SAVICH, A.V.; SHAL'NOV, M.I.

Decomposition of polynucleotides and their precursors caused by gamma radiation. Radiobiologiia 1 no.1:23-29 '61. (MIRA 14: (GAMMA RAYS--PHYSIOLOGICAL EFFECT) (NUCLEOTIDES) (MIRA 14:7)



1.00

SAVICH, A.V.; SHAL'NOV, M.I. (Moscow) Action of sodium persulfate on pyrimidine bases. Zhur.fiz.khim. 35 no.ll:2509-2513 N '61. (KIRA 14:12) (Sodium peroxydisulfate) (Pyrimidine)

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CIA-RDP86-00513R001548420007-0

S/205/62/002/005/002/017 D268/D308

A SAMPLE AND A SAMPLE AND

AUTHOR: Shal'nov, M.I.

TITLE: Radiolysis of orotic acid

PERIODICAL: Radiobiologiya, v. 2, no. 5, 1962, 654 - 661

TENTOPIONAL. The pyrimi-TENTOPIONAL TO obtain information on the changes induced in the pyrimidine nucleotides by irradiation, the kinetics of the radiochemical reactions of orotic acid (OA), the common antecedent of DNA and RNA reactions of orotic acid (OA), the common antecedent of with pyrimidines, were studied. Irradiation was in the atmosphere with

pyrimiaines, were studied. Interaction and the provided of the studied of the second second

ties had a sensitizing effect on radiolysis giving a multiple increase to the decompositon product at 3 x 10-5 M, the effect increasing as the impurity increased. Study of OA dark reactions with so-Card 1/2

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	Petrov, Rem Viktorovich; Pravetskiy, Vladimir Nikolayevich; Stepanov, YUriy Sergeyevich; Shal'nov, Mikhail Ivanovich	
	Protection from radioactive fallout (Zashchita ot radioaktivnykh osedkov),	
	Moscow, Medgiz, 1963, 187 p. illus., biblio. 28,000 copies printed.	
	TOPIC TAGS: radioactive fallout, radiation injury, radiation dosimetry,	
	thermonuclear explosion	
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	Ch. II. Nuclear cloud 13	
	Ch. III. Formation of radioactive traces 19 Ch. IIII. Radioactive products of a nuclear explosion 30	
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	Ch. VI. Instruments and methods of fielding dosimetry of iragments 40	
	Ch. VII. Observations of the radiation condition 49	
	Ch. VIII. Biological results of irradiation 67	
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. (Ch. IX. Practical problems of protection in local radioactive fallout -	- 82
	Ch. K. The effect of radioactive fallout on the organism - 101 Ch. XI. Protective measures against radioactive fallout - 107	
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	Bibliography 185	
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SHAL'NOV, M.I.

Correlation between the data of radiation chemistry of polynucleotides and their precursors and some radiobiological effects. Trudy MOIP. Otd. biol. 7:47-59 163. (MIHA 16:11)

APPROVED FOR RELEASE: 08/23/2000

AMIRAGOVA, M.I.; DUZHENKOVA, N.A.; SAVICH, A.V.; SHAL'NOV, M.I.; PODOSHVINA, V.A., red.

> [Primary radiobiological processes] Pervichnye radiobiologicheskie protsessy. [By] M.I.Amiragova i dr. Moskva, Atomizdat, 1964. 286 p. (MIRA 17:12)

