High-Speed Magnetic Amplifier for Servo Systems

105-58-6-11/33

does not show the deficiencies characteristic for the ordinary magnetic amplifiers, viz. lagging does not exceed one frequency period of the supply-source and due to a corresponding selection of parameter, the reaction of the output of the circuit on the input is intensely weakened, which guarantees a sufficient directivity in the transfer of energy. 3) The lack of a phase-displace. ment between amperage and voltage in each circuit of the scheme at all time-intervals of the period attributes to the accurate operation of the scheme. 4) The lagging of the amplifier is only determined by the frequency of the supply-source and does not depend on other circuit parameters. A very small lag can be obtained by increasing the frequency without simultaneous reduction of the amplification-factor. 5) The method of calculation proposed here, is based on the condition that a conformity between the signal-source and the amplifier-input is guaranteed within the control range, whereas this conformity is disturbed within the operational range. This makes it possible to obtain sufficiently high amplification factors without disturbance of the signal-source operation by the e.m.f

Card 2/3

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

High-Speed Magnetic Amplifier for Servo Systems 105-58-6-11/33 induced into the control windings. 6) The calculation of the amplifier is simple and enable the constructor to find an adequate solution. 7) With cascading, the summary lagging of the amplifier increases by a half-period of the carrier-frequency per cascade. 8) The coefficient of amplification of the circuit is détermined by the characteristics of the valves and of the core-material, as well as by the grade of manufacture 9) The investigations given here do not comprise all cases of the application of this amplifier. There are 5 figures and 6 references, 4 of which are SUBMITTED: April 11, 1957 1. Magnetic amplifiers--Design 2, Magnetic amaplifiers--Circuits 3. Servo systems -- Equipment 4. Mathematics Card 3/3

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9



KUDRYAVTSEVA, G. I., Candidate Tech Sci (diss) -- "The theory and computation of a high-speed magnetic amplifier for follower systems". Moscow, 1959. 12 pp (Min Higher Educ USSR, Moscow Order of Lenin Power Engineering Inst), 150 copies (KL, No 24, 1959, 137)

APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001

S REPUBLIC STREET, STRE

CIA-RDP86-00513R000827220010-9"

			372
20230 27-52		 "security of "petiaemore sovesbchandyn po ertomatisatati proirrodiveunyth professor v mahikostroyanii i artomatistiovennom sistroprirodn v prograhlec- bosti. JA becon. joji 	
		Elektroprived 1 sytematisatelys promyshimnyth ustanoruh; truty soreshohaniya (Electro Drive and internetion in industrial Systema; franzactions of the Con- ference)	
		General Mais 1.1. Patroy 1.4.1 Elrotta and MG. 1.00 opping printed. E.P. Milayer 7.5. Marroy 1.4.1 Elrotta and MG. 2.111111 1.11. 1.1. Sud, and E.P. Milayer 7.5. M. M. 1.1. Promesia and 0. 1. 1. 1.1. Sud, and	
		PURPOSE The collection of reports is interested for the extentific and technical personnal of seientific research institutes, plants and echools of higher ethnician.	
		COTTALES. The book is a collection of reports submitted by existing workers at plante, and experts and achieved of higher education at the third	
		Wylidig and micented Electric Driver in including three eases in Machine Wylidig 19-16, 1999. The Contractor bit inducty built in Maccor on Contra SSS (State Parchaece ease of all of the inductor of Science USS), the Contractor SSS (State Parchaece Constitution (State Parchaece), the Contractor SSS (State Parchaece) and the State Science USS, the	
		Medias buildentistical is methosoforming Giura Comittes on Automatics and the functional Comittee on Light State Control on the state of the state o	
	•	en included Complete on interface contractorements destroyation (describe a Barpeiro), the Willie, the interface of theory is 221 (bence Institute of the bandway of feinness (122 Autorities of theories of interesting with Institute any news, and the Entering of the Autorities	
	·····	Mulding of the Invition of Sinnes of Commission on the feetback of Machine It will be purpose of the Mulding of Santhas of the Machine of Machine would same a white of Machine of Santhas of the Machine of Santhas would same a white the Mulding Board to attract the Santhas of Santhas	
		problems finding to district presentation of the service in a very value of the service of the service in the service of the s	· · · · · ·
	12	tria maintant fouries are orginad. The book also contained algoring and the maintained and and intraction. Considerable structures on elso- maintained a contrainty contraction. Considerable structure is public to con- maint and an annotation.	
	م . منعود بر	and points applicitury, and to computer intended built and contractor derives applied of libear and bouldear antonika built for the callets and the port allowed pointing of non-1.	
	2	aby abreviated these with the appoint of the full initial time has consider or is the formal filtrichation appoint is noticed a filtre for the activities and mattered a second to a second to a second to the second secon	
		Patta stored scorety and the path. Patta structure for the patha is the patha patha is the patha patha is the patha	
		Birinik, M. M. Dotor of Terminal Sciences, and 5.1. Success, Profiler.	the Mar
		derration, P. d., Bocent, Cardidate of Technical Sciences, P. A. Jan. 421	
7	,	"District Math, Detert, Contribute of account.	
			0.10
9		authat dist blaid sectoremet	
۲ _v	·	Lowing a like Conditate of Technical Solances. Solon-Leplifiers Conditate a Megnatic Applifier Vill an Institute Machine. Solon-Leplifiers Conditing	
Л <u>-</u>		Irobotenia, B.di., and i.di. Mitrrity, Betzeers. Mar of Ingraving the	
75		. Arras. 0.1.1. Professor, Doctor of Technical Sciences. Construction Problem.	
]/ 2	•	Marphia, Paulo, and Maia. Initraising Laterson. Interlocking Control 438 With the Use of Standard Chile of Low-Current Equipment	17 (94).
A			
43			
Q			
			le vis
F		Milmir. Doutor of Technical Estanese. Intraviag Multability and Assuresy of long-Vistones Transformer transmissions	
		÷	
			s gi

REXACHEVSKAYA, O.P.; VOLOKHINA, A.V.; KUDRYAVYSEVA, G.I.
Copolymerization of histohydro-f-aniabbenzois acid lactam with Z-caprolactam and S-emantholactam. Vysokom. soed. 7 no.6: 1092-1097 Je '65. (MIRA 18:9)
1. Vaesoyuznyy nauchno-lasledovatel'skiy institut iskusstvennogo volokra.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

SIRONBATOV, G.L.; KUDRYAVISIVA, G.S. Changes in the heat- and cold-remistance of fish tissues as "lated to the temporature conditions of the environment. Dokl. AN SSSR 156 no. 2:452-454 My '64. (HIRA 17:7) 1. Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kego. Fredstavleno akademikom Ye.N. Pavlovskin.

APPROVED FOR RELEASE: 07/12/2001



KUDRYAVTSEVA, I.D.; MINKINA, L.N.; SEMCHENKO, V.D.; POFOV, S.Ya.; SMIENOV, V.A.

> Electrolytic iron plating in ammonium chloride electrolytes. Trudy NPI 146:55-59 464. (MIRA 18:11)

APPROVED FOR RELEASE: 07/12/2001

,

.

.

.

