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Combined resonances due to vibration of elastic rods subjected to longitudinal forces varying according to the biharmonic law, Nauch.dokl.vys.shkoly; stroi. no.2:5-16 '59. (MIRA 13:4)

1. Rekomendovana kafedroy stroitel'nykh mashin Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva. (Blastic rods any Wires--Vibration)

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國際國家主

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DOMBROVSKIY, N.G., doktor tekhm. nauk, prof.; PANKRATOV, S.A., doktor tekhm. namk, pref.; VDOVENKO, Z.I., red. izd-va; CARNUKHIN, Ye.K., tekhm. red. [Excavating machinery] Zemleroinye mashiny. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam. Pt.1. [Bucket excavators] Odnokovshovye ekskavatory. 1961. 650 p. (MIRA 14:10) 1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Dombrovskiy). (Excavating machinery)

CIA-RDP86-00513R001239

PANKHATCV, S.A., doktor tekhn.nauk Using differential vibrators with twisting vibrations for working frozen soils and hard rock. Stroi. i dor. mash. 6 no.5:13-15 My '61. (MIRA 14:6) (Vibrators) (Earthwork)

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家们的物理的编辑的主

PANKRATOV, S.A., doktor tekhn.nauk, prof., BOGUSLAVSKIY, P.Ye., kand. tekhn.nauk, retsenzent; SOKOLOVA, T.F., tekhn. red.; UVAROVA, A.F., tekhn. red.

> [Fundamentals of the design of main units of excavators and cranes]Konstruktsiia i osnovy rascheta glavnykh uzlov ekskavatorov i kranov. Moskva, Mashgiz, 1962. 539 p. (MIRA 15:10)

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(Excavating machinery) (Cranes, derricks, etc.)

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ZENKOV, R.L., doktor tekhn. nauk; PANKRATOV, S.A., doktor tekhn. nauk, prof., retsenzent

> [Mechanics of bulk freight; bases for designing loading and unloading and transporting equipment] Nekhanika nasypny'h gruzov; osnovaniia rascheta pogruzochno-razgruzochrykh i transportnykh ustroistv. Izd.2., ispr. i dop. Moskva, Mashinostroenie, 1964. 250 p. (MIRA 17:9)

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PANKRATOV, S. A. (Prof, Dr. Tech. Sci.) "Problems of calculation of band conveyors for operational safety and service life." "Peculiarities of dynamic calculation of boom design in dredges, cranes, and "Abetzer" [gravel and rock remover?] in regard to cables and girders of great length." "Some physical laws of rock crushing in crushers." reports submitted for Intl Conv on Conveyor Engineering & Construction Machinery, Magdeburg, E. Germany, 7-12 Sep 64.



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FARFRATUR, S.A., prof.; 1874Th V, V.B., 1824.

REPAIRS HAR AND A

Bending stresses in conveyor belts. 127. vys. ucheb, zav.; gcr. zhur. 8 no.1:79-82 '65. (1162-18:3)

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1. Universitet druzhby nařodov imeni Patrisa Lumumby, Kekomendovama kafedroy konstruktsii detaley uzlov mashin i mekhanizmov.

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PANKRATOV, S.A., prof.; KELLN, O.J., inzh.

新生物生物的非

Determining the frequency response of belt conveyor vibrations defending on the position of the driving drum. Izv.vyz.ucheb.zav.;gor.zhur. 7 no.9:113-120 '64. (MIRA 18:1)

1. Universitet druzhby narodov imeni Patrisa Lumumby. Rekomendovana kafedroy konstruktsii detaley, uzlov mashin i mekhanizmov.

ANALAS INTRACTOR - COMPACTING AND INTERACTION CONSERVATION

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ACC NR: AM5028	NI(m)/EWP(v)/EWP(j)/T IJP 586 Monogr	apn	42	
Architecture	. (Candidate of Technical 5); <u>Parkratov, S. I. (Engine</u> , G. R. (Engineer)	er); <u>Gershikov, B. M.</u> (E	ngineer); H/ B+/	Acres of the second
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effectiveness in using horret	ic sealing in large panel construction. This book and technicians in the industry of synthetic[milding oject organizations and building manufacturers.	8 8 8 8	
TABLE OF CONTENES (abridged):			
	s and hermetically sealing them -10		
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经济中和金融管理 网络公司

PANKRATOU, V. (g.Kotlas); YATCHENKO, F. (g.Kotlas)

Creation of protective forest belts on the Pechora railroad. Zhel.dor.transp. 36 no.5:71-73 My '55. (MIRA 12:5)

1. Glavnyy inzhener Pechorskoy dorogi (for Pankratov). 2. Nachel'nik otdela zashchitnykh lesonasazhdeniy Pechorskoy zheleznoy dorogi (for Yatchenko).

(Russia, Northern--Railroads--Snow protection and removal) (Russia, Northern--Windbreaks, shelterbelts, etc.)

