is performed n times and to reduce the possibility of using the counting elements with the least limiting frequency of switching, the lower positions of the pulse counter contain n counting cells, and to the inputs of these cells the corresponding codes of the n-step standard-frequency pulse generator are connected via the gates. The one and zero outputs of the counting cells of the lower positions are connected to the corresponding inputs of the AND logic circuits, the outputs of which are connected via an OR circuit with the counting input of the higher positions of the counter. 1 illustration.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

UDC: 681.325

MYASNOV, V. I., PLESHAKOV, A. A., GASUMYAN, K. A.

"A Converter Which Changes a Time Interval to Digital Code"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 4, Feb 71, Author's Certificate No 292173, Division 6, filed 28 Mar 69, published 6 Jan 71, p 135

Translation: This Author's Certificate introduces a converter for changing a time interval to digital code. The unit contains a standard frequency pulse oscillator, a pulse counter and diodes. As a distinguishing feature of the patent, the unit is designed for reducing the error of quantization by a factor of n, and provision is made for using counting elements with a lower maximum switching frequency. The least significant digits of the pulse counter contain counting cells with the outputs of the n-cycle standard frequency pulse oscillator connected to their corresponding inputs through diodes. The one-output and zero-output terminals of the counting cells of the least significant digits are connected to the inputs of AND logic circuits whose outputs are connected through an OR circuit to the counting input of the most significant digits in the counter.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

UDC 543.70

SAVVIN, S. B., MYASOYEDOV, B. F., YELISEYEVA, O. P., Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, Moscow, Academy of Sciences USSR

"Removal of Microimpurities of Tantalum from Niobium by Sorption on Chelate Resins"

Moscow, Zhurnal Analiticheskoy Khimii, Vol XK, No 7, pp 1023-1026

Abstract: The authors report the results of their study of the separation of small amounts of tantalum from nichium using chelate resins — asoderivatives of polystyrene containing arsono groups. The experimental procedure is described and data are presented for the sorption of test quantities of  $^{182}\mathrm{Ta}$  and  $^{95}\mathrm{Nb}$  from HC2 and  $^{182}\mathrm{O}_4$  under varying conditions and as a function of the time the initial Ta solution has been stored. The effect of the Nb concentration on sorption of the test quantities of Ta from 20 N  $_{12}\mathrm{SO}_4$  is also given. Data are presented for sorption of Ta by one of the arsomo groups from 20N  $_{12}\mathrm{SO}_4$ , desorption of  $_{13}\mathrm{Ta}$  by anhydrous hydrofluoric acid (20 mg of resin, V = 10 m Z), and sorption of Ta in the presence of 10 mg of Nb from 20 N  $_{12}\mathrm{SO}_4$ . The experiment in

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

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SAVVIN, S. B., et al, Zhurnal Analiticheskoy Knimii, Vol XX, No 7, pp 1023-1026

separating niobium from microimpurities of tantalum by sorption on a resin from 20 N  ${\rm H}_2{\rm SO}_4$  solutions was successful.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

UDC 519.2

USSR

MALYUTOV, M. B., MYATLEY, V. D.

"Minimax Plans for Checking the Adequacy of a Linear Model on a Cube and a Sphere"

Minimaksnyye plany proverki adekvatnosti lineynoy modeli na kube i share (Minimak Plans for Checking the Adequacy of a Linear Model on a Cube and a Sphere), Interdepartmental Laboratory of Statistical Methods, Preprint No 23, Moscow, Moscow University, 1971, 18 pp. 3 k. (from RZh-Kibernetika, No 9, Sep 72, Abstract No 9V165K)

Translation: Let in the domain XCZ the second order polynomial  $\eta(x)$  be measured where the measurements are independent and equally accurate. The hypothesis  $\theta_2=0$  is checked where  $\theta_2$  is the vector of the coefficients for the second degree terms. The parameter of noncentralness  $\Delta(\epsilon, \theta_2)$  of the F-criterion depends on the experimental plan  $\epsilon$  and the vector  $\theta_2$ . The minimax plans  $\epsilon^*$  maximizing min  $\Delta(\epsilon, \theta_2)$  are introduced. These plans are found for the

case where X is a cube or a sphere. It turns out that the part  $D_2$  of the dispersion matrix of estimates pertaining to the parameters  $\theta_2$  in these cases is a persion matrix of the unit part for the  $\varepsilon^*$  plan. Thus,  $\Delta(\varepsilon^*, \theta_2)$  does not depend on multiple of the unit part for the  $\varepsilon^*$  plan. Thus,  $\Delta(\varepsilon^*, \theta_2)$ 

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UR 0482

Soviet Inventions Illustrated, Section II Electrical, Derwent,

2/70

243259 MEASURING, THE ADRESION OF PARTICLES to a prepared electrode by imposing a powerful electrical field is effective by loses accuracy if the exact breakaway point cannot be observed. The proposed design offers observation by making the electrode transparent. The diagram shows the upper transparent electrode 1 carrying a transparent conducting coating 2, on the lower surface of which are deposited the particles 12, of which the breakaway force is to be determined; these are distributed not less than 2-3 diameters apart. The lower electrode 6, in net form, is replaced, with ring 7, after inserting the particles.

AUTHORS: Myazd

Myazdrikov, O. A.: Nikolayev, O. S.; Puzanov, V. N.;

Bantikov, V. S.; Yekimova, N. F.

