UDC 669.35:621.78

GOREV, K. V., TOFPENETS, R. L., and MALASHENKO, L. M., Physico Technical Institute Academy of Sciences Belorussian SSR

"Electron Microscope Study of Stress Relief of a 3.2% Titanium Alloy of Copper"

Minsk, Izvestoya Akademii Nauk BSSR, Seriya Fiziko-Tekhnicheskikh Nauk, No 4, 1971, pp 29-32

Abstract: Results are presented from a study of stress relief of deformed precipitation-hardening 3.2% titanium alloy of copper during various subsequent annealing temperatures. During repeated heating of deformed pre-aged alloy both processes connected with complete decomposition of the solid solution and the stress relief processes (recovery, pllygonization, and recrystallization) take place. The curve for the variation of the alloy characteristics is in this case the resultant, and it cannot be used to describe the stress relief kinetics. The best method of studying recovery is the electron microscope. Results are presented from an electron microscope study of aging alloy Cu + 3.2% 1/2

- 70 -

GOREV, K. V., et al., Izvestiya Akademii Nauk BSSR, Seriya Fiziko-Tekhnicheskikh Nauk, No 4, 1971, pp 29-32

Tr permitting the variation of the dislocation structure of the alloy matrix to be traced during its deformation and complete recrystallization annealing. The structure of the deformed alloy is analogous to the structure of pure copper and is characterized by nonuniform dislocation distribution. For characterized by nonuniform dislocation distribution. For samll annealing times at 350°C no significant changes in structure were observed. The possibility of developing polygonization at this temperature and during recrystallization at 600°C is demonstrated.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

1/3' 022 UNCLASSIFIED PROCESSING DATE--090CT70

TITLE--STRUCTURE AND MAGNETIC PROPERTIES OF A CONTROLLABLE FE-FE SUBX SB FEUTECTIC -U-

AUTHOR-(03)-GOREV, K.V., KUPCHENKO, G.V., NESTEROVICH, L.N.

COUNTRY OF INFO-USSR

Jummer

SOURCE-VESTSI AKAD. NAVUK BELARUS. SSR, SER. FIZ.-TEKH. NAVUK 1970, (1), 79-81

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS, PHYSICS

TOPIC TAGS-EUTECTIC MIXTURE, IRON, ANTIMONY, HYSTERESIS LOOP, CRYSTALLIZATION, ANISOTROPY, MAGNETIC PROPERTY

CENTROL MARKING--NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PRUXY REEL/FRAME--1993/1967

STEP NO--UR/0201/7J/000/001/0379/0081

CIRC ACCESSION NO--APOLI4379

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

PROCESSING DATE--090CT70 UNCLASSIFIED 2/3 022 CIRC ACCESSION NO-APO114379 ABSTRACT. THE FE-FE SUBX SB EUTECTIC, WITH ABSTRACT/EXTRACT--(U) GP-0-THE COMPN. 48PERCENT FE AND 52PERCENT SB, WAS PREPD. BY MELTING 99.984PERCENT PURE CARBONYL FE AND 99.999PERCENT PURE SB IN QUARTZ CRUCIBLES IN A PURIFIED AR ATM. THE BOULES OBTAINED WERE ZONE REFINED. THE SAMPLES FOR METALLOGRAPHIC AND MAGNETIC STUDIES, 20 TIMES 20 TIMES 4 MM. WERE SECTIONED FROM THE BOULE PARALLEL TO ITS UPPER SURFACE AND PARALLEL TO THE CRYSIN. DIRECTION. THE CONTROLLABLE EUTECTIC CONSISTS OF FE FIBERS WHICH ARE ARRANGED IN THE FE SUBX SO MAIRIX PARALLEL TO ONE ANOTHER AND TO THE GROWTH DIRECTION. AT A CRYSTN. RATE OF 6-12 CM-HR, THE PARALLEL ARRANGEMENT OF THE FIBERS IS PRESERVED, BUT THEIR DIAM. DECREASES FROM 1.5 TO 1 MU. THE FE PARTICLES ARE, AS A RULE, NOT COMBINED WITH ONE ANOTHER, BUT SIT IN THE MATRIX INDIVIDUALLY AND SEP. AS A RESULT OF THE PARALLEL ORIENTATION OF THE FE PARTICLES, THE MAGNETIZATION CURVES ALSO DIFFER. INFLECTION OF THE CURVE ON MAGNETIZATION ALONG THE FIBERS IS GENERALLY OBSD. AT MAGNETIC INDUCTION MAGNETIZATION ACROSS THE FIBERS IS DIFFICULT TO ACHIEVE. IN THE STRUCTURE OF THE CAST EUTECTIC, THERE ARE NO PREFERRED SATN. INDUCTION IS REACHED IN A FIELD ORIENTATIONS OF THE FE PARTICLES. OF GREATER THAN 7 KOE. THE HYSTERESIS LOOPS OF THE FE-FE S. X SB EUTECTIC ARE VERY NARROW. FOR SAMPLES WITH PARTICLES 1.5 MU IN DIAM., THE RESIDUAL INDUCTION ALONG THE FIBERS IS 1150-1210 G; AND THE COERCIVE FORCE IS 19-21 OE. DIRECTED CRYSTN. OF THE FE-FE SUBX SB EUTECTIC LEADS TO CONSIDERABLE ANISOTRUPY IN ITS MAGNETIC PROPERTIES DUE TO UNIDIRECTIONAL ARRANGEMENT OF THE FE PARTICLES IN THE FE SUBX SB MATRIX.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

1945 | 1945 | 1945 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 194

3/3 O22 UNCLASSIFIED PROCESSING DATE--090CT70 CIRC ACCESSION NO--APOLI4379 ABSTRACT/EXTRACT--FACILITY: FIZ.-TEKH. INST., MINSK, USSR.

89

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

Acc. Nr: AP0052314

Ref. Code: UR0238

PRIMARY SOURCE:

Fiziologichniy Zhurnal, 1970, Vol 16, Nr 2,

PP228-236

ON REFLEX CARDIOGENOUS MECHANISMS FOR REGULATION OF VASCULAR TONE

M. M. Gorev. C. a. Moybenko

The A. A. Bogomoletz Institute of Physiology, Academy of Sciences, Ukrainian SSR, Kiev

Summary

The article deals with the analysis of reflex interrelations between the heart activity and periphery vessel tone.

In the experiments on dogs with applying the method of artificial circulation, the separate perfusion of systemic circulation and heart was realized.

The left-ventricle zone is shown to be a basic reflexogenic zone of heart taking part in regulating the tone of the systemic circulation vessels. Reflectory vasomotor shifts with stimulation of this zone receptors are of adaptive character.

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A high sensitivity is observed of the receptor apparatus of the left heart to the changes in its work regime, which makes possibile to substantiate the statement on an important role of this reflexogenic zone in regulating the vascular tone under physiological conditions.

Essential differences in the character and manifestation of the vasomotor reflexes when stimulating different receptor zones of heart enable one to come to a conclusion on functional heterogeneity of the heart receptor field, on different role of its separate reflexogenic zones in regulating the vascular tone.

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fdh

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USSR

UDC 576.858.5.07

VAVILOVA, YU. G., GOREV, N. YE., and SMORODINTSEV, A. A., All-Union Scientific Research Institute of Influenza, Leningrad

"The Use of a Two-Phase Water-Polymer System for Concentrating Some Respiratory Viruses in Human Nasopharyngeal Swabs"

Moscow, Voprosy Virusologii, No 5, Sep/Oct 72, pp 623-625

Abstract: The reagents used were a 30% aqueous solution of polyethylene glycol (M.W. 6000) and a 6% aqueous solution of dextran (M. W. 20,000). Tenml samples containing a known quantity of virus in a phosphate buffer of pH 7-7.5 were mixed with 8 ml of the first reagent and 2 ml of the second. The mixtures were repeatedly shaken for 1 hr and then centrifuged for 10-15 min at 1000-1500 rpm. The virus was recovered almost 100% from the bottom stratum of dextran. A 10-100-fold concentration was obtained on all virus strains usel. A similar treatment of human nasopharyngeal swabs taken 3-4 days after administration of live anti-influenza vaccine increased the frequency of virus isolation of 75.4% for A2 Hong Kong-68, 61.5% for B-USSR, and 14.4% for B-Dushanbe; the corresponding control figures were 52.5%, 38.4% and 25%. The two-phase water-polymer system is recommended for routine laboratory procedures of isolating influenza virus, parainfluenza virus, and adenovirus from the respiratory pathways of patients.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

Miscellaneous

USSR

UDC 542.5

GOREV V. A., GUSEV, P. A., and TROSHIN, YA. K., Institute of General and Inorganic Chemistry, Academy of Sciences UkrSSR, Kiev

"Modelling of the Rise and the Combustion of Light Cas Cloud in the Atmosphere"

Moscow, Doklady Akademii Nauk SSSR, Vol 205, No 4, Aug 72, pp 875-878

Abstract: The problem of the movement of a cloud of burning gas and its mixing with surrounding air is analyzed, the upward movement is due to the hydrostatic lifting force. On the strength of theoretical considerations the conclusion was reached that the modelling of such a system is possible on the basis of Frude numbers and geometrical similitude. Theoretical principles were examined through laboratory experiments with and without ignition; the agreement between the calculated and experimental values was found to be very good. Initially the cloud accellerates, reaching a maximum rate of rise, and then the upward movement becomes gradually slower.

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CSO: 1841-W

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UDC 617-001.18-08

ZHADENOV, I. I., CHUYENKOV, V. F., and GOREINKEL', I. V., Chair of Hospital Surgery, Therapeutic Faculty, Saratov Medical Institute

"Recovery of Patients from Deep Hypothermia"

Moscow, Khirurgiya, No 1, 1970, pp 126-127

Abstract: Excerpts from the case histories of two drunks brought to the hospital unconscious (the rectal and axillary temperatures were 24.6° C and 23.6° C in one and 22.8° C and 21.8° C in the other) and successfully resuscitated by active therapy are presented. Therapy included transfusions of whole blood, 10% glucose solution, blood substitute, protein hydrolysates, intravenous injection of sodium bicarbonate, vitamins, hydrocortisone, novocain block, and oxygen therapy.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

GOREVA, G. A.

"The Problem of Approximate Straightenability of Certain Sets of Lines"

Uch. zap. Ivanov. gos. ped. in-ta [Scientific Writings of Ivanov State Pedagogics Institute], 1972, 117, pp 125-135 (Translated from Referativnyy Zhurnal - Kibernetika, No 8, 1973, Abstract No 8 V676 by V. Mikheyev)

Translation: The problem is solved of the precise nomographability of a certain function and, in particular, the straightenability of its Cartesian abacus. The function is assumed sufficiently smooth. The question of approximate straightenability of certain sets of lines located in plane xy by a homeomorphism of the form $x'=\phi(x)$, $y'-\psi(y)$, $\phi(0)=\phi(0)=0$ of plane xy in plane x'y' is studied without assuming differentiability of any functions.