ACCESSION NRI AR4000490	······································	S/0124/63/000/010/V008/W	008
SOURCE: RZh. Mekhanika, Abs.	10763		
AUTHOR: Kudryavtseva, I. M.			
TITLE: Temperature stresses :	in a bimetallic	plata	
CITED SOURCE: Sb. nauchn. tr. 25-35	. Vses. zeochn.	mashinostroiti in-t, vy*p.	. 3, 1961,
TOPIC TAGS: bimetallic plate, lar plate, bimetallic circular bimetallic plate	, temperature s r plate, bimetal	tress, two dimensional stru llic plate temperature stru	ess, circu- ess, circular
TRANSLATION: The problem is a bimetallic circular plate, but temperature $t = constant$. The linear surface of the plate is r = R. In the plane of the v along the normal z are identic	t-welded without over a stornal plane s rigidly alamped weld $(z = 0)$ the	at initial streaders and here of the plate is free. If ad along the line of the we s displacements and their d	ted to a te curvi- uld (s = 0,
DATE ACQ: 140ot63 Cord 1/1	SUB CODE		ENCL: 00

CIA-RDP86-00513R000827220010-9



CIA-RDP86-00513R000827220010-9

THE PROPERTY AND A STREET, SALES

DYMARCHUK, N.P., kand. khim. nauk; KUDRYAVISEVA, I.V., inzh.; MISHCHENKO, K.P., doktor khim. nauk; TALMUD, S.L., kand. khim. nauk Thermodynamics of woodpulp interaction with water and aqueous solutions of electrolytes. Report No.5: Comparing the "active"

surfaces and heat of interaction with water of unbleached pulp and viscose cellulose obtained therefrom before and after fractionization. Trudy LTITS BP no.10:57-64 '62. (MIRA 16:8)

(Woodpulp) (Heat of wetting) (Electrolytes)

APPROVED FOR RELEASE: 07/12/2001





1991 CONTRACTOR OF STREET, STRE KUDRYANTSEVA, EKF.

Abe Jour	:	Nef Shor - Mart., No 5, 1953, 1962)
Author Inst		Kuduyavaceva, K.N.
Pible	:	Preliminary Resarch of Investigation by Use of Sames of Joséchas': Burrous on Bogs of the Isryk-Duk District.
Order Person	;	12: Craina-Ariatok, n1. (valirothre. 14-en, 1996) No 3, Loj-165
Abetract	:	By use of flannel and grave same (2 m in South), 35 Groecylla "Lientlevi, 375 Shadinapeysia ventule as and 1085 ticks Ixides creatings and Persmeant reconservicy were obtained from 765 entrances to woodehad buryose. Migration of Shear (chickly M. ventuicton) and ticks secure bound the perioderal period of the Samer. It is increased after the entrance Ceath. Houser, the anger part of 0. silentlesi recain 10 the test. The
lard 1/2		

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"



APPROVED FOR RELEASE: 07/12/2001



KUDRYAVTSEVA, K.P.; ZHUKOVETS, M.S.; ARUTYUNOV, I.S.; NOGAYEV, B.N.; SPITSIN, V.V.; RYAKINA, M.A.; NEKHAYEVA, G.G.; IKAYEV, N.V.; AVRAMENKO, L.M.; TSOGOYEV, T.Kh., otv.red.; BAYMATOV, P.S., tekhn.red.
[Beonomy of the North Ossetian A.S.S.R.; statistics] Narodnoe khoziaistvo Severo-Osetinakoi ASSR; statisticheskii sbornik. Ordzhonikidze, 1958. 130 p. (MIRA 12:10)
1. North Ossetian A.S.S.R. Statistichoskoye upravleniye.
2. Nachal'nik Statisticheskogo upravleniya Severo-Osetinskoy ASSR (for TSogoyev). (Ossetia--Statistics)

A CARLER AND A CARLER AND A CARLER AND A CARLER AND A CARLER A CARLER A CARLER A CARLER AND A CARLER A CARLER A

APPROVED FOR RELEASE: 07/12/2001

the second second

SUSAREV, M.; KUDRYAVTSEVA, L.

Determining the region in which the composition of a three-component azeotrope is located in a concentration triangle. Izv. AN Est. SSR. Ser. fiz.-mat. 1 tekh. nauk 12 no.2:212-217 '63. (MIRA 16:10)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry.

APPROVED FOR RELEASE: 07/12/2001

- ALL PROPERTY

5

KUDRYAVTSEVA, 1 Chuvash, A. S.		Culture					
Keeping bees in			Chuvash.	Pchelovodst	70, 29, Nc	0.9,1	.952
							-
Monthly List of Unclassified.	Russian A	ccessions,	Library	of Congress,	November	1952.	
							tr S

174-14-17 HILLING



Definition of the concentration region of the temperature shift in a ternary azeotrope system. Izv. AN Est. SSR. Ser. fiz. mat. i tekh. nauk 12 no.3:312-319 '63. (MIRA 16:11)

1. Institute of Chemistry of the Academy of Sciences of the Estonian S.S.R. and Leningrad State University.

APPROVED FOR RELEASE: 07/12/2001

นสอาริสารสารสารสารสารสารสารสารสารสาร

EYZEN, Yu. [Eisen, J.]; KUDRYAVTSEVA, L., kand. khim. nauk; HAMG, S., Kund. khim. nauk; EYZEN, O. [Eisen, O.], kand. tekhn. nauk

以到学校

Relative retention time of hydrocarbons in gas chromatographic analysis. Izv. AN Est. SSR. Ser. fiz.-mat. i tekb. nauk 13 no.3: 234-240 '64. (MIRA 17:11)

1. Institut khimii AN Estonskoy SSR.

APPROVED FOR RELEASE: 07/12/2001

一部ででなる方法である

EYZEN. O. [Eisen, O.], kand.tekhn.nauk; KUDRYAVTSEVA, L., kand.khim.nauk; RANG, S., kand.khim.nauk

Supplicit States

Isomerization of olefin in chromatographic operations on silica gel. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh.nauk no.4:275-284 *64.

Study of adsorption chromatography on silica gel in group analysis of liquid fuel. Ibid.:285-289 (MIRA 18:4)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry.

APPROVED FOR RELEASE: 07/12/2001

KIRRET, O.; SYZEN, O. [Elsen, C.], kand.tekhn.nauk; KUDETAVTSEVA, L., kand. kbir.raik; RANO, S., kand.khim.nauk
Adaorptivity of some hydrocarbons in chromatographic operations on stilin geb. Tev. AN Ento.SSR. Ser. fiz.-mat. 1 tekh.rauk np.4267+272. 164. (MIRA 18:4)
1. Scattat Entmit AN Estanskey SSB. 2. Ghlon-korrespondent AN Estanskey SSR (for Kirret).

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

and there are shown in the second the

San Isan Baran B

KUDRYAVTSEVA, L. A.

"Determination of the Relative Values of Survace Energies" p. 139-145, in the book <u>Research in the Physics Solids</u>, Moscow, Izd-vo AN SSSR, 1957. 277 pp. Ed. Bol'shanina, M. A., Tomsk Universitet, Siberskiy fiziko-tekhnicheskiy institut.

Peronalties: Kuznetsov, V. D.; Rebinder, A.P.; Shreyner, L. A.; Loskutov, A. I.; Boyarskaya, Yu. S.; Maslov, Ye. N; Troitskiy, A. V.; Kachalov, N. N.; Kashcheyev, V. N.; and Fersman, A. Ye. Materials studied: monocrystals of alkali metal halides, There are 2 figures, 4 tables, and 11 Soviet references.

This collection of articles is meant for metallurgical physicists and for engineers of the metal-working industry. This book contains results of research in the field of failure and plastic deformation of materials, mainly of metals. Froblems of cutting, abrasion, friction, and wear of solid materials (metals) are discussed.

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

ระทั่งสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสามหัวสาม

KUDKYAVTSEVA, L.A. AUTHOR: Savitskiy, K.V., Kudryavtseva, L.A.

