"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203120002-9 UDC 531.3 USSR SOKOLOVA, L. Ye-"Characteristic Indicators of the Vanishing Solutions of a Gyroscopic System With Partial Dissipation" Moscow, Mekhanika Tverdogo Tele, No 6, Nov-Dec 72, pp 19-26 Abstract: An investigation is made of the influence of partial dissipation, which stabilizes the position of equilibrium to asymptotic stability, upon the form of the roots of the characteristic equation of a gyroscopic holonomic system, with stationary bonds and a force function that does not depend explicitly upon time, with large dissipation and with small dissipation. The reasoning is illustrated by an example. 5 references. 1/1APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203120002-9"



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CIRC ACCESSION NOATO1254 ABSTRACT/EXTRACT(U) GP-U SIMPLE OBJECTS DURING SU HOLOGRAMS ON THE SAME SU POSSIBILITIES OF THIS T ACCOUNT THE EFFECT OF NU PHOTOEMULSIONS. IT IS INVERSELY PROPORTIONAL INCREASES WITH AN INCRE	EGMENT OF A PHOTOSENSIT YPE OF RECORDING ARE ES OISE ARISING AS A RESUL SHOWN THAT THE SIGNAL TO THE SQUARE OF THE NU ASE IN THE NUMBER OF LI	THE QUALITY OF IMAGES OF A LARGE NUMBER OF IVE SURFACE. THE MAXIMUM TABLISHED, TAKING IMTO THE GRAININESS OF THE TO, NOISE RATIO IS MHER OF PHOTOGRAPHS AND CAT SENSITIVE ELEMENTS OF
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THE PARAMETER 1/2 027 PROCESSING DATE--230CT70 UNCLASSIFIED TITLE--DESIGN PRINCIPLES OF HOLOGRAPHIC MEMORY DEVICES -U-AUTHOR-{04}-MIKAELIANE, A.L., BOBRINEY, V.I., NAUMOV, S.M., SOKOLOVA, L.Z. المنافية بمنافية المنافية وتدامله والمنافقة * 426.782.800 * 126.742.800 * 126.742.800 COUNTRY OF INFO--USSR SOURCE--IEEE J. QUANTUM ELECTRONICS USA), VOL. QE.6, NO. 4, P. 193-8 (APRIL 1970) DATE PUBLISHED---APR 70 SUBJECT AREAS--BEHAVIORAL AND SOCIAL SCIENCES, ELECTRONICS AND ELECTRICAL ENGR. TOPIC TAGS--HOLOGRAPHY, MEMORY ELEMENT, INFORMATION STORAGE AND RETRIEVAL, HOLOGRAM CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0072 STEP NU--- US/0000/70/000/004/0193/0193 CIRC ACCESSION NO--AT0123844 UNCLASSIFIED

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"Thin-Film	1 Ceramic Capac	itors With H	igh Specific	Capacita	ince"	
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BOGDANOV, G. V., GOL'DBURT, S. N., ZUBOVA, T. S., SOKOLOVA, H. L.

"Comparison of Residual and Backward Hicrointerval Maskings by Means of Measuring Absolute Judgement of Loudness"

Leningrad, Fiziologicheskiy Zhurnal SSSR imeni I. H. Sechenova, Vol 57, No 6, 1971, pp 806-81?

Abstract: For clarification of both kinds of masking, the research objective described was to study changes in loudness within the same intervals. This is research not on relative, but absolute, loudness estimation; that is in comparison with a memory-retained standard. Micro-interval and information theory methods were combined for this purpose. Two experimental tasks were set: 1) determination of the amount of transmitted information (ATI) on pure tone loudness which followed, after a 30 to 980 m sec interval a stronger tone of the same frequency (residual masking) or preceded it by the same interval (backward nasking); 2) an error comparison was made, 1.e., the number of overand underestimations of loudness on both maskings. Results showed that the ATI on loudness in six categories of pure tone, under the described conditions of interference, showed a sharp ATI decrease not corresponding to concomitant threshold changes. ATI displacements in residual and backward mask-1/2

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BOGDANOV, G. V., et al., Fiziologicheskiy Zhurnal SSSR ineni I. M. Sechenova, Vol 57, No 6, 1971, pp 806-817

ings were not symmetrical. There was a contrast of dominant errors (overestimations with residual; underestimations with backward). This is seen as evidence of their differing origins.

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CIA-RDP86-00513R002203120002-9

Ref. Code: Abstracting Service: Acc. Nr: Ap004389 UR0528 CHEMICAL ABST. 3-70 • 65989k Level of nutrients and their uptake by pea plants in relation to fertilizers. Selectersecherity, Vesin. Scil'skokhoz. Nauki (Alma-Ata) 1969, 12(9), 31-5 (Russ). Soil contg. 2.4% humus, 0.170-0.180% total N, <30 mg nitrates/kg, ~0.2% total P, 25 mg available P/kg, 1.9% total K, and 57 mg H₂O-soil. K/kg was fertilized with the following combinations: (1) P₁₇; (2) P₂₀K₄₆; (3) P₁₃₅K₄₆; and (4) N₄₀P₄₉K₄₀, where the subscripts refer to the no. of kg/ha, and $P = P_2O_3$ and $K = K_2O$. The highest N and K in pea plants during the 3-7-leaf stages occurred after use of (4) variant. P content in the plants was considerably increased with (3), and was the highest during flowering. The K-O content in the plants increased considerably during the K₁O content in the plants increased considerably during the budding stage. The av. N:P₂O₅:K₃O ratio in the ripening seeds after the use of (4) was 56:10:34. Max. uptake of nu-trients by the plants from the soil was after the use of (2) and (3) variants. The use of (1), (2), and (3) considerably increased, seed yield. seed yield. REEL/FRAME 19770325

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CIA-RDP86-00513R002203120002-9

	UDC: 8.74
	SOKOLOVA, N. D., TSEGEL'SKIY, V. I. (Editors)
	"Software for the 'Minsk-32' Computer. No 1"
	Matematicheskoye obespecheniye EVM "Minsk-32". Vyp. 1. In-t. mat. AN ESSR, Minsk. filial. ni. tsentra elektron. vychisl. tekhn. (cf. English above. Institute of Mathematics, Academy of Sciences of the ESSR, Minsk Affili- ate of the Scientific Research Center for Electronic Computer Technology), Minsk, 1971, 136 pp, 40 k. (from <u>RZh-Kibernetika</u> , No 1, Jan 72, Abstract No 1V1035 K)
	Translation: This collection of papers deals with the requirements for library programs, and also contains descriptions of programs of translations, calculation of elementary functions and some methods of numerical analysis. The programs are written in the "Minsk-32" symbolic coding language. It is noted that the collection is meant to include materials of a procedural type, descriptions of general-purpose programs, and materials on individual components of the system of software for the "Minsk-32" computer.
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USSR

UDC 911.3.616.988.26(575.4)

KANTOROVICH, R. A., BYKOVSKIY, A. F., KIRILLOVA, F. M., and SOKOLOVA N

"Materials of Epidemiological, Virological, and Electron-Microscope Study of Hemorrhagic Fever Foci in Tadzhik SSR"

V sb. "Virusn. bolezni s.-kh. zhivotnykh. Ch. 2 (Virus Diseases of Farm Animals. Part 2), Moscow, 1970, pp 216-217 (from RZh-Meditsinskaya Geografiya, No 4, Apr 71, Abstract No 4.36.66)

Translation: The study revealed a relationship between Central Asian hemorrhagic fever and the foothill and low mountain type of geographic relief. Primary disease was chiefly observed in men aged 20-40 years, whose jobs required their being outdoors for prolonged periods in fields, pastures, etc. Results are presented for virological, cytological and electron microscope study of the agent.

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평가는 방법하는 RITOVA, V. V., et al., Voprosy Virusologii, No 3, May/Jun 71, pp 291-296 Diagnosis was confirmed serologically. All strains had high receptor activity and were antigenically identical. Neutralization tests showed that the 1969 flu virus is not a new serotype. A structural study showed that the virus consisted of spherical (diameter 2000-3500R) and filiform. (diameter of the nucleus 700-900Å, length to several microns) structures. Sera from guinea pigs and horses inhibited hemagglutination of the newly separated strains. The effect of sera was not completely renoved after heating to 57°C for 30 minutes and processing with KIO4; but was removed by treatment with cholera vibrios. Only two strains were inhibitor-resistant, all remaining strains Nere inhibitor-sensitive. The isolated strains were readily adaptable to white mice and from the second or third passage produced death and lung lesions in test animals. Also, in mice, the strains exhibited toxic properties. The immunological responses in convalescents and in immunized animals were high. 2/2 - 46 -

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CIA-RDP86-00513R002203120002-9

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UDC 576.858.75.095.57

USSR

PODCHERNYAYEVA, R. Ya., SOKOLOV, M. I., PARASYUK, N. A., MYASNIKOVA, 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 A₂ (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 M₂₀, resisted heating to 56°C. Like the original strains, they were completed adsorbed on chick crythrocytes but were more readily eluted from them. Neuraminidese activity was half that in the original strains. The pathological variants remained sensitive to normal animal scrum inhibitors and did not agglutinate mouse crythrocytes. They resembled the original strains in resistance to trypain, unca, and ultraviolet irradiation.

