1

CC NR: AT6020432 at the electron ion currents emerging from the plasma are equal to the current en- ring the plasma. The observation of outflowing currents has shown that for suffi-
ently long plasma-beam interaction of outflowing currents has shown that for suffi- bisisted solely of ions. The investigation of the frequency distribution of the plasma and of instabilities. The most favorable conditions for generating beams of ions the energies up to 1 kev are given. The study of excitation frequency change with erated in the experiment were near the ion-acoustic frequencies. Further study of generation of low frequencies is needed. Orig. art. has: 6 figures, 1 table. CODE: 20/ SUBN DATE: 11Nov65/ ORIG REF: 017/ OTH REF: 003

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L 06311-67 LUP(0) AT/CD	
ACC NR: AT6020433 (N) SOURCE CODE: UR/0000/65/000/0006/0043	
AUTHOR: Kornilov, Ye. A.; Kovpik, O. F.; Faynberg, Ya. B.; Bolotin, L. I.; Kharchenko,	
I. F.	
48	
ORG: none Pj+1	
TITLE: Time characteristics of high frequency oscillations during the development of instabilities in the plasma-beam system	
SOURCE: AN UkrSSR. Vzaimodeystviye puchkov zaryazhennykh chastits s plazmoy (Inter- action of charged particle beams with plasma). Kiev, Naukova dumka, 1965, 36-43	
TOPIC TAGS: HF oscillator, plasma beam interaction, plasma electron density, criti- cal magnetic field	1
ABSTRACT: Spectral characteristics and time variations of oscillations excited in a plasma by a traversing electron beam are studied. A 4 mm diameter beam (80 mA) was injected into a plasma in a magnetic field (0-2 koe). Beam energy varied from 2 to 5 kev. The beam-plasma interaction region was 40 cm long and the plasma electron density was 10^{12} cm ⁻³ . Variations in the parameters of the experiment led to the conclusion that when conditions favorable to beam instability growth (a brief discussion of these is given based on the literature cited in the bibliography) are established, the excitations occur which have maxima at frequencies corresponding to half-integral multi-	
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Access I	ION NR: AP50207	VU.55	44.55 UR/	0057/65/035/008/1372/13	67
WTHOR:	Kornilov, Ye	. A.; Kovpik, O.I	·; Faynberg, Ya	B.; Karchenko, I.F.	145
TITLE:				ment of beam instabilit	y
OURCE :	Zhurnal tekh	nicheskoy fiziki	H,44,5, no. 8,	1965, 1372-1377	
OPIC T Oscilla	MGS: plasma i ation, electron	nstability, plasm beam, magnetic i	na heating, plas Hield, air, hydr	ma beam interaction, pl Ogen, argon	.85m8
neter 1 Liamete the pre letermi letunin	l0-50 mA beam o er glass tube c esence of a 0-2 lned with Langm ig of a 3 kMc/s	f 2-5 keV electro ontaining air, an kOe longitudinal uir probes, with ec resonant cavit	ons traversing t gon, or hydroge l megnetic field a 10 Mo/sec in ty. Oscillation	on of plasma by a 3-5 m he 40 cm length of a 10 n at different pressure . The plasma density w terforometer, and by th s excited in the plasma) ch es in 189 10 1 wers
pectra alue t	al analyzer and the plasma dens	with resonance w ity was close to	vavemeters. At the beam densit	d were investigated wit pressures below a criti y and oscillations near s increased through the	cal the
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CIA-RDP86-00513R000825630008-9

L 2488-66 ACCESSION NR: AP5020720

cal value the plasma density increased by two or three orders of magnitude (ionizations of 10% were achieved in argon) and oscillations were observed near the Langmuir frequency, which at the plasma densities reached was higher than the Larmor frequency. The plasma density pulsated over a range of 50% at a frequency between 10 and 100 kc/sec. In the region of instability (which is ascribed to the Cerenkov effect), the electron beam lost nearly all its energy to the plasma. The authors believe that their results together with those of L.D.Smullin and W.D. Gotty (Phys. Rev. Letters, 9, 1, 3, 1962; J. Appl. Phys., 34, No. 12, 1963) indicate that with a beam of higher power there can be obtained highly ionized hot plasmas, heated by the kinetic energy of the beam. Orig. art. has: 8 figures.

ASSOCIATION: none

where (Fizika pla AN USSR, Kiyev, J tiples of half ti spectrum of these APPROVED FO	le Larmor freque oscillations v	ound that ose ncy and that i ary periodical) termoynderic Lilations are the width and Lly at the fre	excited at int peak frequency quency of ioni	1.4. Izd. ogral mul- of the c sound.	
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NR REF SOVI 004		OTHBRI C	08			
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L 2489-66 ACCESSION NR: AP502072 The spectrum narrows w	ith increasing pressure and broadens with increasing beam
oscillations cease to intervals that decreas moderately with respec n small transverse vel by two orders of magni-	netic field strength is increased beyond a certain value, the be continuous but come in bursts which follow each other at e with increasing magnetic field strength. Tilting the beam t to the direction of the magnetic field so as to introduce ocity component increased the amplitude of the oscillations tude. The reasons for the pulsation of the oscillations at for the increase of the amplitude of the oscillations in the se electron velocity component, and for the periodic varia-
presence of a transver tion of the spectrum o gures.	of the oscillations are still obscure. Orig. art. has: 7 fi-
tion of the spectrum of	of the oscillations are still obscure. Orig. art. has: 7 fi-
tion of the spectrum o gures.	by the oscillations are still obscure. Orig. art. has: 7 fi- BNCL: 00 SUB CODE: ME

KOSMODEM'YANSKIY, L.V.; SHUSHKINA, Ye.N.; KOPYLOV, Ye.P.; KOVRAYSKAYA, N. L.; LAZARYANTS, E.G.; FARBEROV, M.I.

> Use of a synthetic emulsifier with a base of di-tert-butylbenzoic acid for the synthesis of all-purpose rubbers. Kauch. i rez. 22 no. 11:11-14 N '63. (MIRA 17:2)

> 1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka i Yaroslavskiy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 06/14/2000

ALEKSEYEV, Yuriy Vasil'yevich; POPOV, Oleg Andreyevich; GLADKOV, V.A., red.; KOVRAYSKIY, K.Ye., spets. red.; SYCHEVA, V.A., tokhn. red.

> [Experience in semicontinuous smelting]Opyt polunepreryvnoi plavki. Murmansk, Murmanskoe knizhnoe izd-vo, 1962. 23 p. (MIRA 15:12)

(Nickel-Electrometallurgy)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9

KOVRAYSKIY, V.B., kand. khim. nauk; SVIRIDENKO, F.F., inzh. Bffect of the final process in the conversion of phospherous pig iron on crazing and cracks in rails. Trudy Ukr. nauch.-issl. (MIRA 12:3) inst. met. no.4:155-162 158. (Steel--Defects) (Railroads--Rails) COVERAGE: The collection of articles reviews the work carried on at the Institute of Metals on the technology of blast furnaces, open-bearth furnaces, and rolled stock production. It also deals with problems in metallography, hest treatment of ferrous metals and methods for their study. Particular attention is devoted to and methods for their study. Particular attention is devoted to and methods for their study. Particular attention is devoted to and methods for their study. Particular attention is devoted to and methods for their study. Particular attention is devoted to and methods for their study. Particular attention is devoted to and pressure, open-hearth production with oxygen blast and rolling as pressure, open-hearth promalities are mentioned. References accompany atch article.

APPROVED FOR RELEASE: 06/14/2000

KOVRAYSKIY, V.B.

Investigating the kinetics of the dephosphorization process in the conversion of high-phosphorus pig irons into steel. Trudy Ukr. nauch.-issl. inst. met. no.6:115-130 ?60. (MIRA 14:3) (Steel--Metallurgy)

APPROVED FOR RELEASE: 06/14/2000

KOVRAYSKIY, V.B.

Effect of slag composition or the equilibrium constant of the reaction 2[P] + 5(FeO) - (205) + 5[Fe]. Sbor. trud. UNIIM no.9:109-124 *64 (MIRA 18:1)

APPROVED FOR RELEASE: 06/14/2000

5.3700

78091 SOV/62-00-1-37/37

Nesmeyanov, A. N., Borisov, A. Ye., Kovredov, A. I., AUTHORS: Golubeva, Ye. I.