VATAZHINA, V., kand. tekhn. nauk; KHOMENKO, Z., kand. tekhn. nauk; PANKRATOV, V., inzh.; PANFEROVA, A., inzh.; POMANSKAYA, M.; inzh.; DEMINA, Ye., inzh. Modern joint-sealing materials in housing construction. Zhil. stroi. no.9:5-6 '65. (MIRA 18:11)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239 is a statute of the second with VATAZHINA, V., kand.tekhn.nauk; PANKRATOV, V., insh. Sealing for joints of large-paral, buildings. Na stroi. Ros. 4 no.5:26 My '63. (MIRA 16:5) (Building-Details) (Polymers) APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390





ann-markana Charles and the second straight PANKRATOV, V., MUSIN, B. Application of liquid asphalt in concrete maintenance. Avt.dor. 22 no.7:11 J1 '59. (MIRA 12:9) (Asphalt) (Pavements, Concrete) APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390



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YORNA BENG CHERREN STORA FARKEN DU U. PANKRATOV, V., pedpolkovnik v zapase; PEKERMAN, I., podpolkovnik v zapaso.

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Irmortal feats. Voen. znan. 33 no.12:6-7 D '57. (World War, 1939-1945--Personal narratives) (MIRA 11:1)



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Chief, Dept. of Republic Highways of Chief Road Administration of the Council of Ministers of Kazakh SSR.	
Engineering.	
On road construction & repairs.	
Source: N; Kazakhstanskaya Pravda, Alma-Ata 4June 147 Abstracted in USAF "Treasure Island" report No. 4220 on file in Library of Congress, Air information Division	
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	ACCESSION NR: AP4010044 AUTHOR: Korshak, V. V.; Vinogradova, S. V.; Pankratov, V. A.;	-
	Baskakov, A. M. Betero backbone. Report No. 54.	
	Svithesis ind Stateshows and diphenyl-bis-(4-0.0) provide the	
	SOURCE: AN SSSR. Izvestiya. Ser. Knim., no. 1, 194	
	oxyphenyl) methano, dicarboxylic acids, polymer thermous side substituents phenols, aromatic dicarboxylic acids, polymer thermous side substituents polymer workability, polymer solubility, voluminous side substituents polymer workability, polymer solubility, voluminous side substituents interphase polycondensation, equilibrium polycondensation, polymer	
	ABSTRACT: In the search for polymers with high thermal stability an good workability, interphase or equilibrium polycondensation was car ried out for the synthesis of homogenous and mixed polyarylates base	a đ
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ACCESSION NR: AP4010044 on the title compounds, hydroquinone, diane and the acid chlorides of terephthalic and isophthalic acid in a high-boiling solvent. The presence of the thermostable phenyl ring in the backbone as well as on the macromolecular side branches in the end products also was expected to result in less packing of the backbone, thus better workability. Yields, viscosity in solution, softening point, break, and stretchability are graphed for some homogenous compounds, rs well as solubility, thermomechanical properties and degree of crystallization for seven mixed polyarylates based on either of the title compounds and the acids, hydroquinone and diane. Interphase polycondensation yielded homogenous polyarylates whose pellicles had good elasticity and solubility. Equilibrium condensation yielded homogen-ous polyarylates with high thermostability and non-solubility. Mixed polyarylates with terephthalic acid were more heat-stable and less soluble than those with isophthalic acid. The softening point passed through a minimum upon addition of the title compounds. title compounds gave mixed polyarylates easily soluble in many or-Both ganic solvents. The presence of voluminous phenyl side substituents Cord 2/3

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	<u>L 3398-66</u> EWI(m)/EPF(c)/EWP(j) RM ACCESSION NE: AP5024214 445 UR/0020/65/164/003/0563/0566	
	AUTHORS: Vinogradova, S. V.; Korshak, V. V. (Corresponding member AN SSSR); 47 Pankratov, V. A.; Tur, D. R. W. TITLE: Investigation of the kinetics of polycondensation of bisphenols with the	
	acid chloride of terephthalic acid	
	SOURCE: AN SSSR. Doklady, v. 164, no. 3, 1965, 563-566	
	TOPIC TAGS: polycondensation, terephthalic acid, bisphenol, organic compound, polymer	
	ABSTRACT: The kinetics of the polycondensation of bis-(4-oxyphenyl)-methane, 2,2-bis-(4-oxyphenyl) propane, 2,2-bis-(4-oxyphenyl)-hexafluoropropane, bis-(4- oxyphenyl)-phenylmethane, 2,2-bis-(4-oxyphenyl)-2-phenylethane, bis-(4-oxyphenyl) trifluoromethylphenylmethane, and bis-(4-oxyphenyl)-diphenylmethane with the acid chloride of terephthalic acid in the temperature region from 160-200C was inves-	
	tigated. The purpose of the investigation was the determination of the influence of the nature of substituents at the central carbon atom of bisphenols on the reactivity of the latter. The reactions were carried out in ditoluyl methane in a	
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urrent of dry oxygen-free nitrogen. The experimental results are sh raphically (see Fig. 1 on the Enclosure). Energies of activation an		
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actors derived from Arrhenius' plots: are tabulated. A reaction mech proposed. It is concluded that the reactions studied belong to the r	enism is	
roposed. It is concluded that the reactions schuled backing us the i imolecular reactions. Orig. art. has: 2 tables, 3 graphs, and 2 fo	ormulas.	
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ACCESSION NR: AP501 AUTHOR: Pankratov,	44.55 V. A.; Korshak, V	541.6+539.4 بلا 55 V.; Vinogradova, B. V.	51 '36 By
1		of 2',7'-dihydroxyspiro[flu himicheskaya, no. 7, 1965,	
ABSTRACT: Homo- and rene-9,9'-xanthene]	d co-polymeric pol have been prepare evend good solubil e other reactants	lstant polymer, solubility 44,35 lyaryl esters based on 2',7' ed in an attempt to produce lity in common organic solve were terephthalic and/or is	ents, and hence, better
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L 01046-66 4 ACCESSION NR: AP5019781 (where R_1 and R_2 are alighatic, perfluorinated, and aromatic substituents) as well as hydroquinone and resorcinol. The polymers and copolymers had high softening points (320-370C) and good solubility in tricresol, tetrahydrofuran, and chlorinated hydrocarbons. The presence in the polymer repeat unit of stable aromatic systems increases their thermal stability and suggests that they will also exhibit high radiation resistance. Orig. art. has: 1 table and 3 formulas. ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Organoelemental Compounds, Academy of Sciences, SSSR) 0C,GC SUB CODE: ATD PRESS: 4068 ENCL: 00 300ct64 SUBMITTED: OTHER: 002 NO REF SOV: 005 Card 2/2