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UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--USE OF MASS SPECTRUMETRY FOR DETERMINING THE PUSITION OF THE LABEL
IN CARBON 13 LABELED NAPYTHALENES -UAUTHOR-(03)-KOPTYUG, V.A., ISAYEV, I.S., GORFINKEL, M.I.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (4), 845-9

DATE PUBLISHED----70

SUBJECT AREAS--NUCLEAR SCIENCE AND TECHNOLOGY, CHEMISTRY

TOPIC TAGS -- MASS SPECTRUM, CARBON ISOTOPE, CHEMICAL LABELLING, NAPHTHALENE, GRIGNARD REACTION, KETONE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1015

STEP NO--UR/0062/70/000/004/0845/0849

CIRC ACCESSION NO--APO134727

012 UNCLASSIFIED. PRUCESSING DATE--13NOV70 CIRC ACCESSION NO--AP0134727 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE GRIGNARD SYNTHESIS STARTING WITH CARBOXYLATION OF PHCH SUB2 CH SUB2 CH SUB2 MGBR WITH PRIME13 CO SUB2, FOLLOWED BY DEHYDRATION OF THE ACID WITH POLYPHOSPHORIC ACID AND HEATING THE TETRAHYDRONAPHTHALONE WITH NAOH, KOH AT 220DEGREES GAVE ANPHTHALENE 1 PRIME13 C IN 54PERCENT RADIOCHEM. YIELD. FROM PHCH SUB2 CH SUB2 MGBR AND PRIMETS CO SUB2 WAS PREPD. THE TAGGED PENYYEPROPANOL BY REGN. WITH LIALH SUB4 OF THE INTERMEDIATE ESTER; THE ALC. CONVERTED TO RBR AND THIS CONVERTED TO RMGBR, THEN CARBOXYLATED WITH ORDINARY CO SUB2 GAVE AS ABOVE 50.6PERCENT MAPHTHALENE, 2 PRIME13 C. THESE WERE OXIDIZED CONVENTIONALLY TO 1,4, NAPHTHOQUINONE, PRIME13 C WHICH ON ELECTRON IMPACT DISSOCD, INTO PARTICLES WHOSE SPECTRUM WAS RECORDED IN A MASS SPECTROMETER. TYPICAL DISTRIBUTION PATTERNS WERE OBTAINED AND THESE, WITH SUITABLE EMPIRICAL EQUATIONS, WERE FOUND TO BE USEFUL FUR DETN. OF THE SITE OF THE PRIMELS C TAG IN NAPHTHALENE. NOVOSIBRISK. INST. ORG. KHIM., NOVOSIBIRSK, USSR. HALLASSIFIED

Superalloys

USSR

UDC 539.67

VLADIMIROVA, N. N., GLOTOVA, L. S., GORFINKEL', V. B., DUNAYEV, F. N., LOBANOVA, N. B., and YAKOVLEV, G. P.

"Effect of Magnetic Structure on Internal Friction of Nickel and Ferronickel Alloys"

Sb. "Vnutrenneye treniye v metallicheskikh materialakh" (Internal Friction in Metallic Materials), Moscow, Izd-vo "Nauka," 1970, pp 187-191

Abstract: The effect of tensile stresses and heat treatment on the ferromagnetic internal friction of nickel, permalloy-66, and permalloy-50 is studied.

It is shown that the effect of external static tensile stresses on internal friction and vibration period depends on both the magnitude and sign of saturation magnetostriction of a given material. Hysteresis of the logarithmic decrement \hat{O} and of vibration period T was experimentally revealed from the magnitude of tensile stresses.

The effect of heat treatment for 66%Fe, 80%Ni alloys was determined. The magnetic structure obtained as a result of heat treatment affects the internal friction. 4 figures, 3 references.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

USSR UDC 633.11

GORGIDZE, A. D., Institute of Botany, Georgian Academy of Sciences

"Main Routes of Origin and Development of Initial Species of Cultivated Wheat"

Tbilisi, Soobshcheniya Akademii Nauk Gruzinskoy SSR, No 2, 1973, pp 125-127

Abstract: Some existing wheat species were experimentally resynthesized in an effort to trace the main directions of evolution of Triticum L. The species Tricicum palaeo-colchicum Men. Tr. macha Pok. et Men., Tr. timopheevi Zhuk. Tr. dicoccoides Körn., Tr. zhukowskyi Men. et Eritz., Tr. monococcum, Tr. timonovum Heslot et Ferrary, and Aegilops squarrosa were crossed with each other or exposed to X-irradiation to obtain mutants. The characters (karyology, embryology, morphophysiology, etc.) of the experimental biotypes obtained by hybridization and mutation were inheritable in most cases. The identity of the spontaneously and experimentally obtained species was confirmed by good crossability and production of highly fertile offspring.

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USSR

UDC: 51

GORGIDZE, I. A.

"On a Model of Intersectoral Planning of Agricultural Production"

Tr. Vychisl. tsentra AN GruzSSR (Works of the Computing Center of the Academy of Sciences of the Georgian SSR), 1972, 11, No 1, pp 34-45 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V592)

[No abstract]

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HISSR BURKOV, V. N. and GORGIDZE, I. A. UDC: 62-506

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"The Adaptive Planning Principle in Active Systems"

Tbilisi, Soobshcheniya Akademii Nauk Gruzinskoy SSR, vol 64, No 3, December 1971, pp 553-556

Abstract: A formal description of the active element as a model of the man-machine system is considered in which the state x of the active element is a scalar random quantity, and the limiting possibilities of the element are described by the limiting distribution F(x). A characteristic of the man-machine system is the capability of operating below the limiting possibilities in the absence of interestedness. This characteristic can then be taken into account by determining the distribution function $F(\omega,x)$; where ω is a parameter of the selected active element; and $F(\omega,x)$ has the value of F(x) if $x<\omega$, and 1 if $x>\omega$. The active element may be a business enterprise or a sovkhoz, while x corresponds to the production output or the quantity of the harvest. The formal description thus developed serves as the starting point for analyzing the system in the adaptive planning mode. The authors express their gratitude to S. V. Yemel'yanov, Corresponding Hember of the USSR Academy of Sciences, for his advice. They are

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UDC: 62-506

BURKOV, V. N., et al, Soobshcheniya Akademii nauk Gruzinskoy SSR vol 64, No 3, Dec 71, pp 553-556

affiliated with the Institute of Control Problems (Automation and Telemechanics), USSR Academy of Sciences, and the Computer Center, Georgian SSR Academy of Sciences.

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cso: 1863-W

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USSR

BURKOV, V. N., IVANOVSKIY, A. G., GORGIDZE, I. A.

"Some Problems of Control of Active Systems"

Aktual'n. Vopr. Tekhn. Kibernetiki [Pressing Problems of Engineering Cybernetics -- Collection of Works], Moscow, Nauka Press, 1972, pp173-175 (Translated from Referativnyy Zhurnal Kibernetika, No 4, 1975, Abstract No 4V592, by the authors).

Translation: The application of the principles of "open control" to the solution of problems in control of active systems is studied. In active elements are given, the capabilities of which are defined by plans with priorities S_{ij} ($i=1,2,\ldots,n$, $j=1,2,\ldots,n$). Conditions of full agreement of the active system (agreement factor equal to unity) are defined. For the case $C_{ij} = C_{j}$, the possibility is proven of full agreement, and an algorithm for solution of the problem is presented.

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USSR

BURKOV, V. N., IVANOVSKIY, A. G., GORGIDZE, I. A.

"Optimization of Models of Economics Based on the Principle of Open Control"

Vopr. Ekon.-mat. Modelir. [Problems of Economic and Mathematical Modeling --Collection of Works], Moscow University Press, Moscow, 1971, pp 5-16, (Translated from Referativnyy Zhurnal, Kibernetika, No 2, 1972, Abstract No 2 V616).

NO ABSTRACT.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

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USSR

UDG 591.513+591.488.4

GORGILADZE, G. I. and KAZANSKAYA, G. S., Institute of Biomedical Froblems, Moscow,

"Effect of Immobility on Habituation of the Vestibular Apparatus"

Moscow, Doklady Akademii nauk SSSR, No 4, 1973, pp 1,005-1,008

Abstract: A group of rabbits kept immobilized in special cages for 30 days were rotated once counter-clockwise, then 20 times clockwise at 5-minute intervals, and once again counter-clockwise. The nystagmic reaction of the control animals (maintained under normal vivarium conditions) varied in all the parameters examined. The rate of the slow phase, amplitude, frequency, total number of nystagmic movements, and duration of the reaction gradually decreased from rotation to rotation. In the case of the experimental rabbits the nystagmic reactions were the same as in the control during the first 7 tests, but thereafter remained at the same level, unlike the control where the intensity of the nystagmus progressively diminished. There was no perceptible weakening of the reaction of the hypokinetic animals according to all the parameters measured. The reason for the disappearance of habituation may be the marked lowering of adrenergic function following prolonged hypokinesia.

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WC: 612.743

CORGILADZE, G. I., and KAZANSKAYA, G. S.

"Dynamics of Nystagmus, EEG, and Some Other Reactions Upon Pepeated Erief Caloric Irritation of the Labyrinths of Rabbits"

Leningrad, Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenova, Vol 57, No 1, 1971, pp 45-51

Abstract: Adaptation of the vestibular apparatus to repeated brief caloric (thermal) irritation by the irrigation of labyrinths with water at 20°C was studied on adult rabbits in a state of wakefulness. As shown by the nystagens reaction indexes, some of the animals became adapted to the irritation after 1h-20 irrigations (group I), while others developed adaptation after 70-90 irrigations (group II). Adaptation was retained by the rabbits for a certain length of time, particularly in group II, and was transferred to the contralateral labyrinth. Application of other stimuli (pain, auditory, or olfactory irritation) or intravenous injection of 0.1 ml of a 20% solution of Na caffeinate terded to restore the wakened nystagens reactions to their initial level. The caloric irritation also produced changes in the EEO (desynchronization in the motor rones) and a drop in arterial pressure. Upon repeated caloric irritation, those changes gradually

USSR

GORGILADZE, G. I., and KAZANSKAYA, G. S., Fiziologicheskiy Zhurnal SSSR imeni I. M. Sechenova, Vol 57, No 1, 1971, pp 45-51

disappeared while the mystagonus was still pronounced. It may be assumed that the reticular formation of the brain stem plays a leading role in vestibular adaptation reactions.

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UDC 612.833.81+612.881

GORGILADZE, G. I., Moscow

"Significance of the Cortical Vestibular Projection Zones in the Formation of Vestibular Conditioned Reflexes and in Spatial Orientation of Cats"

Moscow, Zhurnal Vysshey Nervnoy Deyatel'nosti imeni I. P. Pavlova, Vol 20, No 4, Jul/Aug 70, pp 663-665

Abstract: Conditioned reflexes (turning and tilting of the head) to a tone of 1000 Hz and differentiation (turning of the head in the opposite direction) in response to a tone of 500 Hz were formed in cats. The animals were also conditioned to find a feed box when blindfolded. The spatial orientation of the animals was studied after development of the reflexes and differentiation. The anterior portions of the ecto- and suprasylvian gyri were then bilaterally extirpated. The conditioned reflexes remained unimpaired after the operation, but the animals were unable to find the feed box with their eyes covered. In another series of experiments in which the same cortical zones were extirpated beforehand, the conditioned reflexes and differentiation were formed as readily as in normal animals, but the cats could not find the feed box when blindfolded. The cortical projection zones thus play no part in the formation

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USSR

GORGILADZE, G. I., Zhurnal Vysshey Nervnoy Deyatel'nosti imeni I. P. Pavlova, Vol 20, No 4, Jul/Aug 70, pp 663-665

of relatively simple vestibular conditioned reflexes in cats, but they are essential to the spatial orientation process in the animals.

5/5

- 45 -

UDC 612.822.3

GORGILADZE, G. I., and KAZANSKAYA, G. S.

"Study of the Process of Habituation of the Vestibular Apparatus to Momentary Caloric Stimulation of Labyrinths in Rabbits"

Moscow, Zhurnal Vysshey Nervnoy Deyatel'nosti imeni I. P. Pavlova, Vol 20, No 5, Sep/Oct 70, pp 1,086-1,088

Abstract: Caloric tests consisting of an application of 5 ml of water at 20°C for 1.5-2 seconds, carried out in one labyrinth during the prehabituation period, produced a nystagmic eye reaction which varied considerably from animal to animal. Some of the animals exhibited a rapid habituation process (14-20 applications), while others were slower (70-90 applications). Addition of an extra stimulus (pain, sound) led to dehabituation and a return of the original reaction. Tests carried out to determine the degree of preservation of habituation showed that within 24 hours the animals failed to show a nystagmic reaction to caloric stimulation. When contralateral labyrinths were stimulated to check the transfer of habituation from one vestibular apparatus to another, some animals showed a weaker nystagmic reaction and others a stronger one. The rabbit vestibular 1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

USSR

CORGILADZE, C. I., and KAZANSKAYA, G. S., Zhurnal Vysshey Nervnoy Deyatel'-nosti imeni I. P. Pavlova, Vol 20, No 5, Sep/Oct 70, pp 1,086-1,088

apparatus is thus clearly capable of habitatuion to caloric stimulation of the labyrinths.

