

CIA-RDP86-00513R002203710001-5



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USSR	ux 619:615.5-015:612.017.1	
SAKANYAN, S. Sh., Professor, YEREMYAN, S DAVIENKO, M. M., Senior Laboratory W	いんは ちゅうてい ほうしん しんしゅう ほうほうてい しょうい	
"The Effect of Some Drugs on Immunologic		
were immunized by subclass. The effect a dose of 2.5 billion cells. The effect of reticuloendothelial cells without im flavine was administered intravenously tion, at the time of immunization, or 1 biotics were administered in single dat before immunization, on the day of immu tion. Penicillin was given intramuscul	pencillin, phenokyne skylepting and oxytetracy- ing, chlortetracycline, and oxytetracy- after immunization were studied. Rabbits a of brucellosis vaccine (strain 19) in t of the drugs on the phagocytic activity munization were also determined. Acri- twice during the 3 days before immuniza- twice during the 3 days before immuniza- ty doses for 15 days, beginning 5 days nization, or 14-15 days after immuniza- arly; the other antibiotics were given ine stimulated formation of aggiutinins sation, but had no effect 15 days after sytic activity in this dose. Acriflavine	

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USSR SAKANYAN, S. Sh., et al., Veterinariya, No 9, Sep 70, pp 50-51 in a dose of 5 mg/kg inhibited formation of agglutining when administered before immunization and stimulated it when given after immunization. It stimulated the phagocytic activity in every case when given in this dose. Acriflavine in a dose of 10 mg/kg had no effect on the formation of agglutinins when given at the time of immunization, but increased the reactivity of the animals upon a second immunization. When administered before or after immunization in this dose, acriflavine inhibited the formation of agglutinins to a considerable extent, but had no effect on reactivity with respect to reimmunization. It inhibited the phagocytic activity in every instance. The tetracyclines in large (50 mg/kg) or, particularly small (10 or 15 mg/kg) doses stimulated the formation of agglutining (with the exception of a large dose of oxytetracycline which had a depressing effect. Fenicillin and phenoxymethylpenicillin in a dose of 5000 units/kg, irrespective of the time of administration, accelerated the formation of agglutining during the first 10-20 days after immunization. Phenoxymethylpenicillin in a dose of 50,000 units/kg inhibited formation of agglutining when given before immunization or beginning with the day of immunization, but had no effect when administered after imminization. Chlortetracycline and oxytetracycline in doses of 10 mg/kg stimulated phagocytic activity, but 2/3

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Stat G-111216

UDC 616.8-009.87:612.12.1
PUKACH, L. P., Major, Medical Corps, and YEREM'YANTS, A. M., Honored Physician, Kazakh SSR, and Colonel, Medical Corps
"The Effects of Thermal Stress on Blood Cholinesterase Activity"
Moscow, Voyenno-Meditsinskiy Zhurnal, No 4, 1973, p 64
Abstract: Blood cholinesterase activities were determined in the case of 30 males, 19-23 years of age. In the morning hours the mean body temperature was 36.1°, and cholinesterase activity was $5.63\pm0.32\mu$ roles/ml·min. At a body temperature of 37.6° (38.3° in some cases), the enzymatic activity fell to $4.55\pm0.2\mu$ moles/ml·min. Thus, an increase in the body temperature of 1.5° was accompanied by a 19.2% decrease (1.08μ moles/ml·min) in blood cholinesterase activity. Physical exertion of a limited nature did not evoke significant changes in blood cholinesterase activity. Diurnal changes in blood cholines- terase activity may be regarded as reflecting the organisms adaptational changes.
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531.787.001.24 USSR SEKOYAN, S. S., YERENEYEY. A. YE. "Use of Non-Linear Theory of Elasticity for Calculation of Deformations of Measuring System Elements in High Pressure Devices" Tr. Metrol. In-Tov SSSR, Vyp. 104(164), [Works of Metrological Institutes of USSR, No. 104(164)], pp 29-32 (translated from Referativnyy Zhurnal Metrologiya I Izmeritel'naya Tekhnika, No. 4, 1970, Abstract No. 4.32.724 by M. I. M.) Translation: Calculations are performed on the basis of the linear and nonlinear theory of elasticity to determine the deformation of a cylinder and piston made of heat-treated high-strength steel under the influence of high pressure. The non-linear characteristics of steels used in the calculation were measured earlier by the US pulse method (see Izmeritel'naya Tekhnika, No. 7, 1966, p 10). It is shown that the difference between deformation values produced using the linear and non-linear theories is slight and can be considered in an investigation of deformation errors in high pressure measuring devices. The data produced can be useful in planning and investigation of measuring devices and high pressure installations: piston manemeters, ball viscosimeters, piezometers, etc. One illustration, six biblio, refs. 1/1

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CIA-RDP86-00513R002203710001-5

UDC 677.494.745.32-96.004.14:661.183.123.2 USSR ZGIBNEVA, Zh. A., GELLER, A. A., GELLER, B. E., POLOVNIKOVA, M. V., YERESHCHENKO, A. G., and GHOMENKO, R. I., Tashkent Institute of Textiles and Light Industry "Fibrous Cation Exchange Materials Based on Mitrona" Moscow, Khimicheskiye Volokna, No 5, 1973, pp 7-9 Abstract: The high chemical stability of the hydrocarbon chains of polyacrylonitrile and the high reactivity of the nitrile groups may be used to prepare ion exchange materials based on the polymers and copolymers of acrylonitrile fibers. The reaction is base catalyzed. Temperature and concentration were determined which would optimize the physical mechanical properties of the obtained fibers. The ion-exchange capacity ranged from 0.3 to 3 meq/g, the higher values generally occurring at high temperatures or high concentrations of NaOH. Intense chemical modification in the polymer chain occurred during the saponification process. These changes were examined using IR spectra and thermograms. The principal reaction path for the base saponification of the copolymer was the hydrolysis of the nitrile and the mixed-ester groups. 1/1- 11 - - -

APPROVED FOR RELEASE: 09/01/2001

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710001-5 PROCESSING DATE--04DEC70 UNCLASSIFIED TITLE--DYEING OF PROTEIN AND POLYAMIDE FIBERS -U-AUTHOR-(04)-GELLER, B.E., YERESHCHENKO, A.G., STEPANTSOVA, N.P., SHALAMOVA, A.I. COUNTRY OF INFO--USSR REFERENCE-OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI, 1970 47 DATE PUBLISHED--09MAR 70 SUBJECT AREAS--MATERIALS, BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--DYE, PROTEIN, POLYANIDE RESIN, SYNTHETIC FIBER, CHEMICAL PATENT, POTASSIUM COMPOUND CONTROL MARKING--NO RESTRICTIONS STEP NO--- UR/0482/T0/000/000/0000/0000 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0859 CIRC ACCESSION NO-- AA0136293 UNCLASSIFIED

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YERESHKO, F. I., KONONENKO, A. F.	
"Solution of a Game with Right First Move with Inaccurate Information on the Purpose of the Other Player"	
Zh. Vychisl. Mat. i Mat. Fiz. [Journal of Computer Mathematics and Mathe- matical Physics], 1973, Vol 13, No 1, pp 217-221 (Translated from Referativnyy Zhurnal Kibernetika, No 6, 1973, Abstract No 6V487, by the authors).	а С. с
Translation: One game is solved with non-opposite interests with fixed sequence of moves, under the condition that the first player does not precisely know the win function of the second player, but rather has information only on the limits of its change. Otherwise, the rules of the game studied are no differ-	
produced for two limiting cases of mutual placement of intervals of change of minimax wins of the first player and his wins in the area where the inter- ests are not completely opposite. For the general case, an estimate is made	
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USSR	,	a dan dan di Literta an				UDC: 51	8.9
YERESHKO, F. I.	• •						
"Solution of Some N	linimax Pr	oblems fo	r Equation	ns of the	Lanches	ter Type"	
V sb. <u>Kibernetiku</u> - Communismcollecti (from <u>RZh-Kibernet</u>	ion of wor	ks), T. O	, Moscow, A''ract	No 11V67	1)	, pp 201-	1 219
Translation: Disc the Lanchester type player are introduc	e for which red. A re	h guarant lation is	eed estime establis	ites of g ned betwe	en these	estimate	·S ,
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the Lanchester type	e for which red. A re	h guarant lation is	eed estime establis	ites of g ned betwe	en these	estimate	: S ,

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	USSR	UDC 621.791.14:669.14.018.298.3	
		(Chelyabinsk Polytechnical Institute), GURFINK, gineers, and YERETHOVA, V. M., Engineer nt imeni V. I. Lenin)	
	"Friction Welding of Hea	t-Treated Type-45 Steel"	
· ·	Moscow, Svarochnoye Proi	zvodstvo, No 10, Oct 70, p 51	
		anotal acakat wrenches have been manufactured	
	rod of type-20 steel, to	llowed by near clearment. In section it has been sug-	
	gested that the sockets	be heat treated berore being a machine developed	
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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710001-5	
1/2 015 UNCLASSIFIED PROCESSING DATE11SEP70 TITLETHE TREATMENT OF OPEN ASSOCIATED INJURIES OF THE HAND AND FINGERS -U- AUTHORYERETSKAYA, M.F., KHARITONOV, R.D., YURYEV, P.V.	
OUNTRY OF INFOUSSR	· 1
SOURCEVESTNIK KHIRURGII IMENI I. I. GREKOVA, 1970, VOL 104, NR 3, PP 63-68 DATE PUBLISHED70	
SUBJECT AREASBIOLOGICAL AND MEDICAL SCIENCES	
OPIC TAGSPLASTIC SURGERY, ORTHOPEDIC SURGERY, MEDICAL CAST, PLASTER, PLASTIC	
ONTROL MARKINGNO RESTRICTIONS	
DOCUMENT CLASSUNCLASSIFIED ROXY REEL/FRAME1986/0636 STEP NDUR/0589/70/104/003/0063/0069	
JRC ACCESSION NOAPO102622 UNCLASSIFIED	•