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L 3785-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) RPL WW/RM ACCESSION NR: AP5025510 UR/0062/65/000/009/1649/1654	
AUTHOR: Korshak, V. V.; Vinogradova, S. V.; Pankratov, V. A. 42	
TITLE: Heterochain polyesters. 56. Fluorinated polyarylates 19,44,55 3 SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1649-1654 3	
TOPIC TAGS: polymer, fluorinated polymer, polyester, polyarylate	
ABSTRACT: The purpose of this work was to prepare homo- and heteropolyarylates from 2,2-bis-(4-hydroxyphenyl)-1,1,1,3,3,3-hexafluoropropane $72,2$ -bis-(4-hydroxy- phenyl)-1,1,1-trifluoro-2-phenylethane with terephthalic, isophthalic, perfluoro- adipic, and perfluorosebacic acids, and to investigate the properties of the polymers obtained. It was found that replacement of the methyl group at the central carbon atom of the diphenols by a trifluoromethyl group lowers the softening temperature of the homo- and heteropolyarylates obtained from them. Condensation of ω, ω, ω -	
trifluoroacetophenone with phenol yielded 2,2-bis-(4-hydroxypheny1)-1,1,1-trifluoro- Card 1/2	

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	SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1639-1692 TOPIC TAGS: polyester, plastic, polyarylate ABSTRACT: In the course of continuing investigations of polyesters, a series of polyarylates were prepared from bis-(4-hydroxyphenyl)methane, 2,2-bis-(4-hydroxy- phenyl)propane, 2,2-bis-(4-hydroxyphenyl)hexafluoropropane, bis-(4-hydroxyphenyl)- phenylmethane, bis-(4-hydroxyphenyl)methylphenylmethane, bis-(4-hydroxyphenyl)tri- fluoromethylphenylmethane, bis-(4-hydroxyphenyl)diphenylmethane, 9,9-bis-(4-hydroxy- phenyl)fluorene, and 4,4'-biphenyldicarboxylic acid. It was found that the physical properties of the polyarylates obtained depend to a large extent on the nature of the substituent at the central carbon atom. The physical constants and the mechanical characteristics of the polyarylates are given in tabular form. Orig. art. has: 2 tables. [VS] ASSOCIATION: Institut elementoorganicheskikh soyewineniy AN SSSR (Institute of Heteroorgamic Compounds, AN SSSR)	



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L 3936-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) RPL WW/RM ACCESSION NR: AP5025968 $UR/0190/65/007/010/1813/1817$ 678.01:54+678.67 UR/5 $UR/0190/65/007/010/1813/1817678.01:54+678.67$
AUTHOR: Korshak, V. V.; Manucharova, I. F.; Vinogradova, S. V.; Pankratov, V. A.
TITLE: Investigation of the thermal stability of a series of polyarylates by differential thermal analysis
SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1813-1817
TOPIC TAGS: polyarylate, plastic, polymer, thermal stability
ABSTRACT: Polyarylates were prepared from diphenols and <u>terephthalic acid</u> and subjected to differential thermal analysis utilizing thermogravimetric methods. It was found that the nature of the substituent at the central carbon of the diphenol (of the di-p-hydroxyphenylmethane type) exerts an appreciable influence on the thermal stability of the polyarylate. Thus, e.g., replacement of methyl groups at the central carbon atom by <u>trifluoromethyl</u> groups improves the stability of the polyarylate. The temperatures of incipient decomposition of the polyarylates in- vestiguted ranged from 375 to 465C. The most thermally stable polyarylate was obtained from 9,9-bis-(4-hydroxyphenyl)fluorene and terephthalic acid. Orig. art. [VS] Card 1/2

