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PERSONAL PROPERTY AND INC.				
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	ALIYEVSKAYA, L. V., P	POPOVA G.S., SHCHAPIRO, A. D.		
	"Mathematical-Economi and Chemical Machine	ic Models of the Development of th Building"	ne Subbranches of Petroleum	
	vyp. 4, pp 149-164 (f	am. Sib. otd, AN SSSR (Collected rian Department of the USSR Acade rom <u>RZh-Kibernetika</u> , No 9, Sep 72	my of Sciences), 1971, , Abstract No 9V540)	
	sible to construct a model adequately described been made to construct the future in the petr	basis of the existing control sys combining so many different subbr united sufficiently conceivable m ribing all the subbranches. In the t models of the distribution of ca roleum and chemical machine build	anches that it is impos- athematical-economic his paper an effort has apital investments for	
	much as in the given of be defined, the possib	requirements for the branch product case the capital investments are r bility arises for consideration of the investigated subbranches the	ction by years. Inas- not restrictions but must	
	find the optimal capit	al investments (by the critorian	Way: it is necessary to	¢.
	production of each typ	condition of complete satisfaction e for the given subbranch for all the formalization of the problem	on of the demand for the	
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APPROVED FOR RELEASE: 08/09/2001

USSR		WDC: 537.533.3	
BONDARENKO, Yu. V., BU A. M., NESTERINHIN, Yu	DARNYKH, V. I., IL'IN A. Ye., POPOVA G. S.,	, V. P., ISKOL'DEXIY, and SHESTAK, A. F.	
"Electronic-Optical Co	onverters in Forced Li	ght Load Operation"	
Novosibirsk, Avtometri	vc, No 6, 1971, pp 7-	14	
Abstract: Forced light	load overation is de	fined as that mode of	
operation of the photo	cathode of an electro	nic-optical converter	
in which a phytoeurren	t of high density is	picked up in recording	
obtained inages are na	main duration. In the	s kind of operation the	
paper is to take a clo			
deteriorate the image	quality through exper	iments, the purpose of	
which is to investigat			
A diagram of the experience			
		saples of the image dis-	
tortion are shown and	the reasons for the de	efects clarified. The	
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USSR

DDC: 621.315.592

BATAVIN, V. V., MIKHAELYAN, V. M., and POPOVA, G. V.

"Nature of 1.26-1.30 ev Radiation Bands in the Photoluminescence Spectra of Gallium Arsenide With Copper Impurities"

Leningrad, Fizika i tekhnika poluprovodnikov, No 10, 1972, pp 1874-1878

Abstract: A number of earlier works have shown that in the luminescence spectra of undoped n-type GaAs in the presence of copper, radiation peaks with energies of 1.26-1.50 ev are observed. The authors of the present paper find that the nature of the recombination center corresponding to this energy band has been inadequately studied, and in this paper obtain additional information regarding the characteristics of the band, thus chedding additional light on the generation and nature of the recombination center. The experiments described were performed on n-type GaAs specimens obtained by gas-transport epitaxia in a broad range of copper concentrations and donor impurities. The acceptor concentrations and the mobility in each specimen were also measured, the latter by the van der Pau method in the $50-300^{\circ}$ K interval. The photoluminescence spectra were obtained in the range of $4-300^{\circ}$ K using the IEM-1 monochromator 1/2

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CIA-RDP86-00513R002202520004-4

USSR UDC: 621.315.592 BATAVIN, V. V., et al, Fizika i tekhnika poluprovodnikov, No 10, 1972, pp 1874-1878 with a glass prism and the LG-75 laser as the excitation source; the receiver device for the radiation was the FEU-28. 2/2

APPROVED FOR RELEASE: 08/09/2001

1/2 009 UNCLASSIFIED PROCESSING DATE300CT70 11TLEAZEOTROPIC DISTILLATION OF XYLENES STUDIED TO SELECT INDUSTRIAL QUALITY ANALYZERS -U AUTHOR-(02)-OLEYNIKOVA, A.F., POPOVA, G.YE. COUNTRY OF INFOUSSR Image: Country of InfoUSSR SOURCENEFTEPERERAB. NEFTEKHIM. (MOSCOW) 1970, (1), 29-31 DATE PUBLISHED70 SUBJECT AKEASCHEMISTRY TOPIC TAGSDISTILLATION, XYLENE, CHROMATOGRAPHY, AUTOMATIC CHEMICAL PROCESS CONTROL CONTROL MARKINGNO RESTRICTIONS DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1997/0807 STEP NOUR/0318/T0/000/001/0029/0031 CIRC ACCESSION NOAP0119714 UNCLASSIFIED					
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UDC: 681.2.088 USSR NEUYMIN, Ya. G., POPOVA, I. A., RYVKIN, B. L., SHKOL'NIK, B. A. "Estimates of the Dynamic Error of Measurements" Moscow, Metrologiya, No 1, 1973, pp 33-44. Abstract: Standard and minimized estimates are produced for the dispersion of dynamic measurements based on the unevenness of the amplitude-frequency characteristics of a device and the moments of its weight function. The estimates are useful under conditions of incomplete information on the dynamic properties of measurement equipment both in the stage of planning and in its operation. 1/1 and a structure restriction of the langest of the langest of the second structure of the

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Acc. Nr APC036812 Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, 1970, Nr 1, pp 31-35 PRIMARY SOURCE: DYNAMICS OF DISCHARGE OF TYPHOID BACILLI IN CHRONIC CARRIERS IN DIFFERENT SEASONS OF THE YEAR AND ITS SIGNIFICANCE IN THE EPIDE-MIOLOGY OF THE DISEASE S. R. Khomik, Ya. M. Ferdinand, G. I. Skirda, N. S. Kovaleva, N. S. Solovey, K. I. Poz. Dova J-P. Timoshkina, M. M. Shelkovich, B. A. Plydro, Apeykina, M. D. The feces of forty five carriers of typhoid bacillus were examined in different seasons of the year. The greatest number of bacilli was discharged from January to May (0.1 to 960 million per gm of feces were the number of bacilli found throughout the year). Therefore, the authors recommend examination of carriers to be carried out mainly during the first half There was established no association between the seasonal distribution of the incidence of the year. of the disease and the intenisity of bacterial discharge. D.N. • 6

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002202520004-4

USSR UDC 534.7 GAVRILOV, L. R., GERSHUNI, G. V., IL'INSKIY, O. B., POPOVA, L. A., "Stimulation of Human Feripheral Nerves by Focused Altrasound" Moscow, Akusticheskiy Zhurnal, No 4, 1974, pp 519-523 Abstract: Stimulation of the fingers, palm, and lower third of the forearm of 5 subjects by focused ultrasound at frequencies of 0.48, 0.887, 1.95 and 3.67 mHz produced 3 types of sensations - tactile, temperature, and pain. The thresholds varied with the type of sensation, being lowest for the tactile sensations. The thresholds rose as the focal range was shifted from the fingers to the palm and then to the forearm. (Ultrasound directed at certain spots on the palm and forearm produced a distinct sensation of cold, an unusual response because it is physically impossible for ultrasound to chill the tissues). The thresholds of the tactile sensations were virtually independent of the duration of exposure to ultrasound lasting 1 to 100 msec. However, they rose considerably when the duration was decreased to 0.1 msec or less. Some suggestions are made for constructing ultrasonic apparatus to be used for sticulating nerve structures. 1/1 - 102 -