TITLE:

Savitskiy, A.V., Kudryavtseva, L.A. 32-9-23/43 Investigation of the Influence Exercised by Various Factors upon Strength by the Method of Scratching (Vliyaniye razlichnykh faktorov na tverdost' po metodu tsarapaniya)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 9, pp.1104-1108 (USSR)

ABSTRACT: Here strength is investigated by the method of scratching by the modification of the outside temperature, consolidation as well as . . the temperature and velocity at, and with which scratches are caused. A nearly proportional relation between stress at the point and the square of the width of the soratch, which is exceeded only at very great stresses, is determined. It is shown that in the case of low stresses the strength determined by the method of scratching is insensitive to consolidation and grows with an increase of consolidation in the case of sufficiently strong stress. Therefore, the causing of deep scratches cannot even be used for an approximate evaluation of the true tearing resistance. The temperature during the experiment exercises essential influence upon the strength (which was determined according to the scratching method). This is the case not only at temperatures of real resting, but also at such Card 1/2 temperatures as cause the reduction of plasticity at the cost of a

APPROVED FOR RELEASE: 07/12/2001

and a second second

	modification of the state of the structure of the alloy. It is shown that the velocity of scratching leads to a decrease of the depth and width of the scratch. This influence is, however, greater in the case of scratching depth than in the case of scratching width. It is assumed that the reason for this is to be found in the modification of the geometry of the scratching cone because of its forming crusts. There are 4 figures, 2 tables, and 13 refe- rences, 10 of which are Slavic.
ASSOCIATION:	Siberian Physical-Technical Scientific Research Institute (Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel'skiy institut)
AVAILABLE:	Library of Congress
Card 2/2	

CIA-RDP86-00513R000827220010-9

0,1100

3,5120

28404 S/169/61/000/007/055/104 A006/A101

AUTHOR:

OR: Kudryavtseva, L.A.

TITLE: Results of measuring, by means of a rocket, the vertical distribution of atmospheric ozone

and a second second

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 7, 1961, 23, abstract 7B150 ("Tr. Tsentr. aerol. observ.", 1960, no. 37, 24 - 29)

TEXT: The author presents results of measuring the vertical distribution of atmospheric ozone, carried out with the aid of a meteorological rocket on October 1, 1958. The measurements were made with the use of an automatic spectrograph with a servo-mechanism directing the slit continuously toward the Sun. The spectrograph was lifted at 19° declination of the Sun. Photographs were obtained of the solar spectra in the ultraviolet range taken at various altitudes up to 24 km. An analysis of the spectrograms resulted in plotting a curve for the vertical distribution of ozone in the 0 - 24 km layer. Calculations were made with the aid of the Buge formula and the method of consecutive approximations. Maximum ozone content was discovered in th 20 - 23 km layer; the

Card 1/2

APPROVED FOR RELEASE: 07/12/2001





APPROVED FOR RELEASE: 07/12/2001

S/126/61/012/006/023/023 Intergranular internal adsorption...E193/E383 characteristics, microhardness, lattice parameter and electrical resistance of Cu-Al alloys with 14.3 and 14.9 at.% Al, water-quenched from 900 °C or annealed (i.e. slowly cooled from high temperatures). The existence of granular adsorption was clearly indicated by the results of internal-friction measures ments reproduced in a figure, where is plotted against the test temperature of Cu + 14.3 at.% o⁻¹ Al (broken curve) and Cu + 14.9 at.% Al (continuous curve) alloys. Curves 1 and 2 relating to annealed, Curves 1' and 2' to quenched specimens. The sharp decrease in the magnitude of the internal-friction peak of quenched alloys is obviously due to increased concentration of A1 atoms at the grain boundaries. This conclusion was confirmed by the results of other tests. Thus, whereas there was no difficulty in revealing the grain boundaries of annealed specimens by etching in concentrated HNO3, the grain boundaries in quenched specimens Card 2/4

CIA-RDP86-00513R000827220010-9

S/126/61/012/006/023/023 Intergranular internal adsorption ... E193/E383

could be revealed only by electrolytic etching. The difference between the microhardness in the interior of the grains and

in the grain boundary regions was 29 kg/mm² for annealed and

43 kg/mm² for quenched specimens. Similarly, the lattice parameter (in the interior of the grains) was 3.6413 Å in annealed and 3.6406 Å in quenched Cu-Al alloying with 14.9 at.% Al. Finally, in contrast to specimens quenched from low (400 - 600 °C) temperatures, the electrical resistance of alloys quenched from 900 °C increased during subsequent heat treatment, provided it was carried out at sufficiently high temperatures and for a sufficiently long time. This increase was no doubt caused by the diffusion of Al atoms from the grain boundaries into the interior of the grains, which provided yet another proof of the authors' theory regarding the possibility of internal intergranular adsorption in alloys of systems such as Al-Cu or Cu-Zn, in which the solid solubility decreases with increasing temperature.

Card 3/4

APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9 -S/126/61/012/006/023/023 Intergranular internal adsorption ... E193/E383 There are 1 figure and 8 Soviet-bloc references. ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut (Siberian Physicotechnical Institute) SUBMITTED: August 5, 1961 Figure: ŝ ð g 500 2°007 Card 4/4

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9"

CIA-RDP86-00513R000827220010-9

S/139/62/000/003/012/021 E193/E385

Kudryavtseva, L.A. and Panin, V.Ye. AUTHORS: The temperature-dependence of internal friction of TITLE: Cu-Al solid solutions Izvestiya vysshikh uchebnykh zavedeniy, Fizika, PERIODICAL: no. 3, 1962, 93 - 98 In undertaking the present investigation, the authors TEXT: were prompted by the lack of understanding of the nature of transformations taking place in Cu-Al alloys and leading to anomalous variation in the properties of these alloys on heating. The main objective was to establish whether the alloys obeyed laws typical of ordering alloys and, if so, how these laws were affected by various factors such as thermal history of the alloy, presence of impurities, etc. To this end internal-friction measurements were carried out at temperatures between 18 and 700 °C on high-purity, vacuum-melted alloy containing 14.3 at.% Al and on commercial-grade Al bronzes (14.9 at.% Al) which, among other impurities, contained 0.025% phosphor. The results for the Card 1/4

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

NURS CONTRACTOR STATES

S/139/62/000/003/012/021 The temperature-dependence E193/E383 high-purity alloy are reproduced in Fig. 1, where the internal friction (Q^{-1}) is plotted against temperature $(^{\circ}C)$, curve 1 relating to homogenized material (6 hours at 900 °C, cooling at 50 °C/h to 600 °C, 3 hours at 600 °C, furnace-cooling to room temperature), curves 2-4 to specimens quenched from 500, 700 and 900 °C, respectively. Similar curves for the commercial-grade bronze are reproduced in Fig. 2. Several conclusions were reached 1) The results obtained confirmed the view that the disorderorder transformation took place in the alloys studied. 2) The character of the temperature-dependence of internal friction of this alloy depended on its thermal history and the degree of its purity. 5) The internal-friction background increased with increasing quenching temperature, reached a maximum for a certain temperature T_{o} and then decreased again. Increasing the degree of purity of the alloy shifted T towards lower temperatures. 4) An additional internal-friction peak at 70 °C appeared in Card 2/4

APPROVED FOR RELEASE: 07/12/2001
CIA-RDP86-00513R000827220010-9

5/139/62/000/003/012/021 The temperature-dependence E193/E383 the alloy containing 0.025% P; this peak was attributed to the diffusion of the impurity atoms. Quenching from high temperatures brought about a sharp 5) decrease in the height of the internal-friction peak associated with grain-boundary relaxation. This effect was reversible and indicated that intergranular internal absorption might take place in the alby studied. There are 3 figures. ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V.V. Kuybysheva (Siberian Physicotechnical Institute of Tomsk State University imeni V.V. Kuybyshev) SUBMITTED: March 29, 1961 Card 3/4

APPROVED FOR RELEASE: 07/12/2001

S/659/62/008/000/021/028 1048/1248

AUTHORS: Panin, V.Ye., Zenkova, E.K., Fedin, V.P., and Kudryavtseva, L.A.