Letter to the Editor. Reaction of Free Radicals With TITLE: Organomercury Compounds

PERIODICAL: Izvestiya Akademii nauk SSSR, otdeleniye khimleheskikh nauk, 1960, Nr 1, p 148 (USSR)

ABSTRACT: The authors report that compounds RHgR' react with CC1, in the presence of benzoyl peroxide to form compounds shown in Table B. There are 1 table; and 2 references, 1 U.S. and 1 Soviet. The U.S. reference 1st M. S. Kh Kharasch, R. Marner, J. Am. Chem. Soc., 48, 3130 (1926). ASSOCIATION: Institute of Element-Organic Compounds, Academy of Sciences, USSR (Institut elementarnoorganicheskikh soyedineniy Akademii nauk SSSR) SUBMITTED:

October 29, 1959

Card 1/3

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Letter to the File RelEASE: 106/14/2000 Radi APPROMED OF gammercury Compounds

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1	A DECEMBER OF A
l	$(C_{6}H_{\delta}COO)_{2} \rightarrow C_{6}H_{\delta}COO + C_{1}H_{\delta} + CO_{2}$
	Colls + CCl1 - CalleCl + CCl
	$RH_{g}R' + CCI_{g} \rightarrow R'Hg' + RCCI_{g}$
	R'Hg' + CCl - R'HgCl + CCl + and so on
•.	2CCl + CClo-CClo , Termination
	Tabla

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CIA-RDP86-00513R000825630008-9

. Letter to the Editor. Reaction of Free Radicals With Organomercury Compounds

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Rey to Table B. (a) starting compounds; (b) constants; (c) products of reaction (yield 炎); (d) oil; (e) mp.

Card 3/3

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27487 S/062/61/000/009/002/014 B117/B101

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AUTHORS: Nesmeyanov, A. N., Borisov, A. Ye., Golubeva, Ye. I., and Kovredov, A. I.

TITLE: Reaction of free radicals with unsymmetric organic mercury compounds

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 9, 1961, 1582-1589

TEXT: The authors studied the interaction of free radicals with a number of asymmetric saturated organo-mercury compounds with a view to elucidating the order in which radicals are split off by a radical reagent and establishing a sequence of radicals. The benzoyl peroxide initiated reaction of carbon tetrachloride with saturated organo-mercury compounds, discovered by A. Ye. Rorisov (Ref. 8: Izv. AN SSSR. Otd. khim. n. 1951, 524) was used as example for this study. The mercury compounds used were of the type RHgR' listed in the table. They were prepared either (compounds 11, 12, 13, and 14) by the method developed by R. Kh. Freydlina, K. A. Kocheshkov, and A. N. Nesmeyanov (Ref. 9: Zh. obshch. Card 1/12

APPROVED FOR RELEASE: 06/14/2000

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Reaction of free radicals ...

27487 \$/062/61/000/009/002/014 B117/B101

khimii, 5, 1171 (1935)) or by means of the Grignard reaction. It was observed that in the reaction $\operatorname{RHgR}^{!} + \operatorname{CCl}_4 \longrightarrow \operatorname{RHgCl} + \operatorname{R'CCl}_5$ the free radical CCl³ always combines in higher yield with a radical further left in the following sequence than with one further right: $2,4,6-(\operatorname{CH}_3)_3 \operatorname{C}_6 \operatorname{H}_2$, $\alpha-\operatorname{C}_{10} \operatorname{H}_7$, $\operatorname{P-CH}_3 \operatorname{C}_6 \operatorname{H}_4$, $\alpha-\operatorname{CH}_3 \operatorname{C}_6 \operatorname{H}_4$, $\operatorname{C}_6 \operatorname{H}_5$, $\operatorname{C}_2 \operatorname{H}_5$, $\operatorname{C}_4 \operatorname{H}_9$, $\operatorname{C}_6 \operatorname{H}_5 \operatorname{CH}_2$, $\operatorname{C}_6 \operatorname{H}_{11}$. If the radicals are further apart in this sequence, the reaction is frequently nearly quantitative. For a chain reaction with sequence set up by M. S. Kharasch (J. Amer. Chem. Soc., <u>48</u>, 3130 (1926); ibid., <u>54</u>, 674 (1932)) for the heterolytic reaction. The course of the chain reaction may be represented as follows: $(\operatorname{C}_6 \operatorname{H}_5 \operatorname{COO}_2 \longrightarrow \operatorname{C}_6 \operatorname{H}_5^{\circ} + \operatorname{C}_6 \operatorname{H}_5 \operatorname{COO}^{\circ} + \operatorname{CO}_2$ $\operatorname{C}_6 \operatorname{H}_5^{\circ} + \operatorname{CCl}_4 \longrightarrow \operatorname{C}_6 \operatorname{H}_5 \operatorname{Cl} + \operatorname{CCl}_3$ $\operatorname{Cl}_3^{\circ} + \operatorname{RHgR}^{\circ} \to \operatorname{RHgCl} + \operatorname{Ccl}_3^{\circ}$, etc.

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27487 Reaction of free radicals ... s/062/61/000/009/002/014 B117/B101 The course of the reaction is therefore determined by $RHgR' + CCl_3 \rightarrow R'CCl_3 + RHg'$ since in the further course of the reaction the RHg radical only participates the regeneration of the chloromethyl radical. The sequence established on the basis of decreasing proton affinity of the radicals corresponds to one based on decreasing affinity of the radicals towards the free radical CCl₃. There are 1 table and 14 references: 5 Sovietbloc and 9 non-Soviet-bloc. The two most recent references to Englishlanguage publications read as follows: R. E. Dessy, G. F. Reynolds, Jin Young-Kim, J. Amer. Chem. Soc. <u>81</u>, 2683 (1959); S. Winstein, T. G. Traylor, J. Amer. Chem. Soc. 77, 3741 (1955). ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR) SUBMITTED March 11, 1961 Card 3

APPROVED FOR RELEASE: 06/14/2000

ZAKHARKIN, L.I.; KOVREDOV, A.I.

Synthesis of pentamethylene-and hexamethylenediboric acids. Izv. AN SSSR Otd.khim.nauk no.2:357-358 F '62. (MIRA 15:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Boric acid)



APPROVED FOR RELEASE: 06/14/2000

33987 s/062/62/000/002/012/013 B117/B138

11.2223 11.2211

AUTHORS: Zakharkin, L. I., and Kovredov, A. I.

TITLE: Addition of diborane to isoprene and synthesis of β -methyl tetramethylene diboric acid

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 2, 1962, 362 - 363

TEXT: The investigation started in Ref. 1 (Zh. obshch. khimii <u>32</u> (in print) (1962)) was continued as follows: β -methyl tetramethylene diboric acid was synthesized on the base of diborane and isoprene. All the reactions were performed in pure nitrogen atmosphere. Diborane and isoprene readily react in tetrahydrofuran at room temperature. The product is bis-1,4-(1-boro-2-methyl cyclopentyl)-2-methyl butane C₁₅H₃₀B₂ (I) (boiling point 88°C (0.2 mm Hg); yield 64.7%). By heating (I) with boro trichloride (200°C, ν 20 hr) and by distillation, 1,4-bis-(dichloro bcro)-2-methyl butane C₅H₁₀B₂Cl₄ (II) was obtained (boiling point 36°C (0.7 mm Hg); yield 80%). The hydrolysis of (II) yielded β -methyl tetramethylene diboric acid Card (1/2)

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C ₅ H ₁₄ B ₂ O ₄ (a sealed ca its oxidati butanediol- bis-phenyl ! Soviet an publication	on with alkaline hydrogen 1,4 (boiling point 115 - uretane (melting point 96 d 3 non-Soviet. The two r	33987 S/062/62/000/002/012/013 B117/B138 1330C; yield 90%), which was stored in structure of (III) was confirmed by peroxide; the products were 2-methyl 170C (10.5 mm Hg); yield 72.6%) and - 97°C). There are 4 references: references to English-language cik, H. Adkins, J. Amer. Chem. Soc. hnson. J. Amer. Chem. Soc. 383, 168
ASSOCIATION:	Institut elementere	heskikh soyedineniy Akademii nauk SSSR Organic Compounds of the Academy of
SUBMITTED:	July 29, 1961	
Card 2/2		

ZAKHARKIN, L.I.; KOVREDOV, A.I.

Syntehesis of trimethyleneboronic acid and alkyldiboronic acid esters and the refractions of some bonds in organoboron compounds. Izv.AN SSSR.Otd.khim.nauk no.9:1564-1571 S 162. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Boronic acid) (Boron organic compounds)

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ACCESSION NR: AP4010038	1 S/0062/64/0	00/001/0050/0054	
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AUTHOR: Kovredov, A. I.;	Zakharkin, L. I.		
a a f		:	
TITLE: Synthesis of 1-chlor	oborcycloalkanes	•:	
SOURCE: AN SSSR. Izvestiy			
TOPIC TAGS: 1-chloroborcy alpha.omega-(1-borcycloalk diborocyclooctane, bis-alph	vl)alkane, boraikane cycii	zation, $1.5 - \text{ulcmoto} - 1$	t, bis- .5-
ABSTRACT: 1-chloroborcyc cycloheptane may be synthes (1-borcyclo+alkyl)alkane wit of a catalytic amount of tetr on heating in vacuum. On h 200-250C, BCl ₃ is liberated 1-chloroborcycloalkane. Si	sized by reacting the appro- th a 1:1 molar ratio of BCI aalkyldiborane to form a p eating Cl ₂ B(CH ₂) _n BCl ₂ , v d and the alkane is cyclize	opriate bis-arpia, one ag at 140C in the presen- oolymer which depolyme where n=4, 5, or 6, to d to form the correspor	ice erizes iding
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ACCESSION NR: AP4010038

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evolution and the formation of 1,5-dichloro-1,5-diborocyclooctane. Bis-alpha, omega-(1-borcycloalkyl)alkanes, when heated with 1:4 molar ratio of BCl₃ to 140C in the presence of a catalytic amount of tetraalkyldiborane, are converted to the corresponding bis-alpha, omega-(dichlorobor)alkanes. Orig. art. has: 6 equations.