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002202520004-4

UDC 612.821.7+612.822.1 USSR DANILOV, I. V., POPOVA, L. A., and KATINAS, V. A., Institute of Experimental Medicine, Academy of Sciences USSR, Leningrad "Changes in Cat Behavior and Brain Bioelectrical Activity During Drowsiness After Polarization of Some Brain Structures" Leningrad, Fiziologicheskiy Zhurnal SSR, No 3, 1973, pp 367-372 Abstract: In chronic experiments on relatively unrestrained cats, micropolarization of various brain structures (sensorimotor, temporal, and occipital cortex) combined with electrical stimulation of hypnogenic zones (reticular formation or posterior hypothalamus) markedly altered the "ritual" of the animals' behavior (licking and washing movements) that generally precedes natural sleep. Micropolarization in the preparatory period lengthened the period of active washing movements and raised the thresholds of electrostimulation of the hypnogenic zones to induce sleep. But applied while the animals were drowsy, micropolarization accelerated the onset of sleep and made it longer and deeper. The sleep resulting from the combined effect of electrostimulation and polarization of hypnogenic zones was characterized by a change in the correlations of the slow- and fast-wave sleep phases in the various brain structures. Synchronism disappeared and the slow-wave and fast-wave phases became typical of the deep structures and cortical regions, respectively. - 63 -

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A. L. A., Leningrad Institute of Aviation Instrument e Physical-Mechanical Properties of Weakly Alloyed Gol , Fiziko-Khimicheskaya Mekhanika Materialov, Vol 8, M ract: The solid solution zone in gold-vanadium alloys nadium [W. Köster, et al., Z. F. Metallkunde, Vol 54, No 9 1964]. In a broad	d-Vanadium Alloys" 10 2, 1972, pp 111-112
e Physical-Mechanical Properties of Weakly Alloyed Gol , Fiziko-Khimicheskaya Mekhanika Materialov, Vol 8, M ract: The solid solution zone in gold-vanadium alloys	d-Vanadium Alloys" 10 2, 1972, pp 111-112
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nadium [W. Köster, et al., Z. F. Metallkunde, Vol 54, nadium [W. Köster, et al., Z. F. Metallkunde, Vol 54, 1., Z. F. Metallkunde, Vol 55, No 9, 1964]. In a broa alloys of this system have a negative temperature coef stance which at about 1 atomic Z vanadium becomes close tant in practice in the temperature range from -200° (C made of the effect of small additions of vanadium on s physical properties to obtain the optimal composition ltaneously low specific electrical resistance (ρ) and cient of electrical resistance (α). For the burden mail and vanadium iodide were used. The electrical proper studied in the work-hardened state and after annealin s in a vacuum with a residual pressure of $-2 \cdot 10^{-4}$ mm I α were determined in the temperature range of 20-60° (of the alloys coupled with copper was determined in th	ad concentration range fficient of electrical se to zero and remains C to +800° C. A study some of the mechanical of the alloy having low temperature co- aterial, 99.9% pure rties of the alloys ng at various tempera- Hg. The vaues of ρ C. and the thermal

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POPOVA, L. A., Fiziko-Khimicheskaya Mekhanika Materialov, Vol 8, No 2, 1972, pp 111-112
Even large additions of vanadium significantly increase ρ and reduce the coefficient α which with a content of about 0.25% V in the alloy passes through a effect in practice on the value of ρ and raises α insignificantly for alloys with a greater vanadium content. The microhardness and thermal emf of a gold alloy with 0.26 % V coupled with copper as a function of the annealing temperature is plotted. To a temperature of 300° C the microhardness of the work-hardened speciment remains constant and then decreases sharply and reaches a minimum at 500-600° C. The thermal emf does not change in practice on increasing the annealing temperature.

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COUNTRY OF INFOUSSR	
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Pamyat' i yeyo narusheniya pri ochagovykh porazheniyakh mozga (Memory Disorders in Focal Lesions of the Brain), Moscow, 1972, 208 pp	
Translation: <u>Abstract</u> The monograph is devoted to a neuropsychological analysis of memory impairments resulting from focal lesions of the brain. It consisted of two parts. In the first, the author examines the main stages in the study of memory and its connection with the brain substrate; psychology of memory, current ideas on the neurophysiological, biochemical, and morphological changes that may serve as a material substrate for the fixation of past experience; cerebral organization of memory with a discussion of the role of the limbic system in the mechanisms of memorizing and remembering; methods of experimental study of memory impairments resulting from focal lesions of the brain. The second part of the book sets forth the results of a neuropsychological study of memory disorders due to lesions of the limbic system, left temporal lobe, and frontal lobes of the brain. The author shows the heterogeneous structure of the defect in relation to the site of brain injury. The results of this study can be used in topical diagnosis and in research aimed at elucidating the structure of the most complex pyschic function and its organization in the brain. $1/2$	

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USSR POPOVA, L. T., Pamyat' i yeyo narusheniya pri ochagovykh porazheniyakh mozga, 1972, 208 pp The monograph is intended for neuropathologists, psychiatrists, neurosurgeons, and psychologists. Contents 4 Introduction... 6 PART I. PSYCHOPHYSIOLOGICAL ASPECT OF MEMORY ... Chapter 1. Main stages in the study of memory and its connection 6 with the brain substrate ... 4.337 Chapter 2. Some aspects of the psychology of memory ... 12 17 Chapter 3. Neurophysiological basis of memory ... 31 Chapter 4. The limbic system and memory ... Chapter 5. Methods of experimental study of memory in focal 60 brain lesions... 69 PART II. MEMORY IMPAIRMENIS IN FOCAL BRAIN LESIONS ... Chapter 1. Memory impairments in lesions of the limbic system ... 71 Chapter 2. Memory impairments in lesions of the left temporal lobe 153 Chapter 3. Memory impairments in lesions of the frontal lobes 172 184 Conclusion ... 187 Bibliography ... 2/2 87 . THE REPORT OF A DESCRIPTION OF A DESCRIP

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UDC 621.378.3 USSR MILOVSKIY, N. D., POPOVA, L. L., Scientific Research Radio Physics Institute "Stability of a Single-Frequency Laser in a Nonuniformly Broadened Active Material" Gor'kiy, Izvestiya vysshikh uchevnykh zavedeniy, Radiofizika, Vol XV, No 1, 1972, pp 19-26 Abstract: The stability of the single-frequency mode of a one-dimensional model of a traveling wave laser in a uniformly broadened active material was investigated earlier [H. Risken, et al., J. Appl. Phys., No 39, 4662, 1968; Phys. Lett., No 26A, 275, 1968; N. D. Milovskiy, Izv. vyssh. uch. zav., Radiofizika, Vol 14, No 1, 93, 1971]. The study showed that as a result of multiphoton interaction with sufficiently large excess of the pumping n^0 over the threshold value n_{thresh}^0 ($\lambda = n^0/n_{\text{thresh}}^0 - 1 > \lambda_c$), the stationary mode becomes unstable. Investigation of the analogous problem for a laser using a nonuniformly broadened active material with respect to a broad class of disturbances depending on the coordinates and time in the present article demonstrates that nonuniform broadening essentially decreases the value of λ_c . A study was made of the one-dimensional model of a traveling wave laser using an active material nonuniform broadening of which arises as a result of the doppler 1/2STERIES IN THE REPORT OF THE PROPERTY OF THE P