Leningradskiy Institut Aviatsionnogo Priborostroyeniya

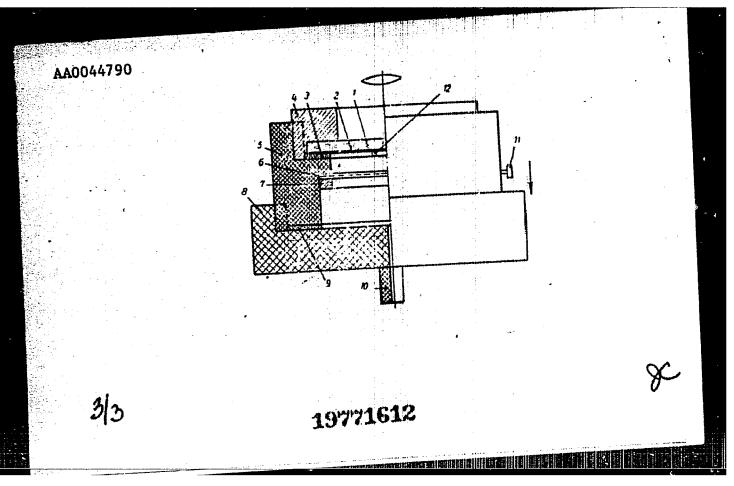
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sealing cap 8 replaced and the cavity filled with some gas at required pressure via nipple 10. The AA0044790 assembly is then placed under the microscope and a high voltage applied between terminal 11 of 6, and 4. Under the microscope the largest particles are selected for observation and their mean diameter estimated. As the specification shows mathematically, the adhesion force is a function of the square of the breakaway voltage and, inversely, the particle mean radius. These functions are observed by microscope, hence the force can be calculated. 23.12.67 as 1205295/26-25.0.A.MYAZDRINOV et al. (LENINGRAD) AVIATION INSTRUMENTATION INST. (23.9.69) Rul 16/5.5.69. Class 421. Int.Cl.G Oln. 19771611 

"APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8



Ref. Code: <u>UR 0146</u>

Acc. Nr.:	- M	Ref. Code:
USSR	unc 62	1.317.335. <sup>2</sup> 1.317.331
"Technique for Measuri Discharge Method"	ng Capacitor Paramet	ters by the

Sposob ismereniya parametrov kondensatorov po metodu razryada (cf. English above), Leningrad, <u>Izvestiya Vystanikh Uchebnykh Zavedeniy, Priborostroveniya</u>, 1970, No 1, pp 24-29

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Reel/Frame 19781793

AT0046533

# Translation:

A technique for measuring capacitance by direct current is examined, which is based on the discharge of a precharged capacitor with the aid of a macrocharge selfoscillatory system.

A different version of the self-oscillatory circuit is proposed for use as a converter of the measured capacity, time constant, and insulation resistance.

Formulas for the measurement and for the systematic

errors are derived.

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19781794

UNCLASSIFIED PROCESSING DATE--160CT70

1/2 026

TITLE--EFFECT OF NEROBOLIL ON THE DEVELOPMENT OF REPARATIVE PROCESSES IN

THE MYOCARDIUM OF RABBITS DURING EXPERIMENTAL MYOCARDIAL INFARCTION -U
THE MYOCARDIUM OF RABBITS DURING EXPERIMENTAL MYOCARDIAL INFARCTION -U
AUTHOR-(03)-KNYAZEVA, G.D., MYAZORIKOVA, A.A., MIROMENKO, A.I.

COUNTRY OF INFO--USSR

SOURCE--FARMAKOL. TOKSIKOL. (MOSCOW) 1970, 33(2), 182-7

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ANDROGEN, HEART DISEASE, ELECTROCARDIOGRAPHY, TISSUE REGENERATION

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0181

STEP NO--UK/0390/70/033/002/0182/0187

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CIRC ACCESSION NO--APOIL9177

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PROCESSING DATE--160CT70 UNCLASSIFIED 2/2 026 CIRC ACCESSION NO--APOL19177 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. NEROBGLIL ADMINISTERED 1.M. AT 10 MG-KG TO RABBITS WITH EXPTL. MYDCARDIAL INFARCTION NORMALIZED THE SERUM ALBUMINSTO GLOBULINS AND THE BETA LIPOPROTEINS TO ALPHA LIPOPROTEINS RATIOS, RESTORED THE DECREASED LECTTHINGTO CHOLESTEROL RATIO, AND IMPROVED THE ELECTROLYTE BALANCE AND ELECTROCARDTOGRAM. NEROBIL FASTENED REGENERATIVE PROCESSES BY STIMULATING FORMATION OF GRANULATION TISSUE DURING RESORPTION OF NECROSIS, AND ACCELERATED DIFFERENTIATION OF THE CELLULAR ELEMENTS. SCAR TISSUE FORMED MORE RAPTOLY AND AS A RESULT FACILITY: H. MOSK. MED. INST. IN. SECHENOVA. COVERED LESS AREA. MOSCOW, USSR. UNCLASSIFIED

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UDC 582.26:581.4:03

VELYCHKO, I. M., and MYGAL', O. K., Institute of Hydrobiology, Academy of Sciences Ukrainian SSR, Kiev

"Method for Determination of the Average Volume of Algae Cells"

Kiev, Ukrainskiy Botanicheskiy Zhurnal, Vol 28, No 2, Mar/Apr 71, pp 251-253

Abstract: Direct determination of the biomass of algae is possible only when algae occur in great numbers (e.g., in "blooming" reservoirs) and the water does not contain a large number of particles other than algae cells. If these conditions are not fulfilled, the volume method of estimating the biomass is applied, which is based on a determination of the average cell volume. The average volume of algae cells that belong to different dimensional groups, but constitute geometrically similar bodies can be calculated more precisely by using the mean cubical rather than mean arithmetic linear parameters of a cell. The mean cubic linear parameters are calculated according to the formula

 $K = \sqrt[3]{\Sigma \times 3}$ 

where x are the results of individual measurements and n is the number of cells measured.