TITLE: The problem of high-temperature diffusion transformations in solid solutions

SOURCE: Akademiya nauk SSSR. Institut metallurgii, Issledovaniya po zharoprochnym splavam. v.8. 1962. 161-168

TEXT: The alloys (Cu + 14.9% Al, Cu + 14.9% Al + 0.025% P, Cu + 14.9% Al, + 0.06% P, all percentages atomic) were homogenous solid solutions up to 1030° C. The electric resistivity of the alloys (ρ), measured at room temperature, was a function of the quenchin temperature (T_q), reaching a maximum value of 10.48 and 11.02 microohm. (m. for pure and P-containing alloys respectively at T_q=400-500°C. The ρ of the alloys quenched in water was higher than that of the alloys cooled in air. The hardness (H_y) - T_q relationship was similar to the ρ - T_q one, with H_v(max)⁼ 55 kg./sq.mm. for the pure

Card 1/3

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

S/659/62/008/000/021/028 1048/1248

The problem of high-temperature diffusion ...

alloy quenched from 450° in water. This indicates that the increase in ρ is not caused by excessiv vacancies in the alloy, and that the P from the P-containing alloys combines with the vacancies reducing their mobility. Both ρ and H_v in the alloys quenched from 700° C are lower than in non-quenched specimens, indicating the existence of a highly ordered structure in the alloys quenched from hightemperatures. During annealing, ρ decreases with time at the annealing temperature, the decrease in the pure alloys being much larger than in the P-containing ones, i.e., the stability of the quenched state is much higher in P-containing alloys. The energy of activation of the diffusion processes increases with the P content of the alloy and reaches 35 ± 3.7 kcal./mole in an alloy containing 0.06% P, which is almost twice the value for the pure Cu-Al alloy; due to the decreased mobility of vacancies in the P-containing alloys. Diagrams show the effect of temperature on the electric resistivity and internal friction in the alloys. In the friction

Card 2/3

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

S/659/62/008/000/021/028 I048/I248

The problem of high-temperature diffusion ...

diagram for pure alloy maxima at 260°C and 520°C are associated with the motion of the constituent atoms, and with stress relaxation on the grain boundaries respectively. The internal friction in pure alloy specimens quenched from 700-900°C and in the alloys containing P is much lower than in the annealed pure alloy; this proves that the specimens quenched from high temperatures possess an ordered structure, and that the P from the P-containing alloys reduces the mobility of defects within the alloy. There are 3 figures.

Card 3/3

APPROVED FOR RELEASE: 07/12/2001

•			<u>Ц</u> ц833	•	
3,5120			s/560/62/000/0 A001/A101	14/004/011	
AUTHORS :	Yakovleva, AV., <u>Kudryavt</u> V. F., Kachalov, V. P., Ku Iozenas, V. A.	seva, L. A., Brit znetsov, A. P., I	tayev, A. S., G Pavlenko, N. A.	erasov,	
TITLE:	A spectrometric investigat tude	ion of the ozone	layer up to 60	-km alti-	
SOURCE:	Akademiya nauk SSSR. Iskus 57 - 68	stvennyye sputnik	ci Zemli. no.	14, 1962,	
Götz, or by rockets.] measurement rocket and light scatt	The vertical distribution aviolet radiation of the Sun, direct measurements from th In order to compare these ind ts of altitude ozone distribu with a ground spectral equip tered from the sky zenith, we notoelectric spectrophotomete	using reversal e e ground surface irect and direct tion with a spect ment for observat re carried out ir	offect discover and from ballo methods, simul trograph lifted tions of ultrav the USSR on Ja	ed by ons or taneous by a lolet ine 15,	X
Card 1/5	1				
					2 2 2
		1			

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"

· • • •

CIA-RDP86-00513R000827220010-9

s/560/62/000/014/004/011

A001/A101

A spectrometric investigation of the...

quartz prisms was used for observations from the ground surface. The amount of ozone in various atmospheric layers, total amount and the altitude of the gravity center of the ozone layer from these observations are shown in Table 1. The first ascent of a rocket for ozone measurements took place on July 19, 1955. It turned out that all ozone was concentrated in two layers: 13 - 26 km and 50 - 64 km, between which no ozone was detected. The second rise was on October 1, 1958, at a Sun's declination of 19°. The third attempt was made on June 15, 1960. A diffraction spectrograph provided with a tracking device was lifted on a geophysical rocket. The results of Soviet measurements are compared with American ones and presented graphically in Figure 5. Comparison between indirect determinations and measurements from rockets is shown in Figure 6; the agreement between them was found to be satisfactory, but the final answer on their equivalence can be obtained only after further investigations with rockets. There are 6 figures and 3 tables.

SUBMITTED: December 12, 1961

Card 2/5

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

i .

s/560/62/000/014/004/011 a001/a101

A spectrometric investigation of the...

Table 1. Concentration of ozone in various atmospheric layers according to data of ground medsurements on June 15, 1960

I IN THE FORMERS AND IN THE PRODUCT OF THE AND THE AND THE PRODUCT OF T

A	ltitude	of	layers	3, km	Con	tent of o layer,		n the		ent of or 1 km, cm		r	· · · ·	
	0 12 24	- 1 - 2 - 3	24		-	0.0257 0.1130 0.1470	1	<u>م</u>	· · ·	0.00214 0.00942 0.01225				-
	36 42	<u> </u>	2 8			0.0126 0.00348 0.000970	· · ·	•		0.00210 0.00058 0.00016		•		X.
						ontent is er of the	0.303		is at		-			•
•								·				•	•	
	•											•		
Car	d 3/5			•	•	•		:	· · ·	• • •				:
										•		•		

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9



APPROVED FOR RELEASE: 07/12/2001

A spectrometric investigation of the...



APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9"

PANIN, V.Ye.; KUDRYAVTSEVA, L.A.; SIDOROVA, T.S.; BUSHNEV, L.S.

Intercrystallite internal adsorption in Cu-Al solid solutions during hardening from high temperatures. Fiz. met. i metalloved. 12 no.6:927-928 D '61. (MIRA 16:11)

1. Sibirskiy fiziko-tekhnicheskiy institut.

APPROVED FOR RELEASE: 07/12/2001

		⁻
	B.S. Neporent, V.F. Belov, O.D. Dmitriyevskiy, G.A. Zaytsev, V.G. Kastrov, M.S. Kiseleva, L.A. Kudryavtseva, and I.V. Patalakhin.	
	Experience gained in direct measurement of the distribution of the humidity of the atmosphere by means of the spectral method. (Opyt pryamogo izmereniya vysotnogo raspredeleniya vlazhnosti atmosfery spektral/nym metodom).	
PERIODICAI	1: Izvestiya Akademii Nauk, Seriya Geofizicheskaya, 1947, No. 4, pp. 552-555 (USSR)	
	Some recent American Communications (Refs. 5-7) refer to investigating the spectrum of the Sun in the infrared range during flights in the upper layers of the atmosphere, in which observation of absorption bands of water vapours are mentioned and views are expressed on the possible concentrations of these vapours. In this japersthe results are described of the first attempts to determine directly the content of water vapour in the atmosphere by means of specially designed spectral apparatus. The operation of the instrument was described in detail by Neporent, B.S. et alli (Ref. 8); it consists of a step-wise vacuum monochromator with a diffraction lattice of 300 lines/mm of the zize 50 x 70 mm which subdivides the infrared range	
Card 1/4		