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2/2 015 UNCLASSIFIED PROCESSING DATE11SEP	70
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ABSTRACT/EXTRACT (U) GP-O- ABSTRACT. IN THE PAPER THE STAGES OF	
TREATMENT, FREQUENCY OF COMPLICATIONS AND RESTORATION OF A PATIENT'S	
CAPACITY FOR WORK IN 125 PATIENTS WITH OPEN ASSOCIATED HAND INJURIES A	E C
ANALYSED. THE FREQUENCY OF COMPLICATIONS AFTER PRIMARY TREATMENT OF	3
SUCH INJURIES MADE 46.4PERCENT. THE RESULTS OF TREATMENT WERE STUDIED	
IN 55 PATIENTS. THE CONCLUSION IS DRAWN ON THE NECESSITY OF REVEALING	-
PATIENTS THAT NEED RECONSTRUCTIVE SURGERY ON THE HAND IN DUE COURSE. I DESCRIBING THE TECHNIC AND OPTIMUM TERMS OF PHYSICAL THERAPY IN	N
ASSOCIATED HAND INJURIES THE IDEA OF RATIONALITY TO SUBSTITUTE AT	
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UDC 621.355.8+621.762 USSR YEREYSKAYA. G. P., DUNAYEVA, T. I., and SKALOZUBCV, M. F., Novocherkassk Polytechnic Institute "Preparation and Study of Silver Powder with a Zirconium Additive, for Use as Material for the Positive Electrode of a Chemical Source of Electricity" Leningrad, Zhurnal Prikladnoy Khimii, Vol XLIV, No 6, Jun 1971, pp 1272-1276 Abstract: The electrochemical properties and the utilization factor $K_{\rm U}$, of the positive electrode of a primary chemical current source, depend not so much upon the choice of material (silver oxide, silver chloride, powdered silver) as upon structural features of the initial active mass, such as porosity, particle size, specific surface, and the like. The effect of various amounts of zirconium oxide additive on performance (K_{U}) , discharge density, and other factors, was studied. It was concluded that 0.6% zirconium additive in silver powder alters the properties of the latter, increasing the actual surface of the electrode, as well as its capacity when used in primary devices. It also tends to stabilize the structure of the electrode during cycling. 1/1

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CONTRACT.

USSR UDC 532.135.082	. •
D'YACHENKO, B. P., <u>YERFILOV, V. N</u> ., YEVSTAFT'YEV, G. D.	
"Device for Measurement of Viscoelastic Properties of Liquids at Pressures up to 6000 kg/cm ² "	
Kontaktno-Gidrodinamich. Teoriya Smazki i Eye Prakt. Primeneniye v Tekhn. [The Contact-Hydrodynamic Theory of Lubrication and its Practical Applica- tion to Technology Collection of Works], Kuybyshev, 1972, pp 5-6 (Translated from Referativnyy Zhurnal Metrologiya i Izmeritel'naya Tekhnika,	.) 0
No 12, 1972, Abstract No 12.32.1184).	
Translation: A vibration viscosimeter for simultaneous measurement of the attenuation decrement of the frequency of natural oscillations of a resonator loaded with a fluid in the frequency range from 10 to 300 KHz is briefly	
described. The sensor is a cylindrical torsional-oscillating quartz resonator, oscillations in which are excited by a series of rectangular pulses. The	
device measures the period of natural oscillations of the resonator up to the boundary of the oscillating mode with an error of less than 10 ⁻⁴ .	
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	UDC 621.397.62:535.67:621.317.79) •
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TERGANZHIYEV, N. A.		
Parameters of a Colorimetric Telev	vision Transmitter Determining the Measu	rement
or Color Reproduction Accuracy"		
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a for state of the Scientifi	and Technical Conference, Benthered	
Electrochnical Communications In	stitute. vyp. 3); Lequigrad, 1970, PP 34	-
55 (from <u>RZh-Radiotekhnika</u> , No 8,	가 가지 않는 것 같아요. 가지 않는 것 같아요. 이 가 있는 것 같아요. 이 것 같아요. 이 가 있는 이 가 있는 것 같아요. 이 이 이 가 있는 것 같아요. 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	
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USSR YERGIN, YU.V., et al, Zhurnal Strukturnoy Khimii, Vol 11, No 1, 1970, pp 8-11 coincidence of their main physicochemical properties with table data. Water samples had a specific electroconductivity of about 10-6 ohm-1. cm-1. From the experimentally measured value of χ , Larmor diamagnetism, which proved to be practically independent of temperature, and polarization paramagnetism, the value of which is determined by the nature of the interaction between water molecules, which is determined by one instance of one anomalous pattern of the curve $\chi(T)$ can be were isolated. It was shown that the anomalous pattern of the curve $\chi(T)$ can be associated with structural features of water. This is evidenced on the curve of the temperature dependence of polarization diamagnetism. The percentage of broken hydrogen bonds in water is estimated from the discontinuity of this variable at the melting point. The authors thank Professors O. YA. SAMOYLOV and YA. G. DORFMAN for discussing the results of the work. 2/2

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SHISHLYANNIKOV, I							
"Results of the (Pilot Plant"	peration of th	ne Mointy	Deminera	lization	Electrodia	lysis	
Vestn. AN KazSSR	(Kazekb SSR A	cademy of	Sciences	Vestnik)	No 2, 19	72. nn 44-51	
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Translation: A s the Mointy demine	ralization ele	or the re ectrodial	vsis stat	ion. An	analysis o	f the	
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UDC 661.183.123.2/3:547.1'118 USSR MUKHITDINOVA, B. A., YERCOZHIN, YE, and RAFIKOV, S. R., Institute of Chemical Sciences, Acad. Sc. KazSSR, Institute of Chemistry, Bashkir Branch Acad. Sc. USSR "Phosphorylated Redox Ionic Exchange Resins" Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 4, Apr 72, pp 974-976 Abstract: The starting polymers were obtained by condensation of the halomethylated copolymers of styrene and divinylbenzene with quinone, naphtoquinone, anthraquinone, hydroquinone, pyrrogallol, pyrocatechal, etc. in presence of 1-2% ZnCl2 in refluxing dioxane. Phosphorylation was carried out with PCl3 in presence of AlCl₃ at 70° for 8 hrs; then the product was hydrolyzed and acidified with 256 HWO3. To convert the cation exchange group into the Ht-form, the material was treated with 10-% HC1. Two active groups were found by potentiometric titration with dissociation constants pK, 3.05 and pK2 6.25. IR spectra showed absorption bands in the area of P=0 for the oxidized form, and C-O-phenols for the reduced forms. The new exchange resins showed good kinetic properties, increased mechanical strength, and chemical and thermal stability. 1/1 - 35 -

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STATES AND STATES

US 3R	UDC 621.359.7:629.1	
SHISHLYANNIKOV, L. A.,	SHOSTAK, F. T., and YERGOZHIN, Ye. Ye.	
"Performance Results o Water by Electrodialys	of the Pilot Industrial Plant "Mointy" Producing Fresh sis"	
Alma-Ata, Vestnik Akad	lemii Nauk Kazakhskoy SSR, No 2 (322), 1972, pp 44-51	
and reliability of a p three years, 1968-1971 87 kopeks/m ³ of water. dry residue 1087 mg/li hardness of water 4.9 y 16.4, 7.5, respectively energy was 2.2 K ₆ W ₆ H/y filters consisted main capable of deminiralize and sodium (up to 50%)	a is presented of the effectiveness, maintenance cost, bilot plant built in the Kazakh SSR, and operated for L. The plant produces 160 m ³ water/day at a cost of The fresh water obtained contained on the average: ter, chlorides 215 mg/liter, sulfates 400 mg/liter, mg-equivalent, pH 6.5, as opposed to 3080, 620, 1200, by, in the initial water. The average consumption of $/m^3$ water. Deposits on anion and cation exchange aly of Ca and Mg sulfates, and SiO ₂ . The plant was zing cold water (8°) with high concentration of sulfates sulfates) with hardness up to 30 mg-equivalent/liter. entrated water solutions with 8-10 g salts/liter, with equivalent/liter. The water treatment was controlled	
nardness up to 90 mg-en		