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UDC 541.63:547.1'118

SHAGIDULLIN, R. R., SAMITOV, YU. YU., MYKHARCTOV F.S., and RIZPOLOZHENSKIY, N. I., Institute of Organic and Physical Chamistry Ineni A. Ye. Arbuzov, Acad. Sc. USSR

"Stereochemistry of Organophosphorus Compounds. i Communication. Configuration and Conformations of 2-Substituted Oxaphospholanols-3"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 7, Jul 72, pp 1604-1612

Abstract: In continuation of their studies, the reaction of diacid chlorides of phosphorous, amidophosphorous, and alkyl(aryl)phosphonous acids with diacetone alcohol in presence of triethylamine was investigated. In two cases of the reaction of the diacid chlorides of diethylamidophosphorous and phenyl-phosphonous acids with diacetone alcohol two pairs of products were isolated with sharp melting points 125-126° and 118-119° for one pair, and 135-136° and 164-165° for the other pair. Analytical data showed these pairs to have identical composition. Analysis of IR and NMR spectra showed them to be configurational isomers of

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SHAGIDULLIN, R. R., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 7, Jul 72, pp 1604-1612

and

X-Hydroxylphosphoryl compounds with open chains exist as rotational isomers stabilized by intramolecular H-bond with the oxygen of the phosphoryl group or the heteroatom of the ether group.

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UDC 615.21



MYKHIN, YE. A., MATKOVSKIY, K. D., and PARIY, B. I., editors

Parmakologiya Amidinovykh Soyedineniy (Pharmacology of Amidine Compounds), Kishinev, "Shtinitsa", 1972, 188 p

Translation:

Annotation

The collection presented experimental data and clinical material on the protective properties and mechanism of action of amidine compounds during hyperoxia and hypoxia as well as on the effect of these substances on physical fitness, the cardiovascular system, and uterus. The review articles on ethyrone and gutimine provide a fairly complete idea of the nature of this new and highly promising group of drugs.

The collection is of interest to pharmacologists, pathophysiologists, physiologists, surgeons, anesthesiologists, obstetricians and gynecologists,

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Immuno Logy

USSR

RYAGIN, S. T., and MYKYTYUK P. V. Belaya Tserkov' Agricultural Institute,

"Application of the Immunofluorescence Serological Method for the Detection and Identification of the Botulism Agent"

Kiev, Mikrobiologicheskiy Zhurnal, Vol 33, No 5, Sep/Oct 71, pp 613-618

Abstract: The immunofluorescence method was applied on an experimental basis for the detection and identification of C1. botulinum of types A, B, C, D, and E. The indirect procedure of fluorescent antibodies proposed by Weller and Coons was followed. Dry antirabbit fluorescent serum; antibotulinum agglutinating rabbit sera of the five types; and smears taken from the organs of infected guinea pigs were used. Kitt-Tarozzi medium was used to culture the pathogen to obtain smear prints. By applying the immunofluorescence method, all types of Cl. botulinum could be detected in pathological material taken from the guinea pigs, but only types C, D, and E could be identified, while identification of types A and B required toxin neutralization with antitoxic sera. Use of the procedure described resulted in a considerable saving of 1/1

USSR

UDC: 621.317:621.372.8

MEKHANNIKOV, A. I., MYL'NIKOV, A. V.

"Master Waveguide Standards for Low Attenuations"

Tr. WNII fiz.-tekhn. i radiotekhn. izmereniy (Works of the All-Union Scientific Research Institute of Physicotechnical and Radio Engineering Measurements), 1970, vyp. 2(32), pp 32-40 (from RZh-Radiotekhnika, No 5, May 71, Abstract No 5A210)

Translation: The authors describe the design and give the analytical calculation of master waveguide standards for small attenuations (0.1-1.0 DB). Master standards of this type have been developed at the Ali-Union Scientific Research Institute of Physicotechnical and Radio Engineering Measurements. These standards are designed for inspection work in the section dealing with instruments for measuring low attenuations in waveguide channels at frequencies of 2.14-16.7 GHz. Five illustrations, two tables, bibliography of four titles. Resume.

1/1

- 138 -

USSR



ANAN' YEVSKIY, M. G., BOCHKOV, N. G., SPEVAK, YE. YA., PARFENOV, G. V., and MYL'NIKOV, R. M.

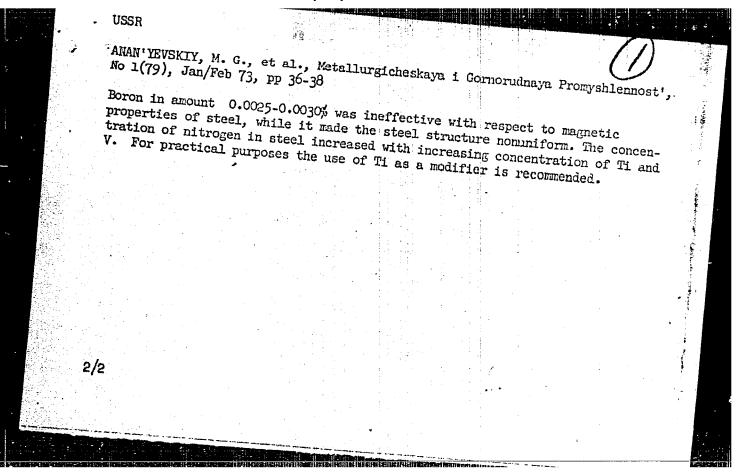
"The Effect of Vanadium, Titanium, and Boron Modification on the Structure, Magnetic Properties, and Aging of Electric Unalloyed Steel"

Dnepropetrovsk, Metallurgicheskaya i Gornorudnaya Promyshlennost', No 1(79) Jan/Feb 73, pp 36-38

Abstract: In order to prevent E0100-E0300 electric steels from magnetic aging, which takes place primarily on account of nitrogen, an attempt was made to modify these steels with variadium, titanium, and boron. Magnetic properties, aging coefficient, and microstructure of modified steels were studied after 200 hours of heat treatment at 120°C. Addition of 0.02-0.033 Ti (as ferrotitanium) to molten steel almost completely suppressed the magnetic aging while the magnetic reversal losses were P

Higher amounts (0.04%) of titanium decreased considerably the size of grains. The aging of steel was completely suppressed with the addition of 0.03-0.06% V (as ferrovanadium) but the magnetic reversal losses were P1.5/50 > 9 W/kg.

