USSR

- July 1595.2

IL'YICHEV, V. D., GULUBEVA, T. B., AMISIMOV, Ye. Ye.

"Electrophysiological Characteristics of the Acoustic Analysor of Sirds. II. Medulary Acoustic Suclei and the Cochlea"

Moscow, Biologichoskiye Nauki, Vol 13, No 7, 1970, pp 31-45

Abstract: A review is presented of studies conducted by many authors on the various potentials and characteristics of the accustic apparatus. It is suggested that, in order to develop adequate research methods, the work of histologists and electrophysiologists should be unified.

Entered 27/XII 1900

Chair of Vertebrate Zoology, Moscow State University im. M. V. Lomonosov

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UDC 621.791.053:620.172.24:620.172.25

BAKSH, O. A., MONOSHKOV, A. N., and ANISIMOV, Yu. I., Chelyabinsk, Chelyabinsk Polytechnical Institute

"Low-Temperature Effect on the Efficiency of Welded Joints Under Static Tension"

Kiev, Problemy Prochnosti, No 8, Aug 70, pp 74-79

Abstract: An outline is given for a procedure for the theoretical evaluation of the ductility and brittleness of welded joints of compact cross section with a smooth interlayer, which are subjected to static tension. Mechanical inhomogeneity and temperature (up to 78° K) are taken into account. The plastic properties and type of failure, in relation to service temperature, were investigated under certain assumptions. Tests samples were made of 45Kh and St10 steels, welded by friction. Tests were conducted on an UMM-5 test machine at temperatures of -20, -78, -100, -150, -170, and -196°C, with a deformation rate of 1.1 x 10^{-3} sec. The results show that with decreasing T and with a reduction in the relative thickness of the interlayer χ , the yield point and short-time strength increase.

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- 41 -

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BAKSH, O. A., et al, Problemy Prochnosti, No 8, Aug 70, pp 74-79

A transfer of fracture from the soft interlayer toward the hard metal was observed in the entire temperature range and at sufficiently small values of χ . The range of interlayers with brittle fracture widened with decreasing temperature, attaining χ = 0.9 at 78° K. The test procedure is described briefly.

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USSR UDC 541.123.2:[546.621-31+546.45-31]:[532.6+542.3]

YELYUTIN, V. P., MITIN, V. S., and ANISIMOV, YU. S., Moscow Institute of Steel and Alloys

"Surface Tension and Density of Al_2O_3 -BeO Melts"

Moscow, Izvestiya Akademii Nauk SSSR, Neorganicheskiye Materialy, No 9, Sep 73, pp 1585-1587

Abstract: Researchers today are paying considerable attention to the study of the properties of liquid oxides of aluminum and beryllium because of the expanding use of powders from these metals and their alloys in solid rocket fuels. One of the main factors in this research is the determination of density and surface tension of oxides in the liquid state. The authors of this article established the concentration dependence of surface tension and density of liquid ${\rm Al}_2{\rm O}_3{\rm -BeO}$ melts. They measured the surface tension and density of pure aluminum oxide and nelts of ${\rm Al}_2{\rm O}_3$ as a function of temperature. The values of surface tension of pure Al203 were found to be lower than that found previously. The value of the density of liquid aluminum oxide, equal to 3.03 g/cm^3 , at the melting point is found to be in good agreement with previous data, but the temperature coefficient of the density is somewhat higher. The article contains 2 figures, 1 table, and 4 bibliographic references. 1/1

Acc. Nr: 0100578 Abstracting Service: CHEMICAL ABST. 5-70

Ref. Code: UR 0065

Sea petroleum by adsorption and hydrogenation methods. Kuliev, R. Sh.; Kevorkova, I. S.; Anisimova, A. M. (USSR). Khim. Tekhnol. Topl. Masel 1970—15(2), 20-2 (Russ). By adsorption purification on the optimum ant. (25%) of an aluminosilicate catalyst at 35° and by hydrogenation on a WS2 catalyst at a vol. input rate of 0.5 hr⁻¹ at 300°/300 atm with 1000 l. H l. distillate, viscosity at 50°, acid no., and f.p. of a dewaxed distillate transformer oil were changed from 7.08 cSt, 0.36 mg KOH g and -47° to 7.09 and 7.27 cSt, 0.01 and 0.02 mg KOH g and -45°, resp., color and transparency were improved, and stability toward oxidn. was raised to the level specified by GOST 981-55 and 11257-65. The resp. stabilized oils had flash points of 150° and tan angles of dielec. loss at 70° of 0.17 and 0.31. Process variable ranges explored were 25-150% adsorbent and hydrogenation temps., pressures, and H coners. of 300-425°, 50-300 atm, and 300-1000 l. l.

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PAISCV, A. I., DEITRIYEV, L. I., ANISIMOVA, G. V., and KCEMEYEVA, N. N.

"Study of the Effect of Aging Temperature on the Structure and Properties of Khil777YuR Alloy"

Tekhnol. legkikh splavov. Kauchno-tekhn. byul. VILSa (Technology of Light Alloys. Scientific and Technical Bulletin of All-Union Institute of Light Alloys), 1970, No 5, pp 97-102 (from RZh-Ketallurgiya, No 3, Mar 71, Abstract No 31751 by E. Volin)

Translation: The interrelationship is found between C_{100} and $C_{0.2}$ at 700 and 800° (from reference data), characterized by the correlation factor 0.9 and 0.60 respectively, as well as between C_{1000} : 0.2 and testing temperature, correlation factor 0.71. KhN77TYUR alloy was tested after heating to 1000° , 8 hr, with subsequent aging at 700-350°, 16 hr. An aging temperature increase in the 700-800° range increases heat resistance and stability of structure. Aging at 850° sharply reduces rupture strength as a result of a decrease in the quantity of the strengthening phase. Air cooling from 1000° assures a higher rupture strength as a result of further aging in tests than with subsequent 1/2

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PAISOV, A. I., et al., Tekhnol. legkikh splavov. Nauchno-tekhn. byul. VIISa, 1970, No 5, pp 97-102

aging at 700 and 800° (35 150 hr as against 95 and 120 hr respectively).

0.2 charges analogously. Four illustrations. Bibliography with seven titles.

USSR

ANISIMOVA, L. F.

"The Use of Linear Correlation Relations for Restoration of Information Concerning a Transient Process Which Has Been Lost"

Tr. Mosk. Aviats. In-ta [Works of Moscow Aviation Institute]. 1972, No 258, pp 10-16 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No 9V143)

Translation: Suppose \mathbf{X}_1 , \mathbf{X}_2 , ..., \mathbf{X}_n are statistically related random parameters, and the results of measurements of parameter \mathbf{X}_1 may be lost

during recording of the values of the parameters. An algorithm is suggested for restoration of the lost values of parameter \mathbf{X}_1 on the basis of values of parameters \mathbf{X}_2 ..., \mathbf{X}_n , based on a set linear regression equation. The ordinary method and the method of Chevyshev are used to compose the regression equation.

YU. Shinakov

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UDC 547.241

NIKOLAYEVA, V. G., ANISIMOVA, L. V., MUKHACHEVA, O. A., and RAZUMOV, A. I., Kazan' Chemical-Technological Institute Imeni S. M. Kirov

"Studies in the Series of Phosphinic and Phosphinous Acid Derivatives LXXXIX. Structures and Properties of Phosphorylated Hydroxamic Acids and Their Salts"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 5, May 73, pp 1013-1019

Abstract: A series of phosphorylated hydroxamic acids and salts was synthesized by a previously described method. Physical constants, IR, UV, and PMR data are reported for the new compounds. On the basis of spectral analysis it was shown that the solid phosphorylated hydroxamic acids and their salts are in the amide form $R_2P(=0)(CHX)_nC(=0)NHOH$.

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- 16 -

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

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SHAKHNAZAROV, YU. V., ANISIEOVA, M. S., BARAKHTIN, B. K., and SHUL'LAN, V. E., Leningrad

"The Stabilization of Austenite with Inverse Conversion in Cr-Co-No and Cr-Ni-Co-No Steels"

Moscow, Izvestiya Akademii Nauk SSSR, Netally, No 2, Mar-Apr 73, pp 160-163

Abstract: The stabilization of austenite was investigated with inverse conversion in Khi5Ki9W3 steel not containing Ni, and in Wi-containing Kh14K14K14K13 steel, both shelted in one-ton vacuum arc furnaces. The offent of the aging temperature on characteristic factors as the quantity of residual austenite, electric resistance, period of & -phase lattice, innact ductility, and hardness, is discussed by reference to disgrams. The lowered stability of austenite, developing on initial stages of of -> / coaveration according to the chifting mechanism, indicate a low contribution of phasal peening to the stabilization effect. The maximum stability results with the development of (- of conversion, which becomes possible by a significant redistribution of elements. Considering the increased solubility of No in martensite at decreasing Co content, it can be assumed that the stabilization of austenite in steel not containing M is in presence of Cr, determined by phase concentration with Co. Three figures, eight bibliographic references. 1/1

USSR

MDC 539.4:621.81

ANISTIOVA, R. I., SHIEMOV, YU. I.

"Experimental Study of the Stresses of the Grankshaft of a $4000 - 100 / \sigma$ upposite Compressor"

Tr. Gor'kov. in-to inzh. vodn. transn. (Works of the Gor'kir In titure of Weter Transportation Engineers), 1971, vyp. 112, pp 22-31 (from EMA-Median Chr. No. 11, Abstract do 11996%)

Translation: A description is presented of tensometric remove attains on the flanges and fillets of the crackshaft of the 525 lilewast nerice describes a cantilevered electric motor performed by the Gor'hiy Scientiffs Research Materials Testing Laboratory in Cooperation with the Lectiffinite Sh [heninged] Scientiffs Research and medigm institute of Chemical Harminery]. House, were defined for the fluiting afformable magnitudes of the divergence, of the flui error of the shaft and the effect of the forces of impactic attraction of the rotal to the traction of the specifies of the rotal part of the magnitude via indication of the position of the reliable strain pages. The results of the studies are presented predicted by the fellow testing basic conclusions were drawn: the basic effect on the attempth of the fire vestigated shaft comes from the cantilever loading, and the parpires of attempth

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ANISHOVA, N. 1., et al., Tr. Cor'hov. in-ta inzh. vedn. tranco., 1971, vyz.

of the shaft exceed the allowable values. The allowable spread of the first offset of the shaft from the electric motor with the rotor seated is 0.10 the (the minimum margin of safety is 2). Use of one-way arguetic attraction is effective, especially for worn bearings. An initial eccentricity in the range from 0.25 to 0.45 is recommended.

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ANISIMOVA T. M. Compiler, Bionika. Bibliograficheskiy Ukazatel' Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

Translation: Annotation: This bibliography contains literature on bionics and certain related fields of biology, automation, and cybernetics for 1958-1968. The literature is classified with due regard for the basic areas of interest in bionics, such as biomechanics and bioenergetics, the problem of modeling receptors and analysors, biological aspects of the problem of image recognition, the problem of animal orientation and navigation, modeling nerve networks and the brain, and so on. The index is intended for scientific workers, engineers, teachers, and students working in bionics and related fields.

Foreword:

Since 1963, the Library of Technical Literature of the Sector of the Network of Special Libraries of the Academy of Sciences USSR, together with the bionics sections of the Scientific Council on the Complex Problem of Cybernetics and the Scientific Council on Problems of Navigation and Automatic Control of the Academy of Sciences USSR, has been compiling a card index of literature on bionics. On the basis of this card index, bibliographic 1/11

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ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel' Oteches-tvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

indexes on particular problems of bionics have been published and operational bibliographic bulletins have been compiled regularly.

Because the literature gathered may be of interest to a broad range of workers at scientific research institutes, higher educational institutions, and industrial organizations doing research in the area of blonics or using the achievements of bionics, the Sector of the Network of Special Libraries of the Academy of Sciences USSR decided to publish a bibliographic index of domestic and froeign literature on bionics for 1958-1968. In the process of preparing the index, the card file was significantly supplemented by reviewing sets of journals, bibliographic publications, library catalogues, Russian and foreign reference journals, and other sources. The index includes literature for 1958-1968 and, partially, for 1969.