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ENT(m)/EFF(c)/EWP(j)/T/ETC(m) WN/BM UR/0190/65/007/009/1611/1618 ·L 2925-66 ACCESSION NR: APSO22610 678.01:54+678.674 44.55 WSS AUTHORS: Rode, V. V.; Zhuravleva, I. V.; Vinogradova, S. V.; Pankratov, V. A. Hald Korshak, V. Rafikov, R S. TITLE: The high temperature degradation of polydihydroxydiphenylfluorentere-phthalate. 24th communication in the series "Chemical Transformation of Polymers" phthalate. Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1965, 1614-1618 SOURCE TOPIC TAOS: thermal degradation, thermal oxidation, organic compound, polymer/ D 9 polyarylate ABSTRACT: The thermal degradation and thermooridation of polyarylate D-9 was ABSTRACT: The thermal degradation and thermooxidation of polyarylate D-9 was investigated. This investigation is an extension of the previously published work of I. V. Zhuravleva, V. V. Rode, and S. R. Rafikov (Izv. AN SSSR, ser. khime, 1965, 269). The thermal degradation and thermooxidation were carried out over the temperature region from 325 to 500C by 250 intervals. Graphs for the kinetics of gas evolution during degradation and thermooxidation are presented. The composition of the thermooxidation-degradation products are tabulated. The Cord 1/8 師有關情緒發行 5

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	ACCESSION NR: AP5022610					5		
	experimental results obtained f in Fig. 1 on the Enclosure. It of <u>polyarylate D-9</u> proceeds via evolution of CO ₂ , CO, and H ₂ ga was observed. Orig. art. his:	is concluded a homolytic c	that the them hain rupture a tion period for	noccidation	degradatio	ממ		
	ASSOCIATION: Institut elemento Heteroorganic Compounds, AN 855	organicheskikh R)	soyedineniy	NN SSSR (In	stitute for			
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MOROZOV, N.V., kand. tekhn. nauk; MKRTUMYAN, A.K., kand. tekhn. nauk; ANTIPOV, T.P., arkh.; KOCHESHKOV, V.G., inzh.; LISMGOR, I.A., inzh.; TSAPLEV, N.H., inzh.; IVASHKOVA, V.K., kand.tekhn. nauk; SHIKUNOV, I.Ya., inzh.; FILIN, Yu.D., inzh.; MOSTAKOV, V.I.; BURLACHENKO, P.Ye., kand. khim. nauk[deceased]; <u>PANKRATOV, V.F.</u>, inzh.; RUBANENKO, B.R., glav. red.; ROZANOV, N.P., zam. glav. red.; ONUPRIYEV, I.A., red.; YUDIN, Ye,Ya., red.; NASONOV, V.N., red.; ISIDOROV, V,V., red.; MAKARICHEV, V.V., red.; POLUBNEVA, V.I., red.

> [Ways of improving design details for the seams of exterior wall slabs] Puti uluchsheniia konstruktivnykh reshenii stykov panelei naruzhnykh sten. Moskva, TSentr. biu:ro tekhn. informatsii i nauchno-issl. in-ta organizatsii, mekhanizatsii i tekhn. pomoshchi stroit., 1962. 78 p. (MIRA 16:8)

> 'Sentral'nyy nauchno-isaledovatel'skiy i proyektnoeksperimental'nyy institut industrial'nykh zhilykh i massovykh kul'turno-bytovykh zdaniy (for TSaplev). 2. Nauchnoissledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR, Perbvo (for Mostakov).
> 'Vsesoyiznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Pankratov).

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•	PANKRATOV, V.G., red.; KHOMYAKOV, A.I., red. izd-va; UL'YANOVA, O.G., tekhn. red.
	[Labor productivity and production costs in industry] Proizvoditel'- nost' truda i sebestoimosti produktsii v promyshlennosti. Moskva, Izd-vo Akad. nauk SSSR, 1961. 335 p. (MIRA 14:11)
	1. Akademiya nauk SSSR. Institut ekonomiki. (Labor productivity) (Costs, Industrial)