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1/2 017 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--MCRPHJLOGICAL AND FUNCTIONAL CHANGES OF THE MUCUSA OF THE STUMP OF
THE OPERATED STOMACH IN PATIENTS WITH ULCER DISEASE -U-

AUTHOR-GURGOL, V.A.

COUNTRY OF INFO--USSR

SUURCE--VRACHEBNOYE DELO, 1970, NR 5, PP 52-56

DATE PUBLISHED -----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-STOMACH, SURGERY, DIGESTIVE SYSTEM DISEASE, MURPHULOGY

CCNTRCL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1729

STEP NO--UR/0475/70/000/005/0052/0056

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CIRC ACCESSION NO--AP0129097

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PROCESSING DATE--300CT70 UNCLASSIFIED 2/2 017 CIRC ACCESSION NO--AP0129097 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. A MORPHOLOGICAL STUDY OF THE MUCOSA OF THE STUMP OF THE CPERATED STOMACH BY MEANS OF ASPIRATION GASTROBIOPSY IN 50 PATIENTS WITH ULCER DISEASE INDICATES THAT THIS METHOD REFLECTS THE CHARACTER OF THE PATHOLOGICAL PROCESS IN THE MUCOUS IT WAS FOUND THAT THE MAJORITY OF PATIENTS OPERATED FOR ULCER SUFFER OF DIFFERENT FORMS OF GASTRITIS: SUPERFICIAL, DEEP AND MEMBRANE. ATROPHIC, WHICH RESULTS IN A DECREASE OF THE FUNCTIONAL CAPACITY TREDUCTION OF ACIDITY UP TO HISTAMINE RESISTANT ACHLORHYDRIA). FACILITY: KAFEDRA GASTRUENTEROLOGII I DIYETOTERAPII, KIYEVSKOGO INSTITUTA USGVERSHENSTVUVANIYA VRACHEY.

UNCLASSIFIED

1/2 013 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--EVALUATING THE WATERPROOFING CAPACITY OF PAINT AND VARNISH COATINGS
APPLIED ON CAPILLARY POROUS MATERIALS -UAUTHOR-(03)-LEPARSKIY, L.O., MYSHELOVA, G.N., GORGUNOVA, R.I.

COUNTRY OF INFO--USSR

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

DATE PUBLISHED---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--WATERPRODFING, PAINT, VARNISH, WOOD, ENAMEL, ALKYD RESIN, UREA RESIN, POLYESTER RESIN/(U)MAILH OIL BASE COATING

CONTROL MARKING--NO RESTRICTIONS

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

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

CIRC ACCESSION NU--APOIL9361

UNCLASSIFIED

2/2 013

UNCLASSIFIED

PROCESSING DATE--230CT70

CIRC ACCESSION NO--APO119361

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

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--20NOV70
TITLE--EFFECT OF SOME IMPURITIES ON THE PHOTOMECHANICAL EFFECT IN SODIUM
CHLORIDE -UAUTHOR-(02)-GORIDKO, N.YA., NOVIKOV, N.N.

CCUNTRY OF INFO--USSR

SCURCE--FIZ. TVERD. TELA 1970, 12(4), 1268-9

DATE FUBLISHED-----70

SUBJECT AREAS -- CHEMISTRY, PHYSICS

TCPIC TAGS--SODIUM CHLORIDE, PHOTDEFFECT, FUSED SALT

CENTREL MARKING--NG RESTRICTIONS

PROXY REEL/FRAME--3001/0478

STEP NG--UR/C181/70/012/004/1268/1269

CIRC ACCESSION NO--APO126230

UNGLASSIFIED

PROCESSING DATE--20NOV70 UNCLASSIFIED 016 2/2 CIRC ACCESSION NO--APO126230 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IMPURITIES IN NACL WERE ADDED TO THE MELTS AS SALTS (0.5 MULE PERCENT NA SUB2 CO SUB3, C.5 NANO SUB3, AND 0.5 NAPO SUB3), HYDROXIDES (0.1 MULE PERCENT NACH AND I NACH), OR AS GASES (G. H) INTRODUCED BY DIFFUSION. ANNEALING OF THE SPECIMENTS IN VACUO LEADS TO COMPLETE DISAPPEARANCE OF THE PHOTOMECH. EFFECT AND ANNEALING OF DEGASSED SPECIMENS IN AN O ATM. DUES NOT LEAD TO TIS REAPPEARANCE, INDICATING THAT O IONS ALONE DO NOT GIVE RISE TO THE PHOTONECH EFFECT. ANNEALING IN A H ATM. LEADS TO PARTIAL REAPPEARANCE OF THE EFFECT WHICH IS COMPLETELY REESTABLISHED IN O-H TREATMENT TO THE SPECIMENS. THIS SHOWS THAT THE PHOTOMECH. EFFECT IS RELATED TO THE PRESENCE ON THE SURFACE LAYERS OF H PRIME PUSITIVE AND OH PRIME NEGATIVE THESE SPECIMENS WHICH CONTAIN IMPURITY OH PRIME NEGATIVE IONS FACILITY: KIEV. GOS. UNIV. IM. POSSESS THE GREATEST EFFECT. SHEVCHENKE, KIEV, USSR.

UDC 537.312.62:621.318.3

LAZAREV, B. G., LAZAREVA, L. S., GOLIK, V. R., GORIDOV, S. I., Physicotechnical Institute, Ukrainian Academy of Sciences

"Experiences in the Development and Application of Laboratory Superconductive Solenoids With Fields of up to 119 kOe"

Moscow, <u>Izvestiya Akademii Nauk SSSR -- Seriya Fizicheskaya</u>, No 11, 1972, pp 2475-2478

Abstract: An account is given of the work in the laboratory of the Physics Institute, USSR Academy of Sciences, on superconductive water-cooled solenoids capable of generating magnetic fields of as much as 175 kOe in the limit, and in the range of 100-120 kOe for average operation. There are many such laboratory solenoids operating throughout the country. Some of the results of the production work on these solenoids and of the experiences of the personnel involved are presented. It is noted that conductors of 25% Nb, 25% Zr, and Ti have been replaced by 60% Nb and Ti alloy, the critical magnetic field for which is 118 and 145 kOe at 4.2 and 20 K respectively and is 165 kOe when the temperature is extrapolated to 00 K. Thirty-five such solenoids generating fields of up to 90 kOe are now in use in scientific establishments in Loscow,

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

USSR

LAZAREV, B. G., et al, <u>Izvestiva Akademii Nauk SSSR -- Seriya</u> <u>Fizicheskaya</u>, No 11, 1972, pp 2475-2478

Leningrad, Kiev, Donetsk, Sverdlovsk, Riga, Vil'nyus, Sukhumi, Makhachkala, and Kharkov. Technical data for some of the solenoids in operation is given in two tables. It is noted that this paper was presented before the All-Union Conference on Magnetism, held in 1971.

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- 86 -

1/2 016 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--A 115-KOE, 157-KOE WITH DYSPROSIUM COMCENTRATOR, SUPERCUNNUCTING

SOLENDID MADE FROM DUCTILE ALLGYS -U-AUTHOR-(04)-LAZAREV, B.G., LAZAREVA, L.S., GGLIK, M.R., GORIDOV, S.I.

COUNTRY OF INFO--USSR

SOURCE-FIZIKA METALLOV I METALLOVEDENIE, APR. 1970, 29, (4), 874-876

DATE PUBLISHED ---- APR 70

SUBJECT AREAS--ELECTRONICS AND ELECTRICAL ENGR., MATERIALS

TOPIC TAGS--SUPERCONDUCTOR, SOLENDID, BINARY ALLOY, TERNARY ALLOY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0674

STEP NO--UR/0126/70/029/004/0874/0876

CIRC ACCESSION NO--APO129839

UNCLASSIFIED

UNCLASSIFIED

PROCESSING DATE——13NOV70

CIRC ACCESSION NO—APO129839

ABSTRACT/EXTRACT——(U) GP—0— ABSTRACT. THE CREATION OF SUPERCONDUCTING
SOLENDIDS FROM DUCTILE BINARY AND TERNARY ALLOYS (NB—TI, NB—ZR—TI, ETC.)
SOLENDIDS FROM DUCTILE BINARY AND TERNARY ALLOYS (NB—TI, NB—ZR—TI, ETC.)
IS DESCRIBED. BY CAREFUL ATTENTION TO THE CONDITIONS OF MANUFACTURE AS
IS DESCRIBED. BY CAREFUL ATTENTION TO THE CONDITIONS OF MANUFACTURE AS
SOLENDID WITH A MOX. FIELD OF 115 KOE IN A SPACE OF 12 MM IN DIA. WAS
SOLENDID WITH A MOX. FIELD OF 115 KOE IN A SPACE OF 12 MM IN DIA. WAS
ACHIEVED. BY INCORPORATING A SIMPLE DY FIELD CONCENTRATOR IN THE FORM
OF A PAIR OF CYLINDERS WITH A 1—MM GAP BETWEEN THEIR ENDS, THE FIELD WAS
INCREASED TO 157 KOE.

UNCLASSIFIED

UNCLASSIFIED

Acc. Nr: AP0051924

Ref. Code: UR 0219

PRIMARY SOURCE: Byulleten' Eksperimental'noy Biologii i

Meditsiny, 1970, Vol 69, Nr 2, pp 41-44

CONCERNING THE METHOD OF PRODUCING EXPERIMENTAL CHRONICAL PATHOLOGY OF THE LIVER

K. S. Kovalskaya, M. V. Rudenskaya, A. S. Gorin Sklifosovsky First-Aid Institute

To elucidate the action of sodium salicylate on the functional and morphological state of the liver, two experimental procedures were employed. In acute experiments, sodium salicylate was administered fractionally into the portal vein. In chronic experiments, the liver was examined after single, double and triple administrations of the agent. Observation was carried out during 2 years after the last administration. As evidenced from these experiments, sodium salicylate induces chronic pathology of the liver with sclerosis, distrophic alterations and reorganization of the parenchyma, increase in the portal pressure and enlargement of the spleen.

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UDC 550.83:622.241:581.3

GORIN. A. Z., and CHURINOVA, I. M., Central Geophysical Expedition of the Ministry of the Petroleum Industry

"Perfecting of the Program and the Technology of the Operational Interpretation of Industrial-Geophysical Data on Electronic Computer"

Moscow, Neftegazovaya Geologiya i Geofizika, No 9, 1973, pp 3-6

Abstract: Information is given of the experimental-industrial perfecting, started in the year 1970, of programs of processing industrial-geophysical data on electronic computers of BEMI-4 and M-222 types. The Ts-1 complex of programs of operational interpretation with the yield of a plastic table was introduced into production. Since the Ts-1 complex operation analyses revealed a series of indicated imperfections, the improved Ts-2 complex of operational interpretation is now in the development at the All-Union Scientific Research Institute of Geophysical Exploration Hethods. It proceeds from the necessity to include programs providing an interpretation of the processing of industrial-geophysical and geological data by a separate shit and into

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USSR

GORIN, A. Z. and CHURINOVA, I. M., Neftegazovaya Geologiya i Geofizika, No 9, 1973, pp 3-6

a sole storage system. The technological schema of the operational interpretation by the Ts-2 complex of programs is demonstrated. This new developed control program performs not only the function of subsequent call of processing programs but it secures also the call from the magnetic band of intermediate tables needed for the work of each program and their return. Five bibliographic references.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

Television

USSR

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UDO 551.594.221.001.4

GORIN, B.N., Candidate Of Technical Sciences; LEVITOY, V.I., Dr. Of Technical Sciences, Professor; SHKILEV, A.V., Engineer (all from Power Engineering Institute imeni G.M. Krzhizhanovskiy)

"Lightning Discharges At Ostankinskiy Television Tower"

Elektrichestvo, No 2, Feb 1972, pp 24-29

Abstract: The results are presented of observations conducted from June 1968 to October 1970 (i.e., during approximately 2.5 thunderstorm seasons) of strikes by lightning of the Ostankinskiy television tower (537 m) of the All-Union Radio-Television Transmitting Station in Moscow. Discharges at the television tower were recorded with the aid of discharge counters located directly on the television tower and of automatic photorecorders located close to the television tower and simed at it. In 1970, combined with the photorecorders, oscillographic measurements were made with the aid of an automatic oscillographic device of the pulses of intensity of the magnetic field of the major stage of the lightning during discharges at the television tower. Some results are given of the oscillographic registration of the pulses of intensity. An account is given of the direction of subsequent comprehensive studies of lighting which will be conducted with the aid of photographic, electron-optical, oscillographic and other

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USSR

GORIN, B. N., et al., Elektrichestvo, No 2, Feb 1972, pp 24-29

apparatus with the use of the television tower as a fixed striking point. The authors note the great assistance rendered them by the administration and staff of the All-Union Radio-Television Transmitting Station. S.G. Obolduyev, M.A. Peskin, and G.S. Sakharova assisted in the observations. The authors are grateful to the workers of the Central High-Altitude Hydrometeorological Observatory for the presentation of data concerned with meteorological parameters. 6 fig. 5 ref. Received by editors, 21 Oct 71.