This is the first time in the Soviet Union that a bibliography has been published which encompasses literature on the most varied areas of bionics, 2/11

- 63 -

USSR ·

ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel' Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

which has appeared during the existence of bionics as an independent scientific area. Due to the multidisciplinary nature of bionic research, the index includes literature directly related to bionics as well as literature pertaining to certain related fields of biology, medicine, automation, cybernetics, and other areas, because research in these fields is closely linked with bionics and may exert a substantial influence on its development.

As the first attempt to publish a broad blonics bibliography, the index will certainly make some omissions. Because the basic purpose was to compile a bibliographic aid for scientific workers, some articles of a popular nature have not been included in the index.

The literature was classified in accord with the basic areas which have taken shape in bionics and have been outlined, in particular, at the All Union (onferences of 1963, 1965, and 1968. Among these basic areas are the problems of biomechanics and bioenergetics, modeling receptors, and analysers, the bionic aspects of the problem of image recognition, orientation and navigation by biological objects, and the problem of control in biological systems. 3/11

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ANISIMOVA, T. M., Compiler, Bionika. Bibliograficheskiy Ukazatel' Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

In view of the specific nature of some sections, the literature in each of them has been grouped by separate areas and problems in the manner that seemed most expedient for that section. Subsections are introduced considering the biological, ecological, and physical-technical aspects of the corresponding problem and the specifics of scientific research work on the problem.

Annotations are given for certain Russian and foreign sources in order to further reveal content. Translations of titles are given for foreign works. For convenience in use, the bibliography has appendices — an author index and an index of abbreviations of literature sources.

Table of Contents: Foreword	Page
1. General Questions of Bionics, Technical Modeling of Biologica Systems	5 I
2. Bionic Aspects of Biomechanics, Bioenergetics, and Biochemistr 4/11	7 12

- 64 --

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ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel' Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

	1.	Conoral Ougati	Pag
		General Questions	12
	2.	Biomechanics, Bioenergetics, and Biochemistry of	
		Marine Organisms	15
	3.	The backing the backing the bank of the ba	17
_	4.	Biomechanics and Bioenergetics of Flight	18
3.	Recep	otor Mechanisms	22
	1.	General Questions	22
	2.		
		General Questions	24
		Tactile Receptors	24
			26
		The Vestibular Apparatus and Lateral Line Organs	27
		Hearing	29
	3.	Photoreceptors	30
		General Questions	30
		The Retina and Its Models	
		Insect Photoreceptors	33
5/11		among thorotocoptors	36

USSR

ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel' Oteches-tvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

		Page
4.	Hemoreceptors	38
	General Questions	38
	Olfaction	39
	Taste	41
5.	Thermal Receptors	42
6.	Intercreceptors	43
Orier	ntation, Navigation, and Location in Animals	44
1.	General Questions	44
2.	Biological Clocks	45
3.	Orientation, Navigation, and Location in Marine Animals	46
	General Questions	41,
	Hydroacoustic Orientation and Location	34
		49
	Chemical Mechanisms of Orientation •	51
4.	Orientation, Navigation, and Location in Land Acidals	51
		51
	offentation and Navigation of Other verteblates	55
	5. 6. Orier 1. 2. 3.	General Questions Olfaction Taste 5. Thermal Receptors 6. Intercreceptors Orientation, Navigation, and Location in Animals 1. General Questions 2. Biological Clocks 3. Orientation, Navigation, and Location in Marine Animals General Questions Hydroacoustic Orientation and Location Optical Mechanisms of Orientation Chemical Mechanisms of Orientation •

~ 65 -

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7/11

ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel' Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 163 pp

	Orientation and Mante	Page
	Orientation and Navigation of Insects	57
	Acoustical Mechanisms of Orientation and Location	58
_	Optical Mechanisms of Orientation and Navigation	60
5.	The Effect of Physical Fields and Radiation on	
	Biological Objects	63
	1. The Effect of Different Fields.	0.5
	Multifaceted Influences.	63
	2. Biological Effect of an Electric Field.	0,1
	Electroreceptors	65
	3. Effect of Magnetic Fields on Biological Objects	67
	4. Biological Effects of Electromagnetic Fields	70
6.	Behavior, Communication, and Problems of Controlling	117
	Animal Behavior	7:
	1. General Questions	71
	2. Marine Animals	71
	3. Land Animals	72
	5. Band Mithals	74

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8/11

ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

			Page
7.	Bioni	ic Problems of Control and Regulation	. 77
	1.	General Questions	77
	2.	Regulation of Temperature, Chemical Composition,	
		and Other Parameters	79
	3.	Control Over Mechanical Movements	08
	4.	Control in Moving Objects	83
	5.	Bionic Slave Devices. Robots, Models of Whole	
		Mechanisms	84
8.	Probl	ems of Constructing Comprehensive Biological-	
	Techr	ical Systems	- 87
	1.	Biological Aspects of the Man and Machine Problem	87
		General Ouestions	87
		Monitoring and Forecasting the State of the Human	•
		Operator	89
		New Channels of Interaction Between the Homan	
		Operator and the Machine	89
		2	

- 66. -

USSR

ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel' Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

		2 n. 1	Pag
		2. Bioelectric Control Systems and Prostheses	90
		3. Biological Objects in the Composition of Technical	
		Devices and Systems	94
		4. Obtaining Information on the State of Biological	, ,
		Systems	9.4
		Biomedical Equipment	94
		Telemetric Equipment	98
		Computer Technology in Biology and Medicine	99
		5. Stimulators. Active Influence on Biological	33
		Processes	100
	9.	Bionic Problems of Image Recognition	100
		1. General Questions. Analysors and Image Recognition	101
		the result in the result is a second of the control	101
		2. Recognition of Aural Images	103
		3. Recognition of Visual Images	107
	10.	Neurobionics	
		1. General Questions, the Problem of Investigation	112
		and District Questions, the Problem of Investigation	
9/11		and Physical Modeling of the Nervous System	112

USSR

ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel' Otechestvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

			rage
	2.	Primary Functioning Mechanisms of Elements	•
		of the Nervous System and Bioelectric Phenomena	115
	3.	Neurons and Neuron Models	116
	4.	Nerve Fibers and Neuristors	121
	5.	Nerve Networks and Centers and Models of Them	122
	6.	Information Encoding and Transmission in	
		Biological Structure	126
	7.	Mechanisms of Adaptation and Learning	127
	8.	Memory	129
	9.	Problems of the Reliability of Biological Systems	130
11.	Bionic Aspects of Cybernetics and Mathematical Biology		132
	1.	General Questions	132
	2.	Modeling Behavior	135
	3.	Modeling Thought and the Psyche	135
	4.	The Brain and Computers	141

10/11

- 1,7 -

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ANISIMOVA, T. N., Compiler, Bionika. Bibliograficheskiy Ukazatel Otechostvennoy i Inostrannoy Literatury 1958-1968 (Bionics. Bibliographic Index of Soviet and Foreign Literature 1958-1968), Moscow, "Nauka," 1971, 168 pp

5.	Mathematical Models of Biological Systems	Page
6.	and Processes	142
Author Index	Bionic Aspects of the Theory of Large Systems	143
List of the Abl	reviations of Names of Russian and Foreign Journals	144
	restractions of Russian and Foreign Journals	161

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AUTHOR-(05)-ANISIMOVA, V.V., GORSHKUVA, I.A., DUKUKINA, A.F., PETERKIN, B.D., SMIRNOVA, Z.A.

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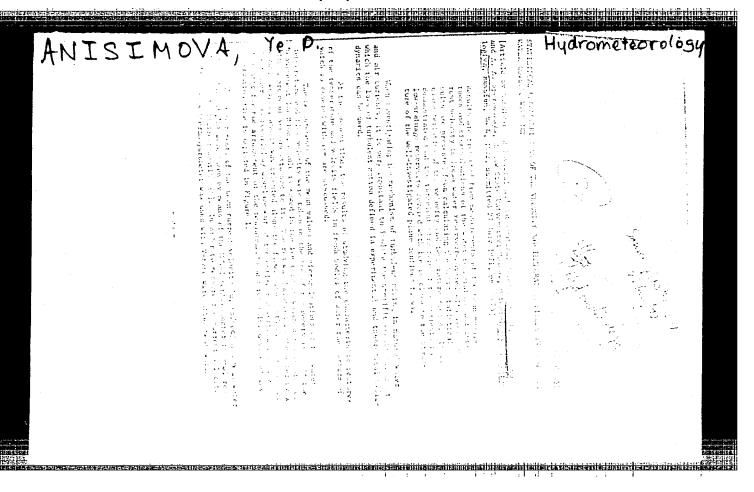
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UNCLASSIFIED PRUCESSING DATE-- 300C170 CIRC ACCESSION NO-APO124449 ABSTRACT/EXTRACT-(U) GP-0- ABSTRACT. THE INFLUENCE OF COMONOMER MIXT. COMPN. GN THE COMPN. AND PROPERTIES OF THE TITLE TERPOLYMERS WAS STUDIED. EMULSION OR BULK POLYMN. OF STYRENE (1), BUTADIENE (11) OR ISOPRENE (III), AND P PHC SUB6 H SUB4 CF:CF SUB2, PHCF:CFSUB2 (IV), C SUB6 F SUB5 CME:CHSUB2, PHCF: CFCL, OR RPHC SUB6 H SUB4 CF: GAVE 12 HIGH MOL. WT. TERPOLYMERS, IN 17.9-72.4PERCENT YIELDS, WHOSE FLUOROSTYRENE CONTENTS (05.-24PERCENT) WERE SIGNIFICANTLY LOWER THAN THOSE IN THE ORIGINAL MONOMER MIXT. (3.66-49-82 MOLE PERCENT). EMULSION POLYMN. OF A I-II-III MIXT. AND BULK POLYMN. OF I, III, AND C SUB6 F SUB5 CH:CH SUB2 DID NOT GIVE TERPOLYMERS. REACTIONS WITH ISOPRENE REQUIRED SIMILAR TO 4 TIMES LONGER. THE HIGHER THE II CONTENT OF A TERPOLYMER, THE HIGHER ITS MOL. WT. TERPOLYMER CONTG. GREATER THAN 20PERCENT II WERE RUBBERS; FILMS CAST FROM BENZENE SCLN. WERE MORE ELASTIC THAN THOSE OF COPULYMERS NOT CONTG. II. FACILITY: LENINGRAD. POLITEKH. INST. IM. KALININA, LENINGRAD, USSR.

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RYBAKOV, N. I., GUBERNIYEV, M. A., CHIMIROV, O. B., DROZHENNIKOV, V. A., KOLOBOV, A. V., ANISKIN, Ye. D., and KOZLOV, V. A., Institute of Experimental Biology, Academy of Medical Sciences USSR

"The Effect of Some Radioprotectors on Processes Associated With Lysogenization of Bacteria and Induction of Intracellular λ -Exonuclease"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 1, 1970, pp 38-42

Abstract: The radioprotector finam (an aminothiol inhibited the frequency of lysogenization of E. coli SF-14 (Λ -try-S^r) by λ -phage and inhibited the synthesis of induced λ -exonuclease at different times after infection. The effect was most pronounced in early stages of infection. After thirty minutes the inhibiting effect of the radioprotector on λ -exonuclease activity decreased sharply. Results of determination of the activity of λ -exonuclease are consistent with data on the effect of finam on lysogenization of the same bacterial strain. This suggests that enzyme systems play a part in the development of lysogenicity in bacterial cells. These enzymes may be DNAses of the endonuclease type.

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PRIMARY SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, 1970, Nr 1, pp 28-42-

Rybakov, N. I.; Guberniyev, M. A.; Chimirov, O. B.; Drozhennikov, V. A.; Aniskin, Ye. D.; Kolobov, A. 7.; Kozlov, V. A.