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PASTISHTKHIN, V. N., POPOVA, L. N.	
"Stability of Smooth Envelopes in an Elliptical Plane with Finite Bend	ing"
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4-ya Vses. Konf. po Probl. Ustoychivosti v Stroyit. Mekh. Tezisy Dokl.	
[Fourth All-Union Conference on Problems of Stability in Structural Me	
chanics, Theses of Reports Collection of Works], Moscow, 1972, p 13	7,
(Translated from Referativnyy Zhurnal, Mekhanika, No 10, 1972, Abstract	C ·
No 10 V291).	
Translation: The process of sudden, snap deformation and bulging of su	nooth
shells is studied. The bending of the shell is represented by means of	F
two coordinate functions, one of which is symmetrical relative to both	-
axes of the plane, while the other is inversely symmetrical relative to	0
the large axis of the elliptical plane and symmetrical relative to the	
small axis. A variational method is used to reduce the problem to a	
system of two nonlinear algebraic equations. Study of the solutions of	
the equation system produced shows the possibility of a symmetrical for	m j
of loss of stability with a snap. A loss of stability in "mixed" form	
is also discussed, consisting of a combination of symmetrical and inver	sely .
symmetrical forms of bending relative to one axis. The limiting values initial parameters of the shell for which the "mixed" form of loss of s	sta-
bility represents a genuine danger for thinwall three-dimensional syste	ens
are discussed.	•
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	an Operational Schedule	orithm for Solving one of the Problems a for Intraplant Deliveries of Material	of Compiling L Resources"	
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	and Technical Collection	No. 99595 by the sythemat	ic Scientific	1
	No 9, Sep 73, abstract]	No 9V595 by the authors)	Habemabika,	
	me paper	points out the failures of the existi	ng method of	
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Mechanical Properties 1 USSR UDC 669.14.018.8:620.18:620.17 VOZNESENSKAYA, N. M., IZOTOV, V. I., UL'YANOVA, N. V., POPOVA, L. S., and "Structure and Properties of High-Strength 1Kh15N4AM3 Stainless Steel" Moscow, Metallovedeniye i Termicheskaya Obrabotka Metallov, No 1, 1971, pp Abstract: The article describes results of a study of the effect of tempering temperature on the structural state and mechanical properties of 1Kh15N4AM3 (EP-310) stainless steel of the transition austenitic-martensitic class. Industrial electroslag-refined steel was used for the study. It was found that after tempering at 200° C the steel has higher mechanical properties (ductility, impact strength, and crack propagation energy) than widely-used structural high-strength steels (30KhGSNA) or maraging steels. The high strength is determined by a high dislocation density, the presence of twins, and the retention of a sufficient quantity of carbon and nitrogen in the solid solution. Tempering at 300-350° C causes a certain decline in strength and an increase in ductility and impact strength as a result of reduced car-1/2

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USSR UDC 539.5 TRANTSEVICH, Ya. V., POPOVA, L. S., POTAK, Ya. M., SUKHOTIN, A. M., GRIKUROV, G. N., ANTROPOV, N. P., Moscow, Tbilisi, Leningrad "Study of Mechanical Properties of High Strength Stainless Steel of Transition Class EP288 [Kh16N6, SN-2A] at Cryogenic Temperature" Problemy Prochnosti, No 10, 1971, pp 97-100. Abstract: The purpose of this work was to study the properties of one of the most common chrome-nickel low-carbon steels in class EP288 at cryogenic temperatures. The studies were performed using experimental melts distinguished by their low carbon and chromium contents and varying contents of austenite in the steel structure. Heat treatment of the steel included hardening in water from 1,000°C, at which level dissolution of carbides occurs, cold treatment -70°C (2 hours) and tempering at 250°C (1 hour). The data indicated that type EP288 steel with the nominal composition, as well as all experimental melts except for one, has high ductility and impact toughness, including high impact toughness of specimens with cracks at down to -253°C. The nominal steel has high strength at both room and cryogenic temperatures, the level of which increases with decreasing test temperature. 1/2

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USSR TRANTSEVICH, Ya. V., et al., Problemy Prochnosti, No 10, 1971, pp 97-100 It is interesting to note that the strength of EP288 steel determined under such rigid test conditions as rupture of specimens with fatigue cracks at -196°C is retained or even increased in comparison to the strength of smooth specimens. 2/2 59

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13.1 USSR WC 669.14'24'26:621.17 POPOVA, L. V., LITVINENKO, D. A., MIKITIN, V. N., and GEORGIYEV, M. N., Central Scientific Research Institute of Ferrous Metallurgy "Resistance of Low-Alloy Ni-Cr Steel to Crack Development" Moscow, Metallovedeniye i Termicheskaya Obrabotka Metallov, No 1, Jan 74, Abstract: The effect of nickel and chromium in low-alloy normalized steel on resistance to crack development under impact loading was investigated where the nickel and chromium were not alloyed together in the same steel samples, The steel investigated contained (in %): 0.2 C, 0.2 Si, a.2 Mn and nickel contents of 0.59, 0.93, 1.80, and 2.40, and chromium contents of 0.30, 0.60, 1.40, and 2.20. Better combinations of strength and ductility properties were observed when Ni and Cr contents are less than 1%. Impact strengths were also better at the lower alloying contents, and the amount of ferrite and prelite was almost the same for these alloying component contents. As a result of the better ductility and lower tendency toward crack development for Ni contents of 0.6-0.8% and Cr contents of 0.5-0.7%, these steels are suitable for use under conditions of impact loads at positive temperatures, and of the two types of 1/2

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USSR POPOVA, L. V., et al., Metallovedeniye i Termicheskaya Obrabotka Metallov, No 1, Jan 74, pp 60-62 steels, low-alloy chromium steel is recommended for use inasmuch as it is not as scarce as nickel. Four figures, one table, ten bibliographic references. 2/2 - 42 -

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CIA-RDP86-00513R002202520004-4

USSR UDC 539.4.01 GEORGIYEV, M. N., <u>POPOVA, L. V.</u>, NIKITIN, V. N., LITVINENKO, D. A., Moscow "Influence of Titanium on Ductility Properties of Low-Alloy Steel" Kiev, Problemy Prochnosti, No 5, May, 1971, pp 98-100. Abstract: The influence of titanium content in low-alloy normalized steel on its ductile properties is studied. It is demonstrated that alloying with 0.025 to 0.16% titanium content from 0.16 to 0.25% causes a significant increase in impact toughness, primarily by increasing the work of crack formation.

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USSR UDC 669,1.017,018.29,001.5 NIKITIN, V. N., LITVINENKO, D. A., FOFOYA, L. V., and GEOGRIYEV, M. N. "Influence of Molybdenum on Ductile Properties of Low-Alloy Steel" Spetsial'nyye Stali i Splavy [Special Steels and Alloys--Collection of Works], No 77, Metallurgiya Press, 1970, pp 190-192 Translation: The influence of molybdenum on the tendency of low-alloy steel of the same basic composition (0.2% C, 0.2% Si, 1.3% Mn) toward brittle rupture in steel with molybdenum up to 2.0% causes continuous deterioration of a combination of ductile properties. 1 figure; 1 table; 6 biblio. refs.