2/2

- 154 -

Single Crystals

USSR

UDC 669-172

VOROB'YEV, G. M., GORIN, D. I., and KHOROSHUN, L. K., Minsk

"Anisotropy of Wear Resistance of a Single Crystal"

Moscow, IAN SSSR, M tally, No 2, Mar-Apr 71, pp 176-177

Abstract: Anistropy in wear resistance of single crystals was studied using a single crystal of Fe + 4% Si with the friction surface corresponding to the crystallographic planes along which sheet usually occurs in metals with a body centered cubic lattice: (110), (112). Wear tests were studied with a specific load of 150 kg/cm², slipping rate 0.94 m/sec. The experiments established that the minimum wear is observed when the plane of friction and slipping plane are parallel and there are no steps on the friction surface. The maximum wear is observed when plastic deformation is facilitated in the surface layer, accompanied by the formation of steps.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

USSR

upc 616.988.25-022.395.42-036.22(571.53+571.54)

VASENIN, A. A., GORIN, O. Z., and EEREZIN, V. G., Irkutsk Institute of Epidemiology and Microbiology

"Epidemiological Assessment of the Threat of Tickborne Encephalitis in the Cisbaykal Region"

Moscow, Meditsinskaya Parazitologiya i Parazitarnyye Bolezni, No 3, 1972, pp 269-247

Abstract: New tourist facilities and sanatoria are being built along the shores of Lake Baykal in Eastern Siberia, an area in which an average of 1.6 cases of tickborne encephalitis per 100,000 population is recorded every year. In order to evaluate the danger to the increasing human population presented by the disease, the authors analyzed the incidence of tickborne encephalitis in Irbutskaya Oblast and the Buryat ASSR over the last 15 years, ran serological tests, and interviewed some 2000 persons living in 23 villages. They found that infected ticks are most likely to attack humans and animals in a band 10 to 100 m wide around Lake Baykal due to the mitigating influence of the water on the local climate. The growing season extends for 15 to 25 days into the autumn and the period of activity of the main vector Ixodes persulcatus P. sch. is shifted to mid-summer. The disease peaks toward the end of July.

UDC 616.988.25:313.13(571.55)

USSR

GORIN. O. 2., L'VOV, D. K., VASENIN, A. A., BOL'SHEV, L. N., KRUOPIS, Yu. I., and KORYAKOVISEVA, K. M., Irkutsk Institute of epidemiology and microbiology, Ministry of Health RSFSR, Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences USSR, Moscow, Mathematics Institute imeni V. A. Steklov, Academy of Sciences USSR Moscow, and Republic Sanitary Epidemiological Station, Buryatskaya ASSR, Ulan-Ude

"Calculating the Intensity of Infection With Tickborne Encephalitis of the Population of Zabaykal'"

Moscow, Meditsinskaya Parazitologiya i Parazitarnyye Bolezni, Vol 39, No 3, May/Jun 70, pp 259-263

Abstract: The intensity of infection of the population with trickborne encephalitis in the Zabaykal' was calculated, and also the rate of infectation of ticks with the virus (9-13/2). The analysis was based on data of serological examination of 6,420 persons by the hemogglutination test, and on data from questioning of 26,781 subjects about their exposure to tick and attacks by ticks during the epidemic season. Specimens were collected in 1966-1968 in Chitinskaya Oblast and the Buryatskaya ASSR. According to the intensity of infection, it was possible to combine the territories situated in different physical geographical and land-

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

USSR

GORIN. 0. Z., et al. Meditsinskaya Parazitologiya i Parazitarnyye Bolezni, Vol 39. No 3, May/Jun 70, pp 259-263

scape conditions into two main landscape-epidemiological areas. One of these areas, distinguished by an extremely low intensity of infection $(0.4-0.9\rlap/p)$, includes the Central Asian and Priselenginskaya steppes and the North Zabaykal mountain taiga. The other area, with higher intensity of infection $(2-2.1\rlap/p)$, includes the territories within the Daurskaya mountain taiga and subtaiga, as well as the Pribaykal and South Zabaykal taiga and subtaiga.

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USSR

UDC 911.3.616.831-002(571.5)

GORIN, O. Z.

"Some Characteristics in the Formation of Anthropurgic Foci of Tickborne Encephalitis in the Trans-Baikal Territory"

V sb. 5-ya Mezhvuz. zoogeogr. konferentsiy "Vliyanie antropogen. faktorov na formir. zoogeogr. kompleksov." Ch. I. (Fifth Joint Higher Education Institution Zoogeographic Conference on the Effect of Anthopogenic Factors on the Formation of Zoogeographic Complex." Part I), Kazan, 1970, pp 78-80 (from RZh-36. Meditsinskaya Geografiya, No 1, Jan 71, Abstract No 1.36.89)

Translation: A description is given of the initial stage in the formation of anthropurgic foci of tickborne encephalitis, with a low level of epidemic activity, resulting from removal of summer cattle grazing grounds from population centers (15-40 km).

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

PROCESSING DATE-300CT70 UNCLASSIFIED 015 1/2

TITLE-CALCULATION OF THE INTENSITY OF INFECTION WITH TICK BORNE

ENCEPHALITIS IN THE POPULATION OF ZABAIKALIE -U-

AUTHOR-(05)-GORIN, G.Z., LVOV, D.K., VASENIN, A.A., BOLSHEV, L.N.,

KRUCNIC. YU.I. COUNTRY OF INFO-USSR

SOURCE-MEDITSINSKAYA PARAZITOLOGIYA I PARAZITARNYYE BOLEZNI, 1970, VOL

39. NR 3. PP 259-263

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ENCEPHALITIS, TICK, SEROLOGIC TEST, HEMAGGLUTINATION INHIBITION TEST

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0222

STEP NO--UR/0358/70/039/003/0259/0263

CIRC ACCESSION NO--AP0123986

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

PROCESSING DATE-300CT70 UNCLASSIFIED 016 2/2 CIRC ACCESSION NO--AP0123986 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ON THE BASIS OF PREVIOUSLY PUBLISHED METHODS BY THE AUTHORS CALCULATION OF THE INTENSITY OF INFECTION RATE OF THE POPULATION WITH TICK BORNE ENCEPHALITIS IN THE ZABAIKALIE WAS MADE, AS WELL AS CALCULATION OF THE INFECTION RATE OF TICKS WITH THE VIRUS (9-13PERCENT). THE ANALYSIS WAS BASED ON THE DATA OF SEROLOGICAL EXAMINATION OF 6420 PERSONS BY THE HI TEST, AS WELL AS ON THE DATA OF QUESTIONING OF 26,781 SUBJECTS WITH REGARD TO TICK EXPOSURE AND ATTACK DURING THE EPIDEMIC SEASON. SPECIMENS WERE COLLECTED IN 1966-1968 IN THE CHITA REGION AND THE BURYAT ASSR. ACCORDING TO INTENSITY OF INFECTION, IT WAS FOUND POSSIBLE TO COMBINE TERRITORIES SITUATED IN DIFFERENT PHYSICO GEOGRAPHICAL AND LANDSCAPE CONDITIONS INTO 2 MAIN LANDSCAPE EPIDEMIOLOGICAL AREAS. ONE OF THEM IS DISTINGUISHED BY AN EXTREMELY LOW INTENSITY OF INFECTION (0.4-0.9PERCENT) AND INCLUDES CENTRAL ASIAN AND THE PRISELENGINSKAYA STEPPE AND NORTH ZABAIKAL THE OTHER AREA HAS HIGHER INTENSITY OF INFECTION MUUNTAIN TAIGA. (2-2-1PERCENT) AND INCLUDES TERRITORIES WITHIN THE DAURSKAYA MOUNTAIN TAIGA AND SUBTAIGA AS WELL AS THE PRIBAIKAL AND SOUTH ZABAIKAL TAIGA AND FACILITY: IRKUTSKIY INSTITUT EPIDEMIOLOGII I SUBTAIGA. INSTITUT VIRUSOLUGII IM D. I. FACILITY: MIKROBIOLOGII, MZ RSFSR. FACILITY: MOSKVA MATEMATICHESKIY INSTITUT IVANOVSKOGO, AMN SSSR. FACILITY: MOSKVA REPUBLIKANSKAYA IM. V. A. STEKLOVA, AN SSSR. SANEPIDSTANTSIYA, BURYATSKOY ASSR, ULAN-UDE.

UNCLASSIFIED

USSR

UDC 537.311.3:546.26128

GEYTSI, I.I., GORIN, S.I., NESTEROV, A.A., PLETYUSHAIN, A.A.

"On The Nature Of The 'Red' Band Of Cathodoluminescence Of Irradiated & SiC"

V sb. Radiats. fiz. nemet. kristallov (Radiation Physics Of Normetallic Crystals-Collection Of Works), Vol 3, Part 2, Kiev, "Nauk.dumks," 1971, pp 97-105 (from RZh-Elektronika i yeve primeneniye, No 10, October 1971, Abstract No 10835)

Translation: The effect was studied of fast electrons on the spectre of cathedoluminescence (CL) of 3-SiC. Crystals of 3-SiC (n-typs;) -10.1-1.0 ohm.cm) were irradiated by 3.3 New fast electrons, with dosea from 10.12 to 10.1 cm-2 at room temperature. After irradiation by doces of 10.15 - 10.16 cm-2, in the red region of the spectrum (2-1.5 ev), an intensive band of CL appears with good development of the thin structure, which is connected with recombinations of the localized excitons at the ionized acceptors. I.I.