INFLUENCE OF SOME RADIOPROTECTORS ON THE PROCESSES CONNECTED WITH LYSOGENIZATION OF THE BACTERIA AND INDUCTION OF INTERCELLULAR W-EXONUCLEASE

The influence of the radio-protector finam on the processes of hysogenization of the bacteria with the λ phage and induction of λ -exonuclease was studied in the course of experiments with E. coll SF-14 (λ = try-S²).

It was shown that this preparation tangually suppresses the frequency of Electificacien and oppressesses synthesis of the induced \(\lambda \)-exonuclease.

The results concerning strivity of this enzyme definitely correlate with the data related to the influence of linear in the lyangenization process of the sema-macterial strain.

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ANISKOV, V. V., LIBEROV, A. B.

"Specialized Analog Computer 'Segraf-1' and Experience in Operating It"

Analogo-vychisl. tekhnika v organizatsii proiz-va i issled. bol'shikh sistem (Analog Computers in the Organization of Production and Investigation of Large Systems), Moscow, 1970, pp 137-145 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 6, Jun 70, Abstract No 6B91)

Translation: The "Segraf-1" specialized analog computer is described. It is designed for operative calculation, analysis, and optimization of PERT charts of small and medium volume containing up to 500-600 operations of which <300 are active (that is, operations the length of which is nonzero). Experimental operation of the computer showed that when solving optimization problems, the "Segraf-1" analog computer has greater advantages than the all-purpose digital computer (for example, the Ural-11 type), since it permits rapid "playback" of the various versions, significantly improving the dynamics and quality of control. There are two illustrations, one table, and a three-entry bibliography.

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UDC 621.397.332.2:621.317.799:531.71

ANISKOVICH, A. G., RUSAKOV, V. I.

"Selecting the Type of Scanning for Television Measuring and Control Devices"

Nekotoryye vopr. teorii i provektir. televizionno-vvchisl. sistem -- V sb. (Some Problems of Theory and Design of Television Computing Systems -- collection of works), Tula, 1970, pp 21-30 (from RZh-Radiotekhnika, No 4, Apr 71, Abstract No 4G187)

Translation: It is demonstrated that the accuracy of TV-instruments for controlling the dimensions of parts can be increased by replacing the ordinarily used line scanning by driven sweep exponential or continuous sinusoidal scanning. There are 6 illustrations and a 4-entry bibliography.

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- 132 -

1/2 016 UNCLASSIFIED PROCESSING DATE--233617
TITLE--EXPERIMENTAL STUDY OF SOME MANIFESTATIONS CONSEQUENT TO BIOLOGICAL ACTION OF THE VITAMIN A -UAUTHOR-(03)-VEORDVA, I.N., ANISOVA, A.A., OSETROVA, S.YA.

COUNTRY OF INFO--USSR

SOURCE--VOPROSY PITANIYA, 1970, NR 3, PP 37-40

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--VITAMIN DEFICIENCY, SKIN PHYSIOLOGY, HISTOLOGY, DIET

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/2052

STEP NO--UR/0244/70/000/003/003//0040

CIRC ACCESSION NU--APO120695

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DUBLET AREAS—STREPTOMYCIN, BIOSYNTHESIS, ACTINOMYCES, HACTERIA MUTATION,

TRANSAMINASE

PROCESSING DATE--230CT7 UNCLASSIFIED 2/2 CIRC ACCESSION NO--AP0120695 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE EFFECT OF DIFFERENT VITAMIN A DOSES ON THE STRUCTURE OF THE EPITHELIAL TISSUE ELEMENTS BY COMPARISON WITH THE DYNAMICS OF THE VITAMIN 1 CONTENT IN THE LIVER AND BLOOD WAS STUDIED IN TESTS SET UP ON YOUNG RATS DIVIDED INTO 4 GROUPS KEPT ON A VITAMIN A DEFICIENT DIET WITH DAILY ADDITION OF VITAMIN A IN AMOUNTS OF 20, 40 AND 80 MUG TO DIFFERENT GROUPS OF ANIMALS. IN THE AUTHORS! INVESTIGATIONS 20 MUG OF VITAM A PROVED TO BE THEMINIMAL DIURNAL DOSAGE ENSURING NORMAL HISTOLOGICAL STRUCTURE OF THE SKIN AND OF THE ORGANS UNDER STUDY. THE DOSE OF 80 MUG WAS FOUND TO PRODUCE CHANGES IN THE STARPROVED FOR RELEASE: :08/109/12001HEI-CIA-RDP86-00513R002200210005-9" HORNIFICATION PROCESSES, WITHOUT BEING ATTENDED BY ANY EXTERNAL SIGNS FACILITY: KLINIKA KOZHNYKH I TYPICAL OF A HYPERVITAMINOSIS. VENERICHESKIKH BOLEZNEY II MOSKOVSKOGO MEDITSINSKOGO INSTITUTA IM. N. I PIROGOVA AND LABORATORIYA PROFILAKTICHESKOGO DEYSTVIYA VITAMINOV N-I INSTITUTA VITAMINOLOGII MINISTERSTVA ZDRAVOOKHRANENIYA SSSR.

019 UNCLASSIFIED PRUCESSING DATE--13MOV70 IRC ACCESSION NO--APO126244 BSTRACT/ CATRACT-- (U) GP-0- ABSTRACT. DATA ARE DISCUSSED CONCERNING THE A-FACTUR CONTENTS IN VARIOUS ACTIMONYCES STREPTONYCIMI STRAIMS. THE PRESENCE OF THE A-FACTOR IN ACTIVE STREPTOMYCINE PRODUCEDS (STUATES 3213 AND G-51 WAS SHOWN AS WELL AS I'V SOME MUTANT STRAINS WITH DISTURBED DIOSYNTHESIS. ALL THE MOTATITS WHICH HAVE FAILED TO SYNTHUSIZE THE A-PACTUR DO THAT PRODUCE ANY STREPTOMYCIME, WHILE ADDITION OF THE A-FACTOR RESTITUTES THEIR ABILITY TO PRODUCE THE AUTIBICITIE. AND CAMARYCINE PRODUCENTS DU NOT FORM ANY A-FACTOR IN THE COURSE OF Nother CINE FERMENTATION AND COMSEQUENTLY THIS SUBSTANCE COES NOT PARTICIPATE OF THE BIOSYNTHESIS OF THE SAID ANTIBIOTICS. IN THE ABSENCE OF THE A-FACTOR THE ICHOTIVE BUTULE 1939 DIES NULL PRODUCE ANY STREETING TO DISPLAYS A LCH TRANSAMIDINAGE ACTIVITY. WHEN GROWN IN THE PRESENCE OF THE AFFACTOR THIS STRAIN HAS A HIGH TRANSAMIDENAGE ACTIVITY AND SYMPHESIZES CONSIDER THE AMEDIALS OF STREPTIONAL AND STREPTIONALINE. THESE GBSERVATIONS SUBJECT THAT THE A-FACTOR PARTICIPATES IN THE FORMATION OF THE STREPTIONNE PART OF THE STREPTOMYCINE MOLICULE. INSTITUTE OF CHATISTAY OF MATHEAU PRODUCTS, ACADEMY OF GOTE 1065, USBR. UNILASSIFIED

USSR

ANISOVICH, V. V., and SHEKHTER, V. M., Physicotechnical Institute imeni A. F. Ioffe, Academy of Sciences USSR

"The Possibility of Meson- eson Scattering Phase Determination in Processes With Regge Pole Exchange"

Moscow, Yadernaya Fizika, Vol 13, No 3, Mar 71, pp 651-658

Abstract: The article considers unstable particle scattering in transitions of two particles to three, determined by the exchange of one or more hegge poles in the t-channel. The authors begin with a consideration of the kinematics of three-particle reactions and then consider the process $K + p \rightarrow K + H + p$ (exchange of vacuum states only) for the case in which there is only the exchange of one Pomeranchuk pole and for the case in which there is also the contribution of cuts. This is followed by consideration of the reaction $H + p \rightarrow H + H + N$ (exchange of

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ANISOVICH, V. V., and SHEKHTER, V. M., Yadernaya Fizika, Vol 13, No 3, Mar 71, pp 651-658

nonvacuum Regge poles) with allowance for the contribution from Regge poles ω , R, and $\mathcal R$, where R denotes the trajectory on which is found the resonance $\mathbf R_2$. The article concludes with a discussion of changes which appear in the study of cuts due to the exchange of an arbitrary number of vacuum Pomeranchuk trajectories in conjunction with Reggeons ω , R, and $\mathcal R$.

The authors thank A. A. ANSELIM, B. A. WELIKSCH, V. N. GRIBOV, I. T. DYATLOV, A. B. KAYDALOV, V. A. KULRYAVTSEV, and YE. M. LEVIN for useful discussions.

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- 80 -

Polymers and Polymerization

USSR

UDC 678.664-408.8701.53

KRYUCHKOV, F. A., ANISTMOVA, A. N., and NOVOKRASHCHENOVA, L. N.

"New Semirigid Foam Polyurethane"

Hoscow, Plasticheskiye Massy, No 4, 1972, pp 24-26

Abstract: A new semirigid foam polyurethane is described which is based on activated ordinary polyester, triethanolamine and polyisocyanate. A study was made of the rigidity of the foam polyurethane as a function of the water content in the compound, the foam factor, the amount of cross-linking agent and the time from obtaining a specimen of foam polyurethane to testing it.

The rigidity of the specimens of semirigid foam polyurethan increases during the first month, and by the end of the second month the rigidity is 1.5-2.5 times greater than that of the initial specimen. Thereafter the rigidity remains constant. With an increase in the foam factor, the rigidity increases noticeably. An increase in the amount of cross-linking agent leads to an increase in rigidity. With an increase in the amount of cross-linking agent the system becomes more active since the triethanolamine is simultaneously a catalyst of the chemical reactions with the participation of the isocyanate groups.

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1/2 025 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--FERROELECTRIC TRANSITION IN AMMONIUM SULFATE. DIELECTRIC, OPTICAL,
AND ELECTROOPTICAL PROPERTIES NEAR THE CURIE POINT -UAUTHOR-(02)-ANISTRATOV, A.T., MARTYNOV, V.G.

CCUNTRY OF INFO-USSR

SOURCE--KRITALLOGRAFIYA 1970, 15(2), 308-12

DATE PUBLISHED ---- 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--FERROELECTRIC EFFECT, PHASE TRANSITION, ELECTROOPTIC EFFECT, DIELECTRIC CONSTANT, CURIE POINT, CRYSTAL DEFORMATION, AMMONIUM SULFATE

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1477

STEP NO--UR/0076/70/015/002/0303/0312

CIRC ACCESSION NO--APOL18466

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UNCLASSIFIED PROCESSING DATE--13NUV70 CIRC ACCESSION NO--APOLIB466
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE ELECTACOPTICAL PROPERTIES WERE STUDIED FOR (NH SUB4) SUB2 SO SUB4. THE DIELEC. CONST. AND BIREFRINGENCE WERE DETD. SIMULTANEOUSLY FOR SAMPLES OUT FROM THE SAME CRYSTALS. THE BEHAVIOR OF THE DIELEC., OPTICAL, AND ELECTROOPTICAL PROPERTIES NEAR THE POINT OF THE PHASE TRANSITIONS ARE INTERPRETED ON THE BASIS OF THE MODEL OF 0. O'REILLY AND I. TSANG (1967). THE ANOMALIES IN THE BIREFRINGENCE AT THE CURIE POINT ARE ATTRIBUTED TO THE SPONTANEOUS DEFORMATION OF THE CRYSTAL. FACILITY: INST. FIZ., KRASNOVARSK, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

Radiobiology

wc 616.72-018.3-001.29-091

USSR

ZEDGENIDZE, G. A., HODYAYEV, V. P., GULYAYEV, V. A., and ARKIRA, M. A., Institute of Medical Radiology, Academy of Sciences USSR

"Structural Changes in Articular Cartilage After Irradiation"

Moscow, Meditsinskaya Radiologiya, No 3, 1972, pp 3-10

Abstract: Electron-microscopic and histochemical study of articular cartilage in rabbits revealed a greater heterogeneity of structure than expected. Of the seven structural zones distinguished (acellular, surface, transitional, isogenous groups, columns, hypertrophic cells, and primary calcification), those of the transitional and isogenous groups proved to be the most sensitive to a single dose (900 rad) of local gamma radiction. Within a day of exposure, cells of different sixes and shapes and empty lacunae appeared in these two zones. Vacuolication or wrinkling of the cytoplasm, irregular distribution of chromatin in the nuclei, and various stages of karyopyknools and karyolysis were characteristic. These changes became increasingly pronounced until day 14 when all the mones were affected. Most of the changes were reversible and signs of restoration(preliferation of cells) began to appear about day 17 in the upper part of the cartilage. The regenerative process was completed by day 30 and the articular cartilage remained unchanged thereafter, but it looked "older" than the tissue of the control animals. 1/1

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UDC 621.318.435.3

ANKHIMYUK, V. L., YAKOVITSKIY, E. F.