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UNCLASSIFIED PROCESSING DATE13NOV70 1/2 018 TITLESYNTHESIS AND STUDY OF REDOX POLYMERS BASED ON CROSSLINKED TITLESYNTHESIS AND STUDY OF REDOX POLYMERS BASED ON CROSSLINKED CHLOROMETHYLATED STYRENE DIVINYLBENZENE COPOLYMERE -U- CHLOROMETHYLATED STYRENE DIVINYLBENZENE COPOLYMERE -U- CHLOROMETHYLATED STYRENE DIVINYLBENZENE COPOLYMERE -U- CHLOROMETHYLATED STYRENE DIVINYLBENZENE COPOLYMERE -U- CHLOROMETHYLATED STYRENE DIVINYLBENZENE COPOLYMERE -U-
COUNTRY OF INFOUSSR SOURCETR. INST. KHIM. NAUK. AKAD. NAUK KAZ. SSR 1970, 28, 62-72
DATE PUBLISHED70
SUBJECT AREASCHEMISTRY TOPIC TAGSPOLYMER-CROSSLINKING, STYRENE, BUTADIENE, BENZENE, QUINONE, TOPIC TAGSPOLYMER-CROSSLINKING, STYRENE, BUTADIENE, BENZENE, QUINONE, RESORCINOL, AMINE DERIVATIVE, HYDROQUINONE, POLYMER STRUCTURE
CONTROL MARKINGNO RESTRICTIONS
BOCUMENT GLASSUNCLASSIFIED PROXY REEL/FRAME3006/1098 STEP NDUR/0000/70/028/000/0062/0072
CIRC ACCESSION NOATO134784 UNCLASSIFIED



WITH QUINONES, DIHYDROXYBEN	ATED COPOLYMERS OF STYREME AND DIVINYLBENZENE ZENES. AND THEIR DIALMYL ESTERS -U-
COUNTRY OF INFO-USSR	
SOURCE-TR. INST. KHIM. NAUK,	AKAD. NAUK KAZ. SSR 1970, 28, 73-7
DATE PUBLISHED70	
SUBJECT AREAS-CHEMISTRY	
SUBJECT AREAS-CHEMISTRI	
TOPIC TAGS-HALOGENATED ORGAN	IC COMPOUND, COPOLYMER, STYRENE, QUINONE, Rosslinking, Thermal Stability
TOPIC TAGS-HALOGENATED ORGAN	이 이 방법에 가장 수 있는 것 같은 것 같은 것 이 많은 것 이 있는 것 같은 것 같
TOPIC TAGS-HALOGENATED ORGAN	ROSSLINKING, THERMAL STABILITY
TOPIC TAGS-HALOGENATED ORGANI HYDROXYL RADICAL, POLYMER CI CENTROL MARKING-NO RESTRICTIO DOCUMENT CLASS-UNCLASSIFIED	COSSLINKING, THERMAL STABILITY

CIA-RDP86-00513R002203710001-5



APPROVED FOR RELEASE: 09/01/2001

1/2 039 TITLE-REDUCTION OF NITRO DERIVATIVES OF	PROCESSING DATE-300CT70 POLYSTYRENES AND THEIR COPOLYMERS
AUTHOR- (02)-YERGOZHIN, YE.YE., RAFIKOV,	S.R.
CCUNTRY OF INFO-USSR	
SOURCE-TR. INST. KHIN. NAUK, AKAD. NAUK	KAZ. SSR 1970, 28, 103-6
DATE PUBLISHED-70	
SUNIECT AREAS-CHENISTRY, MATERIALS	
TOPIC TAGS-CHEMICAL REDUCTION, ORGANIC POLYSTYRENE RESIN, TIN, COPOLYMER, BUT RESIN, IR SPECTRUM	NITRO COMPOUND, STYRENE, ADIENE, 8ENZENE, ION EXCHANGE
CONTROL MARKING-NO RESTRICTIONS	
DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-2000/0692 STEP N	0UR/0000/70/028/000/0103/0106
CIRC ACCESSION NO-ATC124364 UNCLASSIELED	

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	ASE: 09/01/2001		
A second	UNCLASSIFIED 4364 -O- ABSTRACT. T DIVINYLBENZENE C SUB2 S SUBX SOLN. DH, AND NH SUB2 G D GROUP CONTG. PO NZENE GROUPS CONC	PROCESSING HE REDN. OF NITRO DE OPOLYMERS WITH SN PL OR FE PLUS HCL GAV ROUPS. IR SPECTRA S ILYMERS WERE NOT FORM N. IN THE COPOLYMERS	DATE300CT70 RIVS. OF US HCL, SNCL E ONLY THE HOWED THAT ED. THE FROM 2 TO
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Augusta and a second second New York Second			
	UNCLASSIFIED		

	USSR WC 542.911661.183.123.3
	YERGOZHIN, E. E., RAFIKOV, S. R., IMANBEKOVA, S. M., ZHUBANOV, B. A., Institute of Chemical Sciences of the Academy of Sciences of the Kazakh SSR and the Institute of Chemistry of the Bashkir Branch of the USSR Academy of Sciences
•	"Synthesis of New Anion Exchange Resins Based on Polyethylenepolyamine and bis(chloromethyl)-d!phenyloxide"
	Moscow, Izvestiya Akademii Nauk SSSR Seriya Khimicheskaya, No 11, 1972, pp 2609-2612
	Abstract: A study was made to synthesize anion exchange resins based on polyethylenepolyamime (PEPA) and bis(chloromethyl)diphenyl ether. The con- densation of 4,4-bis(chloromethyl)diphenyloxide with PHPA was first carried out at a reduced temperature (0-3°, 30-40 minutes) and then at 20-25° to gelatination. The gel formed was congealed in a dessicator at 70° for 20 hours and at 120° for 30 hours. The anion exchange resin obtained was chrushed, screened and separated into a fraction with grain sizes of 0.25- 0.50 mm. The properties of the synthesized ion exchange resins depend to a significant degree on the mole ratio of the chloromethylated diphenyloxide and PEPA and also on their condensation conditions. Comparative data are 1/2

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耳引出 WDC 541.183.661.183.12 USSR YERCOSHIN, YE. YE., BAKIROVA, R. KH., MUKHITDINOVA, B. A., RAFIKOV, S. R., Institute of Chemical Sciences of the Academy of Sciences of the Kazakh SSR and the Chemistry Institute of the Bashkir Branch of the USSR Academy of Sciences "New Macroporous Electron-Ion Exchangers" Moscow, Izvestiya Akademii Nauk SSSR - Seriya Khimicheskaya, No 11, 1972, pp 2607-2609 Abstract: The known reaction of condensation of aromatic and alipatic diamines with quinone or chloranyl leading to the formation of polyaninoquinones (A. A. Berlin, et al., USSR Author's Certificate No 129016, 1960; Byul. izobr., No 11, 1960; Izv. AN SSR. Old khim. n., 2260, 1959; Vysokomodekul. soyed., No 1, 1643, 1959; L. A. Blyumenfel'd, et al., Bysokomolekul. soyed., No 1, 1647, 1959) with conjugate bonds in the macromolecule chains baving increased heat resistance, magnetic susceptibility and complex-forming properties is used to synthesize new electron-ion exchangers. The macroporous weakly basic anion exchange resin Ional ANP was used as the polyamine. The experimental procedure and results are described. The structure of the synthesized electronion exchanger is represented as follows: 1/3

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PROCESSING DATE--- 20NOV70 UNCLASSIFIED 800 1/2 TITLE-BUTYL SALICYLATE -U-AUTHOR-(04)-YERIKHOV, V.I., VIGDORDV, A.S., TOROCHESHNIKOVA, L.V., UUREACHEVA, S.N. ECUNTRY OF INFL--USSK SOURCE--U.S.S.R. 266,765 REFERENCE-CIKRYFIYA, 1208KET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, DATE PUBLISHED-----7C 1.14 SUBJECT AREAS--CHEMISTRY TOPIC TAGS-CHEMICAL PATENT, CHEMICAL SYNTHESIS, ESTERIFICATION, AZETROPE, SALICYLATE CONTROL MARKING-NO RESTRICTIONS . DECUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/1738 elet i gan i com CIRC ACCESSION NU--AA0102004 UNCLASS THEED



CIA-RDP86-00513R002203710001-5

UDC: 621.374.33(088.8) USSR YERILOY. Yu "A Pulse Synchronization Device" USSR Author's Certificate No 267687, filed 19 Sep 68, published 5 Aug 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1G255 P) Translation: This Author's Certificate introduces a pulse synchronization device which contains a flip-flop, coincidence circuit and delay stage. To improve accuracy in tying the asynchronous pulses to pulses of the synchronization frequency, the device contains two inverters and two rectifier circuits. The output of the flip-flop is connected to the first input of the first rectifier circuit, and the output of this circuit is connected through an inverter to the first input of the second rectifier circuit. The second input of the second rectifier circuit is connected to the source of synchronizing pulses, and its output is connected through an inverter to the second input of the first rectifier circuit and to the first input of the coincidence circuit. 1/1

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710001-5	;
1/2 OII UNCLASSIFIED PROCESSING DATE300CT70 TITLEEXISTENCE OF METABORIC ACID IN THE HBO SUB2.NH SUB4 SUB2 SO SUB4.H SUB2 D SYSTEM AT 20 AND 35DEGREES. II -U-	
AUTHOR-(04)-BOCHKAREVA, I.V., YERIMBETOVA, I.D., XARAZHANOV, N.A., BEREMZHANOV, B.A. COUNTRY OF INFOUSSR	•
SOURCE-IZV. AKAD. NAUK KAZ. SSR, SER. KHIM. 1970, 20(1), 21-5	
DATE PUBLISHED70	
SUBJECT AREASCHEMISTRY	
TOPIC TAGS-BORIC ACID, WATER, CRYSTALLIZATION, ISOTHERM	•
CONTROL MARKINGNO RESTRICTIONS	
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1997/1507 STEP NDUR/0360/70/020/001/0021/0025	1
CIRC ACCESSION NOAP0120298 UNCLASSIFIED	5