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ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii navk SSSR (Institute of Metallo-organic Compounds Academy of Sciences SSSR)

SUBMITTED: 29Aug63	DATE ACQ: 14Feb64	ENCL: 00
SUB CODE: CH	NO REF SOV: 003	OTHER: 000

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APPROVED FOR RELEASE: 06/14/2000

CCESSION NR:	AP4019021	\$/0062/64/000/002/0393/0	393
UTHOR: Zakhar	kin, L. I.; Kovredov, A. I	•	1
ITLE: Synthes nd diborane	is of ethane-1,1- and etha	ne-1,2-diboric acids from acetylene	•
OURCE: AN SSS	SR. Izv. Seriya khimichesk	aya, no. 2, 1964, 393	· • •
		ne, dichloro boroethane, boron chlorid	ė.,,
action of acet polymer (C2H4B) of two bis-(di bis-1,1-(dich1	ylene and diborane dissolved 2), which, when heated with chloroboro)ethanes in an a	ation of the above acids by the inter- ed in ether or tetrahydrofuran forming BCl3 to 180-200C, produces a good yi pproximate proportion of 1:1., namel -(dichloroboro)ethane. Hydrolysis of ic acids. Their characteristics are ormulas, no tablas.	.eld .y
action of acet polymer (C2H4B) of two bis-(di bis-1,1-(dich1	ylene and diborane dissolve $_{2}$, which, when heated with chloroboro)ethanes in an appropriate oroboro)ethane and bis-1,2 corresponding ethanedibor	BC13 to 180-200C, produces a good yi pproximate proportion of 1:1., namely -(dichloroboro)ethane. Hydrolysis of ic acids. Their characteristics are	.eld .y
action of acet polymer (C2H4B) of two bis-(di bis-1,1-(dich1	ylene and diborane dissolve $_{2}$, which, when heated with chloroboro)ethanes in an appropriate oroboro)ethane and bis-1,2 corresponding ethanedibor	BC13 to 180-200C, produces a good yi pproximate proportion of 1:1., namely -(dichloroboro)ethane. Hydrolysis of ic acids. Their characteristics are	.eld .y

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APPROVED FOR RELEASE: 06/14/2000

AKHMANOV, S.A.; KOVRIGIN, A.I.; STRUKOV, M.M.; KHOKHLOV, R.V.

Frequency dependence of the threshold of light breakdown in air. Pis'. v red. Zhur. eksper. i teor. fiz. 1 no.1:42-47 Ap '65. (MIEA 18:9)

1. Moskovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9

AKHMANOV, S.A.; KOVRIGIN, A.I.; KULAKOVA, N.K.

Effect of the finite aperture of a light beam on the course of nonlinear phenomena in an anisotropic medium. Zhur. eksp. i teor. fiz. 48 no.6:1545-1553 Je 165.

(MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/14/2000

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	Reorganize the control of suslike. Zashch. rast. of vred. i bol. 3 no.1:7-8 Ja-F '58.
	(MIRA 11:3) 1. Nachal'nik proizvodstvennogo uchastke Aktyubinskoy ekspeditsii. (Susliks)
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18.8200	2808 .	26390 S/032/61/027/008/015/020 B103/B203	
AUTHORS:	Kovrev, G. S., and Kirillov, P.	G .	Ļ
TITLE:	Method of determining the stre high temperatures	ngth properties of metals a	t
PERIODICAL:	Zavodskaya laboratoriya, v. 27	, no. 8, 1961. 1018 - 1021	
specimens (tung deformation was tungsten specim and degree of o to 1500°C was compared with 9 ation resistand tungsten. Tung Its initial str since the grain	nors developed methods of testing (sten) at high temperatures and of a accelerated from 555 to 3500 %, mens was found to remain constant deformation. Besides, the plast: shown to rise by 25 - 30 % at a plast of the deformation of the deformation of the deformation (sten and yet known for many allow (sten differs from most metals are functure, grains with equally long as are lengthened. The resulting strength. This texture disapped	deformation rates. When the /sec, the plastic strain of t for the same temperature ic strain of specimens heate rate of 3500 %/sec, as formation rate on the deform bys and metals, including alloys by its friability. g axes, changes in deformati g texture leads to higher	ed J

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Method of determining the strength ...

26390 S/032/61/027/008/015/020 B103/B203

above recrystallization temperature, and the metal becomes friable again. The authors describe their quick tensile tests of tungsten specimens (also

applicable to other metals) at over 1000° C. Such tests are rendered difficult by the necessity of holders resisting such temperatures. If the holders are to be kept distant from the heating zone, long specimens would be required. Water-cooled holders create a high temperature gradient along the specimen. In the authors' methods, the maximum test temperature is not limited by the resistance of holders but by the furnace construction. The protective gas produced by heating prevents oxidation of specimens. Tests were made on a chain draw bench with four slide speeds to simulate real conditions as closely as possible (deformation rate of tungsten in rolling is 500 - 1500 %/sec). The authors used 0.222 and 1.4 m/sec. At a calculated specimen length of 40 mm, this corresponds to deformation rates of 555 and 3500 %/sec. Specimens were produced from rods by rotary

forging at 1400 - 1100°C, and contained 0.001 % Ni; 0.01 % SiO₂; 0.005 % CaQ

and 0.029% Mo; the rest was W. The holders were made of hardened Y7(U7) steel. Fig. 2 shows a diagram of the apparatus. The specimen 1 in a quartz tube 2 was heated in an electric circular furnace 3 with a silicon carbide Card 2/6

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26390 S/032/61/027/008/015/020 B103/B203

Method of determining the strength

heating. The projection 4 prevented the specimen from gliding in the tube. The platinum - platinum - rhodium thermocouple 5 indicated the specimen temperature. After reaching the temperature required, the quartz tube in the furnace was turned through 180°, and the specimen dropped from the tube through the funnel 6 into holder 7. The slide 8 was quickly coupled to the moving chain 9, and the specimen was ruptured. The specimen temperature was recorded during its stay in the holders on an oscilloscope by means of the optical head 10 (consisting of focusing lens and photoresistor with small time constant). The optical head was calibrated before the test, and a calibration diagram plotted in the coordinates "deviation of the ray in °C". The sine curve of the a-c voltage of a $3\Gamma - 10(ZG-10)$ mm - temperature in sound generator was simultaneously recorded on the chart. The stress was recorded by the measuring box 11 fed from an $\exists T-4(ET-4)$ four-channel amplifier. The measuring box was calibrated on the bench by means of a spring dynamometer with pointer. The oscillograms were evaluated as follows: 1) The point corresponding to the beginning plastic deformation was determined on the oscillograms considering the known slide speed and the sine curve recorded (see above). 2) The specimen diameter was measured after rupture in the area of steady necking. The specimen volume was divided by the area corresponding to the diameter measured. Thus, the Card 3/6

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26390 S/032/61/027/008/015/020 B103/B203

Method of determining the strength ...

authors determined the length of the calculated part at the moment of maximum uniform deformation. 3) From the beginning of plastic deformation, the authors calculated, from the number of periods, the time during which the absolute elongation of the specimen proceeded which corresponded to maximum uniform deformation of the specimen. The stresses in this section were calculated by dividing the load at the given instant by the area of the specimen cross section at the same instant (this area was determined from the condition of constancy of the specimen volume during deformation). 4) In the section corresponding to localized deformation. the cross-sectional area was determined graphically. The authors explain their results, mentioned at the beginning, as follows: At 1200°C and 1350°C, no effect of the deformation rate on the plastic strain was found. At these temperatures, the rate of recrystallization of specimens with the corresponding content of admixtures is much lower than the deformation rate. Therefore, the strength is not changed by recrystallization on transition from one rate to another. At 1500°C, however, recrystallization becomes much more intensive. Since recrystallization reduces the plastic strain, the character of the curve depends on the interrelation between the deformation rate creating a strength-increasing tungsten texture and the recrystallization rate at Card 4/6

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Method of determining the strength ...

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which the deformation texture is more or less replaced by equiaxial grains, which also reduces the mentioned stresses themselves. This is confirmed by an increase in relative elongation and relative transverse contraction of specimens deformed at 1500°C at a rate of 3500 %/sec. There are 5 figures and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The three references to English-language publications read as follows: P. M. Cook, Proc. conference on the properties of materials, Session 3, paper 2, London, May (1957); A. Nadai, M. Manjon. High-speed tension tests at elevated Temperatures, Parts I,II -Proceed. ASTM, v. 40 (1941); B. L. Mordike, The J. of the Inst. of Metals., v. 88, No. 6, p 272 -275 (1960).