"Reversing Magnetic Semiconductor Amplifier"

USSR Author's Certificate No 291311, Filed 2/06/69, Published 22/04/71, (Translated from Referativnyy Zhurnal Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 11, 1971, Abstract No 11 Al28 P).

Translation: Two-cycle magnetic semiconductor amplifiers [MA]with de output are known. Their efficiency is significantly less than that of nonreversing magnetic amplifiers. The purpose of the invention is to increase the efficiency of a reversing magnetic semiconductor amplifier and decrease the power consumed by the controlled transistor. This is achieved by connecting the base-emitter junctions of the controlled transistors to the output windings of a magnetic oscillator and by connecting the bases through stabilitrons to output voltage dividers of the corresponding memory units. The reamplifier with self-saturation, connected through a transistor to the load. The amplifier is controlled by a dc voltage fed to the counter-series connected control windings through a resistor, used to provide a forced magnetization mode. The transistors are controlled by the magnetic oscillator, the output windings of which are connected to the inputs of the transistors.

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UDC 621.318.435.3

ANKHIMTUK, V. L., YAKOVITSKIY, E. F., USSR Author's Certificate No 291311, Filed 2/06/69, Published 22/04/71.

At the output of the magnetic amplifier are high-impedence voltage dividers, the variable resistors of which are connected through stabilitrons to the bases of the transistors. The condensors and diodes are used to remove overvoltages arising across the transistors at the moment of switching due to the inductance of the load and the amplifier. Low-capacitance condensors are used to smooth the voltage across the stabilitrons. The bias windings are used to set a voltage near the minimum voltage across the outputs of both MA when the control voltage $\mathbf{U}_{\mathbf{y}} = \mathbf{0}$. The variable resistors of the voltage

dividers are set in a position such that the breakdown voltage of the stabilitrons is reached at the boundary of the linear sector of the MA control characteristic. The generator commutates the transistor such that the voltage pulses of the two MA reach the load one after the other. When $\mathbf{U}_{\mathbf{v}}=\mathbf{0}$, these

voltages are equal, as the resulting voltage across the load is equal to zero. When $\mathbf{U}_{\mathbf{y}}$ is increased, the output voltage of one MA increases and the amplifier

operates in the area of positive internal feedback. During this time, the other MA enters the area of negative feedback and the minimum voltage appears at its output. The resulting mean voltage across the load increases in 2/3

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UDC 621.318.435.3

ANKHIMYUK, V. L., YAKOVITSKIY, E. F., USSR Author's Certificate No 291311, Filed 2/06/69, Published 22/04/71.

porportion to Uy (the nonlinearities in the lower zone of the control characteristics are mutually compensated). At a certain Uy, the output voltage of the MA reaches the voltage at which the stabilitron breaks down and, with a further increase in Uy, holds the transistor in the open state. Generation is interrupted. The first MA operates with the load, and the second MA is disconnected from the load and operates at the idle with negative feedback. The circuit allows reversing of operation with an efficiency practically equal to the efficiency of a nonreversing MA. The control characteristic passes through zero. The semiconductor valves (transistors) operate in the switchtion in the upper portion of the characteristic (high powers) occurs as in a nonreversing circuit through the saturated transistor, which in this case can transmit many times more power. 4 Figures.

3/3

1/2 023 UNCLASSIFIED PROCESSING DATE--230CT70 TITLE--INDUCED ENZYMES AND IUNIZING RADIATION. I. CHANGE IN THE ACTIVITY OF TRYPTOPHAN PYRROLASE IN RATS AFTER IRRADIATION -U-AUTHOR-(02)-POPOV, P.G., ANKOV, V.K.

COUNTRY OF INFO--USSR

SOURCE-RADIOBIOLOGIYA 1970, 10(1), 32-6

· DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--X RAY RADIATION BIOLOGIC EFFECT, LIVER, ENZYME ACTIVITY, RADIATION DOSAGE

CONTROL MARKING--NO RESTRICTIONS:

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0449

STEP NO--UR/0205/70/010/001/0032/0036

CIRC ACCESSION NO--APOISI123

UNCLASSIFIED

PROCESSING DATE--230CT70 2/2 023 UNCLASSIFIED CIRC ACCESSION NO--APO121123 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. TRYPTOPHAN PYRRULASE ACTIVITY HAS BEEN DETD. IN THE LIVER OF 87 RATS 4, 27, 48, AND 72 HR AFTER WHOLE BODY X IRRADN. WITH DOSES OF 0.9, 1.8, AND 5 KR (180 KV, 15 MA, FILTER 3 MM AL, FOCUS DISTRANCE 50 CM, DOSE RATE 72 R-MIN). PEAKS OF TRYPTOPHAN PYRROLASE ACTIVITY WERE OBSD. 4 AND 72 HR AFTER THE IRRADN. THE ACTIVITY INCREASE OBSD. WAS MAINLY DUE TO AN INCREASE IN THE AMT. OF APOENZYME. THE SYNTHESIS OF NEW APOENZYME 4 HR AFTER IRRADN. WAS NOT DISTURBED BY UP TO 1.8 KR IRRADN.; IT WAS INHIBITED BY APPROX. 10-25PERCENT AT 5 KR IN COMPARISON WITH VALUES OBSD. AT 1.8 KR. NO SUBSTANTIAL CHANGES IN THE ACTIVATING PROPERTIES OF MICROSOMES WERE NOTED. FACILITY: VYSSH. VOENNO-MED. INST., SOFIA, BULG.

UNCLASSIFIED

USSR

ANKUNDINOV, A. L.

"Calculation of a Viscous Hypersonic Shock Layer with Mass Input at Moderately Low Reynolds Numbers"

Moscow, Mekhanika Zhidkosti i Gaza, No 3, 1970, pp 40-45

Abstract: The two-dimensional steady-state problem of a viscous hypersonic stream in the vicinity of nonsteader smooth bodies is intestigated within the framework of Cheng's two-layer model of a thin smock layer for a region that is not restricted to the vicinity of the stagnation point. Attention is given to the conditions of a given wall temperature, a heat-insulated surface, and to conditions of the injection, from the surface, of a gas of the case kind as the gas in the main from. A form of conversion of the regions of the viscous check layer in terms of generalized Mises variables is projosed, which bernits the problem in the semimone to be considered in the same manner for blanted and soarp two-dimensional and axially symmetrical bodies without expansion into a series along the longintudinal coordinate in the vicinity of the critical point, and which discuss the special feature of the solution in a pointed tip. In difference methods, which do not require calculation of the region derivative, the proposed

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USSR

ANKUNDINOV, A. L., Mekhanika Zhidkosti i Gaza, No 3, 1970, pp 40-45

conversion makes it possible to avoid disclosure of the uniqueness on the wall which is characteristic of the problem in terms of the variables under consideration. Some results of calculation of the shock layer on a sphere and on a sharp cone are presented.

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USSR UDC 8.74

ANKUDINOV, G. I.

"An approach to the Problem of Synthesizing the Structure of an Information System"

V sb. <u>Probl. sistemotekhniki. Vyp. 1</u> (Problems of Systems Engineering. Vyp. 1 --collection of works), Sudostroyeniya, 1972, pp 23-26 (from <u>RZh-Kibernetika</u>, No 12, Dec 72, Abstract No 12V446)

Translation: A study was made of one of the possible approaches to the problem of synthesizing information system structures permitting the discovery of a set of structures and the order of preference in this set with respect to the global quality criterion. By the structure of a system we mean the graph the vertices of which correspond to the structural elements taken from a set and the lines which correspond to the relations between the structural elements. By the structural element of an information system we mean a set of physical elements realizing a class accurately or the approximately equivalent algorithm such that each representative of the set of elements corresponds one-to-one to a representative of the class of elements of the equivalent algorithms. In addition, the elements of the set are distinguished with respect to speed, cost, reliability and other parameters.

1/2 033 UNCLASSIFIED TITLE--EXCITATION OF THE L SUBALPHA LINE DURING STRIPPING OF FAST NEGATIVE HYDROGEN IONS IN INERT GASES -U-

AUTHOR-(04)-ORBELI, A.L., ANDREYEV, YE.P., ANKUDINOV, V.A., DUKELSKIY,

COUNTRY OF INFO--USSR

SOURCE--ZHURNAL EKSPERIMENTAL NOY I TEORETICHESKOY FIZIKI, 1970, VOL 58,

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--HYDROGEN, ION, PARTICLE COLLISION, HELIUM, NEON, ARGON, KRYPTON, XENON, EXCITATION CROSS SECTION, ELECTRON ENERGY LEVEL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2245

STEP NO--UR/0056/70/058/006/1938/1942

CIRC ACCESSION NO--AP0125823

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

erstate only state of the section of the control of the section of

2/2 033 UNCLASSIFIED PROCESSING DATE--27MOV70 CIRC ACCESSION NO--AP0125823 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE INTENSITY OF THE LYMAN ALPHA LINE EMITTED IN COLLISIONS BETWEEN FAST HYDROGEN NEGATIVE LONS (5-40 KEV) AND HE, NE, AR, KR AND XE ATOMS IS MEASURED. THE CROSS SECTIONS FOR FORMATION OF HYCROGEN ATOMS IN THE 25 AND SP STATES AND ALSO THE TOTAL CROSS SECTIONS FOR EXCITATION OF THE N EQUALS 2 LEVEL ARE DETERMINED. IN THE ENERGY RANGE INVESTIGATED THE CROSS SECTIONS SIGMA(2P), SIGMA(2S) AND SIGMA(N EQUALS2) ARE OF THE URDER OF 10 PRIME NEGATIVE16 CM PRIME2 AND SIGMA(2P) LARGER THAN SIGMA(2S). IN ALL GASES INVESTIGATED (WITH THE EXCEPTION OF HE) THE CROSS SECTIONS SIGMA(25), SIGMA(2P) AND SIGMA(N EUQALS 2) WEAKLY DEPEND ON THE H NEGATIVE ION ENERGY. FOR XE MINIMA ARE OBSERVED ON THE CROSS SECTION CURVES SIGMA(2S), SIGMA(2P) AND SIGMA(N EQUALS 2) AT ENERGIES BETWEEN 12 AND 30 KEV. A POSSSBLE MECHANISM OF PRODUCTION OF EXCITED HYDROGEN ATOMS IN STRIPPING OF NEGATIVE HYDROGEN IONS AS A RESULT OF REMOVAL OF THE INNER ELECTRON FROM THE H NEGATIVE ION IS DISCUSSED. FIZIKO-TEKHNICHESKIY INSTITUT IM. A. F. LOFFE AN SSSR. FACILITY:

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

USSR

UDC 669.017 : 620.17

SEVERDENKO, V. P., KALACHEV, M. I., and ANKUT, P. P., Physicotechnical Institute, Academy of Sciences Belorussian SSR

"Titanium Flow Curves in Octahedral Coordinates Under Various Strain Conditions"

Minsk, Izvestiya Akademii Nauk BSSR, Seriya Fiziko-Tekhmicheskikh Nauk, No 1, 1973, pp 5-8

Abstract: Flow curves in octahedral coordinates were plotted for commercially pure titanium VTI-1 according to the results of tests described in a previous article by the authors. The straining followed three different stressed state schemes (tension, compression, torsion) in the -196 - 800° C range. An analysis of the curves for variations in octahedral shear stress indicates that the process of titanium plastic flow is largely influenced by such factors as the plastic strain mechanism and structural transformations taking place during strain. The extent to which these factors are manifested depends on the straining conditions and the stressed state scheme. Finely dispersed phases isolated in the slip zones signify that the critical

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SEVERDENKO, V. P., et al., Izvestiya Akademii Nauk BSSR, Seriya Fiziko-Tekhnicheskikh Nauk, No 1, 1973, pp 5-8

shear stress begins to be affected by normal stresses acting along the shear planes. The shape of the strain hardening curves to a certain extent may be influenced by the twinning process.