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STEP NOUR/0492/70/015/003/0030/0034	
METAL PRUDUCTION	
H., IND., CIVIL AND MARINE ENGR	
3), 30-4	
YERINDY, A.YE.	
GAS FIRED SMELTING FURNACES -U-	
	., IND., CIVIL AND MARINE ENGR METAL PRUDUCTION NS



PROCESSING DATE-- 160CT70 TITLE-PLASHATIC IMPREGNATION OF CARDIAC NUSCLE CELLS IN ACUTE METABOLIC AUTHOR-102)-TSELLARIUS, S.F., YERISKOVSKAYA, N.K. SOURCE-BYULLETEN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 69, COUNTRY OF INFO--USSR NR 5, PP 100-103 DATE PUBLISHED----- 70 SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--ADRENALINE, WHITE RAT, MYOCARDIUM, HEART DISEASE, METABOLISM, ANTIBODY, INJURY CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0219/70/069/005/0100/0103 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0201 CIRC ACCESSION NU--AP0120899 UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001

UNCLASSIFIED	PROCESSING DATE160CT70
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MICH THE ALL PLASMATIC IMPREGNATION HAS NOT MICROSCOPY. PLASMATIC IMPREGNATION HAS NOT CONTRACTURE TYPE OF INJURY, BEGINNING FROH NYOFIBRILS; AT EARLY PERIODS AFTER ADRENALI NYOFIBRILS; AT EARLY PERIODS AFTER ADRENALI ALL SEGMENTS WITH FRAGMENTATION OF MYOFIBRI ALL SEGMENTS WITH FRAGMENTATION OF MYOFIBRI IMPREGNATION; CONSEQUENTLY, IT IS NOT THE OF IMPREGNATION; THE SECOND TYPE OF INJURY OF	LLS UNVERGO FERGILIC CHANGES
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USSR	UDC 537.311.33:514.28	
A.K., STARCHIK, M.I., AHI		
In Silicon and Germanium	s On The Processes Of Formation Of Rediation Defecte During Germa Irradiation [#]	
	met. kristallov (Radiation Fhysics Of Non-Metallic Torks), Minsk, "Nauka i tekhn.," 1970, pp 22-44 (from primeneniye, No 2, February 1971, Abstract No 2B26)	
Translation: The kinetic 51 and n- and p-type Ge d	te are studied of the buildup of radiation defects in buring Gazza irradiation. The effect of the charge	
as well as the effect of ration, preliminary irred defects. 32 ref. V.B.	desage, the intensity of Gamma irradiation, concent- listion and other factors on the fermation of radiation	1
1 /1		

ITLE-SYNTHESIS OF VINYL FOR	UNCLASSIFIED PROCESSING DATE300CT70 RMATE IN A FLUIDIZED CATALYST BED -U-
UTHDR-{04}-AKOPYAN, A.YE., S.S. GUNTRY OF INFO-USSR	BOYADZHYAN, V.K., YERITSYAN, V.K., OVSEPYAN,
DURCE-ARM. KHIM. ZH. 1970, ATE PUBLISHED70	23(2), 193-9
UBJECT AREASCHEMISTRY	
OPIC TAGS-VINYL COMPOUND, D BED, CATALYTIC ORGANIC SYN	FORMIC ACID, CARBOXYLIC ACID ESTER, FLUIDIZED THESIS, AGETYLENE, AGETATE, ALDEHYDE
CONTROL MARKING-NO RESTRICT	IONS
ONTROL MARKING-NO RESTRICT DOCUMENT CLASS-UNCLASSIFIED ROXY REEL/FRAME-1999/1862	

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710001-5 1.1 ÷., PROCESSING DATE-- 300CT70 UNCLASSIFIED ABSTRACT/EXTRACT- (U) GP-O- ABSTRACT. THE SYNTHESIS DF VINYL FORMATE (1) 0;0 CIRC ACCESSION NO-AP0123650 FROM ACETYLENE AND FORMIC ACID IN THE VAPOR PHASE OVER FLUIDIZED ZN AND CD CATALYSTS WAS EXAMD. IN A CONTINUOUS REACTOR (1969). THE ORDER OF CATALYST ACTIVITY WAS: CO FORMATE IS LESS THAN IN FORMATE IS LESS THAN MIXT. 1:1 OF BOTH (IN ALL CASES ON ACTIVATED C SUPPORT). THE OPTIMUM TEMP. FOR MAX. YIELD OF I AND MIN. BY PRODUCTS TACETALDEHYDE, VINYL ACETATE, CROTUNALDEHYDES WAS IBODEGREES, AND THE OPTIMUM RATIO II-III WAS 3.5:1. FACILITY: EREVAN. GTD. NAUCH. ISSLED. INST. POLIM. PLASTMASS, EREVAN, USSR. UNCLASSIFIED

	"APPROVED FOR RELI	EASE: 09/01/2001	CIA-RDP86-00513	R002203710001	-5
TILETH	E EMFLOYMENT OF CY SHABANOV, A.N., YEL	UNCLASSIFIEC CLEPREPANE CENTAIN SHANSKIY, V.I., YE	PPOCESSING DA	are 5 th s	
	SFABANCV, A.R., IC CF INFCLSSR KFIFURGIYA, 1970, M			225	
CATE FUE	LISEC7C		F\$	27	
SUBJECT	AREASBICLEGICAL AGSANESTHESIHESIA	AND MEDICAL SCIENC	YGEN + HYPERTENSIO	N	
		TCTICNS			
	VAREING-NC RESTR NT CLASSUNCLASSIF REEL/FRAME1977/17	16D STEP NC+-	UR/C531/70/0C0/00	1/6074/0079	
CIRC A	CCESSIEN NOAPCC44	UNCLASSIFIEC			

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710001-5 Ref. Code: UR 0531 PRIMARY SOURCE: Khirurgiya, 1970, Nr /, pp 74-79 THE EMPLOYMENT OF CYCLOPROPANE-CONTAINING Shabanov, A. N.; Yelshanskiy, V. I.; Yerivantsev, N. A.; Tretyakova, V. I. MIXTURES FOR ANESTHESIA The authors carried out 184 anesthesias with cyclopropane oxygen and nitrous-oxide-The authors carried out 184 anesthesias with cyclopropane-oxygan and nitrous-oxide-cyclopropane-oxygan (in different proportions) mixtures in aged and senile patients during operations on abdominal organs and on the extremities. Before, during and after anesthesia the authors studied the function of the cardiovascular system, the state of respiration and the authors studied the function of the liver and kidneys, and glucocorticoid metabolism. Clinical observations and the results of investigations made it possible to arrive at the following conciu-sions: 1) there were no absolute contraindications to the use of modern cyclopronane anesthesions: I) there were no absolute contraindications to the use of modern cyclopronane anesthesions: 1) there were no account contrainqueations to the use of modern cycloprovane anesthe-sia in the referred to patients: 2) high arterial hypertension and renal insufficiency are re-lative contraindications: 3) combined mitting out to model model and the sector in the most at in the referred to particles, of their alternative hypertension and reparticulations, are re-lative contraindications; 3) combined nitrious-oxide-cyclopropane-oxygen anosthesia is the most 02 01 rational technique. REEL/FRAME 1/1 19771710

APPROVED FOR RELEASE: 09/01/2001

PROCESSING DATE--230CT70 UNCLASSIFIED TITLE--FORMATION OF CHARGED AND EXCITED PARTICLES IN COLLISIONS BETWEEN NOBLE GAS IONS DR ATOMS AND HYDROGEN MOLECULES -U-AUTHOR-(05)-POLYAKOVA, G.N., GUSEV, V.A., YERKA, V.F., FOGEL, YA.M., ZATS, A.V. COUNTRY OF INFO--USSR SOURCE--ZHURNAL EKSPERIMENTAL 'NOY I TEORETICHESKOY FIZIKI, 1970, VOL 58, NR 4, PP 1186-1196 DATE PUBL ISHED ----- 70 . . . SUBJECT AREAS--PHYSICS TOPIC TAGS--EXCITATION CROSS SECTION, PARTICLE COLLISION, GAS IDNIZATION, HYDROGEN, EMISSION SPECTRUM, INERT GAS CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO-+UR/0056/70/058/004/1186/1196 PROXY REEL/FRAME--1988/1485 CIRC ACCESSION NO--AP0106241 UNCLASSIFIED

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CIA-RDP86-00513R002203710001-5"