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov im. M. I. Kalinina (Krasnoyarsk Institute of Nonferrous Metals imeni M. I. Kalinin)

Card 5/6

APPROVED FOR RELEASE: 06/14/2000

ACCESSION NR: AT4001242 s/3031/63/000/035/0324/0331 AUTHOR: Kovrev, G. S. TITLE: Effect of temperature and rate of deformation on mechanical properties of tungsten SOURCE: Gosudarstvenny*y institut tsvetny*kh metallov. Sbornik nauchny*kh trudov. Moscow, no. 35, 1963, 324-331 TOPIC TAGS: tungsten, tungsten mechanical property, strain rate, tungsten high temperature tensile test, tungsten high temperature strength, tungsten high temperature ductility ABSTRACT: A procedure is developed for performing mechanical tests on tungsten specimens at temperatures above 1000°C, to permit an investigation of the influence of the temperature and deformation rate on the resistance of tungsten to various types of deformation (compression, tension, bending, torsion) at high temperatures, with Card 1/2

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ACCESSION NR: AT4001242 S/3031/63/000/035/ AUTHOR: Kovrev, G. S.	0324/0331
AUTHOR: Kovrey, G. S.	0324/0331
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TITLE: Effect of temperature and rate of deformation on me properties of tungsten	BChanical'
SOURCE: Gosudarstvenny*y institut tsvetny*kh metallov. Sb nauchny*kh trudov. Moscow, no. 35, 1963, 324-331	ornik
TOPIC TAGS: tungsten, tungsten mechanical property, strain tungsten high temperature tensile test, tungsten high tempe strength, tungsten high temperature ductility	rature
ABSTRACT: A procedure is developed for performing mechanics on tungsten specimens at temperatures above $1000^{\circ}C$, to permi- investigation of the influence of the temperature and deform rate on the resistance of tungsten to various types of defor (compression, tension, bending, torsion) at high temperature and $1/2$	it an
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only nea tion of tures had gradually tion of s tion rate tests. 0	r the recry the microsoft s shown that y replaced specimens t e, amounts Drig. art.	g the technolo as found that e deformation a ystallization a tructure of san twith rising by recrystalli ested at 15000 to 18% in stat has: 10 figure arstvenny*y in rous Metals)	affects the temperature mples tested temperature zed structu increases ic tests, a	plastic ter (1500C). at different the band as the band as the band as the band as the band as the band as the band as	a deform nsion st in inves ent temp tructur lative sing de 35% in	nation tress stiga- bera- te is elonga- forma-
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4 ·
KOVREVA, T. S., YARTSEVA, A. M. and BILIBIN, A. F.

"Use of biomycin in treating infectious diseases," appears in TABCON of "<u>Biomycin</u> (Experimental Study and Clinical use of Biomycin), edited by A. F. Bilibin, Moscow 1954.

SO: Translation-417, 21 Jun 1955.

FARBER, N.A.; SINAYKO, G.A.; KOVREVA, T.S.; MIDRO, O.S.; ANDREYEVA, N.A.

Evaluation of the therapeutic action of dioron in Botkin's disease. Sov. med. 28 no.10:127-131 0 '65. (MIRA 18:11)

1. Klinicheskiy otdel (zav.- dotsent Ye.S. Ketiladze, nauchnyy rukovoditel' - prof. A.F. Bilibin) Instituta virusologii imeni Ivanovskogo (dir.- prof. V.M. Zhianov) AMN SSSR i Moskovskaya gorodskaya klinicheskaya infektsionnaya bol'nitsa No.82 (glavnyy vrach - kand. med. nauk A.V. Yeremyan), Moskva.

APPROVED FOR RELEASE: 06/14/2000

YABLONSKAYA, V.A.; KOVREVA, T.S.; YEREMENKO, A.V.

Epidemiology of typhus. Report No. 1: Data on the serodiagnosis of typhus. Vop. virus. 5 no. 2:237-240 My-S '60. (MIRA 14:4)

1. Institut epidemiologii i mikrobiologii imeni ^N.F. Gamalei AMN SSSR, 2-ya Gorodskaya klinicheskaya bol'nitsa, imeni S.P. Botkina, Moškva:

(TYPHUS FEVER)

APPROVED FOR RELEASE: 06/14/2000

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APPROVED FOR RELEASE: 06/14/2000

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UB	CODE:	21/	SUBM DATE:	21Apr66/	ORIG' REF:	002/	oth	REF:	001		
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d	2/2										

AUTHOR: Kovrevskiy, A. P. TITLE: Oscillations of an anisotropic plate under a movable continuously distributed load SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1964, 27-33 TOPIC TAGS: plate, anisotropic plate, uniform load, sandwich plate, plate oscillation, movable load, continuously distributed load, elastic body, orthotropic plate ABSTRACT: The problem of the oscillations of elastic bodies as a mass flow moves over their surface is encountered in the study of various radiator systems and also when considering the oscillations of certain other bodies having a cooling liquid between the walls. In the present article, the author has investigated the free oscillations of ortho- tropic plates supporting a mass flow, uniformly distributed over the surface. Frictional beats the flexional form of the plate are assumed to be absent. The flow trajectory re- realized by passing a flow or stream of liquid between the layers of a sandwich plate with a corrugated filler. In a certain frequency range, the sandwich plate may be replaced by a $\frac{1/3}{3}$	ACCESSION NR: AP4040969	8/0147/64/000/002/0027/0033
TOPIC TAGS: plate, anisotropic plate, uniform load, sandwich plate, plate oscillation, movable load, continuously distributed load, elastic body, orthotropic plate ABSTRACT: The problem of the oscillations of elastic bodies as a mass flow moves over their surface is encountered in the study of various radiator systems and also when considering the oscillations of certain other bodies having a cooling liquid between the walls. In the present article, the author has investigated the free oscillations of ortho- orces between the flow and the plate are assumed to be absent. The flow trajectory re- cealized by passing a flow or stream of liquid between the layers of a sandwich plate with a orrugated filler. In a certain frequency range, the sandwich plate may be replaced by a	AUTHOR: Kovrevskiy, A. P.	
TOPIC TAGS: plate, anisotropic plate, uniform load, sandwich plate, plate oscillation, movable load, continuously distributed load, elastic body, orthotropic plate ABSTRACT: The problem of the oscillations of elastic bodies as a mass flow moves over their surface is encountered in the study of various radiator systems and also when considering the oscillations of certain other bodies having a cooling liquid between the valls. In the present article, the author has investigated the free oscillations of ortho- ropic plates supporting a mass flow, uniformly distributed over the surface. Frictional eats the flexional form of the plate are assumed to be absent. The flow trajectory re- ealized by passing a flow or stream of liquid between the layers of a sandwich plate with a orrugated filler. In a certain frequency range, the sandwich plate may be replaced by a	CITLE: Oscillations of an anisotropic plate un COURCE: IVUZ. Aviatsionnaya tekhnika, no.	nder a movable continuously distributed load
ABSTRACT: The problem of the oscillations of elastic bodies as a mass flow moves over their surface is encountered in the study of various radiator systems and also when considering the oscillations of certain other bodies having a cooling liquid between the valls. In the present article, the author has investigated the free oscillations of ortho- orces between the flow and the plate are assumed to be absent. The flow trajectory re- eats the flexional form of the plate oscillations. Design-wise, this arrangement may be porrugated filler. In a certain frequency range, the sandwich plate may be replaced by a	OPIC TAGS: plate, anisotropic plate, unifor novable load, continuously distributed load, e	m load, sandwich plate, plate oscillation, lastic body, orthotropic plate
1/0	BSTRACT: The problem of the oscillations of ver their surface is encountered in the study onsidering the oscillations of certain other bo alls. In the present article, the author has in copic plates supporting a mass flow, uniformly press between the flow and the plate are assum that the flexional form of the plate oscillations calized by pagging a flow of the plate oscillations	of elastic bodies as a mass flow moves of various radiator, systems and also when dies having a cooling liquid between the avestigated the free oscillations of ortho- y distributed over the surface. Frictional ned to be absent. The flow trajectory re- s. Design-wise, this arrangement may be
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ACCESSION NR: AP4040969 plates having a free edge in a direction transverse to the flow. The damping value increases with the parameter μ . Having attained a certain value of μ , the damping increases to such a degree that free oscillations become impossible (the frequency becomes zero). As experiments with cantilever-fixed pipelines have demonstrated, the transition from periodic movement of the tube to aperiodic (movement at zero frequency), as the flow rate is increased occurs while the eigenfrequency of the system oscillations remains unchanged. The author notes that an analogous phenomenon occurs in plates. If there is no free edge in the plate, there is no damping of the oscillations. 4. A constant mass flowcan result in a plate stability loss. Using the terminology of V. V. Bolatin (V. V. Bolotin. Nekonservativny*ve zadachi teorii uprugoy ustoychivosti. Fizmatgiz, 1961), this type of stability loss for plates with a free edge is of the "oscillatory" class. In other plates a stability loss of the "static" ' type takes place. The boundaries of the stability regions are established by applying the Gurvitz method to the characteristic equation having the form: $C_{11}C_{22}r^2 + (C_{22}B_{11} + C_{11}B_{22})r^2 + (C_{22}A_{11} + C_{11}A_{22} + B_{32}B_{11})r^2$ - B. B.) Orig. art. has: 22 formulas, 3 figures and 1 table. ASSOCIATION: none SUBMITTED: 30Nov63 ENCL: 00 SUB CODE: AS NO REF SOV: 005 **OTHER: 001** Card_3/3__

APPROVED FOR RELEASE: 06/14/2000

KOVREVSKIY, A.P., inzh.