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1/2 038

UNCLASSIFIED PROCESSING DATE--11SEP70

TITLE--EFFECT OF MAGNETOSTRICTION DEFORMATIONS ON THE EPITAXIAL GROWTH TE
FERROMAGNETIC FILMS -UAUTHOR--PYNKO, V.G., TEMCHENKO, N.SH., ANNATAGANOV, N.

COUNTRY OF INFO--USSR

SOURCE--FIZ. TVFRD. TELA 1970, 12(3), 960

DATE PUBLISHED-----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--EPITAXIAL GROWTH, FERROMAGNETIC FILM, NICKEL ALLOY, PALLADIAM ALLOY, SINGLE CRYSTAL FILM, MAGNETOSTRICTION, IRON ALLOY, CORALL TELOY, MAGNETIC FIELD

CONTROL MARKING--NO PESTOLOTIONS

ODCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0654

STEP NO--UR/0181/70/012/003/09/07/09/07

CIRC ACCESSION NO--APO105633

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

THE REPORT OF THE PARTY OF THE

2/2 038 UNCLASSIFIED. PROCESSING DATE--1185270 CIRC ACCESSION NO--APO105633 ABSTRACT/EXTRACT--(U) GP-0- ARSTRACT. A SEPIES OF FILMS WAS PREPO. OF STYARY ALLOYS OF THE SYSTEM FE-NI-CO. A MAGNETIC FIFLD HAS ALVOST VO EFFECT ON THE GROWTH OF FILMS WHICH HAVE SMALL MAGNETOSTRICTION, E.G. BONI-20FE. ON NACL SUBSTRATES WITHOUT APPLICATION OF A MAGNETIC BIBLO. NO GOOD SINGLE CRYSTAL FILM OF NI-PD CAN BE GROWN COMIS. 19-60PERCENT PO, I.E. ALLOYS HAVING ESP. HIGH MAGNETOSTRICTION. ON ZIF (SIC) AND MO-SUBSTRATES THESE ALLOYS GROW AS SINGLE CRYSTALS. THE MECHANISM HE GROWTH OF THESE FILMS IS DISCUSSED. UMCLASSIFIED

USSR

UDC 612.017.2

MEYERSON, F. Z. and ANNANUROVA, L. A., Institute of Normal and Pathological Physiology, Academy of Medical Sciences USSR

"Effect of Inhibitors and Stimulants of the Synthesis of Mucleic Acids and Proteins on Adaptation to High-Altitude Hypoxia"

Ashkhabad, Izvestiya Akad. Nauk Turkenskoy SSR, No 5, 1972, pp 3-15

Abstract: Experiments on rats confirmed the established fact that at 7000 m above sea level, oxygen consumption decreases markedly (by 30%) in unadapted animals. Injection of adapted animals with actinomycin 270%, an inhibitor of RNA synthesis, produced a decrease in oxygen consumption of the same magnitude as in unadapted animals. This decrease is ascribed to impaired biosynthesis in the mitochondria and lessened capacity of these organelles to utilize oxygen. Injection of rats adapted to high-altitude hypoxia with an anabolic hormonal preparation (nerobole) or with a combination of cofactors of nucleic acid synthesis (oratic acid, folic acid, and vitamin B₁₂) markedly reduced the amount of weight normally lost in hypoxia. In addition, the combination of agents increased the hemoglobin concentration and number of red blood cells while reducing the degree of reticulocytosis. Thus, the use of inhibitors and stimulants of nucleic acid synthesis can promote adaptation to highaltitude hypoxia.

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USSR

TDG 577.4

MEYERSON, F. Z., MALKIN, V. B., ANKAMUROVA, L. A., LOGHNOVA, YD. V., and MAYZELIS, M. YA., Institute of Normal and Pathological Physiology, Academy of Medical Sciences USSR

"Effect of RMA Synthesis Inhibitor on the Development of Adaptation to High-Altitude Hypoxia"

Moscow, Izvestiya Akademii Nauk SSSSR, Seriya Biologicheckaya, No 3, Eay/Jun 72, pp 405-412

Abstract: The importance of increased nucleic acid and protein production in adaptation to high-altitude hypoxia was evaluated by administrating actinonycin 2703 --- an RGA synthesis inhibitor --- to rats raised in 500 meter increments to 7,000 meters over a 25-day pariod in an altitude chamber (6 hrs/day exposure). Experiment variations included rats unadapted to hypoxia (control) (1), adapted over 25 days (2), unadapted and given actinonycin for 5 days (3), and adapted over 25 days and given actinonycin from the 20-25th days (4). Weight gain rate decreased in group 2 as congared to controls, weight decreased 7% in group 3, while weight decreased 16% in group 4 and 63% of the animals died during acute hypoxia generated by raising them to 11,000 meters at 60-100 meters/sec. Protein synthesis in the

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USSR

NEYERSON, F. Z., et al., Isvestiya Akdemii Nauk SSSH, Seriya biologicheskaya, No 3, Hay/Jun 72, pp 405-412

heart and cerebral cortex increased in group 2, remained normal in group 3, but decreased in group 4, indicating that actinomycin is inhibitory only during adaptation to hypoxia. While 0 consumption decreased 30% in group 1 at 7,000 neters, by the 25th day of adaptation the decrease distributed to 10% in group 2. Actinomycin produced no significant changes in group 3 as compared to controls. In group 4 however, actinomycan caused θ_2 consumption to decrease 20 25%. Moreover the consumption decreased 22% at Sea level for this group, indicating that something other than the θ_0 transport system had been affected, since θ_0 is readily available and there is no stress on the transport system. This idea is further supported by the fact that while the breathing rate decreased over the adaptation period, actinonyoin caused it to rise again. For did the drug cause abnormal energies in cryinrocyte and hemoglobin counts. Finally, animals given actinomycin and exposed to acute hypoxia died not during exposure but on the following day in an abundance of 02. Thus it is suggested that actinonycle attructs on williention -- 1.e., mitochondrial function, rather that 0, transport. In increment protein and nucleic acid production detected is a necessary part of composition to hypexia, and it is inhibited by surpression of mitechoranial activity. 2/2

USSR

UDC: 537.5:621.315.592

ANNAYEV, R. G., MEL'NIKOVA, L. L., Turkmen State University imeni A. M. Gor'kiy

"On Conversion of n-GuSb Under Electron Bombardment"

Ashkhabad, Izvestiya Akademii Nauk Turkmenskoy SSR: Seriya Fiziko-Tekhnicheskikh, Khimicheskikh i Geologicheskikh Nauk, No 2, 1972, pp 103-104

Abstract: The authors investigate the electrophysical properties of m-gallium antimonide irradiated with fast electrons. The specimens were doped with tellurium to an electron concentration of (1-8)·10¹⁷ per cc. The Hall coefficient was measured at 77-300°K with increasing doses of fast electrons with an energy of about 5.75 MeV. The Hall mobility was determined as the product of the Hall coefficient and conductivity. The results are tabulated for electron doses up to 1.4·16¹⁷ electrons per sq. cm. It was found that the Hall coefficient increases and the mobility decreases with exposure to fast electron. Exposure to the highest dose results in an anomalously real Hall

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ANNAYEV, R. G., MEL'NIKOVA, L. L., IAN TurkmSSR: Ser. Fiz.-Tekh., Khim. i Geol. Nauk, No 2, 1972, pp 103-104

coefficient, low Hall mobility, and a reversal in the sign of the Hall emf. This conversion of conductivity from p-type to p-type is possibly due to the fact that many more acceptors than donors are formed under electron bombardment. The reduction in mobility may be due to an increase in the concentration of defects and to the lower phonon mobility because of the larger effective mass of holes as compared with electrons. The authors thank E. P. Gofman for furnishing the specimens. One table, bibliography of two titles.

2/2

USSR

UDC 539.292

ANNAYEV, R. G., KORSHIK, Yu. G., LAKGUYEV, D. Kh.

"Variation With Temperature of the Electrical Resistance of Cobalt-Vanadium Alloys in a Longitudinal Magnetic Field"

Izvestiya Akademii Nauk Turkmenskoy SSR, Seriya Fiziko-Tekhnicheskaya, Khimicheskaya i Geologicheskaya, No 1, 1970, pp 105-109

Abstract: The article deals with an investigation of the variation with temperature of the longitudinal galvanometric effect in ferromagnetic binary alloys of cobalt with vanadium, on the basis of polycrystalline specimens.

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1/2 022 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--MAGNETO RESISTANCE IN THIN FILMS OF NICKEL PALLADIUM ALLOY SYSTEMS
-UAUTHOR-(04)-ANNAYEY, R.G., ROZYEY, M.A., MYALIKGULYEY, G., YAZLIYEY, S.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK TURKH. SSR, SER. FIZ. TEKH., KHIM. GEOL. NAUK 1970, (1), 101-5
DATE PUBLISHED-----70

SUBJECT AREAS--MATERIALS, PHYSICS

TOPIC TAGS--NICKEL ALLOY, PALLADIUM ALLOY, METAL FILM, MAGNETORESISTANCE, MAGNETIZATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/0184

STEP NO--UR/0202/70/000/001/0101/0105

CIRC ACCESSION NO--APO054980

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

2/2 022 UNCLASSIFIED PROCESSING DATE--18SEP70 CIPC ACCESSION NO--APO054980
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE LONGITANCE WAS MEASURED IN THIN NI-PD FILMS OVER A WIDE RANGE OF THICKNESS AND COMPN. TO COMPIRM THE 1 PHASE NATURE OF THE FILMS. FILMS 600-1200 ANGSTROMS THICK CONTO. 0-80 AT. PERCENT PD WERE PREPO. BY THE METHODS DESCRIBED EARLIER (1968). A STRONG EFFECT OF THE TRUE MAGNETIZATION WAS OBSD. FOR ALL OF THE FILMS EVEN AT ROOM TEMP. THE FILMS CONTG. SMALLER THAN OR EQUAL TO 40 AT. PERCENT PD ARE SINGLE PHASE.

UNCLASSIFIED

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Soviet Inventions Illustrated, Section I Chemical, Derwent,

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237302 COPYING ELECTRO-EROSION MACHINE can copy the profile of template 10 on a reduced scale on workpiece 21. The copying slide is linked through a cylindrical guide to ball 18 at the end of bar 17 with a similar guide ball 20 in the top plate at its other end. Sall 19 near the upper end of the bar is guided in the working slide which carries erosion head 15.

8.1.68. as 1209577/25-28. E.A.ANNENBERG.
S.V.ZHITOMIRSKII Cutting-Machine Tools Res. Inst. (24.6.69.) Bul.8/12.2.69. Class 21h. Int. Cl.823k.