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"

istrication

49-4-21/23

Experience gained in direct measurement of the distribution of the humidity of the atmosphere by means of spectral method.

into five sections (1.24, 1.40, 1.50, 1.88, 2.2 μ), the wave lenths 1.40 and 1.88 μ belong to the absorption bands of water vapour; utilization of two bands is provided for extending the range of the measured water concentrations. The Wave-lenghts 1.24, 1.50 and 2.2.% fall between individual bands and serve fro determining the initial intensities in the bands 1.40 and 1.88 % by means of interpolation. The linear dispersion of the instrument equals 100 a/mm; the entry and exit slots are 1.5 mm wide. Illumination of the input slot is effected by means of a source with a circular emanating surface fitted with a dispersion plate of magnesium oxide. Experiments carried out at ground level showed that, in the operating range of the spectrum, the role of radiation scattered by the sky is insignificant. The measured radiation is modulated with a frequency of 850 c.p.s. using as a receiver of the radiation a cooled PbS photo resistance. After amplification, the signals are transmitted by radio to the ground. In addition to the basic signals transmitted in the operating position of the diffraction lattice (which Card 2/4 is turned by means of a cam), calibrating signals are

APPROVED FOR RELEASE: 07/12/2001

CHICKING AND AND CONTRACT OF BELLEVILLE

CIA-RDP86-00513R000827220010-9

49-4-21/23

Experdence gained in direct measurement of the distribution of the humidity of the atmosphere by menas of the spectral method.

transmitted and also signals from the pressure gauge, etc. the respective switching is effected by means of a commutator which is coupled with the cam for scanning of the spectrum. The full cycle of the instruments is 2.5. secs and, therefore, the slow changes of the location of the scattering plate of the light source relative to the Sun's rays caused by random oscilations of the instrument during free flight should not effect the results of determination of the relative intensities of the adjacent parts of the spectrum. The results are plotted in graphs. Fig. 1 shows the calibration curve obtained on the basis of the exponential law; Fig. 2 shows the graduation curve obtained on the basis of the square root; Fig. 3, shows a part of the absorption band of water vapour (1.42)measured on the spectrometer with altitude scanning, whereby the spectral width of the slot is shown at the boottom part of this Figure. Fig. 4 shows the dependence of the absorption function A on the altitude (up to 17 km) for the band 1.4 μ ; Fig. 5 shows the dependence of the quantity of water precipitating along the vertical on the height Card 3/4 reached by the instrument; Fig. 6 shows the dependence of

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9



APPROVED FOR RELEASE: 07/12/2001

	KUDRY	тиај	-SEYA, L. A. AID P - 2495
•	Subject	:	USSR/Meteorology
	Card 1/2	Pub.	71-a - 5/26
	Authors	:	Kondrat'yev, K. Ya., and Kudryavtseva, L. A., Kands. Phys. and Math. Sci.
	Title	:	On the albedo of the sea surface
	Periodical	:	Met. 1 Gidro., 3, 25-27, My-Je 1955
	Abstract	:	The computation of the albedo of large bodies of water is usually made theoretically on the basis of the Fresnel formula. The article reports on experiments in calculating the albedo of the calm sea surface under a cloudless sky for diffused and total radiation disregarding the inverse diffusion factor by computing the height of the sun and the diffusion angle at any given moment. The authors maintain that this method is more accurate than a theoretical analysis according to the Fresnel formula. A table giving albedo data and a diagram showing the dependence of the albedo



USER/Physics	YAVTSEVA, L.A.
Card 1/1	Pub. 127 - 9/12
Authors	Kondrat'ev, K. Ya.; Kudryavtseva, L. A.; and Manolova, M. P.
Title	Distribution of the energetic (thermal) and light intensities of dispersed radiation of the atmosphere over the celestial vault
Periodical	Vest. Len. un. ser. mat. fiz. khim. 5, 119-128, May 1955
Address of the second second	그에는 사람이 가지 않는 것 같은 것을 잘 들었는 것이 그 것 같아. 그는 것이 가지 않는 것 같아. 가지 않는 것이 것 같아. 가지 않는 것이 같아. 가지 않는 것이 같아. 가지 않는 것이 같아.
Abstraot	An experimental study of the distribution of the thermal (energetic) and light intensities of the atmosphere over the celestial vault is described. A pyranometer of Yanishevskiy was used for measuring the thermal intensity of dispersed radiation and the light intensity was measured with a photo- selenium element. Eight references: 1 German and 7 USSR (1936-1954). Graphs; tables.
Abstract Institution	light intensities of the atmosphere over the celestial valit is described. A pyranometer of Yanishevskiy was used for measuring the thermal intensity of dispersed radiation and the light intensity was measured with a photo- selenium element. Eight references: 1 German and 7 USSR (1936-1954). Graphs; tables.
	light intensities of the atmosphere over the celestial valit is described. A pyranometer of Yanishevskiy was used for measuring the thermal intensity of dispersed radiation and the light intensity was measured with a photo- selenium element. Eight references: 1 German and 7 USSR (1936-1954). Graphs; tables.



APPROVED FOR RELEASE: 07/12/2001

76001 24.7000 SOV/70-4-5-23/36 Vasil'yev, L. I., Zaring, K. L., Kudryavtseva, L. A. AUTHORS: Multiple Slips in Zinc at Indoor Temperatures TITLE: Kristallografiya, 1959, Vol 4, Nr 5, pp 768-772 (USSR) PERIODICAL: It has been known that zinc crystals deformed at indoor **ABSTRACT:** temperatures develop slip parallel to (0001), [2110] while at higher temperatures the slip takes place parallel to (0110), [2110]. In special cases of the crystal orientation with respect to the stress, slips have also been developed in (1122), [1123] and (0111), [?] directions. The authors, in deforming the specimens of polycrystalline zinc rods at indoor temperatures found that some grains slip in_two different directions, i.e., parallel to (0001), [2110] and (0111), [2110], or even in three directions. These cases are called multiple slips. Both slips take place in the direction of the shortest interatomic spacing $\begin{bmatrix} 2110 \end{bmatrix}$. The specimens, 50 mm long and 1.5 mm in diameter, 99.8% Zn or purer, were annealed at 140° C in oil bath for one hour, cooled Card 1/4

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

Multiple Slips in Zinc at Indoor Temperatures

76001 sov/70-4-5-23/36

off, electropolished in the aqueous solution of orthophosphoric acid, plastically deformed by stretching with device UPR at the rate of 0.03% to 27%/min, and studied under interference microscope MII-4. Larger grains had clearer and more variegated slips. No grain was deformed uniformly; some regions of a grain remained undeformed. Some grains were broken into blocks circumscribed by differing slip planes while other grains had one or two sets of glide bands. Each set of kink bands showed offsets of about the same height and form pointing to their identical compositions of a similar number of glide planes. The interplanar angle arphi , between basal (0001) and pyramidal (01I1) slip planes proved in the majority of cases to be close to its theoretical value of 65° . The development of pyramidal slip planes in polycrystalline specimens, while they remain suppressed in single crystals, apparently is the effect of the adjacent grains and of the extremely nonuniform deformation of the polycrystalline specimens. Under these conditions, the stress within some grains apparently

Card 2/4

APPROVED FOR RELEASE: 07/12/2001

Multiple Slips in Zinc at Indoor Temperatures

76001 sov/70-4-5-23/36

exceeds the critical point at which the pyramidal slip planes begin to develop. Larger grains offer better opportunity for the development of pyramidal slips, since small grains can more easily be turned and released of stresses. It is still not verified whether a rapid deformation contributes to the development of pyramidal slips. Additional slip planes were also observed in polycrystalline specimens constituted of aluminum and brass grains and near the grain boundaries of di- and tricrystalline aluminum. There are 3 figures; and 12 references, 7 U.S., 2 Soviet, 1 U.K., and 1 Canadian. The 5 most recent U.S. references are: Ojala, T., et al., J. Metals, 8, 10, 1344, 1956; Gilman, J. J., Acta Metallurgica, 3, 2, 209, 1955; Gilman, J. J., J. Metals, 8, 10, 1326, 1956; Boas, W., Ogilvie, G. J., Acta Metallurgica, 2, 5, 655, 1954; The U.K. reference is: Bell, R. L., Cahn, R.W. Proc. Roy. Soc. A, 239, 1219, 494, 1957.