Experimental and theoretical investigation of the natural oscillation of pipes containing a flowing fluid. Izv.vys.ucheb. zav.; energ. 7 no. 4:89-94 Ap '64. (MIRA 17:5)

¹. Filial Instituta mekhaniki AN UkrSSSR. Predstavlena uchenym sovetom laboratorii gidravlicheskikh mashin.

APPROVED FOR RELEASE: 06/14/2000

KOVREVSKIY, A.P.

 Vibration of sandwich plates with a rigid orthotropic filler. Trudy Lab.gidr.mash.AN USSR no.llt40-48 '64. (MIRA 17:10)

APPROVED FOR RELEASE: 06/14/2000

KONRIC-M. M.U. GUL', V.Yo.; KRUJETSKAYA, G.P.; KOVRIGA, V.V. Investigating the mechanism of the rupture of vulcanizates. Kauch. i res. 16 no.12:1-7 D '57. (MIRA 11:3) 1. Moskovskiy institut tonkoy khimicheskoy tekhnologii in. M.V. Lomonosova. (Rubber--Testing) (Deformations (Mechanics))

APPROVED FOR RELEASE: 06/14/2000

5/190/60/002/011/004/027 B004/B060

AUTHORS:Gulty V. Ye., Kovriga, V. V. Yeremina, Ye. G.TITLE:Study of the Characteristics of Stability of PolymersHigh Rates of Deformation V

PERIODICAL: Vysokomolekulyarnyye soyedineniya 1960. Vol. 20 No. 11. pp. 1616 - 1619

TEXT: The authors wanted to subject polymers to mechanical tests under conditions giving rise to anomalies in comparison to the normal behavior of solid bodies. For this purpose they worked out a dynamometer permitting deformation rates of from 470,000 to 2.700,000 mm/min; the temperature of the dynamometer was kept constant by a thermostat. The curve "stress as a function of time" was recorded by means of an MMO-2, (MPO-2) loop oscilloscope. The test temperatures ranged between 200 and 100°C. Specimens of nonfilled CKH-26 (SKN-26), rubber, polyethylene (molecular weight 18,000 - 25,000) and polyamideWwere examined. The curves obtained were reconstructed into "deformation as a function of stress", and the following was determined from them: 1) breaking stress $\sigma_{\rm b}$ 2) the relative Card 1/3

APPROVED FOR RELEASE: 06/14/2000

Study of the Characteristics of Stability of S/1 Polymers at High Rates of Deformation BOO

S/190/60/002/011/004/027 B004/B060

prolongation on rupture, 3) time of rupture $\tau_{\rm b}$ and 4) the deformation work.

(calculated from the area of the curve "deformation as a function of stress"). Anomalies were observed at deformation rates between 470.000 and 2.700.000 mm/min. The nonmonotonic change of σ_b , of the relative prolongation, and of τ_b had a likewise nonmonotonic change of the deformation work as a result. Maxima between 0 ~ 20°C and minima tetween .20° and $\pm 100^{\circ}$ C were observed with the SKN-26 vulcanizate. With rising temperature the deformation curves shifted toward higher temperatures. A comparison of polymers based on measurements made at different temperatures, may lead to the wrong conclusions due to intersection of these curves. As contrasting therewith, an almost constant value of $(2.7\pm0.1).10^4$ for polyethylene, and of $(4.0\pm0.1).10^4$ for polyamide was found for the ratio σ_m/τ_b , where σ_m is the mean value of stress. For SKN, however, the ratio fluctuated between 3.10^3 and 4.10^3 . There are 3 figures, 1 table, and 1 Soviet reference.

Card 2/3

APPROVED FOR RELEASE: 06/14/2000

"APPROVED FOR RELEASE: 06/14/2000 . • Study of the Characteristics of Stability of s/190/60/002/011/004/027 Polymers at High Rates of Deformation B004/B060 ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov) SUBMITTED: April 7, 1960 Card 3/3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9"

CIA-RDP86-00513R000825630008-9

S/020/60/133/006/010/016 B004/B064

AUTHORS: Gul', V. Ye., Kovriga, V. V. and Kamenskiy, A. N.

TITLE:

Study of the Spontaneous Contraction of Polymers With Fully Developed Spatial Structure in the Course of Tearing

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 6, pp. 1364-1367

TEXT: The authors wanted to determine the relaxation properties of samples subject to tearing on the basis of the velocity of their spontaneous contraction. The tearing of non-filled vulcanizates from $CKH-18 (SKN-18) \ CKH-26 (SKN-26)$, and CKH-40 (SKN-40) rubber with different percentage of nitrile groups, but the same degree of interlacing was studied with a time-lapse camera CKC-1 (SKS-1). Two kinds of had a 1 or 2.5 mm deep groove on the longer side. Samples No. 2 were small stripes ($60 \times 10 \times 1 \text{ mm}$). In samples No. 1 the rate of contraction was measured of the rest being torn only at the end of the experiment, whereas in samples No. 2 the entire sample was torn after a certain Card 1/3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9

Study of the Spontaneous Contraction of S/020/6 Polymers With Fully Developed Spatial Structure B004/B0 in the Course of Tearing

S/020/60/133/006/010/016 B004/B064

expansion had been reached, and the contraction of the line of tear was measured. Fig. 1 shows the rate $v_{g.c.}$ of spontaneous contraction as a function of time at a <u>deformationPrate 100 mm/min.</u> v_0 was obtained as characteristic value for the relaxation properties of the material by extrapolating for t = 0. Fig. 2 shows values of v_0 as a function of the rate of deformation v_{def} . v_0 increases less and less with increasing v_{def} . Fig. 3 shows v_0 as a function of the expansion \mathcal{E} . The groove at the edge of samples No. 1 leads to a steep rise of v_0 . Table 1 gives the values of v_0 at $v_{def} = 500 \text{ mm/min}$, $t_{def} = 0.2 \text{ min}$, as well as the ratio γ of the additional orientation of the material. $\gamma = \mathcal{E}_p/\mathcal{E}$ (\mathcal{E}_p = expansion of sample No. 2 until tearing, \mathcal{E} = expansion of sample No. 1 with equal $v_{s.c.}$). $v_{s.c.}$ increases with rising polarity (higher number of nitrile groups), whereas γ decreases. There are 3 figures, 1 table, and 2 Soviet

Card 2/3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9

Study of the Spontaneous Contraction of Polymers With Fully Developed Spatial Structure B004/B064 in the Course of Tearing ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Engineering imeni M. V. Lomonosov) PRESENTED: April 6, 1960, by V. A. Kargin, Academician SUBMITTED: March 21, 1960

APPROVED FOR RELEASE: 06/14/2000

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GUL', V.Ye.; KOVRIGA, V.V.; VASSERMAN, A.M.

Effect of supermolecular structure on the strength of polypropylene. Dokl. AN SSSR 146 no.3:656-658 S '62. (MIRA 15:10)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova i Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Predstavleno akademikom. R.A.Karginym. (Propene)

APPROVED FOR RELEASE: 06/14/2000

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L 03033-67 ENP(j)/ENT(m)/T IJP(c) ACC NR: AP6023065 (A)	RM SOURCE CODE: UR/0191/66/000/004/0038/0040
AUTHOR: Antonov, S. N.; Gurman, I. M.;	Kovriga, V. V.; Lushcheykin, G. A. 37
ORG: none	$\frac{\text{Advriga, V. V.; Lughcheykin, U. A.}}{36}$
SOURCE: Plasticheskiye massy, no. 4, 19	
TOPIC TAGS: epoxy plastic, dielectric p	roperty, diolectric loss, molecular weight
of curing on the angle of dielectric loss specific electric volume resistivity (β_{v} Table 1), obtained by condensation of di properties of the noncured resins improv as their curves of tg $S = f(t)$ and $E = f(t)$ values of dielectric properties of pured	t of molecular weight, temperature, and time ses (tg δ), dielectric/permeability (ϵ), and) of epoxy resins ED-5% ED-6, and ED-L (see phenylolpropane and epichlorohydrin. Dielectric ed with an increase in molecular weight and t) shifted toward higher temperatures. The resins decreased with an increase in molecu- epoxy resins affected tg δ more than ϵ or p_{v} .
Card 1/2 UDC	: 678.643 42 5.01 : 537.226



APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9

KOVRIGA, V.V.

Apparatus for plotting the stress-deformation curve in one-dimensional stretching at a velocity of 25-30 m/sec within a wide temperature range.

Report presented at the 13th Conference on High-molecular compounds,

APPROVED FOR RELEASE: 06/14/2000

CUL', V.Ye., KOVRIGA, V.V., VASSERMAN, A.M.

Effect of supermolecular structures on the strength of polypropylene.