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UDC 669.141.241.214:620.178.2

GEORGIYEV, M. N., <u>POPOVA, L. Y.</u>, and GEORGIYEVA, I. YA., Scientific Research Institute of Automobile and Tractor Materials; Central Scientific Research Institute of Ferrous Metallurgy

"Tensile Characteristics of Quiescent and Boiling Steel"

Moscow, Mctallovedeniye i Termicheskaya Obrabotka Metallov, No 8, 1970, pp 66-67

Abstract: This short article describes experiments made with two laboratory melts, boiling and quiescent, the latter deoxidized by aluminum. A table of the chemical composition of both substances is given. The purpose of the deoxidation was to obtain a steel with a chemical composition akin to that obtained with silicon and manganese. Ingots of each alloy weighing 10 kg were forged into rods of square cross section, 14 mm on a side, and from these, specimens of standard form were made for shock bending, type I, in accordance with GUST standard 9454-60. The tensile strengths of the specimens in fracture under this shock treatment were also determined. Results of these tests are given in the form of curves of the tensile qualities of both steel types as functions of the temperature.

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USSR UDC: 533.652/.661.013 VERESHCHAGIN, I. F., POPOVA, M. I., SEMENOV, S. G. "Some Cases of Motion of an Aircraft With a Complete Internal Program" Uch. zap. Perm. un-t (Scientific Notes of Perm' University), 1971, No 239, pp 171-181 (from RZh-Mekhanika, No 7, Jul 71, Abstract No 7B342) Translation: An aircraft is considered as a system of several connected bodies, one of which is a platform. It is assumed that the laws of motion for all these bodies relative to the platform are known. Some special cases are considered: 1) the system consists of a shell within which a sphere rotates at a constant angular velocity, the ellipsoid of inertia of the system being a sphere; 2) the vehicle is a solid of revolution within which a sphere rotates. For the given cases, integrals are derived which define the motion of the vehicle about the center of mass. G. S. Aronin. 1/1 - 33 -ALCOTTON ALCOTTON านการสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสาร สารสารสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสารและสาร

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USSR UDC 632.95 KRON, YE. M., POPOVA, M. N., STEPANOV, D. YE., KALABINA, A. V. "Thiylation of Aorxynorbornenes" Irkutsk, Khimiya aromat. i nepredel'n. soyedin .-- sbornik (Chemistry of Aromatic and Unsaturated Compounds -- collection of works), 1971, pp 305-310 (from RZh-Khimiya, No 10, May 73, Abstract No 10N533 by T. G. Chekareva) Translation: Compounds of general formula (I) [R =Bu, Ph, MeCO, (MeO)₂PS, (EtO)₂PS, R' = aryl] are produced by thiylation of aroxynorbornenes. Examples: 5.5 g of PhSH is added by drops to 10 g of 4-cresoxynorbornene. Catalyst is HCl (gas). The mixture is held for 3 hours at 45-50°C, and 9.3 g of compound I is isolated by vacuum distillation (R = Ph, R' = 4-MeC₆H₄), toiling point 162-5°C/0.01, n²⁰D 1.5985, yield 63%. BuSH is added analogously, but at 85-90°C. Addition of (MeO)2PSSH and (EtO)2 FSSH is done without a catalyst. The following type I compounds are synthesized (given are R, R', boiling point in C/mm, $n^{20}D$, d_4^{20} , yield in %): MeCO,

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USSR KRON, YE. M., et al., Khimiya aromat. i nepredel'n. soyedin. -- sbornik, 1971, pp 305-310 2-MeC₆H₄, 145-8/0.03, 1.5585, 1.1464, 54; MeCO, 3-MeC₆H₄, 142-5/0.03, 1.5581, 1.1456, 69; MeCO, 4-MeC₆H₄, 160-2/0.03, 1.5608, 1.1424, 62.2; MeCO, 4-ClC₆H₄, 210-5/1, 1.5684, 1.1266, 69.6; Ph, 2-, eC₆H₄, 153-9/0.03, 1.6015, 1.1420, 56.5; Ph, 3-MeC₆H₄, 152-3/0.03, 1.6019, 1.1429, 59.7; Ph, 4-ClC₆H₄, 129-33/0.08, 1.5413, 1.112, 50.1; Ph, 4-BrC₆H₄, 172-4/0.08, 1.6184, --, 54; (MeO)₂PS, $2-MeC_6H_4$, ----, 1.5655, 1.1849, 95.5; (MeO)₂PS, $3-MeC_6H_4$, ----, 1.5547, 1.1630, 98; (MeO)₂PS, 4-MeC₆H₄, ____, 1.5665, 1.2005, 94.4; (MeO)₂PS, -naphthy1, ____, 1.5995, ____, 99; Bu, 2-MeC₆H₄, 142-7/0.06, 1.5465, , 62; Bu, 4-MeC₆H₄, 141-4/0.03, 1.5451, 1.0328, 65; Bu, 3-MeC₆H₄, 150-2/0.06, 1.5443, 1.1004, 67; Bu, 4-ClC₆H₄, 200-3/0.03, 1.5545, 1.3006, 60; (EtO)₂PS, 2-MeC₆H₄, ___, 1.5545, ___, 97.9; (EtO)₂PS, 4-MeC₆H₄ 2/3

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USSR KRON, YE. M., et al., Khimiya aromat. 1 nepredel'n. soyedin .-- sbornik., 1971, 4 pp:305-310 1.5541, 1.1546, 99; (EtO)₂PS, 3-MeC₆H₄, ____, 1.5552, ____, 98.2; (EtO)₂PS, 4-CIC₆H₄, ____, 1.5619, ____, 97.8; (EtO)₂PS, 2-MeCOCC₆H₄, ____, of the corresponding thiol determines the case with which the reaction takes place. 3/3 6

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USSR 621.382.323 UDC POPOVA, M. V., STAFEYEV, V. I. "The Injection FET. Static Characteristics in a Common-Base Circuit" Moscow, Radiotekhnika i Elektronika, Vol 16, No 10, Oct 71, pp 1904-1911 Abstract: The paper is a continuation of research by these authors on the injector FET (cf. Radiotekhnika i Elektronika, 1971, Vol 16, No 10, 1894). On the basis of expressions developed in the first part of the work, the authors analyze the current-voltage curves of the collector-base and emitter-base loops. Analytic expressions in parametric form are found for these curves. The results of computer analysis are presented for the effect of basic parameters on the behavior of these curves. The ruling principles found in the experimental work on N-triodes are compared with the theoretically determined behavior. The results show qualitative agreement. Six figures, bibliography of five titles. 1/1 - 144 -

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STRUCTURE OF STRUCTURE OF

UDC 621.382.323 POPOVA, M. V., STAFEYEV, V. I. "The Injection FET. Static Characteristics in a Common-Emitter Circuit" Moscow, <u>Radiotekhnika i Elektronika</u> , Vol 16, No 10, Oct 71, pp 1894-1903 Abstract: The authors present the fundamentals of a quantitative theory and calculate the static current-voltage curves in the common-emitter circuit of a new semiconductor device which consists essentially of four layers with a leak connected between the emitter layers having a resistance which depends on the voltage applied to the collector layer. This leak is what provides the proper current-gain dependence required for operation of the four-layer structure. While the device combines the action of the conventional bipolar injection transistor and the FET, it also has a number of new properties, in particular, it has negative differential resistance	
Moscow, <u>Radiotekhnika i Elektronika</u> , Vol 16, No 10, Oct 71, pp 1894-1903 Abstract: The authors present the fundamentals of a quantitative theory and calculate the static current-voltage curves in the common-emitter circuit of a new semiconductor device which consists essentially of four layers with a leak connected between the emitter layers having a resistance which depends on the voltage applied to the collector layer. This leak is what provides the proper current-gain dependence required for operation of the four-layer structure. While the device combines the action of the conventional bipolar injection transistor and the FET, it also has a number of new properties, in particular, it has pegative differential meniatement	
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of N-type in the collector current-voltage curve, and S-type in the emitter current-voltage curve. The paper contains the results of computer analysis of these curves for a number of combinations of basic parameters of injec- tion FET's. It is shown that the N-triode is similar to the injection FET. Seven figures, bibliography of five titles.	4