Card 3/4

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

KUDRYAVTSEVA, L. A.; PANIN, V. Ye.

Temperature dependence of internal friction in Cu-Al solid solutions. Izv. vys. uch. zav.; fiz. 3:93-98 '62. (MIRA 15:10)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosu-darstvennom universitete imeni Kuybysheva.

(Copper-aluminum alloys-Thermal properties)

•

APPROVED FOR RELEASE: 07/12/2001

NY FERRETARY AND THE PARTY OF THE PARTY.

PANIN, V.Ye.; ZENKOVA, E.K.; FEDIN, V.P.; KUDRYAVTSEVA, L.A.

Diffusion transformations in solid solutions at high temperatures. Issl.po zharopr.splav. 8:161-168 *62. (MIRA 16:6) (Copper-aluminum alloys--Metallography) (Metals at high temperatures)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9"



NUTHORS:	Kudryavtseva, L.A., Panova, L.M., Popov, L.Ye. and Sukhovarov, V.F.
NITLE:	The effect of various atomic defects on the kinetics of formation of the K-state in nickel-molybdenum alloys
PERIODICAL:	Fizika metallov i metallovedeniye, v. 15, no. 3, 1963, 451 - 455
atomic defector ecause the increase in aterial and of Ni and Mo of dislocate formation of	The object of the present investigation was to eluci- ure of the low-temperature stage of relaxation of its in cold-worked nickel and its alloys. Experiments ed on a Ni-10% Mo alloy chosen for this purpose, formation of the K-state accompanied by a large resistivity took place in quenched specimens of this because of the great difference in the atomic radii , which made it possible to assume that the movement ed atoms would make little, if any, contribution to the the K-state. The variation in electrical resistivity ted and quenched specimens during steplike, low-

CIA-RDP86-00513R000827220010-9

S/126/63/015/003/017/025 E193/E383 The effect of various ... temperature annealing was studied and the temperature-dependence of the internal friction of cold-worked, annealed and quenched specimens was determined. The results of electrical resistivity measurements are reproduced in Fig. 1, where $\mathcal{O}(\mu\Omega.cm)$ is plotted against the annealing temperature of cold-worked (curve 1). and quenched (curve 2) specimens. It will be seen that the lowtemperature stage of the formation of the K-state was clearly defined in the cold-worked specimen and not revealed at all in the quenched alloy. The graph reproduced in Fig. 2, where the actiquenched alloy. The graph reproduced in rig. 6, where the acti-vation energy (U, kcal/mole) of the process is plotted against temperature (°C) shows that the average value of U = 22 kcal/mole in the 50 - 150 °C interval increased at the end of the lowtemperature stage of the process, corresponding to the deflection point on the curve shown in Fig. 1. Since, as has been stated above, dislocated atoms in the Ni-Mo alloy should not make any significant contribution to the formation of the K-state, the lowtemperature stage of this process should be associated with atomic defects of a different type. The nature of these defects can be inferred from the results of internal-friction measurements Card 2/4

APPROVED FOR RELEASE: 07/12/2001

nter en la seconda de la se Seconda de la seconda de la Seconda de la seconda de la				
The effect of various		E193/E385	015/003/017/02	5
reproduced in Fig. temperature (°C) for quenched from 950 °C deformation (curve 3 the cold-worked spec low-temperature peak the electrical resis during annealing) wa about 120 °C was att configurations of di al (Phil. Mag., 1960	(curve 2) and (curve 2) and (). It will be imen had two pe at about 50 °C tivity of the curve s associated will ributed to the	ly cooled from subject to cold seen that inter aks. It was po (1.e. the temp old-worked mate th vacancy pair change in orien	950 °C (curve plastic nal friction stulated that erature at whi rial increased s. The peak a tation of spec	of the lch i at
ASSOCIATION: SIB	irskiy fiziko-to berian Physicoto	khnicheskiv in	* * * ****	'es.
	y 25, 1962			
Card 3/4				

CIA-RDP86-00513R000827220010-9

VAVILOV, P.P.; KUDRYAVTSEVA, I.A.

Vasilii Nikolaevien latkan on his diary on the only to the Peabora. Izv. Komi fil. Geog. ob.va SSSR no. 7. 70-75 164. (MIRA 18-5)

APPROVED FOR RELEASE: 07/12/2001

ZAV'YALOV, S.I.; GUNAR, V.I.; KULRYAVTSEVA, L.F.

Chemistry of dihydroresorcinol. Report No. 6: New steps in the synthesis of phenanthrene derivatives based on dihydroresorcinol. Izv. AN SSSR.Otd. khim. nauk no.11:2009-2013 N '60.

(MIRA 13:11) 1. Institut organicheskoy khimii im.N.D.Zelinskogo AN SSSR. (Phenanthrene) (Resorcinol)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9



APPROVED FOR RELEASE: 07/12/2001

KONDRAT'YEVA, G.V.; KUDRYAVTSEVA, L.F.; ZAV'YALOV, S.I.

Synthesis of 2,6-dimethyl-2-cyano-5-(p-methoxyphenyl)-lcyclohexanone. Zhur. ob. khim. 31 no. 11:3621-3626 N '61. (MIRA 14:11')

ender Leonales and R

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR. (Cyclohexanone)

APPROVED FOR RELEASE: 07/12/2001

ZAV'YALOV, S.I.; KONDRAT'YEVA, G.V.; KUDRYAVTSEVA, L.F.

THE PARTY OF THE

B-Dicarbonyl compounds. Part 12: Carrying out the nucleophilic reactions of dihydroresorcinol and its derivatives in solvents of low polarity. Zhur. ob. khim. 31 no. 11:3695-3700 N '61. (MIRA 14:11)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR.

.

(Resorcinol)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9"

- 53

and the second second second

2月1日日本市场市场中国大学家

KONDRAT'YEVA, G.V.; KUDRYAVTSEVA, L.F.; ZAV'YALOV, S.I.

Synthesis of trans-8-methyl-5-(p-methoxyphenyl)-l-hydrindanone. Izv.AN SSSR.Otd.khim.nauk no.3:526-527 Mr '62. (MIRA 15:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Indanone)

APPROVED FOR RELEASE: 07/12/2001

••••

GUNAR, V.I.; KUDRYAVTSEVA, L.F.; ZAV'YALOV, S.I.

B-Dicarbonyl compounds. Report No.16: Alkylation of dipotassium derivatives of cyclic B-dicarbonyl compounds in liquid ammonia. Izv.AN SSSR.Otd.khim.nauk no.8:1431-1435 Ag '62. (MIRA 15:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Carbonyl compounds) (Alkylation)

APPROVED FOR RELEASE: 07/12/2001

manuel and a second second

SMIYAN, Yu.P., veterinarnyy vrach; ZUBTSOVA, R.A.; KUDRYAVTSEVA, L.F.