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CIA-RDP86-00513R002203120002-9

UDC 576.858.75.095 5 USSR SOKOLOV, M. I., PODCHERNYAYEVA, R. Ya., PARASYUK, N. A., <u>MYASNIKOVA, I. A.</u>, MEN'SKIKH, L. K., MOLIBOG, Ye. V., <u>SOKOLOVA</u>, N. N., and STANHAMOVA, V. M., Institute of Birology imeni D. I. Ivanovskiy, Academy of Medical Sciences, USSR, Moscow "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 variaties are required to elucidate this problem. 1/1

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CIA-RDP86-00513R002203120002-9

USSR

UDC \$91.185.5:599.4

KONSTANTINOV, A. I., and SOKOLOVA, N. N., Chair of the Physiology of Higher Nervous Activity, Leningrad State University iment A. A. Zhdanov

"The Possibility of Function of Bet Echolocation Without Participation of the Auditory Cortex"

Leningrad, Zhurnal Evolyutsionnoy Biokhimii i Fiziologii, Vol 6, No 3, May/Jun 70, pp 347-350

Abstract: Experiments were conducted on two bat species -- Hyotis exygnathus and Rhinolophus ferum-equinum. The first series of experiments studied the ability of intact M. exygnathus bats to everyone barriers of wines reduced in diameter from experiment to experiment (1,12, 0.55, and 0.20 mm); A total of eight M. exygnathus were subjected to bilateral extirpation of the auditory sections of the cortex. Analysis of 2,58; flights of intact M. exygnathus bats across wire barriers showed a reduction in the percentage of deflections with decreasing wire diameter. This is in direct relationship to the resolving power of the bat's echolocation intact enimals in avoiding wires and discriminating different targets. The consisted in experimental bats. The auditory cortex is apparently nonessential for

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CIA-RDP86-00513R002203120002-9

USSR UDC 51 SEMENOV, Ye. V., SOKOLOVA, N. N., SHIL'NIKOVA, G. M. "Solution of the Problem of Displaying Finished Production on an Hourly Graph" Tr. VNII moloch. prcm-sti. (Works of the All-Union Scientific Research Institute of the Dairy Industry), 1972, No. 28, pp 56-75 (from RZh-Matematika, No 11, Nov 72, Abstract No 11V496) Translation: The problem of displaying whole-milk production on an hourly graph is solved using a heuristic method. Programs for achieving a computer algorithm are described. Block diagrams are given. The order of the handling and processing of information under actual conditions is described. Authors abstract. 1/1- 74 -

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203120002-9

USSR UDC: 51 SEMENOV, Ye. V., SOKOLOVA, N. N. "Problem of Placement of Milk Industry Enterprises using Mathematical Economics Methods and Computer Equipment" Tr. WII Moloch. Prom-sti [Norks of All-union Scientific Research Inscitute of the Milk Industry], 1972, No 28, pp 5-14 (Translated from Referativnyy Zhurnal Kibernetika, No 11, 1972, Abstract No 11V486, by the authors) Translation: The problem of placement of milk industry enterprises is solved using mathematical programming methods. A variant statement of the problem is given, using the methods designed for transport problems.

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"Solution of the Pro Hourly Schedule"	blem of Delivery of Finished Products According to an	
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Translation: A solut	tion is an	
for realization of th presented. The order	tion is suggested for the problem of delivery of whole milk o an hourly schedule using a heuristic method. Programs are algorithm on a computer are described. Flow charts are of transmission and processing of information under described.	
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CIA-RDP86-00513R002203120002-9

UDC 632.954 -USSR DEVOCHKIN, F. A., SOKOLOVA, N. P., and OZDOYEV, B. A., "The Influence of Herbicides on the Anatomic Structure of the Husks of Onions" Moscow, Khimiya v Sel'skom Khozyastve, Vol 10, No 5, 1972, pp 45-48 Abstract: The influence of various doses of Phaloran and dacthal on cell structure in onions was studied in order to use the data in determining optimal dosages without damage to the cultivated crop. The experiment took place on the Mikhailovskoye education farm on onion cultures of the Timiryazevskiy type. Phaloran was applied in dosages of 8 and 10 kg/ha, the dacthal in dosages of 15 and 20 kg/ha. Various plots were treated with and without a peat mulch, which when used had a thickness of 1.5 cm. The phaloran plots were treated upon the appearance of weed seed leaves; the dacthal plots 2 days after plantings of onion seeds. After harvesting, the variously treated onions and controls were preserved, then thoroughly examined under a microscope. In the treated onions there was apparently more cell division but the cells were smaller, and this phenomenon was in direct proportion to the herbicide dosage. Apparently also the peat mulch adsorbed some of the herbicide, thus lessening its effect on the onion and 1/2

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USSR DEVOCHKIN, F. A., et al., Khimiya v Sel'skom Khozyastve, Vol 10, No 5, 1972, pp 45-48 increasing its toxicity for weeds. Cells of the outer husks underwent greater changes, while the herbicides had a weakened effect by the time the inner husks began to grow. Morphologic-anatomic analysis seems to offer the possibility of determining optimal herbicide dosages with minimal damage to cultivated crops. 2/2

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203120002-9

SOKOLOVA, N. S. "Leningrad za 50 Let (Leningrad Over a 50 Tear Period), statistical collection, 1967, p 130, Leningrad. **<u>Leningrad 1 Loningradokava Oblast' v Tsifraih</u> (Leningrad and Leningrad Oblest in Numbero), statistical collection, Leningrad, 1971, p 264. The uniqueness of the curve of birth rate dynamics was studied by the method of lasst squares. The equalized (hypothetical) line is indica-level (13000) to a minimum in 1970 (110/00). The angle of inclination of this rectified curve (II) in relation to the abscisse axis constituted 12°. We assumed that such a slope to the equalized line is determined to ome out this influence the birth rate in the last few years. To rule were re-equalized. The results of equalization are also plotted on of inclination of the new equalized line (II) of birth rate trend was rate was lower in this period than the vertices of our country, the birth was a fradual decline in birth rate from 1959 to 1967. For example, in 1960, this index.constituted 13.40/ms and in 1956 it was 11.30/ma, Start-ing in 1968, there was some rise in birth rate and in 1970 it was already 12.60/00^{AA} (Figure 1). Analysis of birth tata trends plays a certain part in forecasting of urbanization of the population, it is growing particularly important investigate different mapeets of birth tata in different large either of cur country. In the progent work we analyze some characteristics of the birth rate in Leningrad during the period from 1959 to 1970. Chair of Social Hypiono and Fublic Health Organization (Deaded by Proisson S.Na. Frydiin), First Teningrad Medical Institute Lawni I.P. Pavlav (head: V.A. Minyayev, Doctor of Medical Sciences); Moscow, <u>Soverskove Zdravo</u>-okirennniyy, Runsian, No 10, 1972, submitted 21 May 1972, pp 29-32] BIRTH RATE TRENDS IN LENINGRAD [Article by J.V. Polyakov, JAS 57493 13 75-72 In teningrad, as in all large cities of our councry, the bitch Candidate of Medical Sciences, , 1 37. -UDC: 614.1:312.1(470.23-25) 5 (\mathbb{C}) E COULTERS OF CONTRACT STREET

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CIA-RDP86-00513R002203120002-9

USSR MAYORCV, S. A., PETUKHOV, G. A., SKORUBSKIY, V. I., SOKOLOYA, N. S., CHESNOKOV, "Problem of Arrangement of Structural Units When Planning and Designing Digital Skaisiavimo technika, Vychisl. Tekhnika. T. 1 (Computer Engineering, Vol 1), Skaislavimo reculta, vychisl. lenning. 1. 1 (voundiel bugineering, voi 1), Kaunas, 1970, pp 275-279 (from RZh-Avtomatika, Telemekhanika i vychislitelnaya tekhnika, No 9, Sep 70, Abstract No 9B200) Translation: A generalized statement of the arrangement problem for devices of any level is presented by introducing the concept of the functional-structural unit and mounting space. The following steps in obtaining optimal arrangement are investigated: selection of the initial arrangement, optimization of the circuits connecting more than two contacts, processing the connection list, and improvement of the selected arrangement. The results of practical execution of the described problem on the Minsk-22 digital computer are presented. There is one illustration and a two-entry bibli-1/1 - Hitspanner ...