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KRYLOV, V.	F., kand.tekhn.nauk; PANKRATO	V, V.L., inzh.; ZLODEI	JVR, V.J., Limie
	Hydraulic impact and launder blast furnace slags. Stal!	classifier methods of 22 no.9:786-788 S	granulating '62. (MIRA 15:11)
	1. Gosudarstvennyy vsesoyuzn tsementnoy promyshlennosti i institut po stroitel'stvu.	noughno-i seledovate	l'skiv institut
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TRAIL MORNAGE TO PROVIDE THE PROVIDENCE OF THE P ړ. 29434 s/081/£1/000/017/086/166 153200 only 3109, 3309 B101/B102 Kholin, I. I., Pankratov. V. L. AUTHORS: Production of aluminosilicate cement, and investigation of its structural and technical properties TITLE: Referativnyy zhurnal. Khimiya, no. 17, 1961, 352, abstract 17K345 (Nauchn. soobshch. Gos. Vses. n.-i. in-t tsement. PERIODICAL: prom-sti, no. 5(36), 1959, 18 - 27) TEXT: The possibility of obtaining self-crumbling aluminosilicate cement of high initial strength in addition to standard cast iron in blast-furnace smelting of iron ore is confirmed. Such a cement of optimum composition has a specific surface of 1000 - 1600 cm²/g. Addition of 30% of gypsum (bihydrate) to aluminosilicate cement increases its hydraulic activity substantially and makes it possible to attain a quality of 400 - 500. Aluminosilicate cement ground to a specific surface of $3000 \text{ cm}^2/\text{g}$ has an activity of 400 - 500 kg/cm² and a high initial strength. Non-ground aluminosilicate can be used in civil and industrial overground construction, ground cement in the manufacture of concrete and reinforced-concrete pro-Card 1/2

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BRANDAN BERALA TERADARA BARANA DI TEMPOTA NEW CONTRACT STREET AND STREET AND STREET AND STREET HIP STATE **MERINA** 1.11 -PANKRATOV, V. C. KRYLOV, V.F., kand. tekhn. nauk; PANKRATOV, V.L., inzh. Formation of filaments during moist granulation of blast furnace slags and methods for reducing such formation. Trudy NIITSement (MIRA 10:12) no.10:56-67 '57. (Slag cement) 1


"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001239

YANKKATOY VM.

"Excitation Functions for the Reactions Mg^{24} (d, α)Na²², Fe⁵⁴(d, α)Mn⁵², Fe⁵⁴(d,n)Co⁵⁵, and Zn⁶⁶(d,2n)Ga⁶⁶, "by N. A. Vlasov, S. P. Kalinin, A. A. Ogloblin, V. M. Pankratov, V. P. Rudakov, I. N. Serikov, and V. A. Sidorov, Atomnaya Energiya, Vol 2, No 2, Feb 57, pp 169-171

This work describes experiments to determine the excitation curves for the reactions $Mg^{24}(d,\alpha)Na^{22}$, Fe $54(d,\alpha)Mn^{52}$, Fe $54(d,n)Co^{55}$, and Zn⁶⁶ (d,2n)Ga⁶⁶. Cross section versus deuteron energy graphs are given for each of the four reactions.

The measurement apparatus and technique are explained.

No interpretation of the data is made. (U)



KORSAK, V.V. [Korshak, V.V.] (Moskva); VINOGRADOVA, S.V.(Moskva); VALECKIJ, P.M.[Valetskiy, P.M.] (Moskva); JERSOVA, V.A. [Yershova, V.A.] (Moskva); PANKNATOV, V.M. (Moskva) Copolyarylates of isophthalic acid with dihydroxy-diphenylpropane and polyfunctional aliphatic alcohols. Chem prum 13 no.5: Supplement: Makromolekularni latky 13 no.5:265-270 163. 2**.** 2 NICONSTRUCT TE REPORTATION CIA-RDP86-00513R0012390 APPROVED FOR RELEASE: Tuesday, August 01, 2000

ACCESSION NR: AT3012184 AUTHORS: Rekhin, Ye. I.; Pankra	S/2963/63/000/005/0038/0057
TITLE: Time interval to digital	nale interview in the second
SOURCE: Mnogokanal'ny*ye izmeri Nauchno-tekhnicheskiy sbornik. M	l'ny*ye sistemy* v yadernoy fizike: cow, no. 5, 1963, 38-57
TOPIC TAGS: time pulse converte circuit, pulse height analyzer, tron analysis, time of flight an	nosecond interval converter, neu-
second time interval into a puls both in circuitry and in technic channel width stability, constru- and is intended for large scale	characteristics (overshoot, ion of constant delay line, etc.),
and $1/4$	B Instrument accurate to about 1%.

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প্রের প্রায়ায়েন্স - ব্যক্তরাক্ষা হয় ধর্ম ধর্ম দ

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ACCESSION NR: AT3012184 The operating principles and the characteristics of the circuit elements employed (oscillator, triggering univibrator, coincidence circuit) are described and the linearity of the transformation discussed. The measurement accuracy and the operating reliability are claimed to be superior to those of time-to-amplitude converters. Another advantage is that the data can be read-out directly in digital code, making the equipment usable not only in multichannel pulse-height analyzers, but as individual scaler circuits (with a 0.25 microsecond resolution time) and for the measurement of both short (1--255 nanoseconds) and long (0.25--65 microseconds) time intervals. The equipment is intended for the analysis of fast neutrons by the time-of-flight method. The neutron energy range from 0.5 to 30 MeV, corresponding to a transit time from 100 to 10 nanoseconds (for a base separation of about 1 meter) is covered by 256 conversion levels with a level width of 1 nanosecond. Orig. art. has: 12 figures and 13 formulas. Card