High magnetic reversal losses in this case are attributed to small ferrite prains formed in steel (10-9 relative units, control 8-9 relative units).



USSR

KAMZINA, L. S., KRAYNIK, N. N., GENE, V. V., and MYL'NIKOVA, I. Ye., Institute of Semiconductors, USSR Academy of Sciences UDC 537.226.33:535.551

"Elasto-Optical Effect in Ferroelectric Materials With a Diffused Phase Transition"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Fizicheskava, Vol 35, No 9,

Abstract: The authors investigate the elasto-optical effect in ferroelectric materials with diffused phase transition PbMg1/3Nb2/303(PMM) and PbZn1/e Nb2/303(PZN). They determine the magnitude of the half-wave mechanical stresses in the wavelength band of 4000-7000 Å and measure the variation with temperature of the piezooptical coefficients  $\pi_{11}$   $\pi_{12}$ . They also find the dependence of the slope of the double refraction An on the size of the mechanical load in the area of diffusion of the phase transition. The authors find that a study of the elasto-optical properties of perovskite type ferroelectric materials parmits a better understanding of the nature and character of the diffused phase transition and enables the researcher to distinguish the true electro-optical effect in the total effect; they

USSR

KAMZINA, L. S., et al., <u>Izvestiva Akademii Nauk SSSR</u>, <u>Seriya Fizicheskava</u>, Vol 35, No 9, Sep 71, pp 1862-1864

feel that such investigations are of great practical significance. They show graphically the temperature boundary of diffusion for PNN and PZN. The article contains 3 illustrations, 1 table, and 4 bibliographic entries.

2/2

- 77 -

1/2 015 UNCLASSIFIED PROCESSING DATE--20NOV7C TITLE--SPECTROPHOTCMETRIC STUDY OF NICKEL AMMONIA COMPLEXES -U-

AUTHOR-(03)-MYLNIKOVA, V.M., ASTAKHOV, K.V., BARKOV, S.A.

CCUNTRY OF INFO--USSR

SCURCE-ZH. FIZ. KHIM. 1970, 44(3), 560-3

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--SPECTROPHUTGMETRIC ANALYSIS, NICKEL COMPLEX, AMMONIA, SPECTROPHOTGMETER/(U)SF4A SPECTROPHOTOMETER

CENTROL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME--3002/1195

STEP NO--UR/0076/70/044/003/0560/0563

CIRC ACCESSION NO--APOLZ8613

UNCLASSIFIED

CIRC ACCESSICN NO--APOLZ8613

ASSTRACT/EXTRACT--(U) GP-O- ABSTRACT. SPECTROPHOTOMETRIC METHOD IS USED TO STUDY THE FORMATION OF NI, MH SUB3 COMPLEXES IN AQ. SULN. THE DETD. OR F,4A SPECTROPHOTOMETER AT 500-730 NM. THE COMPNS. OF THE SULNS. WAS COMPLEXES FURNED AND THE 1ST 3 INSTABILITY CONSTS. HERE DETD. THE PK SUB1, PK SUB2, AND PK SUB3 VALUES FOR NINH SUB3 PRIMEZ PUSITIVE WERE MCSK. GURGD. PECAGOG. INST.IM. LENINA, MOSCOW, USSR.

UNCLASSIFIED

PROCESSING DATE-300CT70 TITLE--SPECTROPHOTCMETRIC STUDY OF THE COMPLEXING OF NICKELLIN) WITH TRIAMINOTRIETHYLAMINE -U-AUTHOR-(02)-MYLNIKOVA, V.M., ASTAKHOV, K.V. COUNTRY OF INFO--USSR SOURCE--ZH. FIZ. KHIM. 1970. 44(2), 512-14 DATE PUBLISHED 70 TOPIC TAGS-SPECTROPHOTUMETRIC ANALYSIS, NICKEL COMPLEX, ORGANONICKEL COMPOUND, ORGANIC COMPLEX COMPOUND, AMINE DERIVATIVE CONTROL MARKING-NO RESTRICTIONS STEP NO--UR/0076/70/044/002/0512/0514 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2171 CIRC ACCESSION NO--APO125751 UNCLASSIFIED 

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PROCESSING DATE--300CT70 UNCLASSIFIED CIRC ACCESSION NO-AP0125751 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE COMPLEX FORMATION IN THE SYSTEM NICL SUB2 TRIAMINOTRIETHYLAMINE (TREN) WAS STUDIED PHOTUMETRICALLY IN THE PH RANGE 2-10 AT 560 AND 940 MM. AT PH 4.7 A COMPLEX IS FORMED WITH AN OPTIMAL PH RANGE OF 5.9-8.4 FOR ITS FORMATION. THE ISCHOLAR SERIES METHOD GIVES 1:1 COMPN. OF THE COMPLEX IN THAT RANGE. AT HIGHER PH VALUES THE ABSORBANCE DECREASES AS A RESULT OF THE COMPLEX FORMATION IS ASSUMED TO PROCEED HYDROXOCOMPLEXES. ACCORDING TO: NI PRIMEZ POSITIVE PLUS (TRENH SUB3) PRIMES POSITIVE EQUALS NI(TRENH) PRIMES POSITIVE PLUS 2H PRIME POSITIVE (PH EQUALS 4.9-5.4) WITH INSTABILITY CONST. K EQUALS 1.4 TIMES TO PRIME NEGATIVE 10 AND NI PRIMEZ POSITIVE PLUS (TRENH SUB3) PRIMES POSITIVE EQUALS NI(TREN) PRIMEZ POSITIVE PLUS 3H PRIME POSITIVE (PH EQUALS 5.4-5.8) WITH K EQUALS FACILITY: MOSK. GOS. PEDAGOG. 1.56 TIMES 10 PRIME NEGATIVEIS. INST. IM. LENINA, MOSCOW, USSR.