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- 113 ·

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

13.7. UPPLIT OF GROWTH COUNTIONS ON THE STRUCTURE AND MARHIDIAGY OF FILA- EXTLARY CRESSIAL OF SILICON CASEIDS [ATTICL' DYA.V. Sanialors, N. S. Barker, S. N. TOSIAL L'OVAY howestobre, [III SUPPLIES OF PRECISEARS BASIS SILVERY SAN MARHIDIAGY OF FILA- EXTLARY CRESSIAL OF SILICON CASEED [III AND A MARKATA RELIGION CASEED TO THE ACTUAL AND MARHIDIAGY OF FILA- EXTLARY PARTIES AND RAISE SILVERY SAN MARHIDIAGY OF FILA- EXTLARY RASAINA, Religion cased of creation of sections when growing and nonlybdemum abstructes. For opital values of the conconstration of the intriduction of defined invalues and the values of the remains in the colds and foreign of the compensator from the relation of the intriduction of defined invalues the growth of the sections of the Capitals of the first case of the compensator of the properties actually and it was actuallable that the introduction of defined invalues of the compensation of the intriduction of the compensation of the	BORIN, S.N.				()	and the transfer to the	- Control of the Cont
Burker, S. N. Estin. I'vary haveabliry, i Sanesa foluprivoditikovahi kristallov i p 122 Burker, S. N. Estin. I'vary haveabliry, i Sanesa foluprivoditikovahi kristallov i p 122 Burker, S. N. Estin. I'vary haveabliry, i Sanesa foluprivoditikovahi kristallov i p 122 Burker, S. N. Estin. I'vary haveabliry, i p 122 Burker, S. N. Estin. I'vary haveabliry, i p 122 Burker, S. N. Estin. I'vary haveabliry, i p 122 Burker, S. N. Estin. I'vary haveabliry, i p 122 Burker, S. N. Estin. I'vary haveable of p 122 Burker, S. N. Estin. I'vary haveable of p 122 Burker, S. N. Estin. I'vary have end of extraction of the season of the factor of the the subtance in the solid of silicon example of activate in burker of published the paper of the constitute in burker of published papers on thids. On the basis of the reasarch, the consequence to proof of the growth of crystals by the proof of the growth of crystals by the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the growth of crystals by the subtance in the proof of the proof of the growth of crystals by the subtance in the proof of			The variation in the faceti structural version is discussed, plane-parallel sections correspond sections of the cryatals of differ arraced both for the cryatals of the 2H plaufe-solidatate sechanism is confilamentary cryatals of the 2H plaufe-solidatate sechanism is confilamentary cryatals of allicon can clusion was drawn that the globul tion of the grewth conditions, and of these phenomena and not a direct vapor-liquid-solid state mechanism	and nolyddening substrates, and nolyddening substrates, for the constraint plants of the constraint plants, the temperature factors, and of defined impurities attendance to carbide of the 3H polytype with the peratures of 1,400-1,550°C.	IN-7. LFFICT OF GROWN CONDITIONS PENTARY CRYSTALS OF SILICON CARBID [Article by A. V. Sandulova, N. S. III Chronitan no Protessam Bosta Figure, Russian, 12-17 June 1972, and a tudy was made of the depting and bide cryst this by the technical thermal reduces the statement of the restate the second of the second of the restate the second of the second of the second of the restate the second of the s		
		- 126 -	The of the crystals with variation of the By using the studies in polarized light of him to lengtrudinal and transverse cross can form, the faternal structure in demonstrates and for the characteristic globular olytype with which the growth by the uppornected in a number of published papers on the basis of the research, the combide. On the basis of the research, the combide occur apparently as a result of destructhey are, therefore, only the consequence t proof of the growth of crystals by the	oncontration of the initial admitance in the operatration of the initial admitance in the of observing crystals in the cubic and not twas established that the introduction he growth of delecular crystals of delicance hexagonal structure of wurtelte at temperature.	ON THE STRUCTURE AND MORPHOLOGY OF FILA- Burkey, S. N. Corin, L'vov) Kovestbirsk, I Sintesa Folyprovodnikovykh Kristallov (p 122] p 122] endence of the structura and majphology of als on the growth conditions when growing cion of seativel tricklores () no constitution of the structure and majphology of the structure and str	. ·	

1/3 020 UNCLASSIFIED PROCESSING DATE--20NOV70
TITLE--DIURNAL CHANGE IN DIRECTION OF THE POLARIZATION AXIS OF PCL
PULSATIONS -U-

AUTHOR-(03)-VINCGRADOV, P.A., VINOGRADOVA, V.N., GORIN, V.I.

COUNTRY OF INFO--USSR

SOURCE--MCSCCh, GEOMAGNETIZM I AERONOMIYA, VOL X, NO 3, 1970, PP 557-558

DATE PUBLISHED-----70

SUBJECT AREAS-EARTH SCIENCES AND OCEANOGRAPHY

TOPIC TAGS-DIURNAL VARIATION, MICROPULSATION, GEOMAGNETIC FIELD

CENTREL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0524

STEP NO--UR/0203/70/010/003/0557/0558

CIRC ACCESSION NO--APO132719

UNCLASSIFIED

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2/3 020 **UNCLASSIFIED** PROCESSING DATE--20NOV70 CIRC ACCESSION NO--APO132719 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THERE IS A DIURNAL CHANGE IN THE MAIN AXIS OF THE POLARIZATION ELLIPSE FOR PCL PULSATIONS: CUNSTRUCTION OF POLARIZATION ELLIPSES OF THE H VECTOR OF THE PCL FIELD FOR SOGRA AND IRKUTSK STATIONS REVEALED THAT THE DIRECTION OF THE MAIN AXIS OF THE POLARIZATION ELLIPSE CHANGES AT 0500-0800 (LOCAL SOLAR TIME). IN THE EVENING AND NIGHTTIME HOURS THE AXIS OF PCL POLARIZATION IS DIRECTED TO THE NE, EARLY IN THE MORNING; PRIMARILY TO THE N. AND DURING THE DAYTIME NNW. HOWEVER, UNTIL NOW THERE HAS BEEN EXPERIMENTAL DOCUMENTATION ONLY FOR A MORNING INTERVAL OF ROTATION OF THE SIGN OF THE ANGLE OF DEVIATION OF THE MAIN AXIS OF THE POLARIZATION ELLIPSE FROM THE MAGNETIC MERIDIAN, ALTHOUGH IT HAS BEEN POSTULATED THAT THIS ALSO OCCURS IN THE INTERVAL 170C-200G HOURS. PCL PULSATIONS ARE SPORADIC AND THEIR APPEARANCE CANNOT BE PREDICTED, ALTHOUGH TIMES FAVORABLE FOR OBSERVATION ARE KNOWN. MOREOVER. THE PERIOD 1700-2000 IS THE MINIMUM ON THE CURVE OF DIURNAL DISTRIBUTION OF POL COCURRENCE. CAREFUL STUDY OF RECORDS REVEALED THAT AT ABOUT 1800 THERE IS A GRADUAL STABILIZATION OF DELTA PHI AND E SUBX -E SUBY; DELTA PHI EQUALS 180DEGREES IS TYPICAL, ALTHOUGH 140DEGREES LESS THAN OR EQUAL TO DELTA EPSILON LESS THAN OR EQUALS TO 230DEGREES IS ALSO OBSERVED. THE MEAN DIRECTION OF THE POLARIZATION AXIS WITH THE EASTWARD DIRECTION FORMS AN ANGLE HINUS 9DEGREES (AXIS DEFLECTED TO THE SOUTH). THE DIRECTION OF THE POLARIZATION AXIS AT DIFFERENT TIMES WAS: 1600-1630, PLUS 30DEGREES; 1630-1700, PLUS 36DEGREES; 1700-1730, PLUS 39DEGREES: 1750-1800, MINUS LODEGREES: 1800-1815, MINUS 7DEGREES.

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UNCLASSIFIED PROCESSING DATE--20NOV70 CIRC ACCESSION NO--APO132719
ABSTRACT/EXTRACT--THUS, THERE IS A REGULAR CHANGE IN THE DIRECTION OF THE POL POLARIZATION AXIS DURING THE DAY WITH INTERVALS OF ROTATION OF THE SIGN OF THE ANGLE (BETWEEN THE AXIS OF POLARIZATION AND THE MAGNETIC MERIDIAN) AT 0500-0800 AND 1700-1800, COINCIDING IN TIME WITH THE MAXIMUM AND MINIMUM FREQUENCY OF APPEARANCE OF PCL IN THE MIDDLE LATITUDES. FACILITY: SIBERIAN INSTITUTE OF TERRESTRIAL MAGNETISM, ICNOSPHERE AND RADIO MAVE PROPAGATION.

UNCLASSIFIED----

UDC 547.341

USSR

FRIDLAND, S. V., and GORIN, Ya. A., Kazan' Chemical-Technological Institute Imeni S. M. Kirov

"Reaction of Phosphorus Pentachloride With Compound Esters"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 4, Apr 73, p 949

Abstract: Phosphorus pentachlorida reacted with ethyl and phenylacetates yielding β -(ethoxy)- β -chlorovinylphosphonic acid dichloride b.p. 120-124°/ 10 mm, d20 1.7234, n20 1.5200, and β (phenyloxy)- β -chlorovinylphosphonic acid dichloride, b.p. 145 $\frac{D}{2}$ 146°/ 0.1 mm, d20 1.5120, n20 1.5770.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

UDC 678.7:547.124

USSR

GORIN, Yu. A., All Union Scientific Research Institute of Synthetic Rubber Imeni S. V. Lebedev

"Research Performed at the All Union Scientific Research Institute of Synthetic Rubber on the Production of Base Monomers for Rubber Synthesis"

Moscow, Kauchuk i Rezina, No 2, 1971, pp 15-17

Abstract: The article describes research done at the All Union Scientific Research Institute of Synthetic Rubber (VNIISK) on methods for the production of base monomers for divinyl and isoprene. As a result of work done by S. M. MONOZON et al, the catalyst K-5 was created. The results of this research, which was subsequently continued at the Scientific Research Institute of Monomers for Synthetic Rubber (NIIMSK), gave synthetic rubber plants a number of new effective industrial processes for the dehydrogenation of n-butane in a fluidized bed of K-5. This catalyst is now being successfully used by large-capacity production facilities in new synthetic rubber plants for the production of divinyl from butane, isoprene from isopentane, as well as for the dehydrogenation of isobutane into isobutylene. In 1946 work was resumed at WNIISK and NIIMSK on the development of a two-stage method for obtaining isoprene from isobutylene and formaldehyde. The VNIISK laboratory and pilot plants developed processes for the synthesis of dimethyl dioxane (DMD) from

USSR

GORIN, Yu. A., Kauchuk i Rezina, No 2, 1971, pp 15-17

isobutylene and formaldehyde (M. S. NEMTSOV, K. U. NERUSH et al) and the catalytic decomposition of DMD into isoprene (M. S. NEMTSOV, N. A. KALINI-CHEVA et al). These studies resulted in the construction and start-up of a pilot isoprene production shop at the Yefremov Synthetic Rubber Plant. (In 1964 work on the synthesis of isoprene from isobutylene and formaldehyde was continued at the All Union Scientific Research Institute of Petrochemical Processes.) In 1964-1965 large-capacity isoprene production facilities were put into operation at the Kuybyshev and Volzhsk Synthetic Rubber Plants. A nontoxic method was developed at VNIISK during the period 1950-1956 for the vapor-phase hydration of acetylene into acetaldehyde with the use of catalysts containing no mercury (Yu. A. GORIN, A. N. TROITSKIY, I. K. GORN et al). The process was successfully tested on a pilot production scale at the Karagandinsk Synthetic Rubber Plant, following which large-capacity acetaldehyde production facilities were put into operation at the Northern Donets Chemical Combine in 1963 and at the Nevinnomyssk Chemical Combine in 1968. Analogous facilities are being assembled and are under construction at some other chemical combines. These same combines are processing the acetaldehyde into acetic acid and acetic anhydride for subsequent production of vinyl acetate and acetate fiber. 2/2

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

1/2 010 UNGLASSIFIED PROCESSING DATE--020CT70
[ITLE--REACTION OF VINYLAGETYLENE WITH CARBOXYLIC ACIDS UNDER THE
INFLUENCE OF CADMIUM PHUSPHATE -UAUTHOR-(02)-AREFYEVA, T.G., GORIN, YU.A.

COUNTRY OF INFO--USSR

SCURCE--ZH. ORG. KHIA. 1970, 6(3) 625-6

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TUPIC TAGS--ACETYLENE, CARROXYLIC ACID, VINYL COMPOUND, PHOSPHATE

COLTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RELL/FRAME-+1992/1527

STEP NO--UR/0366/70/006/003/0625/0525

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CIRC ACCESSION NO--APOIT2521

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

UNCLASSIFIED PROCESSING DATE--020CT70

CIRC ACCESSIUN NO--APOLI2521

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE REACTION OF RCD SUB2 H (1)

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SUB2 AND H SUB2 C:CLO SUB2 CR)-CH: CH SUB2. THE REACTIVITY OF I
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I.E. WITH THE INCREASE OF THE INDUCTIVE EFFECT OF R.

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USSR

GORIN, Yu. N.

"The Construction of an Optimal Algorithm for Calculation of Stable Frames of Regular Closed Systems"

Stroit. Mekh. Soyoruzh. [Construction Mechanics of Structures -- Collection of Works], Leningrad, 1971, pp 85-93, (Translated from Referativnyy Zhurnal, Kibernetika, No 3, 1972, Abstract No 3 V553 by V. Mikheyev).