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5911145533 UDC USSR GAR, K. A., KHEYMAN, V. A., and POPOVA, N. A., All Union: Scientific Research Institute of Chemical Means of Plant Pro-tection "Biochemical Mechanisms of the Resistance of Insects to DDT at Elevated Temperatures" Moscow, Doklady Akademii Nauk SSSR, Vol 196, No 5, 1971, pp 1241-1244 Abstract: DDT is toxic to insects because it inhibits oxidative phosphorylation and the formation of ATP. However, DDT.toxicity decreases when temperature rises above 31.4°C. Some investigators believe that at higher temperatures DDT is metabolized and detoxified at a faster rate. This study was performed to determine the degree of oxidative phosphorylation inhibition. after addition of DDT and other insecticides. The tests were. done in the Warburg apparatus on the mitochondria of weevils (B. punctiventris) after the insects had been incubated, with-out insecticides, at +17°C (cold) and +27°C (warm) forrvarious. 1/2

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USSR GAR, K. A., KHEYMAN, V. A. and POPOVA, N. A., Doklady Akademii Nauk SSSR, Vol 196, No 5, 1971, pp 1241-1244 periods. After addition of DDT, phosphorylation was inhibited 20% in "warm" weevils and 90% in "cold" weevils. Oxidation was accelerated by a factor of 1.5 in both preparations. Chromatography revealed that all DDT was absorbed by the mitochondria and that there were no DDT metabolites in either group. In the presence of other insecticides, the differences were less pronounced or absent. It was concluded that the preceding incubation at different temperatures changed the susceptibility of mitochondria to DDT.

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USSR BOYKO, I. B., et al, Meditsinskiy Zhurnal Uzbekistana, No 9, Sep 70, pp 35-37 content in cucumbers and tomatoes, raised the carotone content in carrots, and raised the sugar content in carrots and beets. After the vegetables become free of residual amounts of the chemicals, the biological indices returned to normal. • 物理的工作中的公共。 . 2/2

APPROVED FOR RELEASE: 08/09/2001

USSR UDC 612.006.3	
POPOVA, N. K., Institute of Physiology, Siberian Department, Academy of Sciences USSR, Novosibirsk	
"Symposium on 'Adaptation of Man and Animals to Extreme Environmental Factors'"	
Leningrad, Fiziologicheskiy Zhurnal SSSR, No 10, 1971, pp 1,563-1,564	
Translation: A symposium on "Adaptation of Man and Animals to Extreme En- vironmental Factors" was held in Akademgorodok, Novosibirsk, from 12 to 17 October 1970. It was organized by the Institute of Physiology, Siberian Department, Academy of Sciences USSR, and the Combined Scientific Council for "Human and Animal Physiology."	
More than 200 persons attended the symposium. Among them were 16 foreign scientists from 10 countries (England, Bulgaria, Holland, India, Poland, United States, West Germany, Czechoslovakia, Sweden, Yugoslavia). There were 10 sessions, at which 75 reports and communications were presented.	
There was also a conference on the International Biological Program as well as a meeting of the section "Adaptation of Man" that was attended by Prof. 1/7	1 A A A A A A A A A A A A A A A A A A A
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USSR POPOVA, N. K., Fiziologicheskiy Zhurnal SSSR, No 10, 1971, pp 1,563-1,564 Weiner (England), general secretary of the section, and Prof. Z. I. Barbashova (Leningrad), chairman of the Soviet National Committee. Papers were presented at the first session of the symposium on the central mechanisms of physiological adaptation. B. Anderson (Sweden) and D. Blye (England) discussed the participation of biogenic amines in the hypothalamic mechanisms that regulate body temperature. Interesting facts were reported by Ye. V. Naumenko (Novosibirsk) on the role of serotonin and the catecholamines in regulating the processes of 'adaptation. In a wide-ranging paper, A. D. Slonim (Novosibirsk was the first to generalize the results of longterm studies on the role of conditioned reflexes, habituation, and memory in physiological adaptation. The significance of temperature conditioned reflexes in temperature adaptation was the subject of a paper by R. P. Ol'nyanskaya and V. B. Kulikov (Leningrad). A. M. Ugolev et al. (Leningrad) discussed the effect of some stressors, specifically temperature, on small intestine enzymatic activity. The next session examined the problem of heat production and thermoregulation, devoting considerable attention to the role of contractile and noncontractile 2/7 THE PROPERTY AND IN THE PROPERTY OF THE PROPER

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USSR POPOVA, N. K., Fiziologicheskiy Zhurnal SSSR, No 10, 1971, pp 1,563-1,564 thermogenesis in regulating body heat. K. P. Ivanov (Leningrad) cited data suggesting that muscle contractions play a leading role in all thermoregulatory functions. Equally convincing data were presented by K. Brück, et al. (West Germany) and P. A. Korniyenko, et al. (Moscow), who emphasized the importance of the biochemical mechanisms of temperature adaptation. Some aspects of this approach were discussed by V. V. Khaskin (Novosibirsk) in his paper "Thermodynamic Characteristics of Adaptive Changes in Animal Muscles." This session also heard an original paper by M. Gembchinski (Poland) on "Behavioral Thermoregulation" in rodents and an interesting communication by S. Dzhelineo (Yugoslavia) on adaptive changes in basal metabolism and chemical thermoregulation in small mammals and birds in relation to seasonal influences. 0. Adholm's (England) paper aroused a great deal of interest at a session devoted to cold adaptation. He presented the results of many physiological studies conducted in the Antarctic. N. I. Kalabukhov (Astrakhan), Ya. Gurski, et al. (Poland), L. Novak (Czechoslovakia), and others discussed the role of chemical thermoregulation in adapting to the ambient temperature. Yu. F. 3/7 - 26 -

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USSR		
POPOVA, N. K., Fizi	lologicheskiy Zhurnal SSSR, No 10, 1971, pp 1,563-1,564	
One session was set	t aside for a discussion of the adaptation of aquatic	
animals to environm	mental factors. The focal point was energy metabolism in	
fish at different a	ambient temperatures and rates of movement (V. A. Matyukhin.	
$\mathbf{ROVOSIDIISK}_{\mathbf{i}} 1 \cdot \mathbf{V}_{\mathbf{i}}$	Ivleva, Sevastopol; many others).	
The proceedings of	the symposium were conducted in a businesslike atmosphere.	
There was a broad a	and lively discussion at all the sections. The papers and	
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discussions gave the of the problems toue The proceedings of t	use present a fairly complete idea of the current status iched on at the symposium.	