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SOKOLOVA, N. V. and PARCHEVSKIY, V. P., Ekologiya, No 5, 1972, pp 30-36

 Sr^{90} in the hair seal (Pusa hispida) found in the Sea of Okhotsk in 1969. The former element is a natural radionuclide and the latter is formed as a result of nuclear explosions; both enter the waters from the atmosphere. The coefficient of correlation was 0.94 for the ash content and 0.97 in terms of wet weight. Determinations of the equilibrium dose constants showed that the radionuclides of the Pb^{210} -Bi²¹⁰-Po²¹⁰ series are the major source of radiation

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KRUSSER, B. V., SOKOLOVA, P.			· ·	
"Method for Depositing Metal				
USSR Author's Certificate No 69, (from RZh-Elektronika i No 1A254P)	228068, filed 27 yeye primeneniye,	June 67, publi No 1, Jan 70,	shed 5 May Abstract	
Translation: A method is dem metal on the commutated side targer to improve modulation level of fluctuating noise at The deposition is conducted to out any control of the amount rejects in this operation qua for example, is proposed. It television picture produced to after tuning of the electron	of the glass film of the reasout be t the output of the in the sealed-off t of the metal be ality control of the t may be monitored by the image orthic	of the image am and to recu e electron-beam ng deposited. he deposition, by the qualit con. At the t	orthicon de the m tube. tube with- To reduce of silver y of the est unit,	-
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A0040518 rent of the readout beam is reduced to a magnitude corresponding to metal is connected to a voltage source and the evaporator of the with continuous visual control of the picture up to the moment of its bility of insufficient dusting (nedopyleniye) or over-dusting (perepyleniye) of the metal and makes it possible to obtain an optimum value of modulation in each sample of the image orthicon. I. M.

APPROVED FOR RELEASE: 09/01/2001
CIA-RDP86-00513R002203120002-9

USSR UDC 541.183.24 NIKOLAYEV, A. V., BOGATYREV, V. L., ZHURKO, F. V., VULINE, A. P., SOKOLOVA, S. I., LYUEMAN, N. YA., Institute of Inorganic Chemistry, Siberian Department, Academy of Sciences of the USSR "Ion Exchange Equilibrium Between Ionite Grains" Moscow, Doklady Akademii Nauk SSSR, Vol 198, 1971, No 1, pp 138-Abstract: Known formulas to determine the equilibrium state in the case of inter-grain affinity can be applied only if the interbond exchange by counterions takes place by the predominantly simple mechanism involved in direct contact between grain surfaces. If other factors besides contact play any considerable role (such as ionite hydrolysis), these must be considered as well, and be broucht into the formula for equilibrium state. The authors derive empirically several formulas for ion exchange between ionite 1/1 - 2 -

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CIA-RDP86-00513R002203120002-9

UDC 541.124 + 547.772.2 USSR OVSYANNIKOVA, L. A., and SOKOLOVA, Transformer, Institute of High Molecular Compounds, Kiev, Academy of Sciences USSR "Mechanism of the Formation of 1,1-Dimethylpyrazolinium-3-oxides" Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, Vol 4, Apr 70, pp 917-918 Acylation of N,N-dimethylhydrazine with anhydrides of A. P-unsaturated acids leads first to the formation of N. N-dimethylhydrazide of the acid, which then regroups at an elevated temperature to its tautomer -- 1,1-dimethylpyrazolinium-3-oxide. 1/1

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DATE PUBLISHED70					
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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203120002-9 2/2 021 CIRC ACCESSION NO--AP0134940 UNCLASSIFIED PROCESSING DATE--27NOV70 ABSTRACT/EXTRACT-- (U) GP-O- ABSTRACT. THE WAVE NO., THE INTENSITY, AND THE WIDTH AT MID POINT OF IR BANDS ASSIGNED TO AXIAL (ALPHA) OH GROUPS OF 2R,4R PRIME1, DISUBSTITUTED,4, HYDROXY,1,5, DIMETHYLPIPERIDINES (1) WERE ALL HIGHER THAN THOSE ASSIGNED TO THE EQUATORIAL (EPSILON) OH GROUPS. E.G. I (R EQUALS H, R PRIME1 EQUALS C TRIPLE BOND CH) HAD AN ALPHA OH BAND AT 3619 CH PRIME NEGATIVE1 AND AN EPSILON OH BAND AT 3611 CM PRIME NEGATIVEL. SIMILAR DIFFERENCES WERE FOUND WITH OTHER I IR AND R PRIMEL GIVEN): ME, C TRIPLE BOND CH: H, ET; AND ME, ET. ALPHA EPSILON OH BAND DIFFERENCES EXIST IN 4, (R, SUBSTITUTED), 4, HYDROXY, 2, METHYLDECAHYDROQUINOLINES (R IS ET OR C TRIPLE BOND CH). ANALOGOUS FACILITY: MOSK. INST. TONKOI KHIM. TEKHNOL. IM. LOMONOSOVA, MOSCOW, UNCLASSIFIED

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CIA-RDP86-00513R002203120002-9

UDC 665.55 USSR ISHCHUK, YU. L., SOKOLOVA, T. G., SINITSIN, V. V., and GOSHKO, N. S., "The Effect of Viscosity and the Degree of Purification of a Dispersion Medium on the Properties of Complex Calcium Lubricants" Kiev, Neftyanaya i Gazovaya Promyshlennöst', No 6, Nov-Dec 70, pp 37-39 The viscosity of dispersion medium and the extent to which Abstract: heavy aromatic materials have been removed from it have practically no effect on the stability of KCa-lubricants; presence of resinous materials lowers their stability. The effective viscosity of KCa-lubricants in positive temperature range drops with increased degree of oil purity and is hardly affected by the dispersion medium. Resinous substances lower the condensing action of the complex calcium soap. Changing the viscosity of dispersion medium or its purity exhibits no effect on the compressibility of oil from KCa-lubricant. Lubricants made of highly purified oils tend to harden at high temperatures. In general the use of high purity distillation oils lowers the mechanical stability of KCa-lubricants. 1/1 71 .

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Molecular Blology	
USSR UDC 578.6	2
YERSHOV, F. I., BYKOVSKIY, A. F., <u>URYVAYEY, L. V., SDKOLOVA, T. M.</u> , and ZHDANOV, V. M., Member Academy of Medical Sciences USSR, Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, Moscow	
"The Morphology of Hybrid Ribonucleoprotein Complexes (Pseudoviruses)"	•
Moscow, Doklady Akademii Nauk SSSR, Vol 210, No 5, 1973, pp 1206-1207	
Abstract: It was established in earlier work by Yershov et al (DAN SSSR, Vol 189, No 4, 882, 1969) that addition of the infectious RNA of the virus of Venezuelan equine encephalomyelitis to the fraction S 105 of the hyalo- plasm of chick embryo fibroblasts results in the formation of hybrid ribo- nucleoprotein (RNP) complexes (pseudoviruses) that consist of the virus RNA and cell proteins and differ from the virion RNP in regard to their sedi- mentation distribution and floating density. They are insensitive to the action of antivirus antibodies, but at the same time exhibit infectious activity. In the work reported at present, the morphology of the pseudo- viruses in question was studied by electron microscopy. It was established that the optimum ratio for the formation of the RNP complexes was 400 gamma virus RNA to 1.6 mg protein. On purification of the RNP complexes (pseudo- viruses) by centrifuging in a 10-30% density gradient of sucrose dissolved 1/2	
	USSR UEC 578.6 YERSHOV, F. I., BYKOVSKIY, A. F., <u>URYVAYEY, L. V., SOKOLOVA, T. M.</u> , and ZHDANOV, V. M., Member Academy of Medical Sciences USSR, Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, Moscow "The Morphology of Hybrid Ribonucleoprotein Complexes (Pseudoviruses)" Moscow, Doklady Akademii Nauk SSSR, Vol 210, No 5, 1973, pp 1206-1207 Abstract: It was established in earlier work by Yershov et al (DAN SSSR, Vol 189, No 4, 882, 1969) that addition of the infectious RNA of the virus of Venezuelan equine encephalomyelitis to the fraction S 105 of the hyalo- plasm of chick embryo fibroblasts results in the formation of hybrid ribo- nucleoprotein (RNP) complexes (pseudoviruses) that consist of the virus RNA and cell proteins and differ from the virion RNP in regard to their sedi- mentation distribution and floating density. They are insensitive to the activity. In the work reported at present, the morphology of the pseudo- viruses in question was studied by electron microscopy. It was established that the optimum ratio for the formation of the RNP complexes was 400 gamma virus RNA to 1.6 mg protein. On purification of the RNP complexes (pseudo- viruses) by centrifuging in a 10-30% density gradient of sucrose dissolved