Report to be presented at the 13th Conference on high-molecular compounds Moscow, 8-11 Oct 62

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9"

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L 06343-67 EWP(j)	/EWT(m) IJP(c) RM/WW
ACC NR: AP603032	
AUTHOR: Gul', V.	Kovriga, V. V.; Rogovaya, E. M.; Gromova, N. P. 28
	Polymer Chemistry and Technology, Moscow Technological Institute ry Industry (Kafedra khimii i tekhnologii polimerov, Moskovskiy Institut myasnoy i molochnoy promyshlennosti)
	offect of supermolecular structure let teste star is 15
SOURCE: IVUZ. Khir	iya i khimicheskaya tekhnologiya, v. 9, no. 3, 1966, 486-490
	opylene plastic, polymor structure, mochanical property
ABSTRACT: The auth structure and <u>mecha</u> between the strengt the size of spheroi degree of crystalli unaffected by the f istics decrease sub spherulites $\ge 165 \ \mu$ formation condition	ors continue their study of the relationship between the crystal <u>nical properties</u> of polypropylone by considering the relationship h characteristics (breaking stress and elongation at rupture) and dal aggregates in films of isotactic polypropylone. The dynamic nity of the films was detormined from NMR data, and found to remain ormation of spherulites of various sizes. The strength character- stantially with increasing spherulite size. In the presence of in size, brittle failure of the material takes place under the de- s employed. Failure along the spherulite boundaries and in the ves is equally probable. The causes of change in the character of
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KOVRIGIN, A.A.

Using X-ray structure analysis at the Kuznetsk Metallurgical Combine. Zav. lab. 24 no.5:653-654 158, (MIRA 11:6)

1. TSentral'naya laboratoriya Kuznetskogo metallurgicheskogo kombinata.

(X-rays-Industrial applications)

APPROVED FOR RELEASE: 06/14/2000

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AUTHORS: Kondrat'yev, A.	SOURCE CODE: UR/0286/65/000/020/0067/00
ORG: none	V.; Kovrigin, A. A.; Shevchenko, L. Ya.
TITLE: A precision unit	for linear geodetic manage . 9M
kartografii)	itute of Engineers of Geodesy, Aerophotography, and Institut inchemeroy geodezii, aerofotos yenki i
SOURCE: Byulleten' izobre	teniy i tovarnykh snakov, no. 20, 1965, 67
TOPIC TAGS: geodest	1965, 67
ARSTRAMENT BELLY, BULY	eying instrument, measuring apparatus, CEODETIC
MARRITONON'S MILLION CUT	Cliicate presents
lateral flanges. A precis	tificate presents a precision unit for linear geodetic ntains a sheave supporting a loaded thread, and two ion ball bearing is mounted in each of these flanges (see Fig. 1). To increase the sensitivity
Other boll hand	(See Fig. 1). To theme - is out of these lighter
ng. A Inte to	seed 10 to the sheave consistivity of the unit.
to the precision bearings	essed into the sheave coaxially with the precision bear- naide the second bearings, with its supports pressed A space in the knife blade is filled with a
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	UDC: 528.5187.4

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Kovrigin, A.B., and Belopolskaya, A. R.

Segmentation of complex sentences (German) Vypusk 2, Moscow, 1961, 10 p

Paper read at the Moscow Conference on information processing, machine translation, and automatic text reading, January, 1961.

APPROVED FOR RELEASE: 06/14/2000

ACCESSION NR: AT4008632	s/3040/63/000/002/0105/0115
AUTHORS: Baluyev, A. N.; Bratchil V. N.; Kovrigin, A. B.; Marty*nen S. S.	kov, I. L.; Balina, G. I.; Igolkin, ko, B. K.; Poroshin, B. S.; Surin,
TITLE: Compiling routine for an o input language ALGOL	electronic digital computer using
	Kafedra vy*chislitel'noy matematiki hislitel'naya tekhnika i voprosy* 05-115
TOPIC TAGS: digital computer, dig computer language, computer language programming, machine language, bir language, ALGOL	
ABSTRACT: The input language and	the algorithm of the programming
Card 1/2	

ACCESSION NR: AT4008632

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program developed in the Computation Center of Leningradskiy Universitet (Leningrad University), which is an abbreviated and modified variant of ALGOL-60, is described. The language differs from ALGOL in that the program as a whole constitutes one block and there are no descriptions of types; a separate class of identifiers is used for each class. The operators (particularly the procedure operators) and the description of the procedures are simplified and standardized The input language itself and the operating principles of the programming program are described in detail and the algorithm for solving a system of linear algebraic equations of 50th order by the Gauss method, with choice of the principal element, is used as an example. Orig. art. has: 28 formulas.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet (Leningrad State University)

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APPROVED FOR RELEASE: 06/14/2000



CIA-RDP86-00513R000825630008-9

KOVRIGIN, A.B.

Formulation of a motorbus traffic schedule using the "Ural-1" computer. Vych. tekh. i vop. prog. no.3:97-104 '64. (MIRA 18:3)



APPROVED FOR RELEASE: 06/14/2000

AKHMANOV, S.A.; KOVRIGIN, A.I.; KHOKHLOV, R.V.; CHUNAYEV, O.N.

Length of coherent interaction of light waves in a nonlinear medium. Zhur. eksp. i teor. fiz. 45 no.5:1336-1343 N '63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/14/2000

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KOVRIGIN, A.I.	
USSR/General and Spocialized Zoology. Insects. Biology P and Ecology	
Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49500	
Author : Kovrigin A.I. Inst : Gorno-Altayskiy State Pedagogical Institute. Title : The Reology of Bugs of the Genus Eruydema Lap.	
Orig Pub : Uch.zap. Gorno-Altayskiy gos. pod. in-t, 1956, vyp. 1, 147-167	
Abstract : The study of the bugs of the genus Eurydema was carried out in the Transcarpathian region in 1949-1953. The importance of wild plants of themustard family and other weeds on virgin soils and waste lands for feeding the bugs during the active phases of their life was determined. Data about the feeding connections of the rape, eab- bage and decorated bugs bear testimony to the fact that the genus as a whole is polyphagous. Preferring the cultivated mustard plants to the	
Card : 1/2	

APPROVED FOR RELEASE: 06/14/2000

	AP6014614
	Akimanov, S. A.; Kovrigin, A. I.; Kolosov, V. A.; Piskarskas, A. S.;
Fad	v, V. V.; Khokhlov, R. V.
ORG	Physics Department of the Moscow State University (Fizicheskiy fakul'tet
	and a state generator with KDP CIVETEL
SOU	E: Zhurnal eksperimental noy i teoreticheskoy fiziki. Fis ha v isano 2 1066 372-378
TOI	TAGS: laser r and d, parametric converter, parametric amplifier, and
COI ABS Im gen Coi to to	oal ACT: The authors present in this communication the results of an experiment tigation that has led to the construction of a continuously tunable parametr ator of coherent light waves in the region of $\lambda \simeq 1 \mu$, using a KDP crystal. muous tuning of the wavelength was effected mechanically in a band from 9575 muous tuning of the wavelength was effected several kilowatts. The frequency 1 775 Å, and the oscillation power reached several kilowatts. The frequency 1 by rotating a nonlinear crystal in an optical resonator (Fig. 1). Such a
sc th ci	he has made it possible not only the reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better hitherto, but also to attain better reproducibility of the generated frequence hitherto, but also to attain better hitherto, b
wi pu	Nd ³⁺), the maximum pump power in the unfocused beam reached 55 \times 10 ⁻⁹ sec, and the beam divergence was $\sim 7' - 8'$, with pulse duration was 25 x 10 ⁻⁹ sec, and the beam divergence was $\sim 7' - 8'$, with



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26244-66 EEC(k)-2/EWA(h)/EWP(k)/EWT(1)/EWT(m)/FBD/T/EWP(e) IJP(c) WS/WH L ACC NR: AP6014020 SOURCE CODE: UR/0056/66/050/004/0829/0843 AUTHOR: Akhmanov, S. A.; Kovrigin, A. I.; Chirkin, A. S.; Chunayev, C. N. ORG: Moscow State University (Moskovskiy gosudarstvennyy universitet) \mathcal{B} TITLE: Statistical effects associated with the generation of optical harmonics SOURCE: Zhurnal eksperimental'noy 1 teoreticheskoy fiziki, v. 50, no. 4, 1966, TOPIC TAGS: laser, nonlinear optics, second harmonic, ruby laser ABSTRACT: Results of an experimental and theoretical investigation of statistical effects appearing during generation of the second harmonic in optically transparent crystals are presented. It is established experimentally that under real conditions the correlation coefficient between the power of the second harmonic P_2 and the square of the power of the fundamental radiation emitted by a solid state laser, P1, differs from unity and that the proportionality factor K in the equation, $P_2 = KP_1^2$, is a random quantity. In order to explain these effects in the approximation of the field of fundamental radiation, a theory of generation of optical harmonics in the field of randomly modulated waves is developed which takes into account spatial as well as temporal incoherence of the fundamental radiation. The spatial dimensions characterizing the generation of optical harmonics by a bound, randomly modulated beam in an anisotropic medium are determined. It was found that the main Card 1/2