USSR		
ERKHOV, M.I.		
"Theory of Limiting Equilib	brium of Dynamically Loaded Bodies"	
Moscow, Izvestiya Akademii 71, pp 26-32	Nauk SSSR, Mekhanika Tverdogo Tela, No 2, Mar-Apr	
geometry. The method of ext inertial forces, approximat of displacement. Relations	made of the limiting equilibrium of a dynamically- under varying movement, load conditions, and treme principles of dynamics was used to relate te values of acceleration, and corresponding values were established for the components of tension	
surface-loading vector, ten surface. The resulting form capability for shells, and	r, velocity vector, deformation-velocity tension sion equilibrium, and body density, volume, and sulas provide upper and lower limits for carrying upper and lower limits of bowing. The poles of , must be checked against fluidity conditions.	
he specific configuration	OI specimen geometry must also be considered to	
etermine maximum and minim	and levels of bowing.	•
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FITLECORRELATION AND INTERAL	UNCLASSIFIED CTION OF THE BASIC	PROCESSING DATE- PHENOMENA OF INDUS	O4DEC70 STRIAL
COKING -U- AUTHORYERKIN, L.I.	\mathbf{V}		
COUNTRY OF INFOUSSR	1		
SOURCEKOKS KHIM. 1970, (5),	20-4		14 A.
DATE PUBLISHED70			
SUBJECT AREASMATERIALS			DOOGEDTY
TOPIC TAGSCOKE, INDUSTRIAL	PRODUCTION, COAL,	PHYSICAL CHEMISIRY	PROPERTY
			• 4.
CONTROL MARKINGNO RESTRICTI	LONS		1
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME3004/0969	STEP NOUR/C	0068/70/000/005/002	20/0024
CIRC ACCESSION NOAP0131554	CLASSIFIED		
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"APPROVED FOR RELEASE: 0			
1/2 010 TITLECONDITIONS FOR THE USE THE PPEPAPATION OF SYNTHETIC AUTHOP-(05)-YERKOVA, L.N., BER T.S., KHIMICH, D.C.	NCLASSIFIFD GF CARBOXYL	PROCESSING DA CONTAINING LATEX SKD- MARTINSON, D.K., KJZ	TE020CT70
COUNTRY OF INFO-USSR SOURCE2H. PRIKL. KHIM. (LENI)			
DATE PUELISHED70	NOKAD: 1970,	43(2), 418-22	
SUBJECT AREAS-MATERIALS			
TOPIC TAGSCARBUXYLATE RUBBER, BUNDING/(U)SKD1 SYNTHETIC RUB	LEATHER, RI BER	UBBER ADHESIVE, HYDROG	EN
CONTROL MARKING-NO RESTRICTION	S		
DOCUMENT CLASSUNCLASSIFIED PRUXY REFL/FRAME1992/0337		UR/0080/70/042/002/04	
ACCESSION NUAPOIL1531	SIFIED		L8/0422

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"APPROVED FOR RELEASE: 09	9/01/2001	CIA-RDP86-00513R	002203710001-	·5
1/2 023 TITLEINTERACTION OF LATEXES FACTORS ON THE INTERACTION O AUTHOR-(02)-KARLINA, G.A., YER COUNTRY OF INFOUSSR	INCLASSIFIED WITH COLLAG F CARBOXYL KOVA, L.N.	PROCESSING EN AND FIBER. II. CONTAINING AND NITE	G DATE230CT7 EFFECT OF SOM RILE LATEXES	0 E
SOURCEZH. PRIKL. KHIM. (LENIN DATE PUBLISHED70	NGRAD} 1970	43(2), 412-17		
SUBJECT AREASMATERIALS, BIDLO TOPIC TAGSCOLLAGEN, LATEX, NIT ACTIVE AGENT, SORPTION, STERIC NITRILE RUBBER	GICAL AND M TRILE RUBBEN HINDRANCE,	EDICAL SCIENCES , CARBOXYLATE RUBB (U)SKD1 RUBBER, (U	ER, SURFACE)SKN40	
CONTROL MARKINGNO RESTRICTIONS DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME1995/1464 CIRC ACCESSION NOAPO116901 UNCLASS	STEP NO(IR/0080/70/043/002/	0412/0417	
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USSR		
YERMACHENKO, V. M.	UDC: 621.375.82	
and the second	tral Width of a Working Transition According to the	•.
Moscow, Kvant. elektro No 1(13), "Sov. radio" stract No 8D1002 by th	onikasbornik (Quantum Electronicscollection of works), , 1973, pp 134-135 (from RZh-Fizika, No 8, Aug 73, ab-	
Translation: An arm		
emission nover while a	invite in found which gives the Lamb shift in lacon	
and resonance rediction	indicaneously accounting for depolarizing collision	
is less than the value	n capture. It is shown that the spectral line with	đ
is less than the value proposed for evaluation	n capture. It is shown that the spectral line width found without regard to these effects. A method in	đ
is less than the value proposed for evaluation	a debuilding for depolarizing collicion	4
is less than the value proposed for evaluation	n capture. It is shown that the spectral line width found without regard to these effects. A method in	•
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	UXX 621.578.555
	VDOVIN, YU.A., GUBIN, M.A., YERMACHENKO, V.M., PRCTSENAC, YE.D.
	"Mode Competition At β_{s2} β_{p4} Neon Transition In A Laser with Nethane Absorption Cell"
	Kventovaya elektronika (Quantum Electronics), Moscow, No 6(12), 1972, pp 105-107
	Abstract: Previous papers of which Gubin and Protecnko were continors reported on the obtainment of contrasting peaks of power and frequency stabilization in a holium-neon generator at the junction 3_{62} - 3_{p4} ($\lambda = 3.39$ micron) with a methane absorption cell. The high degree of contrast and contraction were ob- tained by virtue of the use of the effect of competition of axial modes arranged symmetrically with reference to the amplification line. The present paper studies the behavior of the intensity of one of the modes in a two-mode lacar with an absorption cell and an orthogonal polarization of modes. The contrast, the width and position of the resonance peak of power relative to the center of the absorption line are determined. 4 ref. Received by editors, 1 Dec 1971.
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UDC 612.275.1

MUSTAFIN, K. S., YERMACHKOVA, N. N., and TURGUNBAYEV, K., Chair of Fac7lty Therapy, Kirgiz State Medical Institute, Division of Pathomorphology, Institute of Experimental Morphology imeni A. I. Natishvili, Academy of Sciences Georgian SSR, and Oshskaya Oblast' Hospital

"Norphological Manifestations of Heart Hypertrophy at a High Altitude"

Frunze, Sovetskoye Zdravookhraneniye Kirgizii, No 2, Mar/Apr 71, pp 37-40

Abstract: Morphological changes in the heart of guinea pigs kept for periods of 3-90 days at an elevation of 3,200 m above sea level were studied. On the 3d to 15th day structural and histochemical changes developed in the myocardium that were associated with hypertrophy of the tissue. These changes were accompanied by formation of necrotic sections. Necrotic changes leading to an overdevelopment of connective tissue reached a maximum on the 15th day and decreased towards the 30th day. The content of glycogen and ribonucleoproteins in the myocardium increased. While under normal conditions the content of glycogen and ribonucleoproteins in the right ventricle is much lower than in the left, adaptation to high altitude resulted in an increase of the content of the sum of these substances in the right venticle, so that it sometimes was greater than in the left. The hypertrophy of themyocardium was nost pronounced in the 1/2

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CIA-RDP86-00513R002203710001-5

USSR MUSTAFIN, K. S., et al., Sovetskoye Zdravookhraneniye Kirgizii, No 2, Mar/Apr 71, pp 37-40 right ventricle. The morphological changes observed in the myocardium tissue were essentially the same on the 90th as on the 45-60 th days, except that they were somewhat less pronounced in the later stage. While sojourn at the high altitude produced initial damage to the myocardium, this damage gradually decreased after the 15th day. The changes observed indicated adaptation of myocardial function to the hypoxia associated with the high altitude, but this adaptation was incomplete, because some damage to tissue remained even on the 90th day. 2/2 - 63 -

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203710001-5

YERMAK, V. D. "The Problem of Information Models of Systems of Interaction of Man and Computer During the Performance of Creative Tasks" Avtomatiz. Proektir. v Elektronike. Resp. Mezhved. Nauch. Tekhn. sb. [Automation of Planning in Electronics, Republic Interdepartmental Scientific and Technical Collection], No 4, 1971, pp 87-93, (Translated from Referativnyy Zhurnal, Kibernetika, No 3, 1972, Abstract No 3 V583 by the author). Translation: The peculiarities are studied of a system of creative interaction between man and computer. It is pointed out that the primary peculiarity of this system is the interaction of man only with the mathematical model of the process being studied, which is invariant relative to time. The specifics of information models of "creative" systems are studied. An attempt is undertaken to find an approach to the construction of information models of creative interaction systems between man and computer. 12 Biblio. Refs. 1/1 - 77 -

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203710001-5

Information Theory UDC 681.327.21.22.621.385.832 USSR YERMAK, V.D. 'Ergonomic Requirements for 'CRT and Light Pencil' Input-Output Devices" Avtomatiz. Proyektir. v Elektronike. Resp. Mezhved. Nauchno-Tekhn. Sb. [Automation of Planning in Electronics. Republic Interdepartmental Scientific and Technical Collection], No. 1, 1970, pp 33-38 (Translated from Referativnyy Zhurnal Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No. 4, 1971, Abstract No. 4B529 from the resume). Translation: The peculiarities of realization of an information model, perception of information, and performance of control actions by man using the "CRT and light pencil" are studied. Devices of this type have a number of advantages over other man-machine system devices, particularly in the stage of realization of control actions. Based on known results of psychological studies and experiments, requirements are developed for the most important parameters of visual information on the screen of a CRT. Certain characteristics of motion of the human arm are presented; these must be considered in developing the input of control actions using the "light pencil (pen)." 8 biblio refs. 1/1