CIA-RDP86-00513R002203120002-9

USSR YERSHOV, F. I., et al., Doklady Akademii Nauk SSSR, Vol 210, No 5, 1973, pp 1206-1207 in an isotonic phosphate buffer (0.1 M NaCl, 0.01 M phosphate buffer, pH 7.2) the fraction corresponding to the peak of RNP complexes (80 S) was collected and studied by means of an electron microscope. Centrifuging in a CsCl gradient was also carried out. Threads with a diameter of 25-30 Å and bundles of these threads were observed. The hybrid pseudovirus complexes resembled the virus RNP and differed from informophers in size and shape. 2/2 32 E BERRE 24 Shift

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URYVAYEV, L. V., e	t al., Voprosy Vi	rusologii, No 6	, Nov/Dec 72,	pp 670-676	
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cannot react readi	Ly with protein.	the fact that	logical signi	ficance of RNA:	
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OBUKHOV, A. P., SOKOLOVA, T. V Institute iseni A. F. Ioffe, L	And arel BARTENEV, S. S., Physico Technical ISSR Academy of Sciences	
"Study of Pore Size Distributi	ion in Sprayed Coatings"	
Poroshkovaya Metallurgiya, No	4, (100), Apr 71, pp 46-49	
methods. Mercury porosineter rared as a means of determining ings. The coatings were prepared Determinations of pore size by meter agreed well with each of by microphotographic methods. of $12.5 \pm 0.5\%$ by either hydr $11.6 \pm 0.5\%$ by the microphoto 0.3\% and 7.9 \pm 0.5\%, respective method measured the distribut that analysis by microphotographic because of the heterogeneous	tion in solids can be determined by several and metallographic analysis methods were com- ng pore size distribution in aluminum oxide coat- ared by gas flame spraying or plasma apraying. y hydrostatic suspension and the mercury porosi- ther but did not agree with the results obtained Gas flame-sprayed coatings showed a porosity ostatic suspension or porosimeter methods and graphic methods. Plasma spraying gave 9.3 ± vely. It was concluded that the porosimeter ion of pore size by the "narrowing" of sizes and aphic methods measured "edges." Therefore, particle forms in the coating operation, the	9.00 9.00 9.00 9.00
latter method is recommended.		
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	VOLOSOV, V. D., DUK	HOVNYY, A. M., KR	RYLOV, V. N.	, and SOKOLO	VA, T. V.	
	"On the Transformat the Second Harmonic	in the second se				
	V sb. Kvant. elektr Nc 2, Moscow, "Sov.	radio," 1972, pr	lectronics - p 101-102 (f	- Collection rom <u>RZh-Fizik</u>	of Works), a, No 10,	
	Oct 72, Abstract No			-formation 60	efficient of	
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	the radiation of a investigated. A tr	Nd laser operation ansformation coef	ng in a liee fficient of eity of 75 i	0.105% was ob	tained for a energy densit	y s
	the radiation of a	Nd laser operation ansformation coef	ng in a liee fficient of eity of 75 i	0.105% was ob	tained for a energy densit	: y
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USSR	UDC 616-001.26:616.15-07:541.135	
SOKOLOVA, V. A., and LA Institute	RIN, A. A., Chair of Biochemistry, Kiev Medical	
"Distribution of Electr Result of Irradiation"	olytes and Water in Whole Blood and Blood Plasma as a	
Kiev, Vrachebnoye Delo,	Vol 53, No 3, pp 122-124	
plasma content of sodiu with doses of 600 and 9 examined within 2, 7, 1 600 rads, and 2, 5, 7, 9 900 rads. It was catab in the blood and plasma irradiation. The conten either of the doses inco 11th to 14th days after the plasma content of so sodium was noted in rate	were performed to determine the whole blood and blood m, chlorine, and potassium after irradiation of rats 00 rads. The rats were sacrificed and their blood 4, 21, and 28 days after irradiation with a dose of 9, 11, and 13 days after irradiation with a dose of lished that the changes in the content of electrolytes depended on the dose and the time elapsed since at of sodium in whole blood of rats irradiated with reased somewhat, with the largest increase noted by the irradiation. Doses of 600 rads had no effect on podium; a marked increase in the plasma content of s irradiated with a dose of 900 rads, with the largest the to 13th days after the irradiation. The whole	

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SOKOLOVA, V. A., and LARIN, A. A., Vrachebnoye Delo, Vol 53, No 3, pp 122-124

blood and blood plasma content of chlorine increased insignificantly in the course of the experiments, with the largest increase noted on the 7th day after irradiation of the animals with a dose of 600 rads, and on the 5th and 16th days from the moment of irradiation with a dose of 900 rads. The potassium content in whole blood and blood plasma from animals irradiated with a dose of 600 rads decreased; it increased, however, in the blood plasma of the animals irradiated with a dose of 900 rads.

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CIA-RDP86-00513R002203120002-9

UDC 616-057:615.33.012.6]-097.3 USSR SOKOLOVA. V. G., and FILYUSHINA, Z. G., Institute of Labor Hygiene and Occupational Diseases, Gor'kiy "Immunobiological Shifts in Occupational Diseases Caused by Antibiotics" Moscow, Gigiyena Truda i Professional'nyye Zabolevaniya, No 10, 1971, pp 24-27 Abstract: Sixty-three female workers in a plant manufacturing penicillin and streptomycin and 24 hospital nurses were examined for sensitivity to these antibiotics and candidiasis antigen. The phagocytic reaction was also studied as an indicator of nonspecific immunity. Thirty-six of the 87 were allergic to the antibiotics and candidiasis antigen. The phagocytic activity of the neutrophils decreased in the first or absorptive phase of the process in 72 of those who had prolonged industrial contact with the entibiotics, but the intensity of digestion increased markedly in the second or digestive phase, apparently in compensation for the initial decrease. The bactericidal properties of blood plasma from those occupationally exposed to the antibiotics were twice as potent as the control. Thus the main factors in the pathogenesis of occupational disease caused by penicillin and streptomycin seem to be sensitization and impairment of immunological reactivity. 1/1ACTIVALY TRANSPORTATION AND A STATE AND A DESCRIPTION OF A DESCRIPTION OF

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USSR ASHBEL', S. I., ORESHKOVICH, I. V., and SOKOLOVA, Wenn Gamp, Gor'kiy Institute of Labor Hygiene and Occupational Diseases "Ventilation of Aerosol Inhalation Rooms" Moscow, Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kul'tury, Vol 36, No 1, 1971, pp 72-76 Abstract: The method of treating various diseases by letting patients inhale the aerosols of alkalis, antibiotics, sulf- patients inhale the aerosols of alkalis, antibiotics, sulf- anylamides, bronchodilators, antihistamine, vitamins, cortico- anylamides, proteolytic enzymes, and other drugs is becoming steroids, 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 of Gor'kiy were studied and found far from adequate. Each inhalation room accommodates three to six persons, each breathing iandifferent aerosol. Because of poor ventilation, significant a different aerosol. Because of poor ventilation, significant an "aerosol bouquet" and causing chronic diseases among the inhalation personnel. In contrast, the authors describe the inhalation room designed by them. It contains several individual chambers 1/2		UDC 615.835.5:628.83
"Ventilation of Aerosol Inhalation Rooms" Moscow, Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kul'tury, Vol 36, No 1, 1971, pp 72-76 Abstract: The method of treating various diseases by letting patients inhale the aerosols of alkalis, antibiotics, sulf- patients inhale the aerosols of alkalis, antibiotics, sulf- steroids, bronchodilators, antihistamine, vitamins, cortico- anylamides, bronchodilators, antihistamine, vitamins, cortico- steroids, 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 of Gor'kiy were studied three to six persons, each breathing 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 an "aerosol bouquet" and causing chronic diseases among the inhalation inhematic the authors describe the inhalation room designed by them. It contains several individual chambers	- - 11-	USSR Grand SOKOLONA Grand Gor'kiy
Kultury, vor 30, Mo 1, and 1, and 1 Abstract: The method of treating various diseases by letting patients inhale the aerosols of alkalis, antibiotics, sulf- patients inhale the aerosols of alkalis, antibiotics, sulf- anylamides, bronchodilators, antihistamine, vitamins, cortico- anylamides, proteolytic enzymes, and other drugs is becoming steroids, 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 of Gor'kiy were studied and found far promote adequate. Each inhalation room accommodates three to six persons, each breathing inhalation room accommodates three to six persons, each breathing residual amounts of various drugs remain in the air, yielding residual amounts of various drugs remain in the air, yielding an "aerosol bouquet" and causing chronic diseases among the an "aerosol bouquet" and causing chronic diseases among the inhalation personnel. In contrast, the authors describe the inhalation porson designed by them. It contains several individual chambers		"Ventilation of Aerosol Inhalation Rooms"
		Kultury, vor 30, no 1, and the second various diseases by letting Abstract: The method of treating various diseases by letting patients inhale the aerosols of alkalis, antibiotics, sulf- anylamides, bronchodilators, antihistamine, vitamins, cortico- anylamides, proteolytic enzymes, and other drugs is becoming steroids, 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 of Gor'kiy were studied and found far promadequate. Each inhalation room accommodates three to six persons, each breathing inhalation room accommodates three to six persons, each breathing residual amounts of various drugs remain in the air, yielding residual amounts of various drugs remain in the air, yielding an "aerosol bouquet" and causing chronic diseases among the an "aerosol bouquet" and causing chronic diseases among the inhalation personnel. In contrast, the authors describe the inhalation room designed by them. It contains several individual chambers