Translation: The possibility is discussed of constructing an optimal algorithm for calculation of the stability of regular closed frame systems by digital computer. The algorithm is based on the method of deformations in canonical form. A flow chart of the algorithm is presented. It is noted that the algorithm suggested has been tested in a program composed for the Minsk-22 computer, the total length of which was 3240 codes, i.e., about one-third of one memory section.

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64 | 1640 | 1641 | 1641 | 1641 | 1641 | 1641 | 1645 | 1645 | 1645 | 1645 | 1645 | 1645 | 1645 | 1645 | 1645 |

USSR



BALOSHIN, O. N., BLAGORODOV, A. M., BOLONKIN, B. V., VLADINIRSKIY, V. V., GORIN, YU. P., GRIGOR'YEV, V. K., GRISHIN, A. P., YEROFEYEV, I. A., KOROL'KOV, I. YA., LUZIN, V. N., MILLER, V. V., NIKOLAYEVSKIY, YE. S., PETRUKHIN, V. N., PLIGIN, YU. S., PONOMAREV, L. A., SIROTKIN, S. M., SOKOLOVSKIY, V. V., TARASOV, YE. K., TIKHOMIROV, G. D., TROSTINA, K. A., TURCHANOVICH, L. K., and SHKURENKO, YU. P., Institute of Theoretical and Experimental Physics GKI AE (State Committee for the Use of Atomic Energy)

"The K p-K n Charge Exchange Reaction at a Pulse of 39 Gev/sec"

Moscow, Yadernaya Fizika, Vol 18, No 3, Sep 73, pp 542-544

Abstract: The authors present the measurement results from studying the charge exchange reaction of K-mesons on protons (Kp \rightarrow k°n) at a pulse of 39 Gev/sec. The study was carried out using the ITEF 6-m magnetic track spectrometer. The working volume of the magnetic field of the spectrometer was 1.0 x 1.5 x 6 m. Twelve optical spark chambers were located inside the magnet, with each chamber having eight spark gaps (10 mm each). The chamber electrodes consisted of two layers of aluminum foil 14 microns thick. The photographs were taken through a special slit in the magnet yoke. A mirror system made it possible to obtain three stereoprojections of all of the chambers

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

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BALOSHIN, O. N., et al., Yadernaya Fizika, Vol 18, No 3, Sep 73. pp 542-544 with one camera. The reaction was studied on the negative particle beam of the IFVE accelerator. The K -mesons were distinguished by a differential Cerenkov counter. The beam was focused on a liquid hydrogen target 40 cm long which was set approximately three meters from the first chamber of the spectrometer. Approximately 5.107k -mesons were passed through the equipment and 1020 photographs taken. Pairs of uniformly charged tracks were measured on the photographs. The measurement results were then processed on the Razdan-3 computer. Only 270 intersecting tracks were found. A graph is given for the differential cross section of the reaction. The results show that the cross section value of 7.4+1.2 microbarns obtained by the authors in comparison to data obtained for lower energies elsewhere shows the logarithmic dependence of the charge exchange cross section on the pulse, equal to -1.58+0.05. The authors thank K. G. Boreskov, A. M. Lapidus, S. T. Sukhorukov, and K. A. Ter-Martirosyan for their presentation of the computational results as the dependence of the differential cross section onpulse transfer (do/dt). This dependence is compared with predictions of the Regge pole model.

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- 82 -

USSR UDC: 621.384.664

GORIN, Yu. P., DENISOV, S. P., MITIN, A. A., STOYANOV, D. A., SYTNIK, V. V., Institute of High-Energy Physics, Serpukhov

"A Target for Precise Measurements of the Cross Sections of the Interaction of Particles With Protons and Deuterons"

Moscow, Pribory i Tekhnika Eksperimenta, No 2, Mar/Apr 72, pp 29-31

Abstract: The paper describes the design and gives the characteristics of a target used for measuring the complete cross sections of interaction of pions, kaons, and protons with protons and deuterons on the accelerator at the Institute of High-Energy Physics in Serpukhov. A diagram of the target is shown in the figure. The target is made entirely of stainless steel, with the exception of the shields and windows. The operating procedure for determining interaction cross sections is described. Measurement errors are analyzed. One figure, bibliography of four titles.

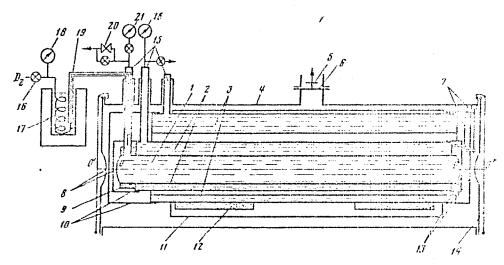
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GORIN, Yu. P. et al., Pribory i Tekhnika Eksperimenta, No 2, 1972, pp 29-31



1--working space, 2--guard space, 3--nitrogen volume, harvacous jucket, 5--knife, 6--diaphrops, 7--cables, 8--mylar windows, 9--medite, 10--copper shields, 11, 13--aluminized mylar shields, 12--activated engreeal, 14--plumb line, 15--filler tubes, 16--velve, 17--coil, 18--memoratric vacuum meter, 19--siphon, 20--safety velve, 21--reference instrument, 19--

1/2 022 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--ELECTRON MICROSCOPIC STUDY OF THE MULTIAXIAL STRAIN OF
POLYPROPYLENE THIN FILMS -U-

AUTHOR-(02)-KARGIN, V.A, GORINA, I.I.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. B 1970, 12(5), 353-8

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--ELECTRON MICROSCOPY, POLYPROPYLENE, PLASTIC FILM, MOLECULAR STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

OCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAHE--3006/1236

STEP NO--UR/0460/70/012/005/0353/0358

CIRC ACCESSION NO--APO134910

UNCLASSIFIED.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

UNCLASSIFIED PROCESSING DATE--27NOV7O CIRC ACCESSION NO--APO134910

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. MULTIDIRECTIONAL DEFORMATION UP TO 130PERCENT IN THIN FILMS OF ISOTACTIC POLYPROPYLENE DID NOT CHANGE THE SHAPE OF THE SPHERULITES. FURTHER DEFORMATION CONVERTED THE SPHERULITES INTO SINGLE FIBRILS WITH CROSS SECTIONS LESS THAN OR EQUAL TO 100 ANGSTROM. FACILITY: INST. NEFTEKHIM. SIN. IM. TOPCHIEVA, MOSCOW, USSR.

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UDC 669.236

USSR

SAVITSKIY, Ye. M., GORINA, N. B., POLYAKOVA, V. P., and SHELYAKIN, L. B.

"Use of the Method of Ion Bombardment to Determine Fine Structure of Noble Metals"

Monokristally Tugoplavkikh i Redkikh Metallov [Single Crystals of Refractory and Rare Metals -- Collection of Works], Nauka Press, 1971, pp 60-62

Translation: The use of the method of ion bombardment is used to determine the fine structure of ruthenium single crystals. The fine structure is determined on prismatic planes of the crystal. A comparative estimate is made of the etching pictures observed. The possibility is shown of using this method to determine the structure of the noble metals. 5 Figures; 10 Bibliographic References.

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- 47 -

1/2 027 UNCL

UNCLASSIFIED.

PROCESSING DATE--230CT70

TITLE--AFTERNOON AND EVENING MAXIMA IN THE F2 LAYER -U-

AUTHOR-(02)-SERAFIMOV, K.B., GORINOV, N.

COUNTRY OF INFO--USSR

Maria ...

SOURCE--IN: IONOSPHERIC STUDIES. NUMBER 19 (IONOSFERNYE ISSLEDOVANIIA. NUMBER 19(. (A70-32076 15-13), MOSCOW, IZDATEL'STVO NAUKA, 1970, P. DATE PUBLISHED-----70

SUBJECT AREAS--ATMOSPHERIC SCIENCES, ASTRONOMY, ASTROPHYSICS

TOPIC TAGS--F LAYER, IONIZATION, SOLAR ACTIVITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1069

STEP NO--UR/0000/70/000/000/0109/0113

CIRC ACCESSION NO--AT0124726

UNCLASSIFIED

2/2 027 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--ATOL24726 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. STUDY OF THE DEPENDENCE OF THE PARAMETERS OF THE AFTERNOON AND EVENING IONIZATION MAXIMA IN THE F2 LAYER ON THE SEASON, ZENITH ANGLE, AND SOLAR ACTIVITY LEVEL. IT IS SHOWN THAT THESE MAXIMA INCREASE DURING A SOLAR ACTIVITY MINIMUM WHILE THE TIME OF THEIR OCCURRENCE IS NOT SUBSTANTIALLY AFFECTED BY VARIATIONS

IN SOLAR ACTIVITY.

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GORLENKO, N. P., RAKSISHTADI, A. G., and ROZENBERG, V. M., Giprotsvetmetobratotka,

"Effect of Deformation Temperature and Grain Size on the Work Hardening of a Copper-Aluminum Alloy During Prerecrystallization Annealing"

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 29, No 5, May 70, pp 1093-1099

Abstract: A copper-aluminum alloy (15 at % Al), characterized by low energy of packing defects ($\mathcal{V}=2^{-1}$ erg/cm²), was used in a study of the effect of grain size and deformation temperature on the work hardening immediately during deformation and after annealing. The alloy, which was smelted in a vaccous framede, was subjected to not and cold rolling. The difference in grain size (60 and 200 sieron) was obtained after rolling deformation of the strip to a thickness of 0.9 and and annealing at 650 and $350^{\circ}\mathrm{C}$. The temperature of deformation was 20 and $-1/6^{\circ}\mathrm{C}$, and the degree of deformation 50%. The results obtained showed that the decrease in grain size from 200 to 60 micron had no effect on the plastic limit of the alloy deformed at 20° , but increased it considerably after annealing in the $200-275^{\circ}$ temperature range. Lowering of the rolling temperature from 20 to -195° increased the plastic limit of the alloy in the deformed state, particularly after prerecrystallization annealing. The range of annealing temperatures, which corresponds to a maximum increase of the plastic limit, was reduced to $220-210^{\circ}$.

USSR

UDC: 681.14

GORINSHTEYN, A. M.

"Numerical Solutions of Problems in Electronic and Communications Engineering with the Electronic Digital Computer"

Moscow, 200 pages, 1972, "Svyaz'" p 2.

Translation: This book acquaints the reader with the fundamentals of solving problems in communications and radio engineering with the electronic digital computer. The principles of computing procedures, the reliability of numerical solutions, and the characteristics of computing procedure organization are examined. The book is designed for use by scientific personnel, design engineers, and communications engineering students in VUZ schools.

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- 20 -

" USSR UDC: 681.14

GORINSHTEYN, A. M.

"Numerical Solutions of Problems in Electronic and Communications Engineering With the Electronic Digital Computer"

Moscow, 200 pp, 1972, "Svyaz'" pp 7-9, Introduction

Abstract: Emphasizing the point that the specifics of machine computing with digital devices differ essentially from traditional, manual computations, this book discusses the general principles of solving engineering problems with such devices and describes the numerical solution of a number of practical problems of this type. In the first chapter, information is given concerning the digital computer, programming methods and the principles of their use, and problems of error. Unlike the nonmathematical first chapter, the second assumes that the reader has mastered mathematical programming on, the VUZ level; it deals with the mathematical formulation and evaluation of the computational qualities of the problem, and with factors lending themselves to the employment of the numerical method of solution and to reduction in the computation volume. The third chapter considers the characteristics and structure of digital computer algorithms and discusses the problem of checking the quality of the computed results. The fourth and final 1/2

UDC: 681.14

GORINSHTEYN, A. M., "Numerical Solutions of Problems in Electronic and Communications Engineering With the Electronic Digital Computer," Moscow, 1972, pp 7-9

chapter in the first part of the book contains information on programming, on the algorithmic languages and their use, and on preparation of data for their insertion into the computer. The second section of the book is given over to specific problems in electronic engineering and their numerical solutions, with procedures on the computer recommended for use in particular cases.