APPROVED FOR RELEASE: 09/01/2001

YERMAK, Yu. N., NEYLAND, V. Ya. "Effect of Viscosity on Departure of a Shock Wave in the Case of Hypersonic Flow Around a Cylinder" <u>Uch. zap. Tsentr. aerogidrodinam. in-ta</u> (Scientific Notes of Central Acro- hydrodynamics Institute), 1971, 2, No 6, pp 41-47 (from <u>RZh-Mekhanika</u> , No 5, May 72, Abstract No 5B315) <u>Translation</u> : The authors study the influence of viscosity and thermal con- ductivity on departure of a shock wave from the surface of a circular cylin- der in a hypersonic flow of viscous gas for the case of vortex interaction between the boundary layer and the inviscid shock layer. It is shown that in contrast to the case of vortex interaction on a sphere, the viscosity and thermal conductivity in the given case have a strong influence on the departure of the shock wave since the better part of the thickness of the shock layer is taken up by a region of slow viscous flow lying near the surface of the body. Resumé.	USSI	}				UDC: 533.6.011	
Flow Around a Cylinder" Uch. zap. Tsentr. aerogidrodinam. in-ta (Scientific Notes of Central Aero- hydrodynamics Institute), 1971, 2, No 6, pp 41-47 (from <u>RZh-Mekhanika</u> , No 5, May 72, Abstract No 5B315) <u>Translation</u> : The authors study the influence of viscosity and thermal con- ductivity on departure of a shock wave from the surface of a circular cylin- der in a hypersonic flow of viscous gas for the case of vortex interaction between the boundary layer and the inviscid shock layer. It is shown that in contrast to the case of vortex interaction on a sphere, the viscosity and thermal conductivity in the given case have a strong influence on the departure of the shock wave since the better part of the thickness of the shock layer is taken up by a region of slow viscous flow lying near the	YER	MAK, Yu. N., NEYI	LAND, V. Y	e.			
hydrodynamics Institute), 1971, 2, No 6, pp 41-47 (from <u>RZh-Mekhanika</u> , No 5, May 72, Abstract No 5B315) <u>Translation</u> : The authors study the influence of viscosity and thermal con- ductivity on departure of a shock wave from the surface of a circular cylin- der in a hypersonic flow of viscous gas for the case of vortex interaction between the boundary layer and the inviscid shock layer. It is shown that in contrast to the case of vortex interaction on a sphere, the viscosity and thermal conductivity in the given case have a strong influence on the departure of the shock wave since the better part of the thickness of the shock layer is taken up by a region of slow viscous flow lying near the				ture of a Sho	ck Wave in the	Case of Hypersonic	
ductivity on departure of a shock wave from the surface of a circular cylin- der in a hypersonic flow of viscous gas for the case of vortex interaction between the boundary layer and the inviscid shock layer. It is shown that in contrast to the case of vortex interaction on a sphere, the viscosity and thermal conductivity in the given case have a strong influence on the departure of the shock wave since the better part of the thickness of the shock layer is taken up by a region of slow viscous flow lying near the	hydr	odynamics Instit	tute), 1973	<u>nam. in-ta</u> (S 1, <u>2</u> , No 6, p	cientific Noter p 41-47 (from <u>1</u>	s of Central Aero- RZh-Mekhanika, No	,
and thermal conductivity in the given case have a strong influence on the departure of the shock wave since the better part of the thickness of the shock layer is taken up by a region of slow viscous flow lying near the	duct	ivity on departu in a hypersonic een the boundary	ire of a sl flow of v layer and	nock wave from iscous gas for 1 the invisci	m the surface of r the case of a d shock layer.	of a circular cylin- Fortex interaction It is shown that	
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	betw in c and depa	thermal conducti rture of the sho	ock wave si	ince the bett			
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BAKAY, A. S., YERMAKOV, A. I., NAZAROV, N. I.	
"Study of Low-Frequency Oscillations on the Basis of Amplitude Modulation of Ultrahigh-Frequency Radiation From a Plasma"	
(Plasma Physical upravl. termovader state	e,
RZh-Fizika, No 11, Nov 72, Abstract No. 1972, No. 3, pp 40-47 (from)
Translation: It is shown that radiation from a plasma at the ω_{ep} (where ω_{ep} is the electron	
wave is marked and electron beam into a placer in a provide upon the	۲. د
to amplifude mat a formation of Langmuir veyon distances in plasma density load	
of ω_{en} makes it possible to it from the plasma at a frequency radiation of	2 1
of ω_{ep} makes it possible to determine the plasma at a frequency on the order tions of the plasma (their frequency is considerably less than the electron	
12 and the electron	

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UDC 533-95 USSR BAKAY, A. S., YERMAKOV, A. I., and NAZAROV, N. I., Physicotechnical Institute, Academy of Sciences Ukrainian SSR, Khar'kov "Study of Low-Frequency Plasma Oscillations by Amplitude Modulation of Microwave Radiation" Kiev, Ukrainskiy Fizicheskiy Zhurnal, Vol 16, No 1, Jan 71, pp 12-18 Abstract: If, along with electronic Langmuir waves excited by the beam in a plasma-beam system waves propagate in the plasma whose frequencies are much less than the electronic plasma frequency, the Langmuir waves may be transformed into transverse waves with frequencies close to the electronic plasma frequency. The effective transformation of the Langmuir into transverse waves will take place on low-frequency waves which strongly disturb the plasma density. The plasma density fluctuations result not only in the transformation of the Langmuir into transverse waves but also in amplitude modulation of these waves. The Langmuir wave amplitudes and, together with them, the amplitude of the UHF emis-1/2 - 46

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203710001-5

USSR

UDC 547.834.4:543.51

YERMAKOV, A. I., SHEYNKER, Yu. N., MIKHLINA, YE. YE., YANINA, A. D., YAKHONTOV, L. N., and KOSTYANOVSKIY, R. C., All-Union Scientific Research Chemico-Pharmaceutical Institute imeni S. Ordzhonikidze, Moscow

"Mass Spectra of Some 3-Substituted Benzo/b/quinuclidines. III"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, No 6, Jun 72, pp 825-832

Abstract: The mass spectra of 3-methoxycarbonyl-, 3-ethoxycarbonyl-, 3-(2dimethylaminoethoxy)carbonyl-, 3-amino-, 3-hydroxymethyl-, 3-chloro-3-methoxycarbonyl-, 3-chloro-3-ethoxycarbonyl-; and 3-chloro-3-cyanobenzo-/b/quinuclidine were studied. The results indicated that fragmentation of these compounds by electron impact took place over the formation of an open molecular ion that generally resulted upon cleavage of the bridge group containing the substituent or substituents. The C-Cl group had the weakest bond in the molecular ions derived from the disubstituted compounds - hence, C^O readily split off from the Cl-Ch-X group (X=COOR, CN) with the formation of a =CH - X group.

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UAPPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710001-5"

BAKAY, A. S., et al., Ukrainskiy Fizicheskiy Zhurnal, Vol 16, No 1, Jan 71, pp 12-18

sion from the plasma prove to be modulated low-frequency oscillations, so that a study of the amplitude modulation of the UHF emission from the plasma at close-to-electron-plasma frequencies makes it possible to judge the low-frequency oscillation spectrum of the plasma. An experimental study of wave transformation and interaction in a plasma-beam system was carried out on a device consisting of a solenoid, discharge tube, exciting coil, diamagnetic probe, microwave circuit, magnetic probe, x-radiation detector, Faraday cylinder, electrostatic analyzer, and electron gun. A comparison of the depths of amplitude modulation of the UHF emission on the frequency of a fast magneto-sound wave whose amplitude is known and on the frequency of ion-sound oscillations makes it possible to valuate the amplitude of the latter.

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CIA-RDP86-00513R002203710001-5

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Yeroshenko, V. M., Yermakov, A. L., Klimov, A. A., Motulevich, V. P., Terent'yev, Yu. N., Teplofiz. Svoystva i Gazodinamika Vy sokotemperatur. Sred., Moscow, Nauka Press, 1972, pp 56-64.

to the turbulent mode is realized through a loss of stability due to reinforce-. ment of small oscillations and the Taylor mechanism related to penetration of the turbulence of the external flow into the mixing zone is studied.