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source mode gener	phases, mod ation of the Masers 251	ss fluctuation de number, au he optical h Experiments	armonics b on the gen	eing attain eration of	ed by me optical	ans of ruharmonic	ubyfor s and m	n <u>eodymium</u> fixing of It is noted
frequ	encies by t	Experiments means of non se spatial i bles, and 47	ncoherence	effects ar	e import	ant. Or	ig. art	. has: [CS]
		SUBM DATE:			015/ 0)TH REF:	010/	ATD PRESS: 4244

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825630008-9"

이 지난 것 같은 것 같은 것 같아.	AP5026099		SOURCE CODE:	UR/0386/65/002/005/0223/022
AUTHOR:	Akhmanov, S. A.;	Kovrigin, A. I.;	94,55 Piskarskas, A.	5.; Khokhlov, R. V.
ORG: <u>Mo</u> universi	<u>scow State Univer</u> tet)	Bity im. M. V. L o	monosov (Moskov	skiy gosudarstvennyy \mathcal{B}
Prilozher	niye, v. 2, no. 5	, 1965, 223-227	ticneskoy fizik:	l. Pis'ma v redaktsiyu.
TOPIC TAG	S: nonlinear op armonic, ۵۷ منگمه	tics, laser, frequ tim, crystal, R	ency conversion	harmonic generation,
generated	1 in the frequenc	y range between 0	.53 and 0.26 u.	nochromatic radiation was The power output of the
c101 11 1	WO SUCCESSIVE KU	P or ADP crystals	was not less th	sion of the unfocused radia an 3 Mw. The experimental
arrangeme	ent used is shown	in Fig. 1. A be	am from a O-svil	ched neodymium laser m-long KDP crystal. The
	the second harmo	nic (λ, = 0.53 u)	Po from the fin	st KND orvetal you and
power or	JO DFORUCA THA ***	urth harmonic (λ_{i}	= 0.26 µ by do	oubling the frequency of
ficient t the second	id narmonic, or t	ne third harmonic	(A2 - V.J) U/ (y mixing the fundamental
ficient t the second	id narmonic, or t	ne third harmonic	crystal. A who]	e series of discrete spec-

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			Table 1.			
		P1	Pa	P4	00 [*]	Interaction employed
	Fourth harmonic generation	150 MJ/cm²		,3 HX/caf	77•	70(3m) + 70(3m) → 78(4m)
	Third harmonic	150 Mi/cur	8 181/cat		49.	$\gamma_0(\infty) + \gamma_0(2\infty) \rightarrow \gamma_e(5\infty)$
	generation				-0.0	
	rection for	the intera	ctions li	sted in th	le las	the index matching di- t column.
oubling esults	rection for P ₂ /P ₁ was are summari	the intera about 30-3 zed in Tabl	ctions li 5% and the e l. Orig	sted in th at of the g. art. he	and te las P_4/P_2 ts: 1	the index matching di-

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825630008-9"

L 7690-66 EWA(k)/FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h)SCTR ACC NR: AP5027987 SOURCE CODE: UR/0386/65/002/007/0300/0305 44,55 44.54 44.55 44,55 AUTHOR: Akhmanov. Kovrigin, A. I.; Piskarskas. S.; Fadeyev, hokh lov. R. V. 44,55 ORG: Physics Faculty of the Moscow State University (Fizicheskiy fakul'tet Moskovsko go gosudarstvennogo universiteta) TITLE: Observation of parametric amplification in the optical range SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. (Prilozheniye), v. 2, no. 7, 1965, 300-305 21.44,55 TOPIC TAGS: parametric amplifier, laser, laser amplifier optical pumping ABSTRACT: The authors report the results of an experiment in which they observed parametric amplification of an optical signal with wavelength $\lambda_{g} = 1.06 \mu$ by its second harmonic at $\lambda_p = 0.53 \mu$. The feasibility of such an effect in the optical band and its theory were detailed earlier (ZhETF v. 43, 351, 1962). The experimental setup is shown in Fig. 1. A beam from a neodymium-glass laser was fed into a KDP frequency modulator producing the second harmonic (KDP-I crystal & = 3 cm long), and served simultaneously as the signal beam. At the output of the frequency modulator, the power ratio of the second harmonic (P2) to the radiation at the fundamental frequency (P₁) was $P_2/P_1 = 0.2-0.3$. After passing through the filter system F₁, this ratio became equal to $P_2/P_1 = 10^4 - 10^5$. Thus, the second, amplifying KDP crystal was Card 1/3

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CIA-RDP86-00513R000825630008-9



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KOVRIGIN, A.I.

Damage caused by bugs of the genus Eurydema Lap. to vegetable crops. Zashch. rast. ot vred. i bol. 6 no.3:56 Mr '61. (MIRA 15:6)

1. Pedagogicheskiy institut, g. Gorno-Altaysk. (Gorno-Altai Autonomous Province---Vegetables---Diseases and pests) (Eurydema)

APPROVED FOR RELEASE: 06/14/2000

KOVRIGIN, A.I.

Hop pests. Zashch. rast. ot vred. i bol. 6 no.8:55-56 (MIRA 15:12) Ag '61.

1. Gorno-Altayskiy pedagogicheskiy institut. (Gorno-Altai Autonomous Province-Hops-Discusses and pesta) (Gorno-Altai Autonomous Province-Hops-Discusses and beneficial)

APPROVED FOR RELEASE: 06/14/2000

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825630008-9 Cord Para KOVRIGIN, A.I. Geographical distribution and significance of hemipterons in some regions of the Gornyy Altai. Izv. Alt. otd. Geog. ob-va SSSR no.5:161-163 '65. (MIRA 18:12) 1. Gorno-Altayskiy pedagogicheskiy institut. APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825630008-9" KOVRIGIN, A.V.

Veterinary service in Moscow. Veterinariia 33 no.8:10-15 Ag '56. (MLRA 9:9) 1.Nachal'nik veterinarnogo otdela ispolkoma Mosgorsoveta. (Moscow Province--Veterinary medicine)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825630008-9"

KOVRIGIN, A.V.

City veterinary services. Gor.khoz.Mosk. 36 no.2:28-29 F 162. (MIRA 16:2)

1. Zaveduyushchiy Moskovskim gorodskim veterinarnym otdelom.

(Moscow---Veterinary medicine)

APPROVED FOR RELEASE: 06/14/2000

KOVRIGIN, A.V.; VIZIROV, B.N.; VOLKOVA, F.M.

Paratyphoid diseases. Veterinariis 41 no.8:33-34 Ag 164.

(MIRA 18 🕰

1. Zaveduyushchiy Veterinarnym otdelom Ispolnitel'nogo komiteta Moskovskogo gorodskogo Soveta deputatov trudyashchikhsya (for Kovrigin). 2. Starshiy veterinarnyy vrach Veterinarnogo otdela Ispolnitel'nogo komiteta Moskovskogo gorodskogo Soveta deputatov trudyashchikhsya (for Vizirov). 3. Zaveduyushchaya bakteriologicheskim otdelom Moskovskoy veterinarnoy laboratorii (for Volkova).

APPROVED FOR RELEASE: 06/14/2000

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AUTHORS:	Kovrigin, B.S., Petrzhak, K.A.	30V/ 89-4-6-6/30
TITLE:	Investigation of the Statistical Distr Spontaneous Fission of U^{239} on the Bas Fission Fragments (Issledovanive stati aktov spontannogo deleniya U^{238} po end	is of the Energies of Two
PERIODICAL:	Atomnaya energiya, 1958, Vol 4, Nr 6,	, pp 547-554 (USSR)
ABSTRACT:	By means of an apparatus consisting of 2 amplifier channels, a colucidence so momentum-oscillograph the kinetic ener fragments was measured, namely for 780 fission of U ²³⁸ and about 4500 cases of slow neutrons. On the basis of these data the statistic acts of spontaneous fission and of fis- the energy of the two fission fragment this distribution the following curves kinds of fission:	wheme, and a double-beam rgy of each of the two fission) cases of the spontaneous of the fission of U ²³⁵ with tical distribution of the ssion with slow neutrons over ts was drawn. With the aid of
Card 1/4	1.) Energy apactrum of all fission fre	oments, both light embesso

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825630008-9"

Investigation of the Statistical Distribution of Events SOV/89-4-6-6/30 of Spontaneous Fission of U^{238} on the Basis of the Energies of Two Fission Fragments

- 2.) Distribution of the acts of fission over the total kinetic energy of both nuclear fragments.
- 3. Mass distribution of fission fragments.
- 4.) Dependence of the total kinetic energy of both fission fragments on the mass ratio of fission fragments.
- 5.) Dependence of the kinetic energy of light and heavy fragments on the total kinetic energy.

For both kinds of fission the respective ourves take the same course.