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USSR ASHBEL', S. I., ORESHKOVICH, I. V., and SOKOLOVA, V. G., Voprosy Kurortologii Fizicterapii i Lechebnoy Fizicheskoy Kul'tury, Vol 36, No 1, 1971, pp 72-76 which are closed during treatment, and a vontilation 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.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203120002-9

5SR	UDC 577.164.2:612.014.461	
OKOLOVA, V. I., Chair of Biochemistr		
The Effect of Vitamin C on Some Indi xperimental Hypoxia"	ces of Water-Salt Metabolism during	
iev, Ukrainskiy Biokhimicheskiy Zhur	mal, Vol 42, No 3, 1970, pp 372-376	
odium nitrate (15 mg/100 g body weig ats subjected to hemic hypoxia. The o the extracellular phase, since int his process. An analogous distribut rain and skeletal muscles. Hypervol very important factor in relation t he extracellular phase. Disorders is keletal muscles may be prevented by n the liver, kidney, and muscles, vi	in rats by intramuscular injection of th). Water was retained in tissues of increase in total water content was due tracellular water content decreased in tion of sedium ions was noticed in the lemia is thus accompanied by hyperhydremia, to the maintenance of osmotic pressure in in water distribution in the brain and administration of vitamin C. However, itamin C has no effect on water distribu- potassium is accumulated and extracellular increased synthesis of glycogen and protein	

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GORYUFROVA, N. A., CRLCV, V. M., SOKOLOVA, V. I., TSVETROVA, YE. V., and SHPEN'KOV, G. V., Fhysicotech.icel Institute imeni A. F. Iofree "Nethod of Preparing Copper-, Tin-, and Phosphorus-Base Single Crystals" USSR Authors' Certificate No 252289, Cl. 12c, 2, (Pol ^d), filed 11 Jun 68, published 30 Jul 70 (from RZh-Metallurgiya, No 3, Mar 72, Abstract No 30529) Translation: The method of preparing Cu, Sn-, and P-base single crystals, for example Cu ₂ SnP ₁₀ , at high temperatures is unique in that, in order to obtain a semiconductor compound possessing photoelectric sensitivity in the IR region of the spectrum, the crystallization process is carried on from solution in an Sn melt, with charge components taken in the following ratios (wt.%): Cu 36.7-37.7, Sn 17-17.8, P 44.8-46. Phosphorus is taken with an excess of 1-1.5 wt.% as compared with calculations. The process is conducted at LU00-1050° for 1-1.5 hr with subsequent slow cooling at a rate of 20 <u>4</u> 5 deg/hr.		USSR	Single Crystals UDC 621.315.592(088.8)	
"Method of Preparing Copper-, Tin-, and Phosphorus-Base Single Crystals" USSR Authors' Certificate No 252289, Cl. 12c, 2, (Pol ^d), filed 11 Jun 68, published 30 Jul 70 (from RZh-Metallurgiya, No 3, Mar 71, Abstract No 3G529) Translation: The method of preparing Cu, Sn-, and P-base single crystals, for example $Cu_{L}SnP_{10}$, at high temperatures is unique in that, in order to obtain a semiconductor compound possessing photoelectric sensitivity in the obtain a semiconductor compound possessing photoelectric sensitivity in the IR region of the spectrum, the crystallization process is carried on from solution in an Sn melt, with charge components taken in the following ratios (wt.%): Cu 36.7-37.7, Sn 17-17.8, P 44.8-46. Phosphorus is taken with an (wt.%): Cu 36.7-37.7, Sn 17-17.8, P 44.8-46. The process is conducted excess of 1-1.5 wt.% as compared with calculations. The process is conducted at 1,000-1050° for 1-1.5 hr with subsequent slow cooling at a rate of 20± 5 deg/hr.		GORYUNOVA, N. A., OR SHPEN'KOV, G. V., Phy	LOV, V. M., SOKOLOVA, V. I., TSVETKOVA, YE. V., and ysicotech.ical Institute imeni A. F. Ioffee	-
USSR Authors' Certificate No 252289, Cl. 12c, 2, (Bol ^d), filed 11 Jun 68, published 30 Jul 70 (from RZh-Metallurgiya, No 3, Mar 71, Abstract No 33529) Translation: The method of preparing Cu, Sn-, and P-base single crystals, for example $Cu_{1}SnP_{10}$, at high temperatures is unique in that, in order to obtain a semiconductor compound possessing photoelectric sensitivity in the obtain a semiconductor compound possessing photoelectric sensitivity in the obtain a semiconductor compound possessing photoelectric sensitivity in the obtain a semiconductor compound possessing photoelectric sensitivity in the solution in an Sn melt, with charge components taken in the following ratios (wt.%): Cu 36.7-37.7, Sn 17-17,8, P 44.8-46. Phosphorus is taken with an (wt.%): Cu 36.7-37.7, Sn 17-17,8, P 44.8-46. The process is conducted at 1000-1050° for 1-1.5 hr with subsequent slow cooling at a rate of 20± 5 deg/hr.		"Method of Preparing	Copper-, Tin-, and Phosphorus-Base Single Crystals"	
Translation: The method of preparing Cu, Sn-, and P-base single crystals, for example $Cu_{\perp}SnP_{10}$, at high temperatures is unique in that, in order to obtain a semiconductor compound possessing photoelectric sensitivity in the IR region of the spectrum, the crystallization process is carried on from solution in an Sn melt, with charge components taken in the following ratios (wt.%): Cu 36.7-37.7, Sn 17-17.8, P 44.8-46. Phosphorus is taken with an (wt.%): Cu 36.7-37.7, Sn 17-17.8, P 44.8-46. The process is conducted excess of 1-1.5 wt.% as compared with calculations. The process is conducted at 1000-1050° for 1-1.5 hr with subsequent slow cooling at a rate of 20 <u>+</u> 5 deg/hr.			, arazen al 120 2 (Pol ^d), filed 11 Jun 68,	
deg/hr.		Translation: The me for example Cu ₂ SnP ₁₀ obtain a semiconduct IR region of the spe solution in an Sn me (wt.%): Cu 36.7-37.	thod of preparing Cu, Sn-, and P-tase single crystals, , at high temperatures is unique in that, in order to for compound possessing photoelectric sensitivity in the ectrum, the crystallization process is carried on from alt, with charge components taken in the following ratios of the sector of the sector of the sector of the sector of the sector of the sector of	
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006 577. 391:612.014,463 SHANRAY, Ye. F., and SOKOLOVA, V. I., Chair of Biochemistry, Kiev Medical Institute "Ine Effect of Sublethal and Lethal Radiation Doses on Extracellular and Intracollular Distribution of Water in Certain Rat Tissues" Kiev, Ukrainskiy Biokhimichoski, Zhurnal, Vol 42, No 4, 1970, pp 494-498 Abstract: Ionizing radiation was found to lower the total water content in the brain, liver, kidneys, and skeletal muscles of rats. A lethal dose (900 R) had a more pronounced effect on dohydration than a sublethal dose (600 R). The decrease in total water content of the tissues was accompanied by an increase in the volume of plasma and extracellular fluid. Shifts in water distribution between the cell and its environment were more pronounced with lethal radiation. Irregularities in water balance between the cell and its environment occur prior to shifts in total water content and are more regular and distinct. Irregularities in water distribution may be due to irregularities in electrolyte distribution, since the exchange of sodium between the cells and the surrounding midium occurs prior to any shifts in total sodium content. Accumulation of excess modium in the extracellular space may lead to a transfer of water from the cells into the extracellular region. 1/1