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APPROVED FOR RELEASE: 09/01/2001

USSR UDC 532.526.4	
YERMAKOV, A. L., YEROSHENKO, V. M., KLIMOV, A. A., MOTULEVICH, V. P., and TERENT'EV, Yu. N.	
"Experimental Investigation of the Structure of a Turbulent Boundary Layer During the Injection of Helium"	
Moscow, Izvestiya Akademii Nauk, SSSR, Mekhanika Zhidkosti i Gaza, No 3, 1972, pp 60-67	
Abstract: The method for protecting the surfaces of various structure elements, based upon the transverse delivery of a substance into the boundary layer, is popular in view of its great effectiveness. In some applications, it becomes necessary to decrease heat fluxes to the surface by a factor of several multi- ples of 10, and to force the mainstream away from the wall to such an extent that its concentration on the surface be negligibly small. This is realized	
by means of strong injection. Considerable results have recently been obtained with the use of numerical methods for calculating the interaction of a laminar stream of gas with a body during the intensive delivery of a mass from the sur-	
face. Comparison of the results of numerical calculation yields good with experimental values. 1/2	

CIA-RDP86-00513R002203710001-5

USSR YERMAKOV, A. L., et al., Izvestiya Akademii Nauk, SSSR, Mekhanika Zhidkosti i Gaza, No 3, 1972, pp 60-67 The present work represents a continuation of experimental research on the structure of a turbulent boundary layer during injection through a porous plate. The results of an experimental investigation of the structure of a turbulent boundary layer on a porous plate during the injection of helium are presented. The influence of the injection parameter upon the averaged and pulsation distribution of velocities and concentrations in the layer is analyzed. The sequence of the process of forcing the mainstream away is described, and the displacement parameter is given. 7 figures. 9 references. 2/2 ~ 18 -

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USSR	
YEROSHENKO, V. M., YERMAKOV, A. L., KLIMOV, A. A., MOTULEVICH, V. P., TERENT'- YEV, YU. N., Moscow	
"Experimental Study of the Effect of Intense Blowing of Various Gases on a	
Turbulent Boundary Layer"	
Moscow, Izvestiya Akademii Nauk SSSR, Mekhanika Zhidkosti i Gaza, No 1, January- February 1971, pp 162-167	
Abstract: This article contains the results of an experimental study of the effect of blowing of various gases (air, CO_2) on the turbulent boundary layer	
of a flat plate. The deformation sequence of the average velocity and concen- tration distributions of the turbulent boundary layer which occurs on variation of the blowing parameter in a broad range is investigated. The increase in thickness of the laminar sublayer during blowing without turbulization and an	
increase in the physical thickness of the boundary layer are detected. The experiments were performed on a gas dynamic unit with a Mech-Zender interfero- meter type IT-14. For the study the blowing parameter $F = (\rho \tau)_w / (\rho u)_e$ where	
w refers to the conditions at the wall and e, to conditions at the edge of the boundary layer. All the experiments were performed under isothermal conditions 1/3	

CIA-RDP86-00513R002203710001-5

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YEROSHENKO, V. M., et al., Izvestiya Akademii Nauk SSSN, Mekhanika Zhidkosti 1 Gaza, No 1, January-February 1971, pp 162-167

with a zero longitudinal pressure gradient. The flow was essentially subsonic.

The experiments refute the widespread published opinion that blowing of a gas into a turbulent boundary layer turbulizes the laminar sublayer. This obviously does not always occur and depends on the size of the pores of the penetrable surface. The investigated two stages of deformation of the velocity and concentration profiles (boundary layer and jet type) are separated by an intermediate stage of deformation characterized by constant values of the velocity and concentration gradients along the entire zone of mixing both near the wall and in the core. By analyzing the curves representing the dimensionless velocity and concentration profiles as functions of the carbon dioxide gas blowing parameter it can be stated that the dissimilarity of the velocity and concentration profiles in the presence of weak blowing of carbon dioxide gas is caused by the presence of a density profile across the boundary layer -- $\rho_w/\rho_e = 1.5$. It is pointed out that if this is so it is indifferent how the density profile is created (for example, it can be obtained

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CIA-RDP86-00513R002203710001-5

USSR YEROSHENKO, V. M., et al., Izvestiya Akademii Nauk SSSR, Mekhanika Zhidkosti i Gaza, No 1, January-February 1971, pp 162-167 with uniform blowing but in the presence of heat exchange). It is also interesting to note that the concentration profiles in the presence of weak blowing of carbon dioxide gas are also deformed by power laws. 3/3

APPROVED FOR RELEASE: 09/01/2001

USSR UDC 533.601.34
YERMAKOV, A. L., YEROSHENKO, V. M., KLIMOV, A. A., MOTULEVICH, V. P., and TERENT'YEV, Yu. N.
"Experimental Investigation of Flow Stability During Intensive Injection"
Moscow, Izvestiya Akademii Nauk SSSR, Mekhanika Zhidkosti i Gaza, No 6, Nov-Dec 72, pp 114-123
Abstract: Results are presented of an experimental investigation of the loss of flow stability in boundary layers forced aside by injection. The experi- ments did not confirm the widely held opinion concerning the strong destabi- lizing influence of injection. Moreover, a flow-stabilization effect is
noted when injection intensity is increased; this effect originates due to a decrease in the value of velocity shear in the zone of intensive viscous interaction. A semiempirical formula is obtained for determining the criti- cal Reynolds number at the point of loss of stability. Consideration is given to the development of disturbances, and a correspondence is shown
between the experimental data and calculations by the method of small vi- brations for an ideal fluid. An analysis is made of the transition to turbulence through stability loss due to the selective intensification of small vibrations and, simultaneously, to the penetration of turbulent 1/2

CIA-RDP86-00513R002203710001-5

USSR YERMAKOV, A. L., et al., Izvestiya Akademii Nauk SSSR, Mekhanika Zhidkosti i Gaza, No 6, Nov-Dec 72, pp 114-123 disturbances of the external stream into the shear zone. The high flow stability in shear layers forced aside by injection is explained by the stabilizing influence of the elastic gaseous medium over which they develop. Nine figures, eight references. 2/2 KINGSCREAMER. FILLER THE FILLER WE

APPROVED FOR RELEASE: 09/01/2001

	: 09/01/2001 CIA-RDP86-00513R002203710001-5
1/2 015 TITLETHIN LAYER CHRUMATOGRA CHLORIDE COMPLEXES OF PRECI	UNCLASSIFIED PROCESSING DATE090CT70 APHY OF PRECIOUS ELEMENTS. SEPARATION OF LOUS METALS BY PARTITION CHROMATOGRAPHY -U- YERMAKOV, A.N., NIKITINA, L.P.
COUNTRY OF INFO-USSR	[영상] 방송 알 영향 (North Charles and Charles a
SOURCE-ZH. ANAL. KHIM. 1970, DATE PUBLISHED70	, 25(2), 294-300
SUBJECT AREASCHEMISTRY	
	TOGRAPHY, PLATINUM, PALLADIUM, RHODIUM, GOLD, CHEMICAL SEPARATION, COBALT, COPPER, IRON,
CONTROL MARKING-NO RESTRICTI	ON S
DOCUMENT CLASSUNCLASSIFIED PRDXY REEL/FRAME1993/0917	STEP NOUR/0075/70/025/002/0294/0300

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002203710001-5 PROCESSING DATE--090CT70 1 钟歌员 UNCLASSIFIED ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. THIN LAYER CHRUMATUG. CAN BE USED SUCCESSFULLY FOR THE RAPID SEPN. OF TRACE AMIS. OF PRECIUUS METALS. MULTICOMPONENT MIXTS. CONTG. PT, PD, RH, IR; AND AU CAN DE SEPD. INTO 3 OR 4 GROUPS BY A PARTITION CHROMATOGRAPHIC HETHOD ON SILICA GEL BY USING BU SUB3 PO SUB4, ME SUB2 CO, CYCLOHEXANE, AND MECDET AS MOBILE SULVENTS. MAX. DIFFERENCES IN THE R SUBF EXIST IN 4N HCL WHEN USING BU SUB3 PO SUB4, IN ON HEL WHEN USING CYCLUHEXANE, IN 2N HEL WHEN USING HE SUB2 CO, AND IN 2-4N HEL WHEN USING MECUET. THE SEPN. OF NONPRECIOUS METALS ICU, CO. FE, NI) IS POSSIBLE UNDER THE SAME CONDITIONS AS FOR PT METALS. TRACE AMTS. OF AU, PT, AND PD CAN BE DETD. DIRECTLY BY REFLECTANCE DENSITOMETRY WITH A RELATIVE STD. DEVIATION OF 2.9, 18.5, AND FACILITY: INST. GEOCHEM. ANAL. CHEM., 10. 2PERCENT, RESP. MUSCOW. USSR. UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002203710001-5

8/019/61/000/020/038/093 A152/A126 9,600 Yermakov, A. N. AUTHOR Method of measuring the conductance of ferromagnetic materials TTILE PERIODICAL: Byullsten' izobreteniy, na. 20, 1961, 33 Class 21e, 3710, no. 141947 (723057/24 of March 23, 1961). A method TEXT: of measuring the conductance of ferromagnetic materials based on the measurement of the complex resistance of a coil being coaxial with the sample or superposed upon the latter and is connected into one of the arms of an A.C. bridge, differing Yrom others in that in order to improve the accuracy of measurements for compensating the effects of magnetic permeability and the sample's geometrical dimensions, two additional coils superposed upon the sample provide information on the sample's dimensions and magnetic permeability; this information is transformed into variations of frequencies of a HF and a LF generator, whose voltages are used together with a subtractive circuit for compensating the main coil's signal component produced by the factors being compensated. ATTACK THE REAL PROPERTY AND ADDRESS OF THE DESIGNATION OF THE DESIGNA THE REPORT OF THE REPORT OF THE REPORT OF THE DESIGN OF TH