UNCLASSIFIED

UNCLASSIFIED

AUTHOR-(02)-MYLNIKOVA, V.M., ASTAKHOV, K.V. management remains respectively and the CCUNTRY OF INFO-USSR

TRIMETHYLENEUIAMINE -U-

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TITLE--SPECTRUPHOTCMETRIC STUDY OF THE COMPLEXING OF NICKELII WITH

SOURCE--ZH. FIZ. KHIM. 1970, 44(4), 1084-6

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-SPECTROPHOTOMETRIC ANALYSIS, NICKEL COMPLEX, DIAMINE, IONIC

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1165

STEP NO--UR/0076/70/044/004/1084/1086

PROCESSING DATE--20NOV70

CIRC ACCESSION NO--APOL28587

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

PROCESSING DATE-- 20NOY70 UNCLASSIFIED 015 2/2 CIRC ACCESSION NO-AP0128587 ABSTRACT. SPECTROPHOTOMETRIC INVESTIGATION ABSTRACT/EXTRACT--(U) GP-0-OF 0.01 M NICL SUB2 AND 0.084 M TRIMETHYLENEDIAMINE (A) SOLNS. INDICATES FORMATION OF COMPLEXES NIA PRIMEZ POSITIVE AT PH 7.007.6. NIA SUBZEH SUB3 POSITIVE AT PH 8.2-8.5. NIA SUB2 PRIMEZ POSITIVE AT PH 8.5-8.9. AND NIA SUB3 PRIMEZ POSITIVE AT PH LARGER THAN 10.8. FROM MEASUREMENT AT 20 PLUS CR MINUS 2DEGREES IN SOLNS. WITH IGNIC STRENGTH D.1 (KCL), THE EQUIL. CONSTS. FOR THE FOLLOWING REACTIONS WERE CALCO.: NI PRIMEZ POSITIVE PLUS AH SUB2 PRIMEZ POSITIVE EQUALS NIA PRIMEZ POSITIVE PLUS 2H PRIME POSITIVE, K EQUALS 4.07 TIMES 10 PRIME NEGATIVE14; NIA PRIMEZ POSITIVE PLUS AH SUB2 PRIMEZ POSITIVE EQUALS NIA SUB2 H SUB3 POSITIVE PLUS H PRIME POSITIVE. K EQUALS 1.05 TIMES 10 PRIME NEGATIVET; AND NIA PRIMEZ POSITIVE PLUS AH SUBZ PRIMEZ POSITIVE PLUS ZH PRIME POSITIVE, K EQUALS 3.98 TIMES 10 PRIME NEGATIVE16. FACILITY: MOSK. GOS. PEDAGOG. INST. IM. LENINA, MOSCOW, USSR. UNCLASSIFIED 

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UNCLASSIFIED

PROCESSING DATE--04DECTO

TITLE--VARIABILITY OF POLYHEDRA FORMS IN TISSUE CULTURES OF INSECTS

WINFECTED WITH NUCLEAR POLYHEDROSIS VIRUS -U-AUTHOR-MYLOSERDOVA, V.D.

COUNTRY OF INFO--USSR

SOURCE--MIKROBIOL ZH (KYYIV) 32(1): 82-86. ILLUS. 1910

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-INSECTA, REPRODUCTIVE SYSTEM, TISSUE CULTURE, VIRUS DISEASE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/0487

STEP NO--UR/0438/70/032/001/0082/0086

CIRC ACCESSION NO--APO134255

UNCLASSIFIED

PROCESSING DATE--04DEC70 UNCLASSIFIED 2/2 022 CIRC ACCESSION NO--AP0134255 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE FORMATION OF POLYHEDRA OF ABERRANT SHAPE WAS OBSERVED AFTER INFECTION OF CULTIVATED CELLS FROM TESTICULAR CYSTS OF BOMBYX MORI L. PUPAE. IT WAS ESTABLISHED THAT WITH INCREASE OF TEMPERATURE UP TO 28-32DEGREES THE NUMBER OF POLYHEDRA HAVING AN ALTERED SHAPE INCREASES UP TO 52-76PERCENT RESPECTIVELY. TEMPERATURE CONDITIONS HAVE AN EFFECT ON TIME OF MANIFESTATION OF VIRUS INFECTION (FORMATION OF POLYHEDRA). WITH A RISE OF TEMPERATURE UP TO 320EGREES, POLYHEDRA ARE FOUND IN 24 HR. AT ROOM TEMPERATURE THEY ARE FACILITY: INST. MIGROBIOL. VIROL., FORMED ONLY ON THE 4TH DAY. ACAD. SCI. UKR. SSR, KIEV, USSR. - UNCLASSIFIED 

UNCLASSIFIED PROCESSING DATE--- 20NOV70 TITLE--NEW PHASE TRANSITION IN TRIGLYCINE SELENATE AT HIGH PRESSURES -U-

AUTHUR-103)-MYLGV, V.P., CHURAGULOV, B.R., LEGNIDOVA, G.G.