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203120002-9 "APPROVED FOR RELEASE: 09/01/2001 Ref. Code: Abstracting Service: Acc. AP0100576 UR 0065 CHEMICAL ADST. 5-70 104301b Evaluating the activity of an aluminosilicate cracking catalyst. Sokolova, V. J.; Berg, G. A.; Morozov, B. F. (USSR). Khim. Terrivol. Topl. Masel 1970, 15(1), 17-21 (Russ). H as gas-carrier was said. with isooctane (I) or other raw material, heated, and fed into the reactor contg. 1 g cata-lyst at 550°C and the reaction products entered a chromatog. column packed with 0.3-0.4 mm firebrick contg. 15% quinoline and analyzed. The catalyst activity was detd. in relation to the amt. of H converted expressed as wt. % yield of the reaction products, detd. 30 min after feeding raw material into the reactor at space velocity 0.04-0.0035 hr⁻¹, remaining const. for another 2 hr. The relation between the conversion of I and activity coeff. of the catalyst was linear. The content of C₁H₆, obtained from secondary reactions, and butylenes as main reaction products depended on the sp. surface of the catalyst also, detg. its selectivity. The relation between the selectivity dutd. as above and the ratio of gasoline to coke yields was linear. The method was also used for detg. the effect of various impurities of the raw material and metal impurities of the catalyst on its activity and selectivity. Characteristics of various catalysts and results obtained are tabulated. The app. and exptl. results are graphically GGJR presented. REEL/FRAME 19842011 nt. i٨

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DC 546.779 USSR NIKOLAYEV, A. V., SOKOLOVA, V. K., and WULKOV, V. V. *Calculation of Isotope Accumulation of Transplutonium Elements under Neutron Irradiation of Different 'Starting' Materials" Leningrad, Radiokhimiya 12, No 3, 1970, pp 481-486 Abstract: The accumulation of transplutonium elements can be achieved by prolonged irradiation of targets in high-density neutron beams, which is expensive. Consequently, the processes taking place in the irradiated targets must first be theoretically studied. Most important are: accumulation and transformation of transplutonium isotopes and "contamination" of the target with fizsion products. Calculation of the accumulation allows one to evaluate the yields and to optimize the irradiation conditions. So far, 240pu has not been studied as possible "starting" material. The accurulation of transplutonium elements from the most probable isotopes, 239pu, 240pu, and 2414m, by neutron imradiation was studied. The coloulated results abteined from the formation of irradiation was studied. The calculated results obtained from evaluations of heat evolution in the targets and target contamination by fission products were also studied. 1/1

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TITLERADIOCHEMICAL COMPOSITION IRRADIATION TO BUILD UP A MACRO AUTHOR-(02)-VOLKOV, V.V., SOKOLOV	QUANTITY OF	TARGETS SUBJECTED	DATE23DCT70 TO NEUTRON
COUNTRY OF INFOUSSR SOURCERADIOKHIMIYA 1970, 12(1),	163-72	Niciality	
DATE PUBLISHED70			
SURJECT AREASNUCLEAR SCIENCE AN	D TECHNOLOG	Ŷ	
TOPIC TAGSNEUTRON IRRADIATION, PRODUCTION, HYDROCHLORIC ACID,	IRON ISOTOP	E, GAMMA SPECTROS ARATION, QUANTIT/	SCOPY, ISUTOPE TIVE ANALYSIS
CONTROL MARKINGNO RESTRICTIONS			
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME3001/2204	STEP NOU	R/0186/70/012/00	./0163/0172
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AUTHOR-103)-KOGAN, V.A., SOKOLOV	Lonsing the states	0.511.01,					
COUNTRY OF INFOUSSR	Contraction of the second						4
SOURCEZH. OBSHCH. KHIM. 1970,	40(4), 8	33-8					
DATE PUBLISHED70				• •			
SUBJECT AREASCHEMISTRY			-				2 5
TOPIC TAGSTITANIUM CHLORIDE, T COMPOUND, UV SPECTRUM, IR SPEC	IN CHLOR TRUM	IDE, AC	ETONE,	IMINE	, COMF	LEX	
CONTROL MARKINGNO RESTRICTIONS							
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020 UNCLASSIFIED PROCESSING DATE--27NOV70 2/2 CIRC ACCESSION NO--AP0134557 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. HEATING THE AROM. AMINES WITH AC SUB2 CH SUB2 IN HEXANE GAVE THE APPROPRIATE ANILS WHICH TREATED WITH METAL CHLORIDES IN C SUB6 H SUB6 GAVE THE FOLLOWING COMPLEXES (WHERE A EQUALS ACETYLACETONE ANIL; L EQUALS ACETYLACETONE D, METHYLANIL; A PRIME EQUALS ACETYLACETONE P, NITROANIL; A DOUBLE PRIME EQUALS ACETYLACETONE HEXYLIMINE; AND A TRIPLE PRIME EQUALS ACETYLACETONE DODECYLIMINE): TICL SUB4.A SUB2, RED, M. 153DEGREES; TICL SUB4.L SUB2, RED, M. 140DEGREES; TICL SUB4.A PRIME SUB2, RED, M. 128DEGREES; SNCL SUB4.A SUB2, COLORLESS, M. 1520EGREES; SNCL SUB4.L SUB2, COLORLESS, M. 142DEGREES; SNCL SUB4.A PRIME SUB2 COLORLESS, M. 120DEGREES; THE COMPLEXES WITH A DOUBLE PRIME AND A TRIPLE PRIME WERE FORMED IN 2:1 RATIO WITH TICL SUB4 AND IN 4:1 RATIO WITH SNCL SUB4, ON THE BASIS OF SPECTROSCOPIC DATA ONLY AS THE COMPLEXES COULD NOT BE ISOLATED. THE UV AND IR SPECTRA OF THE COMPLEXES INDICATE A DONOR ACCEPTOR BOND BETWEEN THE METAL AND THE D ATOM OF THE CARBONYL GROUP. FACILITY: ROSTOV.-NA-DONU GOS. UNIV., ROSTOV-ON-DON, USSR. TT UNCLASSIFIED

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CIA-RDP86-00513R002203120002-9

USSR UDC 621.317.4:621.318.122 SOKOLOVA, YE. A. "Magnetostriction and Its Temperature Coefficients for Certain Ferromagnetic Materials" Tr. metrol. in-tov SSSR (Works of the Metrology Institutes of the USSR), 1971, No. 113(173), pp 68-73 (from Referativnyy Zhurnal, Metrologiya i izmeritel'naya tekhnika, No 11, Nov 71, Abstract No 11.32.1768) **Translation:** Results of a measurement of magnetostriction λ and its temperature coefficients & for samples of alloys Yul4, K50F2, K65 and F600 ferrite as a function of magnetization intensity (or magnetizing field strength) and temperature are presented. Measurements of λ were conducted in the temperature range 12.5-442°C for samples of the alloys at a magnetization intensity up to $2\cdot 10^3$ a/m and in the temperature range (-110) - (+184)°C for the ferrite at a field strength up to 50 ka/m. The error of measurement of magnetostriction in the range $(1035) \cdot 10^6$ was 6-0.5%. 5 ill., 1 table, 2 ref. 1/1