CIA-RDP86-00513R002202520004-4 "APPROVED FOR RELEASE: 08/09/2001 Acc. Nr: AP0051951 Ref. Code: UR0297 PRIMARY SOURCE: Antibiotiki, Vol 15, Nr PP 357-359 EXPERIENCE WITH LOCAL USE OF GLYCOCYCLINE IN CERTAIN LOR DISEASES N. V. Gaspodinova, A. I. Kuzmina, V. S. Moshkevich, N. N. Popova, S. I. Eydelshtern F. E. Dzerzhlnsky's Polyclinic, Moscow Acquous solutions of glycocycline at a concentration of 500 to 20.000 Units/ml and powders were used locally as ear drops, solutions for washing the sinus cavities and aerosol inhalations in the treatment of 144 lor cases with microflora sensitive to tetra-cycline. 110 patients suffering from exacerbated chronic pharyngo-laryngitis, sinusitis, chronic otilis and tonsilitis showed satisfactory results. The antibiotic applications were satisfactory tolerated by the patients. No severe side effects were observed. REEL/FRAME 19820438 -Televistation and the state

া (বিজ্ঞান) বিশ্ব বিশ্বস্থিত সেন্দ্র সেন্দ্র সেন্দ্রের বিশ্বস্থার বিশ্বস্থার বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান ব বিশ্বস্থান বিশ্বস্থান বিশ্বস্থানের হার প্রথমের বিশ্বস্থার বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান বিশ্বস্থান ব		i difeo di di di Safit 14 Ipulashi hikis di Dibit Ipulashi hikis di Dibit	1971 (n. 1874) - Milita Brai di Blanki (n. 1814) Brai di Blanki (n. 1814) Brai di Blanki (n. 1814)	11989 14114 (926) - 3 11982 14114 (926) - 3 11982 14116 - 79 (1937)
1/2 UIS NIIC REDUCTION OF NII	ROBENZENE DERIVATIVES -U	ING DATE2	20NOV70	
AUTHOR-(03)-SUKULSKIY, D.V., BAB	ENKOVA, L.V., PU. UVAS	atternant for and		
CCUNTRY GF INFOUSSR SourceDokl. Akad. Nauk SSSR 19	70, 191(6), 1299-310 (CH	EM)		· ·
DATE PUBLISHED70				С. с. с.
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SUBJECT AREAS-CHEMISTRY TOPIC TAGS-NITROBENZENE, CLAY,	CHEMICAL REDUCTION, HYDR	DGENATION,	NICKEL,	
TOPIC TAGS-NITROBENZENE, CLAIT PLATINUM, CATALYST ACTIVITY				•.
CONTROL MARKINGNO RESTRICTIONS			:	
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L/2 013 UNCLASSIFIED. PROCESSING DATE13NOV70 TITLEREDUCTION OF NITROBENZENE ON LOW PEACENTAGE PAULADIUM AND PLATINUM PAULADIUM CATALYSTS ON ALUMINUM OXIDE -U-	
AUTHOR-1031-SAVELYEVA, G.A., SUKOLSKIY, D.V., POPOVA, N.M.	\$0
COUNTRY OF INFOUSSR	
SOURCEIZV. AKAD. NAUK KAZ. SSR, SER. KHIM. 1970, 20(2), 25-31	
DATE PUBLISHED70	
SUBJECT AREASCHEMISTRY	
TOPIC TAGSNITROBENZENE, CHEMICAL REDUCTION, PALLADIUM, CATALYST ACTIVITY, PLATINUM	3
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CONTROL MARKINGHO RESTRICTIONS	
DOCUMENTCLASSUNCLASSIFIEDPROXYREEL/FRAME3001/0266STEPNDUR/0360/70/020/0025/0031	
CIRC ACCESSION NOAP0126038	Ø

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002202520004-4 영화 관계 PROCESSING DATE--13NOV70 UNCLASSIFIED 2/2 013 CIRC ACCESSION NO--AP0126038 ABSTRACT/EXTRACT-- (U) GP-O- ABSTRACT. REDN. DF PHNO SUB2 WAS STUDIED IN ETOH,H SUB2 O AND MECH, DIGXANE, NH SUB4 OH AT 20DEGREES OVER PU CATALYSTS ON AL SUB2 O SUB3 (0-5 AT. PERCENT PD). UNLY CATALYSTS WITH LARGER THAN LAT. PERCENT PD WERE ACTIVE; ACCORDING TO THERMAL DESORPTION CURVES, THESE CATALYSTS CONTAINED H DISSOUVED IN PD LATTICE. BY ADDN. OF PT TAT. PERCENT PD PLUS PT REMAINING CONST. 1, THE ACTIVITY AND STABILITY OF FACILITY: INST. KHIH. NAUK, ALMA-ATA, THE CATALYSTS INCREASED. USSR. . . 1 3 THE LASS TETER

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CIA-RDP86-00513R002202520004-4

USSR UDC 612 NAUMOVA, T. S., and POPOVA, N.-S., Moscow Institute of Medical Stomatology, and Brain Institute, USSR Academy of Medical Sciences USSR, Moscow "Role of the Analysors in System Activity" Moscow, Uspekhi Fiziologicheskikh Nauk, No 2, 1972, pp 54-115 Abstract: The activity of the analysors is examined in the light of P. K. Anokhin's theory of the functional system. The authors cite the literature and results of their electrophysiological studies to demonstrate that in the formation of defensive conditioned reflexes, the conditioned signal and adjacent analysors are included with the unconditioned reflex analysor in the operational structure of the functional system. These analysors are shown to participate in all the key mechanisms of the functional system - afferent synthesis, preparation for and decision making, correction of the results of action, and so forth. Signs of trace processes and forward reactions are evident at all levels of the analysors. Multisensory influences converge in the cortical and brainstem portions of these analysors. All levels of the analysors beginning with the first switching relays serve as a substrate to integrate heterogeneous excitations. This substrate is the basis of their participation in the key mechanisms of the functional system. 1/1 Self-Self-Self-Filler Filler (SSCHerme

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USSR **UDC 612** NAUMOVA, T. S., and POPOVA, N. S., Moscow Institute of Medical Stomatology, and Brain Institute, USSR Academy of Medical Sciences USSR, Moscow "Role of the Analysors in System Activity" Moscow, Uspekhi Fiziologicheskikh Nauk, No 2, 1972, pp 54-115 Abstract: The activity of the analysors is examined in the light of P. K. Anokhin's theory of the functional system. The authors cite the literature and results of their electrophysiological studies to demonstrate that in the formation of defensive conditioned reflexes, the conditioned signal and adjacent analysors are included with the unconditioned reflex analysor in the operational structure of the functional system. These analysors are shown to participate in all the key mechanisms of the functional system -- afferent synthesis, preparation for and decision making, correction of the results of action, and so forth. Signs of trace processes and forward reactions are evident at all levels of the analysors. Multisensory influences converge in the cortical and brainstem portions of these analysors. All levels of the analysors beginning with the first switching relays serve as a substrate to integrate heterogeneous excitations. This substrate is the basis of their participation in the key mechanisms of the functional system. 1/1 ំង រដ្ឋាយ។ និងសំពាន សហគមន៍ អាមាតនាស្រាក ស្រុក អាមាតន៍ អាម៉ាលៅ ក្នុងសេនាទៅ ហៅអាមាតនាអាចសំពោះអាមាតនេះ អាមាន និងស សេន អាមាតន៍ អាមាតន៍ អាមាតន៍ អាមាតន៍ សំរាក សំរា