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CIA-RDP86-00513R0012390

HELLE, TITAKO	O. D.; YENIKOV, N. I.; KURASHOV, A. A.; OGLOBLIN, A. A.; PANKRATOV, V. M.; V, B. P.	
	"Search for Light Neutron-Nuclei (i.e. dineutron, tetraneutron, n ⁶)."	J.
· · · · · · · · · · · · · · · · · · ·	report submitted for All-Union Conf on Nuclear Spectroscopy, Toilisi, 14-22 Feb 64.	
	Inst Atomic Energy, AS USSR	·
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AUTHOR:	Pankratov, V. M.	89-3-26/30
TITLE:	Fission in the Stripping Reac reaktsii sryva (d,p))	tion (d,p) (Deleniye v
PERIODICAL:	Atomnaya Energiya, 1958, Vol.	4, Nr 3, pp. 321-323 (USSR)
ABSTRACT: Card 1/2	Dzh. Nortrop and R. Kh. Stoks reaction, from which extracts A new ingenous method is prop section of neutrons, which and in the (d,p)-reaction, can be This reaction is specially in investigation of the excited which lie lower than the neu- other words, it is possible spond to a negative energy of be achieved by the direct new Now the experimental task con	posed, of how the fission cross re captured by the target nucleus e determined. Interesting as it permits an easy states of the initial nucleus, tron combination energies. In to examine states, which corre- f the free neutron, which cannot



a 1118 PANKRATOV, V. F. ~ Ê 煎紧 Ē as the Perceful Nees of Abards Renty, 24., depres, 1994 thi yndernern fittim (Brynta of Boriet Beimfifte) w, Atomiadat, 1999. 552 p. (Merias: Thei Trudy, (c. (Trib page)): A.T. Allthmort, Andericianty T.T. Warder, Andericianty T.A. Tianov, Gouldans of Threadout and Michael Generous pit. of th Wilman E. A. Breider and B.T. Structury, Constitution on Thread and Mi Wilman E. (Liztida book): O.L. Maliyang Bach, B.L.: To.T., Manil. a jeration Marte a 7 d Lv. Eviler. Res. (Lv. Eviler. Res. (m.23), Grader. 235, DOME: But subjection of articular is introduct for autautifie research and other persons interserved in maximum synthes. The volume contridu-personaled by Parial Subscription at the Annual Conference on Parceful I Annual Pariary and is Dearne in Articular 1959. Ħ (QQ)/MB or/an hearry Y.P. High-casery Proton-Induced Fracian of Milwr Meilel (myser) 2023) I.L. Netler, 0.T. T and a law of the law The MAY and MC Product The first 6 will of meridia Mittle, 8.7., and T.K. Nahrstov. Tracke Cross Sec and Equilibricity in Martine Second of 5 to 12 Mr. 75 or Second Second Second Second Second Second Second and Second Second Second Second Second Second Low Let 8 de Sec. (Bayer 214) NUMBER OF A DESCRIPTION en mulser physics, iscluding problems of y wey physics. The first paper by L.A. Arts werk on controlled thermomology reactions. 116 Witten Net I uparts of Berist Boisstistus Mealser (Cent.) And a second Sucto et beborara, 2.4. Austrum of Fragmates of My Literature-240 (Injert 2001.) Freemaltties muttoned include Frech ALLER TO LA CUTANA Into two 2 2 19 Per I deal with periodian ye i i where is Nur II and the second is a second of the second o r unerten-233, finalments arrest ef 5 to 8 May. (buy diady are taitible unland Punlant Payrias) Reso 8,600 septes printed. Determentional Dealsree -I'm the set of a set Streambed of the Lags have been to the heat program Tigh Program Period Product Beelith solition. ALLE OF OCCUPATION ਨੂੰ ਸ Í Į 9 4 'n, ۹₁, ... No. of the second s K. ł APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239 IN SHOULD REAL OF <mark>в/089/60/009/005/006/020</mark> вооб/во70 24.6720 Pankratov, V. M., Vlasov, N. A., Rybakov, B. V. Fission Cross Sections of $\frac{Th^{232}}{10-22}$, $\frac{U^{235}}{Me^{37}}$, $\frac{ND^{237}}{10-22}$ and U^{238} AUTHORS: 19 TITLE: Atomnaya energiya, 1960, Vol. 9, No. 5, pp. 399 - 401 PERIODICAL: TEXT: Measurements of fission cross sections for high-energy neutrons are communicated in this "Letter to the Editor". The neutron source was the reaction $D(d,n)He^3$; the analysis was made by the time-of-flight method, as it avoided some of the difficulties discussed in the introduction. The deuteron energies were varied from 6.5 to 19.5 Mev (E_n: 9.7 - 21.7 Mev) by means of platinum foils. The energy spread of the neutron was between 250 and 700 kev. All measurements were made at an angle of 0° to the deuteron beam. The fission events were recorded by means of a gas scintillation fission chamber (xenon) and a photomultiplier of the type \$39-33 (FEU-33). The pulses from the multiplier were fed into a multi-channel time-of-flight spectrometer. The results Card 1/2