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"APPROVED FOR RELEASE:	09/01/2001	CIA-RDP86-0051	I3R002203120002	2-9
1/2 018 UN TITLEON THE ZETA POTENTIAL OF	CLASSIFIED PARTICLES IN	PROCESSING MULTICOMPONENT	DATE	
AUTHOR-(03)-BIBIK, YE.YE., SOKO COUNTRY OF INFOUSSR	Carlier and		•	с. С
SOURCEKOLLOIDNYY ZHURNAL, 197 DATE PUBLISHED70	0, VUL 32, NR	2, PP 301-303	· · ·	
SUBJECT AREASPHYSICS, CHEMISTR TOPIC TAGSBARIUM FERRITE, IRON		PTION. COLLAID.	CHENICAL	
STABILITY				9
CONTROL MARKINGNO RESTRICTIONS				
DOCUMENT CLASSUNCLASSIFIED FROXY REEL/FRAME1992/1655	STEP NOUR	/0069/70/032/002	/0301/0303	
CIRC ACCESSIUN NOAPOIL2649 UNCLAS	SIFIED			
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PROCESSING DATE-- 300CT70 UNCLASSIFIED 212 018 CIRC ACCESSION NO--AP0112649 ABSTRACT. ZETA POTENTIAL OF THE DISPERSED ABSTRACT/EXTRACT--(U) GP-0-PHASE HAS BEEN MEASURED IN A SUSPENSION CONTAINING LARGE (10 PRIME NEGATIVES CM) BARIUM PARTICLES WITH A LOW ZETA POTENTIAL AND SMALL (10 PRIME NEGATIVES CM) FE SUB3 D SUB4 PARTICLES WITH A HIGH (POSITIVE 28 MV) ZETA POTENTIAL. ADSURPTION OF SMALL PARTICLES BY LARGE ONES IS OBSERVED AS WELL AS INCREASE IN STABILITY AND ZETA POTENTIAL OF LARGE PARTICLES. THE RELATIONSHIP BETWEEN THE AMOUNT OF ADSORBED PARTICLES AND THE ZETA POTENTIAL OF LARGE PARTICLES POINTS TO A DISCRETE LOCATION OF THE CHARGE ON THE SURFACE OF LARGE PARTICLES. UNCLASSIFIED

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USSR	UDC 632.95	
FEDOSEYENKO, L	N., SOVOLOVA, YE, M., TRUHOV, P. P., VOLODKOVICH, S. D., N., GOLYSHIN, N. M., ABELENTSEV, V. I., UKRAINETS, D. S., G., ZAIKIN, B. A., DVUKHSHERSTOV, K. G., VISHEVETSKAYA, A. M., ZAVIZION, A. P., and TALASH, A. I.	· · ·
"Polycarbazin"		
an norusit tab	edstva zashchity rast. (Chemical Plant Protectants collection 1, Noscow, 1970, pp 95-104 (from RZh-Khimiya, No 13, 10 Jul 72, 1503 by T. A. Belyayeva)	
fruit gray rot II. I equals I and tomato macr	The effectiveness of polycarbazin (1) on apple scab and grape- mals that of zineb (II) and polyram-combi, while on cherrry- it equals Bordeaux liquid (III) (1 percent), but is ahead of I and III for Clasterosporium infection of the cherry plum responses. The decisive factor which determine the length is precipitation, which washes the preparation off plants.	2. 2. 4. 4.
1/1		
	- 61 -	

CIA-RDP86-00513R002203120002-9

USSR UDC 612.8.019.941 MERKULOVA, O. S., SOKOLOVA, Ye. V., and FILARETOV, A. A. (Reviewers) Rezul'taty Issledovaniy po Morfologii, Neyroendokrinologii, Neyrofiziologii, Povedeniyu i Patologii Nervnoy Sistemy (Results of Investigations Into the Horphology, Neuroendocrinology, Neurophysiology, Behavior and Pathology of the Nervous System) by Lishshak, K. (Editor), Budapest, 1972 Leningrad, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenov, Vol 59, No 9, Sep 73, pp 1451-1452 Abstract: The collection contains articles about presynaptic influences on the formation of postsynaptic structures on the brain dendrites, the binding of H3-estradiol to the brain and uterus, and the decrease in electrical activity of subcortical formation neurons on habituation to new conditions or on adding ACTH and corticosteroids. The reviewers question the hormone dosage level of the latter. Additional articles discuss the dependence of elicited potentials in the auditory core on the stimulus frequency, the influence of the hippocampus on the mesoencephalic structures, the correlation between cortical electrical activity and stimulation of the thalamus nucleus, the refractory period in the reinforcement of lateral hypothalamus structures and the influence of disturbances in cervical lymphatic flow on the EEG and brain function. 1/1

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"APPROVED FOR RELEASE:	09/01/2001 CIA-RDP86-00513R002203120002-9
1/2 025 TITLEHIGHER NERVOUS ACTIVITY I CORTICOSTEROID HORMONES -U- AUTHORSOKOLOVA, YE.V.	LASSIFIED PROCESSING DATE18SEP70 N RATS WITH AN EXCESS OR DEFICIT OF
COUNTRY OF INFOUSSR	
	DEYATEL'NOSTI, 1970, VOL 20, NR 1 PP 85-88
DATE PUBLISHED70	
SUBJECT AREAS-BIOLOGICAL AND MET	DIGAL SCIENCES
TOPIC TAGSRAT, HYDROCORTISONE, ELECTROPHYSIOLOGY, NERVOUS SYST	BRAIN, ADRENAL GLAND, SURGERY, TEM
CONTROL MARKINGNO RESTRICTIONS	
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1982/0810	STEP NOUR/0247/70/020/001/0085/0088
CIRC ACCESSION NOAP0052246 UNCLASS	IFIED

INTRAMUSCULAR CHRONIC NOT AFFECT THE RATE OF MOTOR REACTION LATENCY ADRENALECTOMY, BOTH BI STABILIZATION, SUBSTAN	P-O- ABSTRACT. THE EXPE NE BY THE MOTOR ELECTO DE INJECTION OF A 1 MG-100 F CONDITIONING, BUT SIGNI Y AND THE TIME OF RUNNING EFORE THE BEGINNING OF CO NTIALLY PROLONGED THE MOT E SUPPOSED TO BE THE CONS	DOSE OF HYDROCORTIZONE DID FICANTLY SHORTENED THE IN THE LABYRINTH. NDITIONING AND AFTER ITS

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USSR. UDC 539.1.074.8 CHERNYAYEV, V. B., SOKOLOVA, Z. YA. STATE AND ADDRESS "The Part Played by a Reflector in a Scintillation Detector of ZnS(Ag)B10" Khar'kov, Monokristally, Stsintillyatory i Organicheskiye Lyuminofory -- Sbornik (Monocrystals, Scintillators, and Organic Luminophores -- Collection of Works, No 5, 1970, pp 224-228 (from Referativnyy Zhurnal, Metrologiya i Izmeritel'naya Tekhnika, No 12, 1970, Abstract No 12.32.1497) Translation: The article deals with the part played by the reflector in a two-dimensional dispersive neutron detector in measuring the layer thickness of the scintillator. It has been experimentally shown that the reflector increases the effectiveness of the neutron registration and changes the differential amplitude spectrum of the detector pulses. Consideration is given to a number of designs of 3-dimensional detectors from the point of view of the effectiveness of neutron registration and the amplitude spectrum of pulses from the photoelectronic multiplier. 5 figures, 8 bibliographic entries. 1/1

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CIA-RDP86-00513R002203120002-9

USSR ШC 539.1.074. 8 CHERNYAYEV, V. B., SOKOLOVA, Z. Ya., Physicotechnical Institute imeni A. F. Ioffe "A Neutron Detector" Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, 1970, No 36, Soviet Patent No 288172, class 21, filed 31 Jul 69, published 3 Dec 70, p 88 Translation: This Author's Certificate introduces a neutron detector in the form of a moderator light guide inside of which are coaxial cavities with a scintillating material. The moderator light guide is covered by a reflector. As a distinguishing feature of the patent, the effectiveness of neutron registration is improved by forming the cavities with surfaces of truncated cones having an identical central solid angle at the exit pupil of the detector, while the surface of the moderator light guide is in the shape of a hemisphere. The patent also covers a modification of the detector which is distinguished by the fact that the technology of making it is simplified by making up the moderator light guide surface from the surfaces of a cylinder and two truncated cones. 1/2

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203120002-9 Acc. Nr: Abstracting Service: Ref. UR Code: 0031 Apo052532 CHEMICAL ABST. 5-70 104293a Standardization of a platinum catalyst. Sokol'skaya A. M.: Gorokhov, A. P.; Ryabinina, S. A. (USSR). Vern. Akad. Nauk Kuz. SSR 1970, 20(2), 65-7 (Russ). The content of cations of alkali metals in PtO, must be detd. exactly in order to prep. a catalyst that is optimal for a given type of chem. bond. The degree of PtO, purification can be controlled by the electro-chem potential of Pt black. chem. potential of Pt-black. The potential varies inversely with the cation content. The hydrogenation rate of compds. with various types of chem. bonds is a function of the potential of the Pt black. The washing is speeded up by a flow-type app. During the process batches of 0.1 g PtO₂ are taken, reduced with H, and the potential is detd. in relation to a SCE. L. Holl L. Holl 🤳 И **REEL/FRAME** 7nt 19821175