CCUNTRY OF INFO--USSR

SOURCE-FI2. TVERD. TELA 1970, 12(4), 1288-9

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CRGANOSELENIUM COMPOUND, ORGANIC CRYSTAL, HIGH PRESSURE, THERMAL EFFECT. PHASE TRANSITION, THERHOGRAM, GLYCINE

CENTRUL MARKING-NG RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3005/0011

STEP NO--UR/0181/70/012/004/1288/1289

CIRC ACCESSION NO--APO132311 UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

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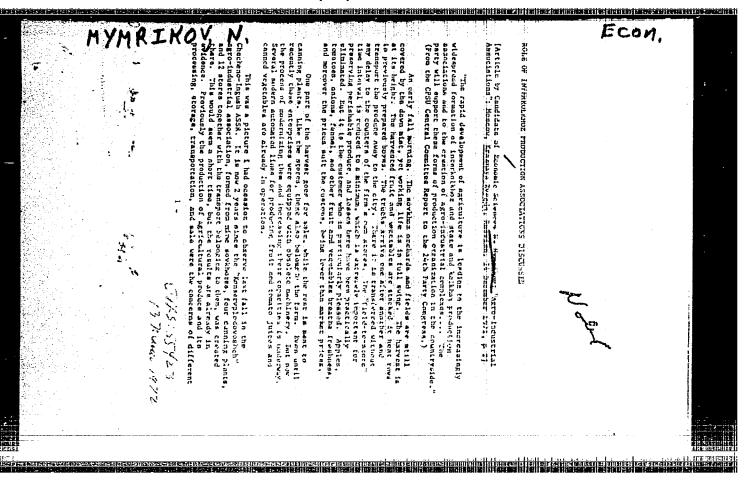
CIRC ACCESSICN NO--APO132311

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN TRIGLYCINE SELENATE CRYSTAL (NH
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN TRIGLYCINE SELENATE CRYSTAL (NH
SUB2 CH SUB2 COUGH)SUB3.H SUB2 SEO SUB4 THE 1ST ORDER PHASE TRANSITION
WAS INVESTIGATED AT HIGH PRESSURED BY THE DTA METHOD. IT FOLLOWS FROM
WAS INVESTIGATED AT ROUM TEMP. THAT IN ADDN. TO THE KNOWN TRANSITION
THERMOGRAMS OBTAINED AT ROUM TEMP. THAT IN ADDN. TO THE KNOWN TRANSITION
AT 6.5 KILOJARS THERE IS A NEW PHASE TRANSITION AT 13.6 KILOJARS. BOTH
AT 6.5 KILOJARS THERE IS A NEW PHASE TRANSITION STEFFECTS. THE NEW PHASE
TRANSITION IS REVERSIBLE. IT IS CHARACTERIZED BY HYSTERESIS IN PRESSURE
TRANSITION IS REVERSIBLE. IT IS CHARACTERIZED BY HYSTERESIS IN PRESSURE
TRANSITION IS REVERSIBLE. THE STANSITION
OF APPROX. 1.5-2 KILOBARS.

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departments. Under these conditions it was difficult to achieve complete coordination in the work of all the elements. As a result a proportion of the fruit and vegetables sometimes failed to reach a market, and production efficiency was reduced.

The situation is now completely different. The fusion of enterprises from the different sectors into a single economic unit and the greation of a unified leading organ have opened the vay for comprehensive planning of the production, processing, and make of the sevences produce. The areas under orchards and market-pardens are now being increased in complete accordance with the compiling plants and stores' requirements for fruit and accordance with the compiling plants and stores' requirements for fruit and accordance with the complete. vegetables. The plants' canocities are, in turn, being extended in proportion to the growth of resembertals production in the scotlines, it the volume of produce bring sold through the stores is being diversined dependence on the population's demand and the southboxes' potential. 11

In addition, an appreciable uppurze has occurred in the economics of areas under vegetable crops, for example, increased 1,3 times, vegetable production increased 1,4 times, and sales increased 1,3 times, vegetable production increased 1,4 times, and sales increased 1,3 times. Whereas previously some sowthouse very sustaining lesses, now they are all working at a profit. The canning plants' production output increased by 20 million standard-size came in a year. Vegetable sales in the stores increased by 10 percent, and fruit sales increased by 57 percent, in eight months of the current year 21% tanns more fruit, 300 tens sorts welon crops, and 900 come were vegetables than last year were sold to the population. The quality of the produce rose appreciably, the range was extended, and the tense was extended. quality of the prod distribution costs

The creation of the association made it possible not only for the production and economic indicators of all its subdivisions to be raised, the link between them to be simplified, and reductions to be superfluous at aff but also for the utilization of the available monetary resources in one pair of hands sale it possible for the association to construct for irael large, improved warehouses, refrigerated sibres, bothoures, automatic production lines, cultural and everyday projects, so so forth. The "Konservplodovoshch" association is confidently gaining etrength, developing, and improving. The following figures restify to its present octals. The strength market parkets and orchards has been extended to alreat 10,000 hectares. More than 8,000 personnel work in the association. The plants' canned goods output is over 1 million cans per day. projects, and

APPROVED FOR RELEASE: 07/20/2001

There are many associations of this kind. They exist in the Utraine, Moldavia, Uzbakistan, the Kuban area and other regions. The process of their formation is law-governed and is caused by the rise in the level of development of production forces and by the infiltence of scientific and technical progress. While agriculture is a sector which supplies raw material for industry, under the present conditions it is simultaneously becoming increasingly active in

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CIA-RDP86-00513R002202130003-8"

USSR

PRELOVSKAYA, R. D., GIMBURZHEVSKAYA, M. F., MYMRINA N. J.

"Analysis of Production Program with Various Criteria of Optimality"

Tr. Arkhang. Lesotekhn. In-ta [Works of Arkhangl'sk Institute of Forestry], 1971, Vol 31, pp 89-94, (Translated from Referativnyy Zhurnal, Kibernetika, No 3, 1972, Abstract No 3 V473).

NO ABSTRACT.

1/1

PROCESSING DATE--230CT70 UNCLASSIFIED TITLE-EVALUATING THE WATERPROOFING CAPACITY OF PAINT AND VARNISH COATINGS APPLIED ON CAPILLARY POROUS MATERIALS -U+

AUTHOR-(03)-LEPARSKIY, L.O., MYSHELDVA, G.N., GORGUNOVA, R.I.