The following are the characteristic properties of the fission spectrus

Card 2/5

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Investigation of the Statistical Distribution of Events SOV/89-4-6-6/30 of Spontaneous Fission of U^{238} on the Basis of the Energies of Two Fission Figurents

	Spontansor	s fission	Fission with slow neutrons	
	Light fragments	Heavy fragments	Light fragments	Heavy fragments
Most protable energy in MeV Halt width of	90.0 <u>+</u> 0.3			56.6 <u>+</u> 0.15
peak in MeV Ratio of most prob	17.5	21.1	19.2	23.5
able energies Ratio between the peak of light and	1. that	6	1.6	3
of keavy fragments Ratic between the height of the sadd separating the pes and the beight of peak of light fiss	l 1. Le ks tha	13	1.1	5
fragmanta	0.	33	0.4	2

Car3 3/4

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Investigation of the Statistical Distribution of Events SOV/89-4-6-6/30 of Spontaneous Fission of U^{238} on the Basis of the Energies of Two Fission Fragments

These are 7 figures, 1 table and 16 references

SUBMITTED: July 1. 1957

Fission fragments--Energy 2. Statistical analysis
--Applications 3. Uranium isotopes (Radioactive)---Fission
Slow neutrons--Energy

Caza 4/1

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9

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21(8) AUTHORS:	<u>Kovrigin, B. S.</u> Kondrat'ko, M. Ya., 50V/56-36-1-46/62 Petrzhak, K. A.
TITLE:	The Energy Spectrum of the Fragments of the Photofission of U ²³⁸ (Energeticheskiy spektr oskolkov fotodeleniya U ²³⁸) Zhurnal eksporteeste bi
PERIODICAL:	Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 1, pp 315-317 (USSR)
ABSTRACT :	In the present paper the energy spectrum mentioned in the title is determined at a maximum energy of 12.5 Mev of the betatron γ -radiation. The apparatus used for measuring the kinetic energy of the fragments of photofission consisted of and an electron pulse oscillograph with photorecording. The axis of the ionization chamber in operational position formed an angle of 15° with the axis of the beam. A diagram shows the energy spectrum of the fragments of the photofission of γ^{238} at a maximum energy of 12.5 Mev of betatron bromstand.
Card 1/3	By means of the same apparatus and on the same preparation also the energy distribution of the fragments of the fission of

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CIA-RDP86-00513R000825630008-9

The Energy Spectrum of the Fragments of the Photofission of U^{238}

SOV/56-36-1-46/62

 U^{235} by slow neutrons was determined. Also this distribution is shown by the aforementioned diagram. The spectrum of the photofission fragments has the most probable energies 55.1 \pm 1 and (86.9 \pm 1) Mev for the groups of heavy and light fragments. If the absorption in the layer of this preparation is taken into account, these two values increase by about 5 Mev. The two spectra differ mainly by the ratio between the height of the "trough" between the two maxima and the height of the peak of the light fragments. In the spectrum of photofission it is 0.60, and in the spectrum of spontaneous fission it is 0.33. This difference may be due to the stronger excitation of the nucleus in photofission and also to the superposition of fluctuations of the compensated χ^{-} background. In spite of the considerable excitation energy, no essential increase of the most probable energies of fragments and of the kinetic energy in photofission compared to spontaneous fission was observed. The peaks of the photofission spectrum are somewhat more close to one another than the corresponding peaks of the spectrum of spontaneous fission.

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CIA-RDP86-00513R000825630008-9

The Energy Spectrum of the Fragments of the SOV/56-36-1-46/62 Photofission of U²³⁸ There are 2 figures, and 3 references, 2 of which are Soviet. ASSOCIATION: Leningradskiy tekhnologicheskiy institut (Leningrad Technological Institute) SUBMITTED: June 24, 1958

Card 3/3

APPROVED FOR RELEASE: 06/14/2000

33662 s/058/61/000/012/016/083 A058/A101

2/.2/10 AUTHORS: Kovrigin, B.S., Petrzhak, K.A.

TITLE: Production of thin free films containing uranium or thorium

PERIODICAL: Referativnyy zhurnal. Fizika, no. 12, 1961, 74, abstract 12B283 (In. Leningr. tekhnol. in-ta im. Lensoveta, 1961, no. 55, 23 - 27)

TEXT: There was worked out a technique for producing thin free films containing uranium or thorium by cathode spraying a cellulose nitrate backing with its subsequent dissolution. More than 20 films were prepared, each with surface density $0.1-0.2 \text{ mg/cm}^2$ and working area 60 cm². The uranium films contained 70% U₃O₈, and the thorium films contained 40% thorium and ThO₂. Comparison of ∞ particle spectra and uranium fission fragments from both sides of films showed that impurities (organic matter and moisture) are distributed throughout film thickness and that the backing side has a residual layer with surface density 0.01 mg/cm².

[Abstracter's note: Complete translation]

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KOVRIGINA, Ye.K.; KOVRIGIN, F.P.

Stratigraphy of the Pre-Cambrian of the western slope of the Yenisey Ridge in the Verkhnyaya and Nizhnyaya Surnikha, Stolbovaya, and Isakovka Basins. Inform.sbor.VSEGEI no.40:3-15 (MIRA 14:12) '60.

(Yenisey Ridge-Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/14/2000



CIA-RDP86-00513R000825630008-9

PETROV, Sergey Mikhaylovich: KOVRIGIN, Mikhail Grigor!yevich: SHATILOV, A.I., inzh., retsenzent: MOTORNYY, V.I., kand. tekhn. nauk, red.; MATVEYEVA, Ye.N., tekhn. red.

[Small capacity $G_{n}\frac{8.5}{11}$ diesels] Dizeli Gn $\frac{8.5}{11}$ malomoshchnye. Moskva,

Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 269 p. (Diesel engines) (MIRA 11:8)

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56) PHASE I BOOK EXPLOITATION

SOV/2555

- Nauchno-tekhnicheskoye obshchestvo priborostroitel noy promyshlennosti. Ukrainskoye respublikanskoye pravleniye
- Novyýe metody kontrolya i defektoskopii v mashinostroyenii i priborostroyenii [doklady Respublikanskoy konferentsii] (New Methods of Inspection and Flaw Detection in the Machinery and Instrumentmanufacturing Industries [Reports of the Conference Held at Kiyev, 1956]) Kiyev, Gostekhizdat USSR, 1958. 264 p. 4,700 copies printed

Sponsoring Agency: Akademiya nauk USSR.

- Ed.: A. Amelin; Tech. Ed.: P. Patsalyuk; Editorial Board: I.I. Greben', B.D. Grozin, A.Z. Zhmudskiy, G.N. Savin (Resp. Ed.), I.D. Faynerman (Dep. Resp. Ed.), and A.A. Shishlovskiy.
- PURPOSE: This book is intended for engineers, scientific workers, and technicians dealing with problems of inspection and flaw detection.

COVERAGE: This is a collection of scientific papers presented at a

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New Methods of Inspection (Cont.)

SOV/2555

conference sponsored by the Academy of Sciences, UkrSSR, and the Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti, Ukrainskoye pravleniye (Ukrainian Branch, Scientific and Technical Society of the Instrument-manufacturing Industry). The papers deal with modern methods of inspection and flaw detection used in the machinery- and instrument-manufacturing industries. The subjects discussed include the use of electron microscopes in the investigation of metal surfaces; X-ray, gamma-ray, luminescense, magnetic, and ultrasonic methods of flaw detection; use of radioactive isotopes; X-ray diffraction methods of metal analysis; and the use of interferometers for measuring length and thickness and determining the coefficient of linear thermal expansion. No personalities are mentioned. References follow several of the papers.

TABLE OF CONTENTS:

Introduction

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Semirog-Orlik, V.N., Candidate of Technical Sciences, Institut stroitel'noy mekhaniki ANUSSR, Kiyev (Kiyev Institute of Structural Mechanics, Academy of Sciences, UkrSSR). Use of Electron Microscopy of Surface Layers of Metal 5 Card 2/9

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9"

3

New Methods of Inspection (Cont.) SOV/2555 Arkhangel'skiy, A.A., Engineer, I.V. Vorob'yev, Engineer, O.D. Kovrigin, Engineer, and G.D. Latyshev, Leningradskiy institut Inzhenerov zheleznodorozhnogo transporta (Leningrad Railroad Engineers Institute). Pulse-counting Method of Gamma-ray Flaw Detection 18 Bogdanov, V.I., Candidate of Technical Sciences, Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnical Institute). Selection of Radioactive Sources for Measuring Equipment 25 Movchan, B.A., Candidate of Technical Sciences, Institut elek-trosvarki imeni Ye.O. Patona, Kiyev (Kiyev Electric Welding In-stitute imeni Ye.O. Paton). Use of Radioactive Isotopes in the Detection of Flaws in Welds 41 Zhmudskiy, A.Z., Doctor of Technical Sciences, Professor, Gosuniversitet imeni Shevchenko, Kiyev (Kiyev State University imeni Shevchenko). X-ray Diffraction Method of Inspecting Finished Parts 50 Card

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825630008-9

1

KOVRIGIN, O.D.; LATYSHEV, G.D.

Measurement and stabilization of the magnetic field of the betaspectrometer with double focusing by using a magnetic modulation probe. Inzh.-fiz.zhur. no.ll:92-97 N '58.

(MIRA 12:1)

1. Institut inzhenerov zheleznodorozhnogo transporta, g. Leningrad.

(Magnetic fields)

APPROVED FOR RELEASE: 06/14/2000