CIA-RDP86-00513R002203120002-9

Epidemiology USSR UDC 616,981,55-022.34 MORGUNOV, I. N., SOKOLOVSKAYA, G. G., and KOLESNIKOV, Klev Medical Institute ineni A. A. Bogomoleus 3 "Some Ways in Which Pathogenic Anaerobes Spread" Moscow, Gigiyena i Sanitariya, No 4, 1971, pp 25-28 Abstract: The epidemiology of botulism and tetanus is largely influenced by the complex interaction of scil and other natural and social factors. A major source of infection of the soil is the excretions of cattle, poultry, and rodents in whose stomach contents Clostridium tetani and Clostridium botulinum were found in 62 to 64% and 21 to 34% of 1400 samples analyzed. Tetanus morbidity is very high in regions with a predominance of chernozem, meadow, and alluvial soils but low in erosion regions. Alluvial soils are infected with a great variety of microorganisms, including spore-forming anaerobes. Anaerobes are readily transported with soil minerals in the process of denudation and accumulation which is shaping the present-day relief of the earth's crust. Still another important route of spread of the causative agents of totanus and botulism is the dust storm, which occurs with fair frequency in the Ukraine. Analysis of dust carefully taken from the tops of enow mounds the day following a dust storm revealed the presonce of both microorganisms in almost 20% of the samples. 1/1

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COUNTRY OF INFOUSSR	
SOURCEVRACHEBNGYE DELD, 1970	D, NR 5, PP 84-87
DATE PUBLISHED70	
SUBJECT AREASBIOLOGICAL AND	MEDICAL SCIENCES
TOPIC TAGS-RESPIRATION, RESPI	TRATORY SYSTEM DISEASE, LUNG, ENZYME
CONTROL MARKINGNO RESTRICTIO	INS
DOCUMENT CLASSUNCLASSIFIED PRDXY REEL/FRAME3002/1739	STEP ND-UR/0475/70/000/005/0084/0087
CIRC ACCESSION NOAPO129107 UNCL	ASSIFIED

2/2 019 UNCLASSIFIED PROCESSING DATE--- 300CT70 CIRC ACCESSION NU--AP0129107 ABSTRACT/EXTRACT-- (U) GP-O- ABSTRACT. PROTEOLYTIC ENZYMES (TRYPSIN, CHYMOTRYPSIN, RIBONUCLEASE, DESOXYRIBONUCLEASE IN THE FORMS OF AEROSOLS AND TRYPSIN AND CHYMOTRYPSIN INTRAMUSCULARLY) WERE USED FOR THE TREATMENT OF 97 PATIENTS WITH CHRONIC NON SPECIFIC PULMGNARY DISEASES. TREATMENT RESULTED BOTH IN AN IMPROVEMENT OF THE CLINICAL CONDITIONS AND INDICES OF EXTERNAL RESPIRATION FUNCTION. SIGNIFICANT IMPROVEMENT OF PNEUMOTACHOMETRIC DATA EVIDENCES THE ACTION PF PROTEOLYTIC ENZYMES ON THE MAIN PATHOGENETIC FACTOR IN THE DEVELOPMENT OF THESE DISEASES, DRAINAGE FUNCTION OF THE BRONCHI. FACILITY: PERVOGO MOSKOVSKOGO MEDITSINSKOGO INSTITUTA. UNCLASSIFIED

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USSR			UDC: 512.4	
SOKOLOVSKAYA, T.	v.	· · ·		
"Representations Groups"	of Finite Universal	Algebras in F	inite Semi-	
Moscow, <u>Matemati</u>	<u>cheskiye Zametki,</u> vol	. 9, No. 3, 1	971, pp 285-290	
to the problem p tions must be sa any finite algeb presented in som lem by stating a any operation w with this system Mal'tsev-Kon sen true, there exis n such that the group. Here, n(algebra. The au State University	rpose of this article osed to the author by tisfied by the system ra with the given sys- nd proving the follow of the system Ω , any of operations Ω can se, in a finite semi- ts a finite algebra w system cannot be repri- a) = n, a ₁ ,, a _n \in thor, connected with , concludes by express s Yu. K. Rebane.	the M. V. Log	is Ω such that ions may be re- olves the prob- If $n(\omega) \leq 1$ for resal algebra d, in the reverse is m of operations by finite semi- the universal ionosov Moscow	



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COULL A RAY SPECTRAL S	UNCLASSIFIED TUDY OF A ZIRCO	INIUM, NIOSIUM, NICKE	ATEO20CT70	
AUTHOR-(04)-YEVDOKIMOVA, A.D. SCKOLOVSKAYA, E.M. COUNTRY OF INFOUSSR	KUZNETSOVA, S	•M•• RONAMI, G.N.,		
SOURCEVESTN. MOSK. UNIV. KHI Date Published70	M. 1970, 11(1)	, 62-6		
SUBJECT AREASMATERIALS				
TOPIC TAGSX RAY ANALYSIS, SPI NIOBIUM ALLOY, NICKEL ALLOY, PHYSICAL CHEMISTRY PROPERTY	ECTROSCOPIC ANA METAL HEAT TRE	LYSIS, ZIRCONIUM A ATMENT, PHASE DIAG	LLOY, RAM, :	*
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USSR UDC: 536.7	
YEVDOKIMOVA, A. D., KUZNETSOVA, S. M., RONAMI, G. N., SOKOLAVSKATA, YE. M., Department of General Chemistry, Moscow State University Lieni M. V. Lomanosov, Moscow, Ministry of Higher and Secondary Specialized Education RBFSR	
"Investigation of the Zirconium-Niobium-Nickel System by Local X-ray Spectral Analysis"	
Moscow, Vestnik Moskovskogo Universiteta, Seriya II, Khimiya, Vol. 11, No 1, Jan/Feb 70, pp 62-66	
Abstract: Data are given from local X-ray spectral analysis of the ternary zir- conium-nicbium-nickel system using the MS-46 microanalyzer made by the French "Cameca" Company. Alloys of zirconium with niobium and nickel heat treated at 800° C for 700 hrs and at 500° C for 2,000 hrs were used. The error in determina- tion of the element being analyzed was 1-2%. The resultant data are tabulated, and a diagram of the phase equilibria in the system at 800° C is given. The com- pounds $ZrNi_5$, Zr_2Ni_7 and Zr_2Ni_5 form quasi-binary cross sections with NbNi ₃ . The region of homogeneity of the intermetablic compared NaVi discussion of the section of the system of the system of the intermetablic compared NaVi discussion of the section of the system of the intermetablic compared NaVi discussion of the section	
region of homogeneity of the intermetallic compound NbNi ₃ is considerably expanded by alloying with zirconium. An analogous picture is observed in the case of Zr_7Ni_{10} . The phase diagram plotted from the experimental data agrees with those obtained by other methods of physical and chemical analysis.	

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DATE PUBLISHED70					
SUBJECT AREAS-MECH., IND., CIN	VIL AND MARINE	ENGR+ CH	EMISTRY		
TOPIC TAGS-AQUEOUS SOLUTION, F DEHYDRATION, DRYING OVEN	LUIDIZED BED,	AMMONIUM	SULFATE,		,
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CIA-RDP86-00513R002203120002-9"

UDC 621.352.2 USSR SOKOLOVSKIY, I. I., BROVKIN, YU. N., KOSTYLEV, S. A. "Microwave Power Attenuation Effect in Gunn Diodes" Kiev, Izvestiya vuzov SSSR, Radioelektronika, Vol XV, No 8, 1972, pp 949-953 Abstract: The results of an experimental study of a three-centimeter band attenuator made of n-GaAs diodes with $\mu = 4,500 \text{ cm}^2 \text{ v}^{-1} \text{ sec}^{-1}$, 100-250 microns long, are described. Attenuation is realized for biases on the diode from 0.8 to 1.4 E_{thresh}. On the basis of sonde measurements of the potential and the local volt-amplitude characteristics, a physical model was developed which explains the nonlinearity of the volt-amplitude characteristic of the entire specimen in the subthreshold range insuring attenuation of the bias voltages in this segment. In the superthreshold region, the attenuation is realized by external negative conductivity arising in the presence of the Gunn effect. The attenuation range depends on the microwave power level and the off-duty factor of the feed pulses. The causes for this phenomenon are discussed. It is possible to use Gunn diodes not only for the generation of microwave oscillations but also to create other microwave devices. The nonlinearity of the volt-amplitude characteristic arising from the same physical mechanism but differing with respect to external manifestation in the two bias regions 1/2