COUNTRY OF INFO--USSR

SOURCE--LAKOKRASOCH. MATER IKH PRIMEN. 1970, (1), 57-8

DATE PUBLISHED---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--WATERPROOFING, PAINT, VARNISH, WOOD, ENAMEL, ALKYD RESIN, UREA RESIN, POLYESTER RESIN/ (UIMALIH DIL BASE COATING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0425

STEP NO--UR/0303/70/000/001/0056/0058

CIRC ACCESSION NO--APO119361

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

UNCLASSIFIED PROCESSING DATE--230CT70

CIRC ACCESSION NO--APO119361

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. AN APP. IS DESCRIBED FOR DETG. THE
INTERNAL STRESS (SIGMA) DUE TO SWELLING WHEN A MATERIAL ABSORBS WATER.
THE SAMPLE IS KEPT AT A CONST. TEMP. AND VOL. IN WATER AND THE INCREASE
IN SIGMA WITH TIME IS DETD. ALTERNATIVELY, THE DECREASE OF SIGMA DURING
DRYING AT CONST. VOL. CAN BE DETD. THE APP. WAS USED TO DET THE SIGMA
OF UNCOATED PINEWOOD AND OF PINEWOOD COATED WITH VARIOUS ENAMELS.
NATURAL OIL BASED COATING MA-11H WAS FOUND TO PREVENT WOOD SWELLING IN
WATER BETTER THAN COM. ALKYD UREA OR POLYESTER COATING.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202130003-8"

USSR

UDC: 532.516

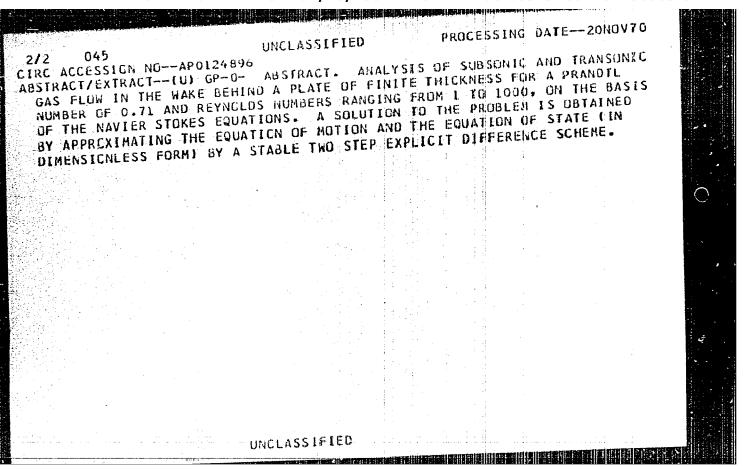
#### MYSHENKOV, V. I.

"Investigation of the Development of Flow Detachment Behind a Plate by Numerical Solution of Navier-Stokes Equations"

Tr. Sektsii po chisl. metodam i gaz. dinamike 2-go Mezhdunar. kollokviuma po gazodinamike vzryva i reagiruyushchikh sistem. 1969. T. 1 (Works of the Section on Numerical Methods and Gas Dynamics of the Second International Colloquium on Gasdynamics of Explosion and of Reacting Systems), Moscow, 1971, pp 67-82 (from RZh-Mekhanika, No 5, May 72, Abstract No 5B890)

Translation: The author considers the problem of flow of a viscous gas in the wake behind a plate of finite thickness. The problem is solved numerically by the method of adjustment on an explicit difference scheme of the second order of accuracy of the Laks-Vendrov type. An infinite region is considered which is transformed by substitution of variables into the rectangle  $0 \le x \le 1$ ,  $0 \le y \le 1$ . The problem is solved for Reynolds numbers  $1 \le R \le 100$ , and Mach numbers  $0.288 \le M \le 2$ . It is shown that a region of detachment develops and grows behind the plate as the Reynolds number increases, and also that an increasing Mach number stabilizes the flow. Stream lines and pressure distribution are given for different R and M. T. V. Kuskova.

PROCESSING DATE-20NUV70 TITLE-SUBSUNIC AND TRANSONIC FLOWS OF A VISCOUS GAS IN THE WAKE OF A FLAT BCDY -U-AUTHOR-MYSHENKOV, V.I. COUNTRY OF INFO--USSR SCURCE-AKADEMIIA NAUK SSSR, IZVESTIIA, MEKHANTKA ZHIDKUSTI I GAZA, MAR.-APR. 1970, P. 73-79 DATE PUBLISHED----70 SUBJECT AREAS-PHYSICS TOPIC TAGS--SUBSCNIC FLOW, TRANSONIC FLOW, VISCOUS FLUID, WAKE FLOW, PRANOTE NUMBER, REYNOLDS NUMBER, NAVIER STOKES EQUATION, HOTION EQUATION, GAS FLOW CENTREL MARKING-NO RESTRICTIONS STEP NO--UR/0421/70/000/000/0073/0079 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1244 CIRC ACCESSION NO--APO124896 UNCLASS TE LEO



AP0031633 Acc. Nr.:

Ref. Code: UR 0219

PRIMARY SOURCE: Byulleten' Eksperimental'noy Biologii i Meditsiny, 1970, Vol 69, Nr 1, pp //-/.3

INVESTIGATION OF RELATIONSHIP BETWEEN PHASES OF THE RESPIRATORY CYCLE AND FLUCTUATIONS OF BIOPOTENTIALS IN THE CEREBRAL CORTEX OF THE RABBIT

I. Yu. Myshkin (Moscow)

Relation between background and reactive fluctuations of hippotentials in the visual cortex (area striata) and respiratory cycle phases was elicited in tests on 15 non-anesthetized rabbits through machine-made analysis. This correlation was inconstant and in 90% of observations the ratio between the biopotential fluctuations amplitude associated with respiratory phases and the mean summary EEG amplitude was not more than 3%. Permanent and deeper association in normal conditions is an artefact. but recurrent periods of short-term amplification of such a correlation appears to be a characteristic feature.