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USSR UDC 669.017.12 LEVI, L. I., BALABANKIN, V. Ye., POPOVA N. Yu, and SKAZIN, V. Ye., Moscow Institute of Steel and Alloys, Scientific Research Institute of Electrical Engineering "On the Problem of Improving Nickel-Calcium Alloys" Ordzhonikidze, Tsvetnaya Metallurgiya, No 1, 1972, pp 109-111 Abstract: The deoxidation of nickel and nickel-calcium alloys by blowing the surface of the liquid bath with hydrogen and continuously evacuating gas from the furnace chamber was investigated on brands NP-2 and NO nickel. It was found that 8-12 1/min hydrogen blowing for 20 min guarantees sufficiently complete deoxidation of nickel (0.003-0.001% 02), regardless of initial oxygen concentration. With puring temperatures of 1530° and higher, the ingots showed large grains; with a temperature of 1480° equiaxial smallsized grains predominated. The typical structure of the produced NIKA alloy is discussed by reference to its microstructure. These alloys contain fewer impurities than existing alloys. Two illustrations, nine bibliographic references. 1/1

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USSR UD0 621.385.032.213.6 BALABANKIN, V. YE., KULESHOVA, T.F., NIKONOV, B.P., POROVAL, N.YU. ⁴Multilayer Materials Based On Nickel With Calcium Or Strontium For Cores Of Low-Temperature Oxide Cathodes" Elektron. tekhnika. Nauchno-tekhn. sb. Elektron SVCh (Electronic Technology. Scientific-Technical Collection, Microwave Electronics), 1970, Issue 9, pp 110-116 (from RZh--Elektronika i yeye primeneniye, No 1, January 1971, Abstract No 1A68) Translation: A multilayer core is proposed for an oxide cathode, operating at temperatures of 850-1050° K, with the object of stabilizing the speed of entry of an activator into the oxide layer. The multilayer core is made in the form of a band of nickel with addition of calcium or strontium, covered from both sides by a film of pure nickel. An alloy of nickel with calcium or strontium and nickel of mark NVK serves as a starting material for the production of such The joint of the billet is accomplished on the unit for diffusion welding bands. A 360.08 in a yacuum at a temperature of 850 + 250 0 and a specific pressure of 0.8-1.0 kg/mm². The welded billets are rolled without heating, with intermediste annealings in a vacuum (or in an H, atmosphere) at a temperature of 1/2

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BALABANKIN, V. Ye., et al., <u>Elektron. tekhnika. Nauchno-tekhn. sb. Elektron SVCh</u> 1970, Issue 9, pp 110-116 (from <u>RZh--Elektronika i yeye primeneniye</u>, No 1, Jan 1971, Abstract No 1A68)

 $800 \pm 25^{\circ}$ C after a total reduction in area of ~50%. The maximum gas evolu-

tion of the multilayer bands containing Ni with the addition of Ca and which is heated to 1000° C in a vacuum (pressure $\leq 10^{-6}$ mm mercury) for 20-30 min was observed at $800-850^{\circ}$ C and did not exceed 4 cm³/100 g. Under identical conditions of test, bands containing nickel with the addition of strontium gave off the maximum quantity of gases at a temperature of 900-950° C. 5 111. 4 tab. 9 ref. G. B.

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CIA-RDP86-00513R002202520004-4

USSR POPOVA "Altitude and Health" Moscow, Rabochaya Gazeta, 6 Feb 70, p 4 Translation: Mountains are attracting increasing numbers of scient-ists with very different specialties - from geologists to astronomers and space explorers. Frommountains they can observe the sky without the interference created by the dense layer of atmosphere on flat ground and study man's ability to adapt to rarefied air. However, the conditions under which the investigators have to work in the mountains are fairly difficult. The experience of international mountain climbers and scientific expeditions in the Himalayas, in the region of the highest peak on earth, Jonolungma, shows that the maximum level at which man can stay for any length of time is about 5500 meters above sea level. This is exactly the altitude of Elbrus. That is why the gaze of many Soviet scientists is fixed on the Caucasus. Here excellent natural conditions for all kinds of research are to be found. 1/6 - - 98 -

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TE THE ALLER AS THE TRENT STREET, STREE

USSR

POPOVA, O., Moscow, Rabochaya Gazeta, 6 Feb 70, p 4

stop here at "Ledovaya Baza", 3800 m above sea level. The last point of "civilization", the highest in the Soviet Union, is the tourist hostel "Priyut Odinnadtsati", 4100 m above sea level. Many scientific expeditions have their bases here.

But this altitude does not meet all the requirement of the physiologists. They are planning to build a laboratory on the eastern was made to put up a cottage here, but a hurricane carried off the comparatively frail structure. Last year two teams from Sirotinin's for work there. It was decided to dig out a small place in the rocks. A small new prefabricated house will be erected there with the help nology and Lenin Prize laureate, agreed to cooperate in the project.

This year the Ukrainian physiologists are planning to do their research on the highest peak in Europe.

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	LEASE: 08/09/2001 CIA-RDP86-00513R002202520004	
1/2 019 TITLE-CHEHILUMINESCENCE ACID CATALYZED BY COBAL AUTHOR-(03)-ZAKHAROV, I.V	UNCLASSIFIED PROCESSING DATE	
COUNTRY OF INFO		
SOURCE-DOKL. AKAD. NAUK S	558 1970 100/51 1100 -	
DATE PUBLISHED70		
TOPIC TAGS-CHENTLUNINGSCO	NCE, PERUXIDE, METAL COMPLEX COMPOUND, T COMPOUND, SODIUM COMPOUND, BROMIDE, OXIDATION	
TOPIC TAGS-CHEMILUMINESCE NAPHTHALENE, ORGANOCOBAL	SCHOY SUDICH COMPOUND, BROWLDE, OXIDATION	
SUBJECT AREAS-CHEMISTRY TOPIC TAGS-CHEMILUMINESCEN NAPHTHALENE, ORGANOCOBAL CENTREL MARKING-NO RESTRIC DECUMENT CLASS-UNCLASSIFIE PROXY REEL/FRAME-3001/0041	TIONS	

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CIA-RDP86-00513R002202520004-4

UDC 546.711'28:548.55 DVORINA, L. A., and POPOVA, O. I., Institute for Froblems of USSR Material Science, Academy of Sciences UKrSSR "Preparation of Nickel Disilicide and Its Chemical Properties" Moscow, Neorganicheskiye Materialy, Vol 6, No 11, Nov 70, pp 1969l Abstract: A study was made of methods of elemental synthesis and silicothermal reduction of nickel oxide in vacuum. The starting materials were metallic nickel in powder from (GOST 9722-61), nickel oxide, and powdered metallic silicon (KP-1 grade). 61), nickel oxide, and powdered metallic silicon (KP-1 grade). The investigation was conducted in the 500-10000 C range. Nickel disilicide is formed at 900° C after 1 hr exposure by the direct reaction of clonenterus minical and william by the direct reaction of elementary nickel and wilicon. In the by the direct reaction or elementary mickel and million. In the silicon-thermal reduction of mickel oxide in vacuum, the reaction mixture is heated at 800-1200° C with intermediate exposures for 1 hr at 100° C intervals. The final exposure at 1200° C for 1 hr at 100° C intervals. for L nr at Luo- & Intervars. The Lings exposure at 1200 & lasts 2 hrs. Nickel disilicide is stable toward mineral acids, alkalies, and other chemically chorrosive agents. 1/1_ h() -