Active and passive immunization of ducklings against viral hepatitis. Veterinariia 41 no.3:40-42 Mr 164. (MIRA 18:1)

1. Ukrainskaya respublikanskaya veterinarnaya laboratoriya Ministerstva sel'skogo khozyaystva UkrSSR (for Smiyan). 2. Glavnyy veterinarnyy vrach Gosudarstvennogo nauchno-kontrol'nogo instituta veterinarnykh preparatov (for Zubtsova).

APPROVED FOR RELEASE: 07/12/2001
"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9

L 13512-6] EPF(c)/EPR/EWP(j)/EWT(m)/BDS AFFTC/APGC/ASD Pr-4/F Pc-4 RM/IM/MW/MN	e-4 18
ACCESSION NR: AP3002774 S/0204/63/003/0343	A
AUTHOR: Kudryavtseva, L. G.; Litmanovich, A. D.; Topchiyev, A. V.; Shter	m, V. Ya.
TITLE: The fractionation of the methylmetacrylate copolymer with styrole	1
SOURCE: Neftekhimiya, v. 3, no. 3, 1963, 343-347	
TOPIC TA(S: copolymer, fractionation methylmetacrylate, styrole, n-hexar methanol, toluol, acetonitrile-toluol, n-hexane, styrole	18,
ABSTRACT: The fractionation of <u>methylmetacrylate copolymer</u> with styrole the two system solvent-precipitator which are essentially different in sensitivity to the composition of copolymer has been investigated. The t systems beleated for the fractionation of copolymer of the composition Alpha = 0.23 where Alpha = milar composition of styrole links in the copo were Eta-hexane plus metanol in the ratio 0.8 : 1 in toluol, and acetonit toluol. The values of differential functions w (Eta) and integral functi I (Eta) (where Eta is the characteristic viscosity) of the weight distrib of the original sample according to (Eta) are calculated from the fraction data. The values W (Eta) and I (Eta) essentially depend on the character	CWO Dlymer, Srile - Lon Doutlon Doutlon
Card 1/2	

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9

.....

Second Second

L 13512-61		
molecular weight distribut: toluol has a bimodel curve	system. In the system Eta - h w (Eta) was obtained correspond ion of the initial copolymer. w (Eta). These results agree to ig. art. has: 2 tables and 3 gr	ing to the expected The system acetone -
	tekhimicheskogo sinteza AN SSSB	
SUR CODE: CH	NO REF SOV: 002	OTHER: 012
	이 좀 물건들이 가지 않는 것이 가지 않는 것이 많이 많이 많이 했다.	

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"

ala construction de la secondada de la seconda

DAVILSION, A.W., KUDRYAVTSEVA, L.G.

Investigating changes of the flame temperature in tubular kilns with the help of a modeling machine. Izv. vys. ucheb. zav.; tavet. met. 8 no.5:89-94 465. (MIRA 18:10)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra obshchey metallurgii.

APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001

VOYTINSKIY, N.S., doktor tekhnicheskikh nauk; VERTEBNYY, P.I., redaktor; SARMATSKAYA, G.I., redaktor; KUDRYAVTSEVA, L.K., tekhnicheskiy redaktor

[Intra-plant transport in sawmills and lumber processing mills] Vnutrizavodskoi transport na lesopil'nykh i derevoobrabatyvaiushchikh predpriiatiiakh. Moskva, Goslesbumizdat, 1954. 522 p. [Microfilm] (MLRA 7:10) (Sawmills)

APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9

	D
L 5172-66 ACCESSION NR: AT5022450 loop was cooled by <u>sodium</u> while a sodium-potassium compound was used as coolant for the secondary core loop as well as for fuel elements placed within lateral shields. The core model consisted of 37 tubes of which 34 tubes were provided with special welded fins. The shield model had an assembly of 19 tubes. A detailed description of the experiments was given and the results were analyzed. The irregular- ities in temperature distribution were graphically presented in 10	
figures. It is proposed to resume the research on temperatures by using new models because the evaluation of temperature ranges and gradients on outer peripheral elements was not sufficiently reliable. Introductory information is also given on BN-350 reactor as well as on some heat transfer problems. Orig. art. has: 3 diagrams and 10 graphs.	
ASSOCIATION: none	"
SUBMITTEI): 00 BNCL: 00 SUB CODE: NP	
NO REF SCV: 000 OTHER: 000	
Card 2/2 hd	

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"

TKACHENKO, F.K., kand.tekhn.nauk; ZUBAREV, V.F., doktor tekhn.nauk; KUDRYAVTSEVA, L.N., inzh. Mechanism of the formation of graphitization nuclei in prehardened white cast iron. Mashinostrcenie no.1:50-53 Ja-F '62. (Cast iron-Metallography)

APPROVED FOR RELEASE: 07/12/2001

Effect of heat treatment on the graphitization of white cast iron. Mashinostroenie no.6:21-24 N-D '62. (MIRA 16:2)

1. Zhdanovskiy metallurgicheskiy institut. (Cast iron--Heat treatment)

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9



APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"



APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001

中非中国和政府公司公司的

的现在分子,这些是一个的问题。

KUDRYAVISEVA, L.S.; SUSAREV, M.P.
Liquid - vapor equilibrium in the system acetone- chloroform - hexane at temperatures 35, 45, 55° and pressure 760 mm. Hg. Zhur. prikl. khim. 36 no.8:1710-1716 Ag '63.
Differential equation of the curves of multiple distributions (constancy of the relative volatility) of two components of a ternary system solution - ideal vapor. 1717-1721 (MIRA 16:11)
1. Leningradskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 07/12/2001

KUDRYAVTSEVA, L.S.; SUSAREV, M.P.

Liquid - vapor equilibrium in the system ethyl alcohol chloroform - hexane at temperatures of 55, 45, 35° and pressures of 760 mm.Hg. Zhur. prikl. khim. 36 no.9:2025-2030 D '63. (MIRA 17:1)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220010-9

KUDRYAVTSEVA, L.S.; SUSAREV, M.P.

Differential equation of multiple distribution curves (constance of relative volatility) of the two components of a ternary system solution - ideal vapor. Zhur. prikl. khim. 36 no.10:2239-2243 0 '63. (MIRA 17:1)

j.

APPROVED FOR RELEASE: 07/12/2001

en la presenta de la companya de la

SUSAREV, M.P.; KUDRYAVTSEVA, L.S.; MATUSHKEVICH, E.A.

Contractive and a contractive contractive and a provide the second second second second second second second se

Concentration regions of the location and temperature shift of ternary azeotropes. Zhur. fiz. khim. 37 no.12:2672-2677 D '63.

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.

APPROVED FOR RELEASE: 07/12/2001

SUSAREV, M.P.; KUDRYAVTSEVA, L.S.

The second s

Concentration regions of location and temperature shift of ternary azeotropes. Part 2. Zhur. fiz. khim. 38 no.1:47-51 Ja¹64. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.

APPROVED FOR RELEASE: 07/12/2001

STREET, ST

KUDRYAVTSEVA, L.S.; SUSAREV, M.P.

Concentration regions of the location and temperature displacement of ternary azeotropes. Fart 3. Zhur. fiz. khim. 38 no.2:345-350 F '64. (MIRA 17:8)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.



APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9
<u>L 13329-66</u> EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG
ACC NR: AP6002583 SOURCE CODE: UR/0286/65/000/023/0076/0076
INVENTOR: Kudryavtseva, L. V.; Morokhov, M. I.; Kharlomova, K. N. 37
INVENTOR: <u>Kudryavtseva, L. V.; Morokhov, M. I.; Kharlomova, K. N.</u> ORG: none TITLE: Method of plating <u>titanium</u> with <u>platinum</u> . 7,55 All-Union Scientific Research and Design Institute of Chemical Machinery (Vse- soyuznyy Nauchno-issledovatel'skiy 1 konstruktorskiy institut khimicheskogo mashino- stroyeniya)]
SOURCE: Byulleten' izobreteniy i tovarnykh znekov, no. 23, 1965, 76
TOPIC TAGS: titanium, titunium-plating plafinum, electropelating, m. tal fust trained ABSTRACT: This Author Certificate introduces a method for electrolytic plating of titanium followed by heat treatment of the coating. To obtain high-quality plating, the deposition is carried out in an electrolyte containing (g/1) 10-15 chlorplatinic acid, 240-420 sodium nitrite, and 1.0 -1.5 ammonium hydroxide. At 60-70C, the pH is 7.5-8.0 and the dg, 2-10 a/dm ² .
SUB CODE: 13,11/ SUEM DATE: 08Jan63/ ATD PRESS: 4158
<u>Card 1/1 FW</u> UDC: 621.357.7:669.231.:669.295

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220010-9"

"APPROVED FOR RELEASE: 07/12/2001

PERSONAL PROPERTY IN CONTRACTOR OF THE PERSON OF THE PERSO

CIA-RDP86-00513R000827220010-9

L 6982-66 EPF(a)/EWP(a)/EWT(m)/EWP(1)/EWP(b)/EMA(d)/EWP(t) LJP(c) HJW/JD/JG/WB ACC NR: AP5022657 SOURCE CODE: UR/0365/65/001/005/0500/0504 AUTHOR: Kudryavtseva, L. V.; Kharlamova, K. N.; Morkhov, M. I. 576 ORG: All-Union Research and Construction Institute of Chemical Machine-Building ${\mathcal B}$ (Vsesoyuzniy nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo TITLE: The platinum plating of Ti and Ta electrodes in amino-nitrite electrolytes SOURCE: Zashchita metallov, v. 1, no. 5, 1965, 500-504 TOPIC TAGS: titanium, tantalum, metal plating, platinum, electrolyte deposition ABSTRACT: The deposition of platinum on Ti and Ta electrodes was investigated. The electrodes were made of $BT-1'^{2}Ti$ and TH-3 Ta, and had dimensions of 1x3x100 mm. These were initially cleaned by degreasing and etching, and subsequently used as anodes in two different amino-nitrite electrolytes, coded I and II: I - Pt (in the form H2PtCl6.6H20), 10 g/1; NaNO2, 280 g/1; NH4NO3, 100 g/1; NH4OH (in the form of a 10% solution), 50 g/l; and II - Pt (in the form H2PtCl6.6H2O), 10 g/l; NaNO2, 100-280 g/l; NH_4OH (in the form of a 10% solution), 1-2%. During platinizing, the Card 1/3 UDC: 621.357.7 2001 18:11

APPROVED FOR RELEASE: 07/12/2001

North States and States

CIA-RDP86-00513R000827220010-9

L 6982-66 ACC NR: AP5022657

cathode current density for I and II varied from 2 to 10 amp/dm², and the temperature from 30 to 90°C. The following variables were studied for electrolytes I and II: the internal stress in the coatings, cathodic potential during deposition, the operative durability of the electrolytic solutions, current efficiency, and the porosity and dispersive quality of the Pt coating. In general, electrolyte II per-forms better - the optimum platinizing conditions are: temperature, 60-70°C; cur-rent density, 2-10 amp/dm² for the platinizing of Ti and 203 amp/dm² for Ta. Curves are given for internal stress (kg/cm^2) as a function of temperature of electrolization, and cathode current density. The change in potential with time is also shown for Ti in electrolytes I and II, and for Ta in electrolyte II, both at 70°C and at a current density of 2 amp/dm². Data on the dependence of cathodic potential during platinization in II vs the duration of electrolization for different temperatures is given for Ti. The cathodic potentials decrease with time up to a cut-off point (usually about 2-3 min), while the curve is displaced downwards with increase in temperature. The cathodic potential vs time curve for Ta is higher than that for Ti. The strength of the cohesive Pt coating can be increased by a factor of twenty-five, if the Ti and Ta electrodes are heat treated after platinization. The cohesive strength of Ti changes little in the temperature range 100-700°C (1,2 hrs), but in the interval 750-790°C (1,2 hrs) it increases from 0.3-1.4 kg/mm² to a maximum at

Card 2/3 Não

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001

STATES AND A

ISHLINSKIY, Aleksandr Yul'yevich, akademik; KUDRYAVTSEVA, L.V., red. izd-va; GOLUB', S.P., tekhn. red.

[Mechanics of gyroscopic systems]Mekhanika giroskopicheskikh sistem. Moskva, Izd-vo Akad. nauk SSSR, 1963. 482 p. (MIRA 16:2)

(Cyroscope)

APPROVED FOR RELEASE: 07/12/2001

IN THE REPORT OF T

in the second second second

PERLIN, I.L., doktor tekhn. nauk, prof., otv. red.; KUDRYAVTSEVA, L.V., ved. red.; SUSHKOVA, L.A., tekhn. red.

> [Metalworking by pressure; drawing. Terminology] Obratictka matallov davleniem; volochenie. Terminologila. Mosiwa, Izdvo Akad. nauk SSSR. 1962. 15 p. (Its; Sborniki rekomenduemykh terminov, no.61) (MIRA 16:3)

> 1. Akademiya nauk SSSR. Komitet nauchno-tekhnicheskoy terminologii.

(Drawing (Metalwork)) -- Terminology)

APPROVED FOR RELEASE: 07/12/2001

RAVICH, Mank Hantsovieb, prof., doktor tekhn. nauk; KUDHYAVTSEVA, L.V., red.

> [Simplified methods of heat-engineering calculations; heat engineering calculations on the generalized constants of combustion products] Uproshchennaia metodika teplotekhnicheakikh raschetov; teplotekhnicheskie raschety po obobshchennym konstantam produktov gorenila. Izd.4., dop. Moskva, Izd-vo "Nauka," 1964. 365 p. (MIRA 17:4)

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

KIDRYAVISEVA, M. D.

Kudryavtseva, N. D.

"Oxyhemometric Investigation of the Saturation by Oxygen of the Arterial Blood of Children Afflicted with Whooping Cough." Leningrad Pediatrics Medical Inst. Leningrad, 1955, (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

APPROVED FOR RELEASE: 07/12/2001

CHERNOVSKAYA, Ye.N.; PASTUKHOVA, N.M.; BUYNEVICH, A.G.; KUDRYAVTSEVA, M.E.; AUNIN'SH, E.A.; SIMONCV, A.I., red.; NEDOSHIVINA, T.G., red.

Sec. G

[Hydrochemical regime of the Baltic Sea] Gidrokhimicheskii rezhim Baltiiskogo moria. Leningrad, Gidrometeoizdat, 1965. 167 p. (MIRA 18:12)

APPROVED FOR RELEASE: 07/12/2001

MUKHAMEDOVA, L.A.; BAYBUROVA, M.Kh.; MALYSHKO, T.M.; KUDRYAVTSEVA, M.I. Synthesis and properties of dialkylepoxyhexabydrophthalates. Neftekhimila 1 no.1:88-92 Ja-F '61. (MIRA 15:2)
1. Institut organicheskoy khimil AN SSSR, Kazan'. (Esters) (Phthalic acid)

APPROVED FOR RELEASE: 07/12/2001

 ~ 1.2