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USSR	1100. (02.31
GORINSHTEYN, A	UDC: 681.14
"Numerical Solu with the Electi	utions of Problems in Electronic and Communications Engineering cronic Digital Computer"
Moscow, 200 pag Translation:	ges, 1972, "Svyaz'" pp 3-5 (chapter headings)
	TABLE OF CONTENTS
-	omputing Possibilities of the Electronic Digital omputer and Their Use in Solving Engineering roblems.
hapter 2. Ma	athematical Statement and Analysis of the Problem
hapter 3. Al	lgorithmization and Numerical Methods
hapter 4. Pro	ogramming and Performing the Computations
napter 5. Nur	merical Harmonic Signal Analysis
hapter 6. Com	mputing Transient Processes in June 1
,5 CTI	rcuits

	USSR GORTNSHTE	EYN.	A. M., "Svyez'" pp 3-5		
		,	, 5.7,42 pp 3-7		
	Chapter	7.	Computing Transient Processes in Long Lines	٠	•
	Chapter	8.	Analysis of Characteristic Oscillations in Wave Systems	•	•
	Chapter	9.	Inverse Problems in the Solution of the Passage of Pulses Through Linear Systems	•	•
	Chapter	10.	Computing Nonlinear Spectral Transformations .	•	•
	Chapter	11.	Computing the Characteristics of Inertialess Nonlinear Elements	•	
	Chapter	12.	Optimization of Circuit Farameters	•	•
	Chapter	13.	Statistical Data Processing	•	•
	Chapter	14.	Statistical Modeling of Instruments and Communications Systems	•	
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UDC 621.37/.39:681.322.06(07)

USSR

GORINSHTEYN, A. M.

"Numerical Solution of Froblems in Electronic Engineering and Communications Technology on the Digital Computer"

Moscow, "Svyaz'," 1972, 200 pp, one illustration (from RZh--Radiotekhnika, No 10, 1972, Abstract No 10A6K)

Translation: The book discusses the principal solutions of problems in communications and electronics on the digital computer. The principles of constructing computation procedures, the stability of numerical solutions, the peculiarities of computer process organization, are examined. The book is designed for scientific personnel, design engineers, and students of the electrical engineering VUZ communications schools. Annotation

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

Acc. Nr: AP0046352_

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Ref. Code: UROOCO

PRIMARY SOURCE: Razdel V, Ionosfernyye Issledovaniya, 1970, Nr 19, pp/09-//3

K. B. Serafimov, N. Gorinov. About afternoon and evening maximum in layer F2.

As is known an afternoon increase of ionization is a specific element of around the clock motion of F2.

It is shown that specific parameters of afternoon and evening maximum depend on a season, zenith angle of the sun and solar activity. So with maximum activity the value of this maximum is the greatest and changes of solar activity do not influence greatly upon a moment of appearance of this maximum.

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REEL/FRAME 19781517 1/2

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UDG: 629.78.018.1

USSR

GORISLAVSKIY, V. S. and STEPCHENKOVA, Z. A.

"Experimental Study of Flow Separation Zones on a Plate in a Hypersonic Gas Flow"

Uch. zap. Tsentr. aero-sidrodinam. in-ta (Scientific Notes of the Central Aero-hydrodynamics Institute), 1971, 2, No 5, pp 1-8 (from RZh-41. Raketostroyeniye, Moscow, No 3, Mar 1972, Abstract No 3.41.154)

Translation: The authors study the distribution of pressure on a plate with a sharp leading edge in a hypersonic helium flow. Strong perturbations set up by a falling compression shock from an external wedge or by the deflection of the shield cause the boundary layer to break away. The study was conducted in a hypersonic tunnel at M=23.3, $Re_{\rm c}=1.9\cdot10^4$ and $6.85\cdot10^4$ and at a temperature factor sonic tunnel at M=23.3, $Re_{\rm c}=1.9\cdot10^4$ and $6.85\cdot10^4$ and at a temperature factor field of flow during break away from the leading edge. Because of this the use of a model based on the approximate integration method of the boundary layer theory is not justified for a complete description of the developed flow separation zones. The similitude relationship is upheld for flows with propagation of perturbations upwards along the flow and with strong interaction regimes. Original article: seven illustrations and eight bibliographic entries. Resume.

1/1

GORISLAVSKIY, V. S., STEPCHENKOVA, Z. A.

"Experimental Study of Separation Zones on a Plate in a Hypersonic Gas Flow"

Uch. zap. Tsentr. Aero-gidrodinam. In-ta [Scientific Writings of Central Aero-Hydrodynamic Institute], Vol 2, No 5, 1971, pp 1-8, (Translated from Referativnyy Zhurnal, Mekhanika, No 4, 1972, Abstract No 4 B208 from the Resume).

Translation: The distribution of pressure on a plate with a sharp leading edge in a hypersonic flow of helium is studied. Strong perturbations created by the incident compression jump from the external wedge or deflection of the shield cause separation of the boundary layer. The study was performed in a hypersonic helium tunnel at M = 23.3, $R_0 = 1.9 \cdot 10^4$, $6.85 \cdot 10^4$ with tem-

perature factor $T_w/T_0=1$. It is demonstrated that with separation from the leading edge, areas arise in the field of flow with high pressure gradient, so that the application of a model based on the approximate integral method of the theory of the boundary layer for description of developed separation zones is generally not justified. The rule of similarity is confirmed for flows with propagation of perturbations upward through the flow in the mode of strong interaction. 9 Biblio. Refs. 1/1

- 20 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

1/2 010 UNCLASSIFIED

PROCESSING DATE--11DECTO TITLE-- DISCOVERY OF THE MOSQUITO AEDES THIBAULTI, DIPTERA, CULICIDAE, IN

THE SEVIET UNION -U-

AUTHOR-(92)-GUTSEVICH, A.V., GURITSKAYA, V.V.

CCUNTRY OF INFO--USSR

SCURCE--PARAZITGLEGIYA 4(1): 72-73. ILLUS. 1970

DATE PUBLISHED ---- 7C

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TEPIE TAGS--MCSQUITG, ANATOMY, GEOGRAPHIC LOCATION

CONTROL MARKING--NO RESTRICTIONS

DCCUMENT CLASS--UNCLASSIFIED

PROXY FICHE NO----F070/605014/CO3 STEP NO--UR/9057/70/004/001/0072/0073

CIRC ACCESSION NU--AP0140469

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201010007-8"

2/2 010 UNCLASSIFIED PROCESSING DATE--11DECT*
CIRC ACCESSION ND--APO140469
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE MALE TERMINALIA UF A MUSQUITO WHICH MAS PRELIMINARILY IDENTIFIED AS A. (OCHLEROTATUS) INFOAULTI DYAR ET KUAB IS DESCRIBED. THIS SPECIES IS SPREAD IN THE SOUTH EAST USA AND HITHERTO HAS NEVER BEEN FOUND IN PALAEARCTIC. FACILITY: ZOOL.
INST., ACAD. SCI. USSR, LENINGRAD, USSR.

esendares e encarga esta a constitui a feita dinutar a principal differential de la constitui e de de la constitui e

USSR

UDC: 519.2

GORITSKIY, Yu. A.

"Evaluating Parameters From Inexact Measurements of a Set of Certain Functions of These Parameters"

Tr. Mosk. energ. in-ta (Works of Moscow Power Engineering Institute), 1972, vyp. 96, pp 8-11 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V151)

Translation: It is assumed that there are values Q of the functions $\alpha_1, \ldots, \alpha_Q$ at a point of R-dimensional space $x = (x_1, \ldots, x_R), \ Q > R$ which are measured with normal errors. It is further assumed that there are Q - R relations between α_q . $F_{k(\alpha_1, \ldots, \alpha_q) = 0}, \ k = 1, \ldots, Q - R$. The author considers the problem of obtaining an approximate estimate of least squares for x assuming the condition $F_k(\alpha_1, \ldots, \alpha_q) = 0$. The resultant estimate (for α_q) is written in explicit form. Yu. Gromak.

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UDC 616.41/.42-056-02:616.45-001.1/.3

GORIZONTOV, P. D.

"Patterns of the Nonspecific Reaction of the Hematopoietic Organs to Extreme Stimuli (Stressors)"

Moscow, Arkhiv Patologii, No 8, 1973, pp 3-11

Abstract: Wistar rats, mice, and guinea pigs were subjected to electroshock, immobilization, bleeding, ionizing radiation, cold, toxic chemicals, etc. with a view to determining the effect of these stressors on the cellular composition of bone marrow, thymus, and spleen. The following changes occurred in response to all the stressors: decrease in number of mature granulocytes and increase in number of lymphoid and immature myeloid cells (myeloblasts and myelocytes). The stimulation of leukopoiesis causes a transient hyperplasia of myeloid tissue that reaches a peak in the resistance stage. The process develops into hypoplasia in the exhaustion stage or the cellular composition of bone marrow becomes normal upon the return to the original state. Thus, it is conjectured that hyperplasia of myeloid tissue plays a major role in increasing nonspecific resistance to stress.

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USSR

UDC 616-092:612.014.482

GORIZONTOV, P. D.

"Basic Problems in the Pathogenetic Action of Ionizing Radiation"

Moscow, Patologicheskaya fiziologiya i eksperimental'naya terapiya, No 4, 1972, pp 6-13

Abstract: This article is a survey of previous work done on the effect of ionizing radiation on the mammalian organism. Radiation sensitivity and damage of cells, problems of radiation damage to organisms, the recovery problem, the role of humoral factors in the recovery process, and the values of certain systems for varying the radiation sensitivity of the organism are discussed. A bibliography of 63 titles is appended. Results of 30-day irradiation of mice, cell damage in the thymus of rabbits and guinea pigs as a function of dosage, and the change in the number of thymus cells in rats under a dosage of 700 roentgens, are presented.

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UDC 616.34-001.29-092

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GORIZONTOV, P. D.

"The Pathogenesis of the Enteric Form of Acute Radiation Sickness"

Moscow, Arkhiv Patologii, Vol 33, No 11, 1971, pp 3-12

Abstract: Whole body doses from 1,000 to 5,000 r and local doses from 2,250 r cause a special enteric form of radiation sickness which is fatal within 3-5 days to animals and 6-9 days to humans. The intestine is the critical organ. The primary morphological changes are: depletion of the epithelium of the intestinal mucosa as a result of delayed mitosis, which impairs DNA synthesis; interphase death of cells in the resting stage; and genetic death resulting from cells incapable of division due to a damaged chromosome system. Impaired absorption of water, electrolytes, fatty acids, carbohydrates, and amino acids has been found, as well as evidence of impaired neurohumoral regulation. Experiments on the negative effects of toxins, bile, and disorders of the microcirculatory system are discussed. Research on the role of biogenic amines seems to indicate that histamine is detrimental, while serotonin may have a beneficial effect on irradiated tissue.

The basic pathogenic mechanism seems to be denuding of the intestinal mucosa 1/2

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GORIZONTOV, P. D., Arkhiv Patologii, Vol 33, No 11, 1971, pp 3-12

following loss of epithelial villi, leading to infection. There is evidence that bacteria are involved in the development of radiation pathology. Most researchers consider dehydration and loss of electrolytes the fundamental cause of death. A dissenting opinion defines cause of death as shock resulting from bacterial and tissue intoxication. Positive results in radiation therapy have been achieved by slowing the metabolism, excluding the intestine from digestion, and removing pancreatic juice and bile from the intestine. Shielding various portions of the body during total body irradiation and treating the hemopoietic organs has been moderately successful. It is concluded that it is not only direct cellular damage but also factors affecting functional shifts in the intestine which cause this form of radiation pathology.