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"APPROVED FOR RELEASE:	08/09/2001	CIA-RDP86-00513R002	202520004-4	
1/2 018 TITLESOME CHEMICAL PROPERTIE AUTHOR-(02)-POPOVA, 0.1., BIRY COUNTRY OF INFOUSSR	INCLASSIFIED S OF MOLYBOENU UKOVA, R.S.	PROCESSING DATE H GERMANIDE POWDER -U	27NOV70	
SOURCEPORDSH. MET., AKAD. NA DATE PUBLISHED70	UK UKR. SSR; N	J. 3, 89-93(MAR 1970)		
SUBJECT AREASCHEMISTRY, MATER TOPIC TAGSCHEMICAL RESISTANCE	TALS , MOLYBDENUM C	OMPOUND, OXYGEN, AIR		
CONTROL MARKINGNO RESTRICTION DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME3002/0101		022617010001003100891	0093	
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Immunology USSR UDC 576.858.73 BORISOVA, S. M., POPOVA, O. M., and TERSKIKH, I. I., Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, Muscow "Production of a 'Cold' Variant of an Ornithosis Strain and Investigation of Its Biological Properties" Moscow, Vopresy Virusologii, No 6, Nov/Dec 70, pp 721-723 Abstract: The effect of low temperature (8°C) on the development of the ornithosis inducer in a culture of chick fibroblasts was studied. In particular, it was found that the cold-adapted strain produced was no longer pathogenic when applied intranasally to white mice, which are usually highly susceptible to this strain. The entigen prepared was active in complement-fixation and hemagglutination tests. The strain also possessed pronounced immunogenic properties, so that it appears to be useful as a strain for live vaccination. 1/1

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APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002202520004-4

UDC 624.131.522:624.152.525 USSR POPOVA, O. V. "Distribution of Stresses and Displacements in a Homogeneous Half-Space Beneath a Circular Foundation" Osnovaniya, Fundamenty i Mekhanikika Gruntov, No 2, 1972, pp 10-12. Abstract: The contact axisymmetrical problem is studied with full contact Abstract: The contact axisymmetrical problem is studied with full contact between the bottom of a circular, rigid foundation and the base and formulas between the bottom of a circular rigid foundation. The formulas produced passing through the center of the circular foundation. The formulas produced are compared with the theoretical studies of other authors. 1/1 - 23 -

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002202520004-4

Epidemiology P., and PRATUSEVICH, R. M., PISKAREVA, N. A., KUZNETSOVA, E. Ye., POPOVA, R. P., and PRATUSI Leningrad Scientific Research Institute of Childrens Infections "Acute Febrile Diseases in Children Caused by Mixed Enterovirus and Adenovirus Infection" Moscow, Voprosy Virusologii, No 5, 1971, pp 624-625 Abstract: Hospitalized children convalescing from dysentery (Sh. sonnei) developed a disease of focal character. Virological and serological studies revealed the participation of two viral agents -- adenovirus and ECHO-1 virus. The clinical picture included the syndrome of serous meningitis in some cases s ... and symptoms of respiratory infection in others. In some children, it was impossible to tell from the clinical symptoms which pathogen was more significant. In a few cases, the viral infection exacerbated the dysentery. an isolated group of children recovering from dysentery (Sh. sonnei) experienced an outbreak of diseases with heterogeneous clinical symptoms caused by ECHO-1 virus and adenovirus type 3. 1/1

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PISKAREVA, N. A., KUZNETSOVA, E. Ye., POPOVA, B. P., BRODOVA, M. D., TRUSHINSKAYA, E. P., and YAKIMANSKAYA, K. T., Leningrad Scientific Research Institute of Childrens Infections "Virological, Clinical and Immunological Characterization of Hong Kong A2 Influenza in Children" Moscow, Voprosy Virusologii, No 4, Jul/Aug 71, p 492 Translation: The 1969 influenza outbreak in Leningrad was caused by a new antigenic strain of influenza virus of sero type A2 (Hong Kong). During the outbreak, tests were performed on chick embryos infected with materials collected from 53 patients with sporadic forms of the disease, with eight samples collected from foci, and with 10 samples collected from children who had died of influenza. Twenty-three hemagglutinating agents were isolated and identified as A2 Hong Kong influenza viruses. All strains were sensitive to inhibitors. Serological investigation of paired sera of 388 persons revealed that specific immunological shifts took place in children fairly early, Positive shifts occurred in 40.2p of childron aged up to 1 year, which considerably exceeded analogous shifts in a similar group of children in previous years. The express method of immunofluorescent analysis of nose and throat shears yielded positive 1/2 - 34 -

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TITLE-COMPLEX SALTS OF ALLYL ALPHA CHLORD ETHERS WITH ANTIMONY AUTHOR-(03)-POPOVA, R. YA., PROTOPOPOVA, T.V., SKOLDINCV, A.P. COUNTRY OF INFO-USSR SOURCE-ZH. ORG. KHIM. 1970, 6(4), 879-80 DATE PUBLISHED-70 SUBJECT AREAS-CHEMISTRY TOPIC TAGS-ETHER, ORGANIC COMPLEX COMPOUND, ORGANIC SALT, CHLORINATED ORGANIC COMPOUND, ORGANOANTIMONY COMPOUND, CHLORIDE CENTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2176 CIRC ACCESSION NU--AP0125756 THE ADDRESS OF THE CONTRACTOR OF THE

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M. M. Fedorov), 1972,	vyp. 25, pp 117-12	0 (from <u>RZh-Kiber</u>	netika, No	7, Jul 72,
Abstract No 7V598)				
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DATE PUBLISHEDJAN70					
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CONTROL MARKINGNO RESTRICTI	ONS				
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Ň USSR BERESTOVSKIY, C. N., et al., Tsitologiya, Vol 14, No 12, 1972, pp 1,461-1,467 published data. In addition to the primary purpose of studying the role of the axoplasm during the excitation process, the described experiments permit the determination of possible artifacts when studying the structural changes in the membrane from a single action potential by the given optical methods. 2/2 A COLORED CONTRACTOR STORE

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KONCHALOVSKAYA, N. M.,	POPOVA, T. B., and BYALKO, N. K.	
"Toxic-Chemical Injury	of the Liver"	
V sb. Tekhn. Progress Moscow, 1973, pp 84-88 Abstract No 24F 2156)	i Gigiyena Truda (Technical Progress and Labor Hygiene), (from RZh-Biologicheskaya Khimiya, No 24, Dec 73,	
functional differentia 131 tagged dye Bengal protein metabolism, etc. alevation of the activ	review devoted to the problems and methods of the 1 diagnosis of the toxic liver injuries (a test with Rose, billirubinemia, activity of serum enzymes, c). It was noted that with toxic hepatitis, the ity of aminotransferases was manifested oftener and changes of other enzymes (pseudoCE, aldolase,	
functional differentia 131 tagged dye Bengal protein metabolism, etc. alevation of the activ	1 diagnosis of the toxic liver injuries (a test with Rose, billirubinemia, activity of serum enzymes, c). It was noted that with toxic hepatitis, the ity of aminotransferases was manifested oftener and changes of other enzymes (pseudoCE, aldolase,	
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TITLE-ESSENTUKI HEALTH RESORT CHEMICAL AFFECTION OF THE LI AUTHOR-(05)-KENCHALGVSKAYA, N. POPOVA-I-B., VISHNEVSKAYA, CGUNTRY OF INFO-USSR	YU. S.
DATE PUBLISHED-70	NA. 1970, VOL 48, NR 3, PF 65-69
SUBJECT AREAS-BIOLOGICAL AND Topic tags-liver disease, min	NERAL, WATER, MUD, LIPID NETABOLISM
CONTROL MARKINGNO RESTRICTIO DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME3001/0905	ONS STEP NO
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