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L 08381-67 ACC NRI AR6017638 UR/0272/66/000/001/0170/0170 SOURCE CODE: いたたちとなく、いたいないないのでいたというできたたかにあるというないという AUTHOR: Rekhin, Ye. I.; Lyaporov, V. M.; Pankratov, V. M. 40 TITLE: Conversion of microsecond time intervals into digital code SOURCE: Ref. zh. Metrol. i izmerit. tekh., Abs. 1.32.1297 REF SOURCE: Tr. Soyuzn. n.-i in-ta priborostr. vyp. 2, 1965, 38-56 TOPIC TACE: analog digital converter, particle detector, electronic measurement ABSTRACT: Converters for changing microsecond time intervals into digital code are designed for measuring the periods of time (time of flight) between some "zero" moment determined by a start signal and the moment of particle registration by a detector. Since these periods may be comparatively long (hundreds of µsec), beginning of measurement should be shifted along the time axis to coincide with the arrival of a "delayed" start signal. Delay is achieved by scaling of timer pulses. The start signal triggers the "clock", i. e. opens the switch of the timer pulse generator so that pulses are fed to the address unit. Channel width stability is maintained by using quartz frequency stabilization. It is preferable to have both fast and slow measurement conditions. Distributions are measured cyclically in either case. Under conditions of fast time analysis, the detector pulse blocks the input to which it is fed and the timer pulse output during the registration period after arrival of the de-Card 1/2 UDC: 389:5

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ayed start si lemented) by uring the des ith arrival o rithmetic un nd recording he following wrief delay. ext channel j eding cycle.	ignal. Upon completion o the number of channel pu ad time τm . Under slow a of the delayed start sign it. The next channel pul take place. The signal channel in the address r Thus the information sto pulse will belong to the The accuracy in measure nchronous and delayed sta	lses transmitted du nalysis conditions, al, and the detecto se closes the input for termination of egister and opens t red in the arithmet channel whose numbe ment of time interv rt signals is descr	ring the blocking the input switch or signals are sen switch after which recording sets the che converter inpu- cic unit before are r is determined vals is determined ribed as well as s	time, i. e. is opened t to an ch counting e number of t after a rival of the by the pre- , and the ynchroniza-
n the fronts nd character	ignal detector, the effec of the frequency divider istics are given for conv	and the effect of erters, phasing pul	dead time. A des Lse generator, a c	cription ircuit for
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NRI AR6017209	SOURCE CODE: UR/0058/65/000/012/A036/A037
ORS: Kurashov, A. A.; Pankre	tov, V. M.; Perov, P. Ye.
E: Electronic devices for a nuclear particles	two-dimensional time-of-flight spectrometer for fast
CE: Ref. zh. Fizika, Abs. 12	A343
SOURCE: Tr. 6-y Nauchno-tekh izdat, 1965, 125-135	n. konferentsii po yadern. radioelektron. T. 2. M.,
C TAGS: nuclear radiation sp	ectrometer, spectrum analysis, electronic component
RACT: The article describes	briefly a two-dimensional time-of-flight spectrome-
analyzer of the fast-neutron	This spectrometer is constructed on the basis of the spectrometer of the IAE cyclotron laboratory. The
nsional spectrometer is ∿ 3 n	rnier" principle. The resolving time of the two- sec in each arm. The channel width is 0.65 2 nsec.
ed information directly on a	annels is 1023. The spectrometer records the ob- paper chart with the aid of a type PL perforator.
registration speed reaches 5	correlated events per second. A detailed description
he electronic devices that en	sure sequential operation of the individual units of
he electronic devices that en	. S. [Translation of abstract].

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FISHING SE TREE BREET STREET ACC NR: AR6018963 SOURCE CODE: UR/0271/66/000/002/A019/A020 AUTHOR: Rekhin, Ye. I.; Lyaporov, V. M.; Pankratov, V. M. TITLE: Conversion of microsecond time intervals into a digital code SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs- 2A133 REF SOURCE: Tr. Soyuzn. n.-i in-ta priborostr., vyp. 2, 1965, 38-56 TOPIC TAGS: multichannel analyzer, time interval counter, time measurement, analog , digital converter ABSTRACT: The microsecond time interval to digital code converters are intended for measuring time intervals (flight transit time) between a certain initial time "zero" corresponding to a start signal and the time when a particle is registered by a detector. Since these intervals may be long (hundreds of milliseconds) it is expedient to shift the measurement start time along the time axis so that it coincides with the arrival of the "delayed" start signal. The time delay is implemented by the pulse counting method. The start signal starts the "clock," i.e., opens the gate between the pulse generator and the counter. The pulse generator uses a quartz crystal for frequency stabilization. It is expedient to have two measurement modes: fast and slow. In the fast time analysis mode the detector pulse after the arrival of the delayed start signal blocks the input at which it enters for the duration of registration. The timing pulse output is also blocked at this time. At the end of the 1/2UDC: 62-52:681.142.621 Card and the second second 115.15