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USSR

UDC 616-056.3(082)

GORIZONTOV, P. D., and KLEMPARSKAYA, N. N., Moscow

"Variation in Reactivity of an Irradiated Organism"

Moscow, Problemy Immunologicheskoy Reaktivnosti i Allergii (Problems of Immunological Reactivity and Allergy), Moscow, "Meditsina," 1971, pp 19-29

Abstract: A study was made of the change in allergic reactivity and the induction of autoallergic processes as a result of ionizing radiation. A survey of the work in this field including research procedures and results is presented. Two different procedural paths are considered: 1) the discovery and description of certain changes in the structure and function of individual organs and systems and 2) evaluation of the integral index of reactivity of the organism as a whole, that is, the adequacy of coordinated functioning of all its systems. Graphs are presented showing the effect of homosensitization on the survival rate of irradiated mice, the increase in the death rate of irradiated mice under the effect of subcutaneous injection of 0.5 ml of 25% spleen extract 5 hours after irradiation, leukocyte damage in a rabbit irradiated with 600 roentgens 30 days after irradiation on contact with homologous tissue antigen, the dynamics of appearance of autoantibodies in irradiated (600 roentgens) and sensitized rabbits (fivefold intra-abdominal injection of 10 ml of a mixture 1/2

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GORIZONTOV, P. D., and KLEMPARSKAYA, N. N., Problemy Immunologicheskoy Reaktivnosti i Allergii, Moscow, "Meditsina," 1971, pp 19-29

of equal parts of 10% homogenate of homologous tissue of the liver, kidneys and intestine), and the titration dynamics of autoantibodies in rabbits after irradiation with 800 roentgens for DNA and renal antigen and for the renal antigen of dogs after repeated irradiation with a lethal dose of 360 roentgens. Experimental results are analyzed and the mechanisms discussed.

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UDC 616.45-001.113-092.9-07:616.15-07

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CORIZONTOV, P. D., and FEDOTOVA, M. I.

"Hematological Shifts in Rats Induced by Repeated Application of a Weak Stimulus: The Stress Problem"

Moscow, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, Vol 15, No 4, Jul/Aug 71, pp 35-38

Abstract: The stress reaction to weak stimuli was studied in young rats. Repeated (3-19) intravenous injections of 0.25 ml of a sterile, isotonic sodium chloride solution constituted the weak stimulus, because such injections are often performed on animals serving as controls. This stimulation precipitated a distinct stress reaction, involving loss of body weight, hypertrophy of the adrenal glands, involution of the thymolymphatic system, and a gradually progressing bone marrow hypoplasia. Contrary to the stress reaction observed in rats after daily application of strong electric stimuli, the weak stimulus used in this investigation produced no leukocytosis, no increase in the number of lymph cells in the bone marrow, and no activation of myelopoiesis in the mobilization stage, as well as no transitory marrow hypertrophy in the resistance stage. However, 1/2

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GORIZONTOV, P. D., and FEDOTOVA, M. I., Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, Vol 15, No 4, Jul/Aug 71, pp 35-38

the injections induced a reduction in the number of parenchymal cells in the thymus and in the lymph node as well as an activation of lymphopoiesis and an increase in the number of lymph cells in the spleen. The results suggest that the physiological significance of the above-mentioned organs varies depending on the circumstances.

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UDC 616.155.394-02:617-001.282-085.273.3

GORIZONTOV, P. D., KALYAYEVA, T. V., and ROGOZKIN, V. D.

"Leukocytin, a New Agent for the Treatment of Radiation Leukopenia"

Moscow, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, No 1, 1971, pp 54-59

Abstract: The recently developed hematopoiesis stimulant leukocytin (containing the glycosidal alkaloid solanine) was administered orally to rabbits (15 ml) and dogs (30 mg) every other day from 1 to 20 days after whole-body X-ray irradiation (450 to 500 r and 400 r, respectively). The preparation diminished the degree of leukopenia and degenerative changes in the spleen and bone marrow, preserved mitosis, and accelerated the regeneration of hematopoietic cells. Leukocytin, approved by the USSR Pharmacological Committee for use in the treatment of acute radiation sickness, is not a specific antiradiation agent and it can apparently be used for leukopenia due to other causes than radiation. The preparation is nontoxic (the authors tested it on themselves).

USSR

UDC: 8.74

CORTZONTOVA M B

"Some Principles of Organizing Factographic Information Retrieval Systems With Tabular-Form Representation of Information and

Moscow, V sb. <u>Tsifr. vychisl. tekhnika i programmir.</u> (Digital Computer Techniques and <u>Frogramming--collection of works</u>) "Sov. Radio," No 7, 1972, pp 75-83 (from RZh--Matematika, No 8, 1972, Abstract No 8V625)

Translation: A description is given of the principles of constructing factographic information retrieval systems with the information represented in the form of object-characteristic tables. A chort sketch is given of the composition of the information reservoir and the procedural means of the system providing for the retrieval and processing of the information, and the central problem for dynamic systems of the absence of information is considered; specific methods for solving that problem are proposed. Author's abstract

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UDC: 8.74

GORIZONTOVA, M. B.

"On Some Principles of Organizing Factographic Data Retrieval Systems With Tabular Form of Data Representation and a Library

V sb. Tsifr. vychisl. tekhnika i programmir. (Digital Computer Technology and Programming-collection of works), vyp. 7, Moscow, "Sov. radio", 1972, pp 75-83 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V623)

Translation: The paper describes the principles of synthesizing a factographic data retrieval system with data representation in the form of object-characteristic tables. The make-up of the information store is briefly described, the procedural facilities of the system which take care of data which is important for dynamic systems is considered, and specific ways are proposed for solving it. Author's abstract.

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UDC 617-001.28-085.356:577.164.3-092.9-07:616-018.1-

GORIZONTOVA, M. P., Institute of Normal and Pathological Physiology, Academy of Medical Sciences, USSR, Moscow

"The Effect of Esculamin on Permeability of the Memoranes of Muclei and Mitochondria in Cells of Irradiated Animals"

Moscow, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, No 3, May/Jun

Abstract: Esculamin (G-BB'-dihydroxydietlaminemethyl-4-nethylesculetin) is a preparation with vitamin P activity. Its barrier effect on the action of subcellular particles in the cells of animals irradiated with x-rays was studied. For this purpose the MG accumulation in thymus cells of rats was studied at various intervals after irradiation. One hour after irradiation, a drop in the 15 ion accumulation in thymus cells of irradiated rats treated with esculation was found. This was explained by a decrease in the permeability of the cell membranes with respect to Mg ions. In vivo tests showed that 24 hours after irradiation, prophylactic introduction of esculamin reduced Mn54 accumulation by liver mitochondria in irradiated mice. Corresponding in vitro tests showed that this is caused by a reduction in permeability of mitochondrial membranes with respect to 1/10/14. The data show that a barrier-protective action of esculamin exists at the vessel-tissue level, as well as at the cell-membrane level.

1/2 016 TITLE-THE EFFECT OF ESCULAMINE ON THE PERMEABILITY OF THE MEMBRANES OF THE NUCLEI AND MITOCHONDRIA IN THE CELLS OF IRRADIATED ANIMALS -U-PROCESSING DATE--300CT70 AUTHOR-GGRIZENTOVA. M.P. COUNTRY OF INFO-USSR

SOURCE--PATAOLOGICHESKAYA FIZIOLOGIYA I EKSPERIMENTAL NAYA TERAPIYA, 1970, DATE PUBLISHED --- 70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-PROCESSED PLANT PRODUCT, ANTITRADIATION DRUG, MAGNESIUM COMPOUND, THYMUS GLAND, MANGANESE ISOTOPE, LIVER, MITOCHONDRION

CENTREL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PPDXY REEL/FRAME--3001/1920

STEP NO--UR/0396/70/014/003/0022/0025

CIRC ACCESSION NO--AP0127321

UNCLASSIFIED

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2/2 016 CIRC ACCESSION NO-AP0127321 UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0-PROCESSING DATE--300CT70 VITAMINIC ACTIVITY WAS GIVEN PER OS TO RATS (5 DUSES) FOR 3 DAYS BEFORE IRRADIATION WITH A DOSE OF 1,000 R. THIS PREPARATION REDUCED THE MG ION ACCUMULATION IN THE NUCLEI OF CELLS OF THE THYMUS IN GAE AND 24 HOURS AFTER THE IRRADIATION. IN MICE IRRADIATED WITH A DUSE OF 800 R ESCULAMINE GIVEN PROPHYLACTICALLY BY THE SAME SCHEME DIMINSHED MN PRIMES4 ACCUMULATION BY MITOCHONDRIA OF THE LIVER, BOTH WHEN THE ISOTOPE WAS GIVEN IN VIVO, AND IN VITRO (IN INCUBATION OF MITGCHONDRIA IN ESCULAMINE CONTAINING MEDIUM); EXAMINATION WAS CARRIED OUT 24 HOURS ACCUMULATION BY THE NUCLEI OF RAT THYMUS, AND MN PRIMES4 ACCUMULATION BY THE MITOCHONDRIA OF MOUSE LIVER ALSO PROVED TO DIMINISH. THE DATA OBTAINED INDICATE A BARRIER PROTECTIVE ACTION OF ESCULAMINE AT THE LEVEL OF THE MEMBRANES OF THE NUCLEI AND MITOCHONDRIA OF CELLS. INSTITUT NORMAL'NOY I PATOLOGICHESKOY FIZIOLOGII AMN SSSR, MOSKVA.

UNCLASSIFIED

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ШС 591.1.15

GORKIN, V. Z., AKOPYAN, ZH. I., KULYGINA, A. A., and ZEYNALOV, T. A.

"Disturbances of Deamination of Some Nitrogen Compounds and a Method of

Byul. eksperim. biol. i med. (Bulletin of Experimental Biology and Medicine), 1971, 72, No 11, pp 42-45 (English summary) (from RZh-Biologicheskaya Khimiya, No 4, 25 Feb 72, Abstract No 4F1256 from summary)

Translation: White rats which had been x-irradiated (1000 rad dose) were used in the experiments. Diminution of monoaminoxidase activity, accompanied by the appearance of histamine and AMP deaminase activity, occurs in rat liver mitochondria after irradiation or intraperitoneal injection of oxidized oleic acid. Repeated injections of rats with adenozine-2'(3')-monophosphate result in normalization of these disturbances of the deamination of nitrogen compounds.

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UNULASSIFIED PROCESSING DATE--1102070
TITLE--SYNTHESIS, PHARMACULOGICAL PROPERTIES, AND EFFECT OF SOME SYDNAME
IMINES ON MCNOAMINE OXIDASE ACTIVITY -UAUTHOR-(UD)-YASHUNSAIY, V.G., MASHAGVSKIY, M.D., GORKIN, V.Z., KOLODOV,
L.E., ALTSHULER, R.A.
CCONTRY OF INFO-OUSER
SUBJECT-FARMAKUL. TCKSIKOL. (MUSCOM) 1970, 33(3), 297-302
DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES
TCPIC TAGS--CENTRAL NERVOUS SYSTEM STIMULANT, CHEMICAL SYNTHESIS, DRUG
EFFECT, CXIDASE

CCONTROL MARKING--NU RESTRICTIONS

CIRC ACCESSION NO--APO139586

DOCUMENT CLASS--UNCLASSIFIED

UNCLASSIFIED

PROXY FIGHE NO----FD70/605001/F10 STEP NO--UR/0390/70/033/603/0297/0302

2/2 015

CIRC ACCESSION NU--APO139586

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A NO. OF 3, PHENYLALKYL DERIVS. OF SYDNCRE INTRE, WHEN GIVEN TO MICE, STIMULATED THE CENTRAL NERVOUS SYSTEM AND ACTED AS PERIPHERAL ADERONIMETICS. THEY ALSO INHIBITED MUNDURAINE OXIDASE IR VITRO. FACILITY: VSES. NAUCH.-ISSLED. KHIM.-FARM.

INST. IM. ORDZHCNIKIDZE, MOSCOW, USSR.

UNCLASSIFIED PROCESSING DATE--04DEC70 TITLE--MONDAMINE OXIDASE ACTIVITY IN LIVER AND ASCITES HEPATOMA NUCLEAR AUTHOR-(03)-GORKIN, V.Z., KUZMINA, S.N., ZBARSKIY, I.B.

COUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSSR 1970, 191(2), 472-3

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES
TOPIC TAGS--RAT, LIVER, OXIDASE, NUCLEUS, TUMOR

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO----FD70/605006/F01 STEP NO---UR/0020/70/191/002/0472/0473

CIRC ACCESSION NO--ATO139813

UNCLASSIFIED