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USSR	UDC 632.951:633.32	
BESHKUROV. V. P., YERM	AKOV, A. V., Lipetsk Experimental Station	
	cticides against Clover Secdlings Pests"	
Moscow, Knimiya v Sel's	skom Khozyaystve, Vol 8, No 12, Dec 70, pp 31-33	
	of various preparations on seedling posts has been r seed cator weavil, sweet clover weavil, various	
of aphids, and on useful	ul insects. Eaxiest harvest of clover soldings a itions prevailing in Lipetsk region when the seed	ecald
were treated with sevin	ne and dipterex. Sevine and dipterex were effects	.7e
	1 gnawing apparatus and not effective against aphi bophos, trichlorozetaphos-3, and hexachloran destr	
the aphids but were inc	active egainst pests with oral gaswing apparatus.	It
of clover seedling pest	t effective was the use of vophatox against the co ts.	mbrox
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USSR UDC: 669.24:538.248 <u>YERMAKOV, A. Y</u> e., IVANOV, O. A., SHUR, Ya. S., GRECHISHKIN, R. M., IVANOVA,	
92 Martine - Collins and Collins and Collins and Collins and Collins and Collins and Collins 669.24:538.248	
YERMAKOV A. Ye. TVANOV O A SHIFT YO G ODEGUTOURTH TO THE	
G. V., Institute of Physics of Metals, UNTs, Academy of Sciences of the USSR, Ural State University imeni V. I. Lenin	
"Magnetic Properties of Single-Crystal Nickel Powders"	•
Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 33, No 3, Mar 72, pp 558-563	ند_0 د
Abstract: The authors investigate the magnetic properties of nickel single crystal spherical particles as a function of diameter from 22 to 320 nm. It is shown that as particle size increases, the coercive force and residual induction first increase, then decrease after reaching a maximum. The mag- netic structure goes through three stages with an increase in particle size from 22 to 320 nm: superparamagnetic, monodomain and polydomnin. The authors thank M. Ya. GEN for procedural guidance in making the particles.	
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USSR	WDC 669.241538.221	
IVANOV, O. A., YERMAKOV, Physics, Ural National Con State University imeni A.	A. YE, and SHUR, YA. S., Institute of Netal inter of the Academy of Sciences USSR, and Ural M. Gor'kiy	
"Temperature Dependence of Powders"	f Magnetic Properties of Fine Singlecrystal Nickel	
Sverdlovsk, Fizika Metallo 757	ov i Metallovedcniya, Vol 33, No 4, Apr 72, pp 752-	į
magnetic properties of fir magnetic structures from s in the 220 to 3200 Å inter perature range the magneti by the chain-like alignmen of the demagnetizing field indicated anisotropy, the the magnetocrystalline ani	magnetostatic interaction on magnetic properties has is of a study of the temperature dependence of ne nickel powders. The investigation included superparamagnetic to nearly multidomain structures rval. It was found that for the over 300°K tem- ic properties of powders are basically determined at of particles which results in an anisotropy d. At temperatures below 300°K, in addition to the magnetic properties are essentially affected by isotropy. A possible mechanism of the remagnetiza- tructures is discussed. A drop of the residual	

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magnetizati particles a being effec The same so coercivity	on with the nd particle ted by the urces cause with the de	temperature is s with maximum appearance of the anomalous creasing size of	coercivity a the superpara shape of the	unagnotic p	100°K, this hase. App	drop arently,
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USSR UDC 669.76:538.221 YERMAKOV A Ye., IVANOV, O. A., and SHUR, Ya. S., Institute of Physics of Metals, Ural National Center of the Academy of Sciences USSR, and Ural State University imeni A. M. Gor'kiy "Rotational Hysteresis in Single Crystal Nickel Powders" Sverdlovsk, Fizika Metallov : Metallovedeniye, Vol 33, No 6, Jun 72, pp 1182-1187 Abstract: A study was made of the temperature dependence of rotational hysteresis in single-crystal nickel powders with 220-3200Å particle diameters. The magnetic properties of nickel powders were found to be related to the effective constant of magnetic anisotropy produced by magnetic interaction of particles. The remagnetization mechanism of nickel powders for 300 and 450 °K remains constant, but the magnetic anisotropy constant for these temperatures takes values of $5 \cdot 10^4$ erg/cm3 and zero, respectively. The type of remagnetization in nickel powders with particle sizes of d \leq 1100 Å can be qualitatively explained by approximation of the "twisting" and the chain models of spheres. In powders with d > 1100 Å particle sizes, the character of remagnetization is more complex. The exchange anisotropy, dependent on the presence of NiO, was found to have no effect on magnetic properties. Five figures, fourteen bibliographic references. 1/1 - 2h al de l'USER A RENERVEN ANTE EN LA MERCIA DE LA MERCIA DE LA BERGER DE LA LECTA DE LA DELA DELLA DELLA DELLA D MELLEMENTA DEL DEL DEL DELLA DELL DELLA DEL

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VEDENEV, M. A., DROZHZHINA, V. I., YERMAKOV, A. YE.

"Irreversible Hysteresis Phenomena in Ferrite Core Probes"

Geofiz. Apparatura [Geophysical Apparatus -- Collection of Works], No. 41, Leningrad, Nedra Press, 1969, pp 36-47 (translated from Referativnyy Zhurnal Metrologiya I Izmeritel'naya Tekhnika, No. 4, 1970, Abstract No. 4.32.1359, unsigned)

Translation: It is shown that at comparatively low excitation current frequencies, the value of hysteresis drift H_K with a fixed value of relative field amplitude of the excitation field $N = H_M/H_{NO}$ is practically independent of the geometric dimensions of the cores (H_{NO} is the amplitude of a field of optimal sensitivity). The dependence of ratio H_K/H_{KM} on H_H produced with an interaction between the cores of the ferrite probe and without an interaction with identical degree of overexcitation n remains approximately the same. There is a statistical spread of quantity H_K ; for one group of cores, manufactured from the same melt and subjected to the same heat treatment, hysteresis zero drifts differing by approximately an order of magnitude can be expected. Of the three materials investigated, the most favorable material from the standpoint of hysteresis 1/2

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UDC: 621.378.325 USSK BALASHOV, I. F., BEREZIN, B. G., and YERMAKOV, B. A. "Peculiarities in the Generation of Monopulse Radiation With Non-Instantaneous Switching of the Laser Resonator" Leningrad, Zhurnal tekhnicheskoy fiziki, No 2, 3972, pp 385-390 Abstract: "Instantaneous switching" is defined as a type of laser operation in which the time interval for switching in the resonator is less than the interval required for development of the oscillation to produce maximum monopulse radiation. For obtaining optimal energy characteristics as well as stabilization of the monopulse energy with variations in pumping energy, however, noninstantaneous switching is sometimes desirable. In this paper, the peculiarities of non-instantaneous switching are theoretically and experimentally investigated when the switching is done by an optical-mechanical gate which varies the Q of the resonator. The The energy of the monopulse radiation is obtained as a function of the pumping energy for a given type of loss variation from known equations. The experimental part of the work involved the use of a ruby laser and a laser using KGSS-46-2 glass; the effect of displacing the resonator mirror during oscillation development was determined through fast switching by a Kerr gate. The authors 1/2

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BALASHOV, 3 pp 385-390	I.F. et al,	Zhurnal tekhnicheskoy	<u>fiziki</u> , No 2,	1972,
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USSR UDC 536.212 FRIDLENDER, B. A., NESHPOR, V. S., YERMAKOV, B. G., SONDLOV, V. V., State Institute of Applied Chemistry, Leningrad "Temperature and Heat Conductivity of Pyrolytic Titanium and Niobium Carbides and Titanium Nitride at High Temperature" Minsk, Inzhenerno-Fizicheskiy Zhurnal, Vol 24, No 2, Feb 73, pp 294-296. Abstract: Results are presented from measurement of the temperature conductivity and calculation of heat conductivity of monolithic specimens of TiC _{0.94} , NbC _{0.77} and TiN _{0.94} , produced by chemical gas-phase deposition, in the temperature range from 1500 to 2200-2400°C. The specimens of titanium and niobium carbide had large-crystal columnar dendritic micro- face of deposition. The specimens of titanium nitride had similar micro- fact of deposition. The specimens of titanium nitride had similar micro- fut and NbC are significantly lower than that of TiN, resulting from the significantly lower contribution of electron heat transport, with similar con- tributions of lattice heat transport.	
tributions of lattice heat transport, 1/1 - 69 -	

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DAVYDOV, V. S., YIERIL	AKOV, B. G., and SOKOLOV, V. V.	
V sb. Tugoplavk. karl Kiev, "Nauk. Dumka," Abstract No 3G374 by	bidy (The Refractory Carbides Collection of Works), 1970, pp 20-23 (from RZh-Ketallurgiya, No 3, Mar 71, authors)	
produced by the metho	estigation is made of the conditions under which dense in composition, of titanium and zirconium carbides are a of precipitation from a gaseous mixture. Optimum	
gaseous phase contain The authors consider composition of gaseou	ing vapor of a higher metal chloride, methane, and H ₂ . the effect of various process parameters (temperature,	
	ture, and chemical composition of the resultant carbides. Two tables. Bibliography with five titles.	
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PETROVA, I. I., YERM	AKOV, B. N.			emperature	
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Range" Elektron. tekhnika. Scientific and Tech	Nauchno-tekhn. s	b. Ferrit. tekhn Ferrite Technol	(Electroni ogy), 1970, tract No 12V	: Technology. ryp. 1 (23), +41)	
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