AUTHORS:

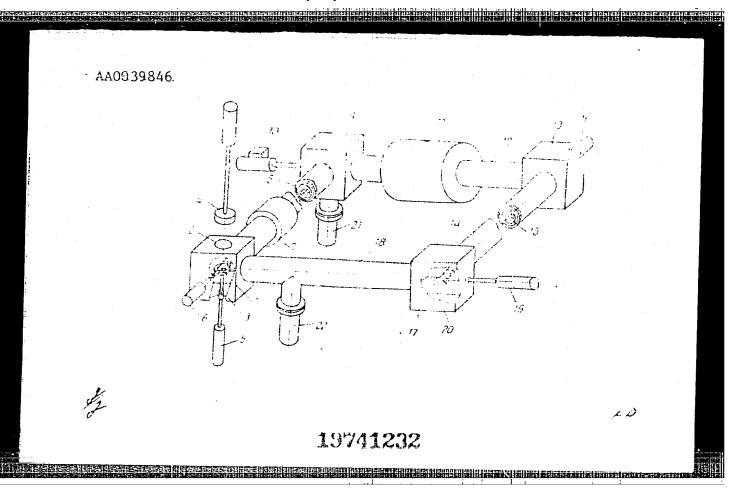
Annenberg, E. A.; and Zhitomirskiy, S. V.

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<u>Eksperimental'nyy Nauchno - Issledovatel'skiy Institut</u> <u>Metallorezhushchikh Stankov</u>

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

USSR

UDC [537.006+537.322.33]:[537+538]

ARTENKOV, YU. M., and GRISHUKOV, V. A.

"Electrical Properties of Crystals of Solid Solutions of Alkali-Rallide Compounds of KCl-KBr System"

Inv. Tonsk. politekhn. in-ta (News of Tomak Folyrechnic Institute), 19/1, 180, pp 164-100 (from Kh-Fimika, No 1, Jan 72, Abstract No 1981326 by F. V. METKLYAR)

Translation: Electrical conductivity O' and dielectric lens (i.g. S) were determined using ECL-RFr simple crystals with a varying ratio of equipments. C' declines with an increase of KBr concentration. The introduction of KBI correct a sharp drop in C', especially in KCL even with a low KBr concentration. For OHT-doped crystals, an increase of KBr concentration in ECL even common an increase in C'. The dependence of C' on the salt of position is determined of the presence of an admixture of rivalent cations, that democrate then of thicker is greater in ECL than in EGr. The OHT increase in ECL. The expression of this also caused a decline in C', which is not narrow in ECL. The expression of the crystals is a linear to the action of C'.

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1/2 016 UNCLASSIFIED PROCESSING DATE--11SEP79
TITLE--DETERMINATION OF THE CONSTANTS OF A BROMUACROLEIN COPOLIMERIZATION
WITH VINYLBUTYL ETHER AND ACROLEIN -UAUTHOR--SHOSTAKOVSKIY, M.F., ANNENKOVA, V.A., UGRYUMOVA, G.S.

COUNTRY OF INFO--USSR

SOURCE--IZVESTIYA SIBIRSKOGO OTDELENIYA AKADEMII NAUK SSSR, NO 2, SERIYA KHIMICHESKIKH NAUK, 1970, NR 1, PP 166-168
DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--COPOLYMERIZATION, BROMINATED ORGANIC COMPOUND, ALDERYDE, ETHER, REDOX REACTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/1764

STEP NO--UR/0289/70/000/0007/0156/0169

CIRC ACCESSION NO--APOIO0344

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2/2 016 UNCLASSIFIED PROCESSING DATE--11SEP70
CIRC ACCESSION ND--APO100344
ABSTRACT/EXTRACT--(UI GP-O- ABSTRACT. COPPOLYMERIZATION OF A
BROMOACROLEIN IN THE REDUCTION OXIDATION SYSTEM AG NO SUB3 ... K SUB2 S
SUB2 O SUB8 WITH VINYLBUTYL ETHER AND ACROLEIN WAS INVESTIGATED AND THE
CONSTANTS OF COPPOLYMERIZATION DETERMINED.

UNCLASSIFIED

USSR

UDC 541.64:542.954

ANNENKOVA, V. Z., ANTONIK, L. M., and ANNENKOVA, V. M., Irkutsk Inztitute of Organic Chemistry, Siberian Affiliate of the Academy of Sciences USSR, Irkutsk

"Phosphorylation of Polyacroleins"

Moscow, Vysokomolekulyarnyye Soyedineniya, Vol 15, (A), No 9, Sep 73, pp 2104-2105

Abstract: Samples of two polyacroleins (one with up to 25% of -C-C-groups and 75% of aldehyde groups and another with up to 60% of aldehyde groups and 26% of -C-C-groups) were reacted with PCl₂ on being suspended in glacial acetic acid, whereupon the intermediate compound was hydrolyzed with a minimum amount of H₂O. With an increasing reaction time in the 3-10 hrs range, the content of P in the products increased. Potentiometric titration showed that the phosphorylated polymers were rather strong monefunctional acids with acid numbers of 2,4-3,8 mg-equiv/g that corresponded to the P content of the polymers if the calculation was carried out for a monofunctional acid. Evidently cross-linking over P-OH groups with the formation of P-O-P groups took place. With an increasing length of the reaction time, the number of -C(-O)H groups decreased and cross-linking over the double bonds of -C-C- groups took place to an increasing extent.

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1/2 007 UNCLASSIFIED

PROCESSING DATE--04DEC70

TITLE--1,2,DIHALOACROLEINS -U-

AUTHOR-(02)-ANNENKOVA, V.Z., UGRYUMOVA, G.S.

COUNTRY OF INFO--USSR

SOURCE--U.S.S.R. 264,391
REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI, 1970
DATE PUBLISHED--O3MAR70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ACROLEIN, HALOGENATED ORGANIC COMPOUND, CHEMICAL PATENT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0857

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

CIRC ACCESSION NO--AA0136291

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2/2 007 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--AA0136291
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. 1,2,DIHALDACROLEINS PREPD. BY HALDGENATING 2,HALDACROLEIN AND TREATING THE PRODUCT WITH ET SUB2 NH AT MINUS 20 TO PLUS 5DEGREES. FACILITY: IRKUTSKIY INSTITUT ORGANICHESKOY KHIMII SIBIRSKOGO OTDELENIYA AN SSSR.

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UNCLASSIFIED

USSR

UDC 541.64:542.954

ANNENKOVA, V. Z., ANTONIK, L. M., and ANNENKOVA, V. M., Irkutsk Inztitute of Organic Chemistry, Siberian Affiliate of the Academy of Sciences USSR, Irkutsk

"Phosphorylation of Polyacroleins"

Moscow, Vysokomolekulyarnyye Soyedineniya, Vol 15, (A), No 9, Sep 73, pp 2104-2105

Abstract: Samples of two polyacroleins (one with up to 25% of -C=C-groups and 75% of aldehyde groups and another with up to 60% of aldehyde groups and 26% of -C=C-groups) were reacted with PCl₃ on being suspended in glacial acetic acid, whereupon the intermediate compound was hydrolyzed with a minimum amount of H₂O. With an increasing reaction time in the 3-10 hrs range, the content of P in the products increased. Potentiometric titration showed that the phosphorylated polymers were rather strong monofunctional acids with acid numbers of 2,4-3,8 mg-equiv/g that corresponded to the P content of the polymers if the calculation was carried out for a monofunctional acid. Evidently cross-linking over P-OH groups with the formation of P-O-P groups took place. With an increasing length of the reaction time, the number of -C(-O)H groups decreased and cross-linking over the double bonds of -C-C- groups took place to an increasing extent.

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USSR



UDC 632.95

KOHDRIKOV, B. H., ALMIKOV, V. E., KOZAK, G. D. and EUSHKHI, V. F.

"Several Ways of Reducing the Flammability of Ammonium Mitrate Emphasives"

V sb. Nauchno-tekhn. konferentsiya. Mosk. khim.-tekhnol. in-t im. D. I. Mendeleyeva. Tesisy dokl. (Scientific-Technical Conference, Moscow Institute of Chemical Technology imeni D. I. Mendeleyev, Abstracts of Reports -- collection of works), Moscow, 1969, pp 113-114 (from RZh-Khirdya, No 1(II), 16 Jan 70, Abstract No 1 N351)

Translation: It is shown that in the presence of coal particles, we have of reacting flattability by means of Li and Ha fluorides, cyanuric acid, and actualize as additives in explosives prove to be less effective; only smalates and discussion phosphates withstand the catalytic effect of coal. A mixture of LiF and Car or LiF and MagAlF6 is the best safety explosive additive. The flattability of explosives rises with greater additive particle size. It is also possible to considerably reduce the flattability of explosives containing hexagen and nitroglycerin by the addition of diamonium phosphate and LiF.

A. K. Shkol'nikov

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1/2 046 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--SEVERAL WAYS OF REDUCING THE FLAMMABILITY OF AMMONIUM NITRATE
EXPLOSIVES -UAUTHOR-(04)-KONDRIKOV, B.N., ANNIKOV, V.E., KOZAK, G.D., LUSHKIN, V.P.

CCUNTRY OF INFO--USSR

SCURCE--V SB. NAUCHNO-TERHR. KUNFERENTSIYA. MOSK. KHIM.-TERHNOL. IN-T IM. REFERENCE--RZH-KHIMIYA, NO 1(11), 10 JAN 70, ABSTRACT NO 1 N351NCE, MOSCOW DATE PUBLISHED-----70

SUBJECT AREAS--ORDNANCE, PROPULSION AND FUELS, CHEMISTRY

TOPIC TAGS--AMMONIUM NITRATE, EXPLOSIVE, COAL, LITHIUM, SODIUM COMPOUND, AMINE DERIVATIVE, HEXOGEN, PHOSPHATE, CALCIUM FLUORIDE, LITHIUM FLUORIDE, ALUMINUM FLUORIDE, NITROGLYCERIN, FLAMMABILITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0019

STEP NO--UK/0000/69/000/000/0113/0114

CIRC ACCESSION NU--AR0129319

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2/2 046

UNCLASSIFIED PROCESSING DATE--13NOV70

CIRC ACCESSION NU--AROL29319

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IT IS SHOWN THAT IN THE PRESENCE
OF COAL PARTICLES, METHODS OF REDUCING FLAMMABILITY BY MEANS OF LI AND
NA FLUORIDES, CYANUKIC ACID, AND MELANINE AS ADOITIVES IN EXPLOSIVES
PROVE TO BE LESS EFFECTIVE; ONLY OXALATES AND DIAMMORIUM PHOSPHATES
WITHSTAND THE CATALYTIC EFFECT OF COAL. A MIXTURE OF LIF AND CAF SUB2
OR LIF AND NA SUB3 ALF SUB6 IS THE BEST SAFETY EXPLOSIVE ADULTIVE. THE
FLAMMABILITY OF EXPLOSIVES RISES WITH GREATER ADDITIVE PARTICLE SIZE.
IT IS ALSO POSSIBLE TO CONSIDERABLY REDUCE THE FLAMMABILITY OF
EXPLOSIVES CONTAINING HEXOGEN AND NITROGLYCERIN BY THE ADDITION OF
DIAMMORIUM PHOSPHATE AND LIF.

USSR

UDC 615.616.24-003.656.6

ANNUS, KH. I.

"Experimental Study of the Combined Effect of Shale Dust and Certain Accompanying Production Factors in the Development of Morphologic Alterations in the Regional Lymph Nodes of the Lungs of Rats"

Sb. dokl. 2-to Resp. sbezda epidemiologov, mikrobiologov, infektsionistov i gigiyenistov (Collection of Reports from the Second Republic Congress of Epidemiologists, Microbiologists, Specialists in Infectious Diseases and Hygienists), Tallin, 1972, pp 339-341 (from RZh--Farmakologiya, Khimioterapevticheskiye Sredstva, Toksikologiya, No 3, Mar 73, Abstract No 3.54.891)

Translation: A rat was subjected to the inhalation effect of the dust from hot shale in a concentration of $20.3-29.75~\text{mg/m}^3$; along with the dust treatment, part of the animals were subject to cooling and the effect of CO in a concentration of $6.25-12.5~\text{mg/m}^3$ and MO₂ (1-5 mg/m 3). The tracheobronchial lymph nodes were investigated after 6 and 12 months of inhalation. The histologic study and planimetric measurements demonstrated that part of the inhaled 1/2

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ANNUS, KH. I., Sb. dokl. 2-go Resp. sbezda epidemiologov, midro-biologov, infektsionistov i gigiyenistov, 1972, pp 339-341

shale dust moves out of the lungs into the tracheobronchial lymph nodes and even in small doses causes proliferative alterations in the form of dust granules. The gases and cooling had no effect on the development of the alterations in the tracheobronchial lymph nodes. USSR, Tallin, Institute of Experimental and Chemical Medicine of the Estonian SSR Ministry of Public Health.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

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1/2 022 UNCLASSIFIED PROCESSING DATE--230CF79
TITLE--ON REPRESENTATION OF PHASE INFORMATION IN PROBLEMS OF VISUAL
ANALYSIS AND ON RECOGNITION OF COMPLEX ACOUSTIC SIGNALS RY OPERATOR -UAUTHUR-(02)-ANDKHIN, A.M., GRISHIN, V.G.