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REEL/FRAME

19691760

Acc. Nr: A PO 044847

Ref. Code: UF 04497 1970, Vol. 48,

PRIMARY SOURCE:

Klinicheskaya Mediksina, Nr 2 , pp /49-/5/

THE DIAGNOSIS OF INTRATHORACIC NEOPLASMS ON THE BASIS
OF MATHEMATICAL ANALYSIS

K. I. Myshkin, L. A. Migal

Summary

The problem of the search of new differential diagnosis signs of solleroid initathoracic neoplasms is still pressing in connection with the absence of accurate methods of diagnosis. As one of the new trends the authors propose to utilize mathematical analysis of the symptom-As one of the new trends the authors propose to utilize mathematical analysis of the symptom-complex of tumors and cysts of the lung and mediastinum. By means of a specially elaborated complex of tumors and cysts of the lung and mediastinum. By means of a specially elaborated scheme the authors coded the case histories of 300 patients operated for the above-mentioned scheme the authors coded the case histories of 300 patients operated for the sum total of the creation of a differential diagnosis table based on the determination of the sum total of the creation of a differential diagnosis table based on the determination of the sum total of the creation of the most characteristic symptoms selected by the computer. With due consideration of the critical value the table enables to answer three most important practical quederation of the critical value the table enables to answer three most important practical quederations; malignant or benign characteristic of the disease, tumor or cyst, pulmonary or extrapulmostions; malignant or benign characteristic diagnoses. The results testily to the perspective nature the preoperative and postoperative diagnoses. The results testily to the perspective nature the preoperative and postoperative diagnoses of spheroid neoplasms of intrathoracic localization.

REEL/FRAME 19771702

Acc. Nr: AP0044607

Ref. Code: UR0497

PRIMARY SOURCE: Klinicheskaya Meditsina, 1970, Vol 48,

Nr / . pp 66-70

MATHEMATICAL ASSESSMENT OF THE IMPORTANCE OF SYMPTOMS IN THE DIFFERENTIAL DIAGNOSIS OF ACUTE PANCREATITIS AND PERFORATING GASTRIC ULCER

K. I. Myshkin, L. A. Frankfurt, M. V. Kolfsova

Summary

By means of mathematical treatment on cUrals-29 electron computer of 320 case histories of patients suffering from acute pancreatitis and perforating gastric ulcer the authors have elaborated an original table of weight values of symptoms which enables to carry out the differential diagnosis between these two diseases. Verification of the diagnostic value of the table on another 330 case histories has demonstrated that the error comprised only 4 per cent and thus is not inferior to routine differential diagnosis. The authors are of the opinion that the proposed table as an accumulator of extensive clinical experience may in the first place be of essential aid to the inexperienced physician and in the second place be an important element in the programmatic teaching of clinical surgery.

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UDC 615.216.6:547.831.8].012.1

KOZELLO, I. A., GASHEYA, A. YA., ACLITEKAYA, K. V., and MESHKIT, H. H., All-Union Scientific Chemical-Pharmaceutical Research Institute Imeni S. Ordzhonikidze, Ural Branch, Sverdlovsk

"Synthesis of 4[1H]-Quinclone Berlvatives. II. 1-(N',N'-Dialkylaminoelkyl)-4-quinolones and Their Quaternary Salts"

Moscow, Khimiko-Parmatsevticheskiy Zhurnal, Vol 6, No 4, Apr 72, pp 28-30

Abstract: A mixture of 1.45 g 4-hydroxyquimoline, 4.74 g d'-dimethyleminopeopol chloride hydrochloride (obtained from dimethyleminopropanol and thioryl chloride), and 50 ml absolute ethanol was refluxed for 10 hrs. The mixture was cooled and a sodium ethanide solution prepared from 1 g sodium and 25 ml ethanol was alread; the mixture was refluxed again for a long time, filtered, and evanorated. The residual oil was dissolved in ethanol and acidified with ethanolic MCL, pure-cipitating the crystalline dihydrochloride of 1-(3'-dimethylaminopropyl)-4-quinolone, m.p. 260-262° (I). Similarly, the 1-(3'-dimethylaminosthyl)- (II), and 1-(3'-diethylaminosthyl)-4-quinolone (III), m.p. 249-310 and 258-60°, respectively, were obtained. To obtain the di-(methiodicus) of showe compounts, respectively, were obtained. To obtain the di-(methiodicus) of showe compounts, (II), (II), or (III) were dissolved in benzene, methyl iodicus was added, the mixture was kept for 5 hrs at 35-k0°, cooled, and benzene was evaporated. The

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KOZBILO, I. A., et al., Khimiko-Farmatsevticheskiy Zhurmal, Vol 6, No 4, Apr 72, pp 28-30

residual oil was suspended in alcohol, and the solid formed was filtered at  $60^{\circ}$  in the dark. The product -- di-(methiodides) of (I), (II), and (III) melt at  $227-28^{\circ}$ ,  $204^{\circ}$ , and  $205^{\circ}$  respectively.

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PROCESSING DATE--04DEC70

TITLE--6. HYDRAZINOPYRIMIDO, 4, 5, 8, 1, 4, THIAZINES OR

6. HYDRAZ INOPYRAZINO, 2, 3, B. 1, 4, THIAZINES -U-

AUTHOR-(03)-SAFONOVA, T.S., NEMERYUK, M.P., MYSHKINA, L.A.

COUNTRY OF INFO--USSR

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SOURCE--U.S.S.R. 265,110 REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, DATE PUBLISHED--O9MAR70

SUBJECT AREAS--CHEMISTRY, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--HYDRAZINE ORGANIC COMPOUND, PYRIMIDINE, DRGANIC SULFUR COMPOUND, ORGANIC SYNTHESIS, CHEMICAL PATENT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1767

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0137007

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