ACC NR: AR6018963

registration the address is updated (complemented) by the number of pulses which were passed when the input was blocked. In the slow time analysis mode the input gate is opened with the arrival of the delayed start signal at which time the detector signals are applied to the arithmetic unit. The next pulse in line shuts the input gate. The read and write operations are executed next. The "end of write" signal determines the number of the succeeding channel in the address register and after a short delay opens the converter input. Thus, the information stored in the arithmetic unit, until the arrival of the succeeding pulse, belongs to the channel whose number is determined by the previous cycle. The accuracy of the time interval measurements is determined. The effect of asynchronism between the starting and the delayed starting signals is described along with the effect of frequency divider jitter, detector synchronization, and blocking. The description and the characteristics of the converter, phasing pulse generator, and channel pulse shaper circuits are given. [Translation of abstract] 11 illustrations and bibliography of 6 titles. N. Z.

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Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012390

ACC NR: AP6013512 UIV/0120/66/000/002/0123/0128	
AUTHCR: Berkovskiy, A.G.; Gusel'nikov, V.G.; Pankratov, V.M.	
ORG: Moscow Electric Lamp Works (Moskovskiy elektrolampovyy zaved)	
TITLE: Photoelectric multipliers with large diameter cathodes and a toroidal multiplication system SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 123-128	
TOPIC TAGS: photomultiplier, toroidal multiplier photomultiplier, photomultiplier design/FEU-65	•
ABSTRACT: Design features and performance characteristics of improved photomultiplie ABSTRACT: Design features and performance characteristics of improved photomultiplies ers are discussed. These photomultipliers, with large cathode diameters and toroidal shape multiplication systems are represented by the recently introduced production m dels FEU-63 (cathode dia. 100 mm) and FEU-65 (cathode diameter 150 mm). Design appro- ach, constructional details, characteristics and results of tests are presented. The toroidally shaped multiplication system comprises emitters, potential shaping surfa- ces etc, generated by rotation of suitable profiles around the enclosure axis. With the electrostatic system of focusing used, this approach has the advantages of 1) is ge working surface, 2) absence of sharp corners and edges generating dark autoelectro nic currents; 3) absence of electron dissipation 4) absence of structural members in the electron path 5) rigidity and 6) a large area of the diaphragm entrance. During the design stage, the emitter and screen profiles were modeled in an eletrolytic and log bath and on electronic trajectograph. The cathode integral sensitivity is around 40 - 55 $\mu a/lu$. The maximum dark currents at an anode sensitivity of 1000 a/lm	10-
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are 50 - solution f tomultipli have a hig (around 1	ers per h time 0 ⁸), an	Unce: tested rmits th resolve	neir use ing powe	e in co	ertain	nucle	ar ph	y goo ysics	od per: 5 resea	tormance arch proj	of thes ects. T	e pho- hey	
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	L LO58-66 EWT(d)/EWP(1) IJP(c) BB/GG ACCESSION NR: AT5024112
	AUTHOR: <u>Rekhin, Ye. I.;</u> Lyaporov, V. H.; Pankratov, V. M.
	TITLE: Conversion of microsecond time intervals into digital code
	SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Doklady, no. 99, 1964. Preobrazovaniye mikrosekundnykh intervalov vremeni v tsifrovoy kod, 1-19
	TOPIC TAGS: <u>analog digital converter</u> , time interval counter, time measurement,
	ABSTRACT: The authors discuss converters designed for measuring the time interval (transit time) between some "zero" time determined by the starting signal and the time when the detector records a particle. Accuracy in the measurement of such time intervals is analyzed with respect to factors which may cause nonlinearity in the converter. Converter characteristics are discussed and a block diagram of a con- verter is given. A brief description is given of a converter consisting of three functional circuits: phasing pulse generator, channel pulse shaper and converter.
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SOURCE: Ref. zh. Fizika, Abs. 5A325

AUTHOR: Pankratov, V. M.

TITLE: Gas scintillation counters and their application for measurement of fission cross sections by neutrons with an energy of 3 - 37 mev

CITED SOURCE: Sb. Stsintillyatory* i stsintillyats. materialy*. Khar'kov, Khar'kovsk. un-t, 1963, 182-186

TOPIC TAGS: gas scintillation counter, scintillation counter, fission fragment measurement

TRANSLATION: There is given a short description of a gas scintillation counter intended for registration of fission fragments. The counter is a spherical chamber 10 centimeters in diameter with a round glass window to which, with the help of a light guide, is attached a photoelectric multiplier. On the inner surface of the hemisphere, opposite the window, there is a layer of fissionable material with a Card 1/2







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STRUCHKOV, V.I. (Moskva, 1-y Truzhennikov per., d.18, kv.37); VINOGRADOV, A.V.; SAKHAROV, V.A.; PANKRATOV, V.M.

New method of determining the minute volume of the heart. Grud. khir. 2 no.5:46-50 S-0 '60. (MIRA 16:5)

1. Iz kafedry obshchey khirurgii lechebnogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova. (HEART--MEASUREMENT) (BLOOD VOLUME)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390



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