COUNTRY OF INFO--USSR

SOURCE--AVTOMATIKA I TELEMEKHANIKA, 1970, NR 3, PP 177-182

DATE PUBLISHED ---- 70

SUBJECT AREAS -- PHYSICS, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ACOUSTIC SIGNAL, SIGNAL ANALYSIS, SPEECH SIGNAL, SPECTRUM ANALYZER, PHASE ANALYSIS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1456

STEP NO--UR/0103/70/000/003/01/7/0182

CIRC ACCUSSION NO- APO106212

UME EASSTEELD

2/2 022 UNCLASSIFIED PROCESSING DATE+-23GCT70 CIRC ACCESSION NO--APOLO6212 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THERE IS DESCRIBED A DEVICE FOR A THREE DIMENSIONAL (BRIGHT) REPRESENTATION OF THE RELIFF OF THE DERIVATIVE OF THE PHASE INSTANTANEOUS SIGNAL SPECTRUM. THE PERSPECTIVENESS OF THE APPLICATION OF SUCH DEVICES TO THE PROBLEMS OF THE ANALYSIS AND THE CLASSIFICATION OF COMPLEX ACOUSTIC SIGNALS (SPEECH, PHONOCARDIOGRAMS, ETC.) IS SHOWN.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210005-9"

USSR UDC: 621.373:530.145.6

ANOKHIN, A. V., MARKOVA, G. V., PETRASH, G. G.

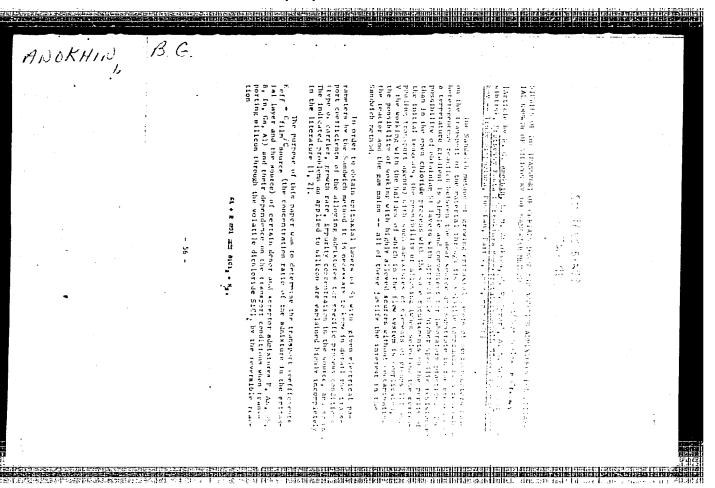
"Pulse Emission on Vibrational Transitions of CO During Cooling of the Gas"

Kratk. soobshch. po fiz. (Brief Reports on Physics), 1970, No 8, pp 15-21 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12D21)

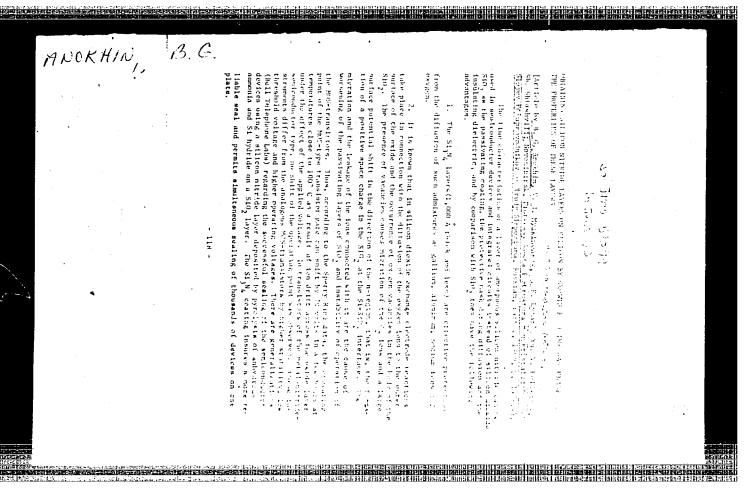
Translation: To study emission on vibrational transitions in CO in the pulse mode, the was was cooled by using cold nitrogen. Fulse emission was studied in a CO discharge and CO-He, CO-N₂ and CO-N₂-He mixtures. Emission on a Co-He mixture was studied in greatest detail. Emission in the CO discharge had considerably less power and a completely specific nature as compared with emission in the mixtures. It is shown that the presence of He considerably improves emission on CO transitions. The most characteristic feature of emission on CO-He is the abrupt increase in emission power in the afterglow. It is assumed that the formation of an inversion on CO transitions can be explained by a relaxation mechanism with respect to the vibrational levels of an anharmonic oscillator. A. K.

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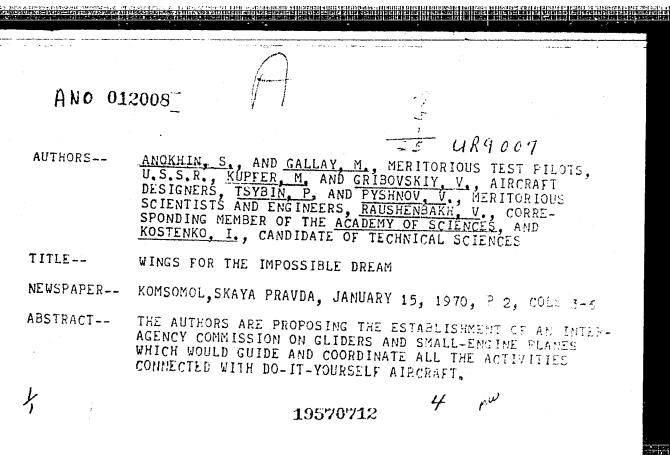
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UDC 621.762

USSR

OGNEV, R. K., TER-POUCCYAN, F. D., KOLOMOYETS, G. G. PEREVYAZHO, A. I., ESTRAKH, L. M., and ANONHELL V. M.

"Powder Metallurgy Filters Made of Titanium Scraps"

Moscow, Matallurgiya i Mhimiya Titana (Institut Titana), Matallurgiya Publishing Nome, Vol 6, 1970, pp 97-99

Translation: The effect of the technological parameters of minufacture and properties of the initial titudism payder on filter productivity are studied. It is discovered that it is empedient to compact filters at pressures up to two tons/cm² and to minter them at temperatures not exceeding 1,100°C. Filter productivity is determined during illustration of liquids, and the dependence of productivity on a lips in pressure to one atmosphere and on the size and shape of grains of the initial powder is established. It is the size and shape of grains of the initial powder is established. It is determined that the water correctly canacity of filters manufactured from determined that the water correctly them similar that made of electrolytic hydride powder is 3-5 times greater than similar that made of electrolytic powder. Two illustrations and two bibliographic contricts.

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USSR UDC 621.762

OCNEY, R. K., KOLOMOYETS, C. G., TER-POGOSYAN, E. D., ESTRAVH. L. M., ANOKHIN. V. M., and PEREVYACKO, A. I.

"The Effect of Technological Parameters on the Qualities of Construction Articles Obtained by the Method of Compacting Titanium Powders"

Moscow, Metallurgiya i Khimiya Titana (Institut Titana), Metallurgiya Publishing House, Vol 6, 1970, pp 94-97

Translation: The effect of the features of initial powders and the technological parameters in manufacturing construction articles on their mechanical properties is considered. When identical compacting pressures, the density of articles made of electrolytic powder is greater by 4-7% then for similar articles made of hydride powder, and this gap decreases during the process of heat treatment. Increasing the sintering temperature of the powder metallurgy titanium leads to an increase in tensile strength and elongation per unit length. Where heat treatment is at a temperature of 1,300°C, the tensile attention in equal to 55-65 giaccalories/mm2 and the elongation per unit length reaches 11%. The illustrations, one table, and three bibliographic entries.

63

USSR UDC 621.762

FEDORCHENKO, I. M., OGNEV, R. K., KOLOMOYETS, G. G., ANOKHIM, V. M., REYTSES, V. B., KAZANTSEVA, N. A., and RUTBERG, V. P.

"The Effect of Aluminum and Molybdenum on the Properties of Sintered Titanium at Room and Elevated Temperatures"

Moscow, Metallurgiya i Khimiya Titana (Institut Titana), Metallurgiya Publishing House, Vol 6, 1970, pp 111-116

Translation: Results are given from research on the machanical properties of the alloys titanium-aluminum, titanium-molybdenum, and triple alloys titanium-aluminum-molybdenum at room temperature and at temperatures raised to 300°C. The alloys were obtained by mechanical blending of powders. After compacting and sintering one time, the alloys studied had a tensile strength up to 80 gigacalories/mm² and elongation per unit length of 5-16%. Alloying aluminum and molybdenum increases the heat resistance of sintered titanium alloys; the short-term strength at 300°C increases by more than two times. The stress-rupture strength increases significantly during alloying. Four illustrations, one table, and four bibliographic entries.

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USSR

UDC 621.762.01:669.295

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OGNEV, R. K., KOLOMOYETS, G. G., TER-POGOSYAN, E. D., ESTRAKH, L. M., ANOKHIN, V. M., and PEREVYAZKO, A. I.

"Influence of Technological Parameters on Properties of Structural Products Produced by Pressing Titanium Powders"

Sb. tr. Vses. n.-i. i proyektn. in-t titana [Collected Works of All-Union Scientific-Research and Planning Institute for Titanium], 6, 1970, pp. 94-97 (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No.1 G453 by the authors).

Translation: The authors studied the influence of the properties of the initial powders and technological parameters in the manufacture of structural products on their mechanical properties. With identical pressing pressures, the density of products of electrolytic powders is higher than that of similar products of hydride powders by 4-7%, although this difference is reduced during heat treatment. Increasing the sintering temperature of metal ceramic Ti causes an increase in $\sigma_{\rm b}$ and δ . With a heat treatment temperature of 1300°, $\sigma_{\rm b}$ is 55-65 kg/mm², δ reaches

11%. 2 figures; 1 table.

1/1

UDC 621.762:660-496.295

USSR

OGNEV, R. K., TER-POGOSYAN, E. D., KOLOMOYETS, G. G., PEREVYAZKO, A. I., ESTRAKH, L. M. and ANOKHIN, V. M.

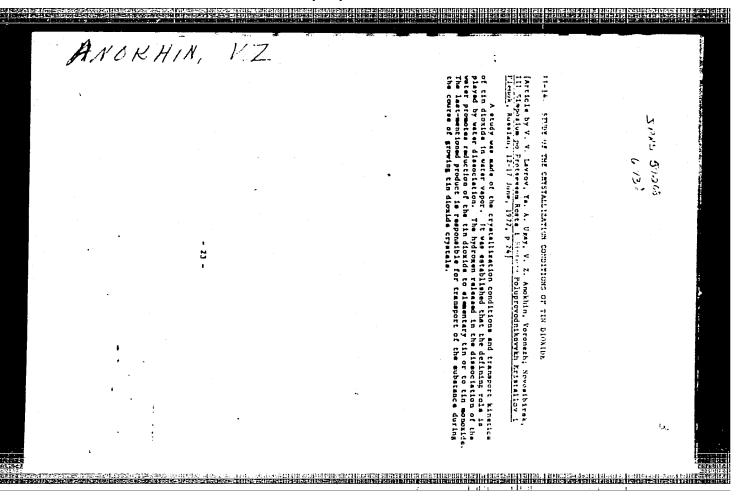
"Metal Ceramic Filters of Titanium Wastes"

Sb. tr. Vses. n.-i. i proyektn. in-t titana [Collected works of All-Union Scientific-Research and Planning Institute for Titanium], 6, 1970, pp. 97-99, (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No.1 G475 by the authors).

Translation: The influence of technological parameters of the manufacture and properties of initial Ti powder on productivity of filters is studied. Pressing of filters should be performed at pressures up to 2 t/cm², sintering at temperatures of less than 1100°. The productivity of filters is determined for filtration of fluids. The dependence of productivity on pressure drop of up to 1 atmosphere and on size and shape of initial powder particles is determined. The throughput capacity for water of filters made of hydride powder is three times higher than the throughput capacity for filters made of electrolytic powder. 2 figures.

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UDC 546.814-31:548.55

UGAY, YA. A., LAVROV, V. V., ANOKHIN, V. Z., and AVERBAKH, YE. M., Voronezh State University, Voronezh, Ministry of Higher and Secondary Specialized Education, PEFSR "Growth of SnO₂ Single Grystals"

Moscow, Izvestiya akademii Nauk SSSR -- Neorganicheskiye Materialy, Vol 6, No 4, Apr 70, pp 750-752

Abstract: A method is suggested for the growth of SnO_2 crystals which is more convenient than known methods for the growth of SnO_2 crystals from the gas phase. The transporting agent is water in the vapor state, continuously fed to the "evaporation" some. A cylindrical specimen of pressed and annealed stannic oxide (diameter 22 mm) is placed in a nigh-temperature zone (t = 1570°C) created by cartorundum heaters inside a nigh-alumina ceramic tube (diameter 22 mm). A stream of water vapor from a quartz boiler is continuously fed into the furnace. The rate of water vapor feed into the SnG_2 evaporation zone does not exceed 4 mol/hr. Intensive growth of SnO_2 crystals is ob-

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UGAY, YA. A., et al., Izvestiya Akademii Nauk SSSR -- Necreanicheskiye Materialy, Vol o, No 4, Apr 70, pp 750-752

served in the furnace zone with a temperature $\sim 1450 - 1520^{\circ}$ C. The color and faceting of the freely growing crystals vary greatly according to the temperature of the crystallization zone. The article considers the growth mechanism and the attendant chemical interactions.

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UDC 669.141.241.2:621.746.5

BURDONOV, B. A., ANOKHINA, A. I., RYZHKOV, V. P., VAL'TER, V. A., and BRONFENMAKHER, A. M., Kazakh Metallurgical Plant

"The Quality of Small Ingots of Killed Steel"

Moscow, Metallurg, No 12, Dec 70, pp 17-19

Abstract: The optimum consumption of aluminum (300-400 g/ton) for the deoxidation of St.3 and St.6 steels poured to small ingots was determined. With an aluminum consumption of 300-400 g/ton and a pouring rate of 0.4 m/min or less, cracks do not generate and hairline cracks are not observed on the final rolled metal. An increase in the number of deoxidizers in the foundry ladle results in a greater concentration of oxide impurities. A linear dependence was established between the depth of the shrink hole and the bailing period. The possibility of using calcium carbide for desulfurization of steel in the ladle is demonstrated.

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Conferences

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LAZINTSEV, D. N., and ANORHINA, G. S.

"IV Plenum of VMMO $\sqrt{\rm All}$ -Union Chemical Association 7 in mi 7. 1. Mondeleyev"

Moscow, Zhurnal Msesoyuznogo Khimichesko o Obshekestva ka al J. I. Mendeleyev, Vol. 15, No. 3, 1970, pp. 337-342

Abstract: The IV Plenum of the All-Union Chemical association (AUCA) was held on the 29 Jan 70 in Moscow. The adonda covered the subjects of "Direction of the scientific-technical coverage to the special, petrochemical, and structural materials in installs in 1971-1975", "Fulfillment of the commitments held by a Th. It homes of the 100 Anniversary of the birth of V. I. i. bir", and the approval of the workplan and budget for 1970. The production, S. I. VOL'FROVICH opened the session, noting the progress of the bast years. Assistant Minister for Chemical Injustry in the USB . I. V. UVAROV, talked about the future S year plan and massifications for scientific and technical progress, stressing the inprovements and intensification of technological processes. As discussed the aspects of agricultural chemistry and production. The chemicals, stressed the impostance of polyment, as a contraction of the chemicals, stressed the impostance of polyment.

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LAZINTSEV, D. N., and ANORHELL, G. S., Zhurnal Vsese/uteo o Khimicheskogo Obshchestva imeni D. I. Mendeleyev, Vol 15, No 3, 1970, pp 337-342

a short disuession of low tonnage production -- now the parts. their parity, analytical methods surface active appears, to.

A. P. SAVEL'YEV discussed the directions for scientificatechnical progress in petroleum processing and the petrochemical industry. The USSR is second worldwide as far as the processing of petroleum is concerned and its rate of development is greater than that of the USA. New plants have been constructed and many new processes developed. Considerable success has been achieved in synthetic rubber; the tire industry, however, needs pasic modifications.

Construction materials were covered by the director of technical administration of the Ministry of Industrial Structural Materials USSN, V. I. DOBUZHINSKIY. Presently about 500 types of construction materials are being produced. He discussed the cement, glass, wall materials and ceramics industry, noting current trends in them.

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LAMINTSTW, D. N., and AMOMHINA, G. S., Zharnal Vsearyusae v Whimicheskogo Obshchestva imeni D. I. Mendeleyev, Vol 15, No 3, 1970. pp 337-342

S. I. VOL'FKOVICH and D. P. NOVIKOV pointed out the need for correct labor organization in the plants. B. 1. STEPANOV noted that preparation of engineers lags behind the needs foreseen for the near future. G. M. STRONGIN, S. V. ZUBAREV, A. F. LOZIKIN and YU. M. BUTT discussed improvement in economic effectiveness as related to scientific organizations, transportation, rapid application of new inventions, etc.

In regard to the second portion -- the fulfills out of commitments -- the representatives of the Moscow, Ekrainian, Georgian, Ryazan', Kalinin, Bashkir, and Altai AUCA noted that progress is satisifactory; the technology of direct production of phosphoric acid was developed on schedule, new compositions were developed for various lubricants, and individual goals set by various groups were achieved. Nevertheless it was noted that in some cases serious defficiencies exist. V. P. ROMA COV talked about future plans and the budget. The budget for 1970 was set at 882.1 thousands rubles. D. N. LAZINTSEV was elected as the president of the Central Bureau of AUCA.

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APO034	Abstracting Service: CHEMICAL ABST. 4-76	Tef. Code:	
	71210x Extraction of molybdenum(VI) ar from inorganic acid solutions by tertiary amines O : Astroskava, N. A.: Petrashen, V. I. K. afe. Novocherkassk. Politekn. Inst., Novocherkassk. Politekn. Inst., Novocherkassk. Weorg, Khim. 1970, 15(1), 155-60 (Russ). Mowere extd. by PhMe solns, of dioctylmethylamin amine (II) from HCl, HNO ₁ , or H ₂ SO ₄ solns, extn. decreased with acids in the order: H ₂ SO ₄ : For I the max, extractability was obtained: SS-2.6 in HNO ₃ and 97-8 $\frac{C}{6}$ at pH 2.0-3.0 in H ₂ SC better extg. agent than I.	Anokhima, L. Ira Allai, Krum., k. USSR). Zh. VI) and Re(VI) te (I) or trioctyl- The degree of > HCl > HNO ₃ .	
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UNCLASSIFIED PROCESSING DATE--16OCT70
TITLE--BACTERICIDAL ACTION OF ACRICHINE ON E. COLI AND THE PROCESS OF
TRANSFER OF R FACTORS -UAUTHOR-(03)-RYBKINA, L.G., ASTAPOV, A.A., ANOKHINA, R.V.

COUNTRY OF INFO--USSR

SOURCE--ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I IMMUNOBIOLOGII, 1970, NR 5,
PP 122-126
DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

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CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/0161

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2/2 012 UNCLASSIFIED PROCESSING DATE--160CTTO
CIRC ACCESSION NO--APO114557
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. AN ATTEMPT HAS MADE TO ASCERTAIN
THE MECHANISM OF BACTERICIDAL ACTION OF ACRICHINE ON E. CCLI AND SH.
NEWCASTLEI R(IIXT); A STUDY WAS MADE OF ITS EFFECT UN THE TRANSFER BY
CUNJUGATION OF RESISTANCE EPISOMES. INVESTIGATIONS CARRIED OUT
DEMONSTRATED A MARKED BACTERICIDAL ACTION OF ACRICHINE ON E. CULI AND
SH. NEWCASTLEI R(IIXT) AT THE BASIS OF WHICH LAY THE CAPACITY OF
ACRICHINE TO FORM COMPLEXES WITH BACTERIAL DNA. THE TRANSFER OF
MULTIPLE MEDICINAL RESISTANCE EPISOMAS IN CROSSING THE BACTERIA IS
DEPRESSED ON ACCOUNT OF THE SAME CAPACITY OF ACRICHINE.
FACILITY: KUBANSKIY MEDITSINSKIY INSTITUT, KRASNODAR.

UNCLASSIFIED

1/2 037 UNCLASSIFIED PROCESSING JATE--300CT70 TITLE--COEFFICIENTS OF FRICTION OF AGRICULTURAL CHEMICAL POLSONS WITH RESPECT TO STEEL, CAST IRUN, AND CERMET MATERIALS -U-AUTHOR-(02)-ANOPA, V.D., SAGACH, M.F.

CCUNTRY OF INFO--USSR

SCURCE--KIEV, TEKHNOLOGIYA I ORGANIZATSIYA PRÖIZVODSTVA, NO 1, 1970, PP 109-110 DATE PUBLISHED-----70

SUBJECT AREAS--MATERIALS, CHEMISTRY

TGPIC TAGS--FRICTION CUEFFICIENT, CAST IRON, STEEL, POISON, AGRICULTURAL CHEMICAL, CERMET

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DCCUMENT CLASS--UNCLASSIFIED PRUXY RELETFRAME--1999/1337

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CIRC ACCESSION NO--APOLE3295

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ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. COEFFICIENTS OF FRICTION ARE GIVEN FUR AGRICULTURAL CHEMICAL PLISONS WITH RESPECT TO STEEL, CAST IRON, AND CERNET MATERIALS.

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USSR

ANORINA, L. A.

"A Local Theorem Considering Large Deviations and Its Applications"

Sluchayn. Proteessy i Stat. Vyvody [Random Processes and Statistical Conclusions -- Collection of Works], Tashkent, Fan Press, 1971, pp 3-10 (Translated from Referativnyy Zhurnal, Kibernetika, No 1, 1973, Abstract No 1 V37 by V. Petrov).

Translation: Suppose $\{\xi_j\}$ is a sequence of independent, two-dimensional vectors with a common reticular distribution, concentrated at points X with integer coordinates. Suppose random vector ξ_j satisfies the second moments, $\mathbb{E}\xi_j=0$,

 $P\left(\xi_1 = X\right) = (X_1^{n-\alpha} \left(1 + \varepsilon\left(X\right)\right))$

where α_{1} 4. $m(Y) \in S(X) \cap G(Y)$ where $X \mapsto \infty$. If $M(X) \in A \cap Y \cap X$, then $P(X_1 + \ldots + X_n + X) \cap P(X_1 + \ldots + X_n + X)$. Under these same condition, the asymptotic behavior of one conditional distribution is studied, equal tendent to the variational series for the sample L_1 , \ldots , L_n .

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