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CONSTRUCT DESCRIPTION

L 22782-66 EWT(1)/T JK ACC NR: AP6007764 SOURCE CODE: UR/0205/66/006/001/0101/0104 H4	
AUTHOR: Petrova, N. D.; Shal'nov, M. I. 4/3	
ORG: none	
TITLE: Investigation of the <u>radiation protection</u> effect of <u>DNA</u> , <u>RNA</u> , <u>RNA</u> , <u>NA</u> hydrolysate and orotic acid on leukopoiesis in rabbits and rats	
SOURCE: Radiobiologiya, v. 6, no. 1, 1966, 101-104	
TOPIC TAGS: radiation protection, leukopenia, leukopoiesis, DNA, RNA, radiation sick- ness, radiation damage	
ABSTRACT: The effect of DNA, RNA, RNA hydrolysate and orotic acidadministered be- fore and after irradiationon leukopoiesis during radiation sickness in rabbits and rats is discussed. The control and experimental rabbits were given a single dose of 550 rad; the rats were exposed to three doses: 100, 200, and 400 rad. Blood was ex- tracted for analysis 1, 3, 7, 12, and 20 days following irradiation. The number of leukocytes in 5 ml of peripheral blood in irradiated experimental and control animals was tallied and compared. Changes in the number of leukocytes in the peripheral blood of the rabbits and rats are graphed. It is concluded that nucleinic preparations are of greater therapeutic than prophylactic benefit; while they do almost nothing to halt leukopenia, they have a beneficial effect on the restoration of leukopoiesis. It is	
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 ACC NR: AM5008927 BOOK EXPLOITATION UR Anlragova, M. I.; Duzhenkova, N. A.; Savich, A. V.; Shal'nov, M. I. Anlragova, M. I.; Duzhenkova, N. A.; Savich, A. V.; Shal'nov, M. I. Primary radiobiological processes (Pervichnyye radiobiologicheskiye protsessy) Noscow, Atomizdat, 1964. 286 p. illus., biblio. 2700 copies printed. Editor: Noscow, Atomizdat, 1964. 286 p. illus., biblio. 2700 copies printed. Editor: V. A. Podoshvina; Technical editor: Ye. I. Mazel'; Proofreader: M. I. El'mus TOP E TAGS: amino acid, ionizing radiation biologic effect, nucleic acid, porphyrin compound, radiation biochemical effect, radiation cell effect, radiation tissue effect PURPCEE AND COVERAGE: This monograph was intended for specialists in the fields of radiology and radiation chemistry, as well as for chemists and physicists interested in the effect of ionizing radiation on living organisms. In this monograph, the in the effect of ionizing radiation on living organisms. In this monograph, the in the effect of biologically important compounds: (1) mucleic and low- radiation on three classes of biologically important compounds: (1) mucleic and low- radiation and the energy of ionizing radiation; 20 porphyrins and other materials nolecular material entering into their composition; (2) porphyrins and other materials playing an important role in tissue respiration; and (3) amino acids and albumins are playing an important role in the role of these processes in the injurious effect of radiation. The authors express their gratitude to N. V. Timofeyer-Resovakiy for his in- valuable advice. 	
Card 1/2	

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SHAL'NOV, N.A., gornyy inzh.; SAVENKO, Yu.F., kand. tekhn. nauk

Rapid mining in mines of the Pervomayskiyugol' Trust. Ugol' 39 no.5:27-28 My '64. (MIRA 17:8)

1. Trest Pervomayskugol' (for Shal'nov). 2. Kommunarskiy gornometallurgicheskiy institut (for Savenko).

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SHAL-NOV-				
USSR/Misce	ellaneous - Industrial processes			
Card 1/1	Pub. 103 - 3/24			
Authors	: Shal'nov, V. A.		-	
Title	: Certain problems of high-speed grinding		÷:	
Periodical	: Stan. i instr. 11, 6-9, Nov 1954			
				1.1.1
Abstract	The technical and safety problems involved in high-speed grin cussed. Measures for the obtainment of high accuracy of grou and for the elimination of safety hazards during the operation grinding machines, are suggested. Graphs; drawings; illustra	of high	riace	85
	cussed. Measures for the obtainment of high accuracy of grou and for the elimination of safety hazards during the operation grinding machines, are suggested. Graphs; drawings; illustra	of high	riace	85
Abstract	 cussed. Measures for the obtainment of high accuracy of grou and for the elimination of safety hazards during the operation grinding machines, are suggested. Graphs; drawings; illustra : 	of high	riace	85
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Abstract Institution	 cussed. Measures for the obtainment of high accuracy of grou and for the elimination of safety hazards during the operation grinding machines, are suggested. Graphs; drawings; illustra : 	of high	riace	85

SHAL'NOV, Valeriy Alekseyevich, kandidat tekhnicheskikh nauk; CHESTNOV, A.L., kandidat tekhnicheskikh nauk, retsenzent; KARATYGIN, A.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; BE/ZEL'MAN, R.D., inzhener, redaktor; PETROVA, I.A., izdatel'skiy redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor

[Fast grinding of alloyed structural steel] Skorostnoe shlifovanie legirovannykh konstruktsionnykh stalei. Moskva, Gos. izd-vo obor. promyshl., 1956. 126 p. (MIRA 9:12) (Steel, Structural) (Grinding and polishing)

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		AID P - 4207	
Subject	:	USSR/Engineering	
Card 1/1	Pu	b. 103 - 8/20	
Author	:	Shal'nov, V. A.	
Title	:	Grinding and Polishing of Ceramic Alloys	
Periodical	:	Stan. i instr., 1, 26-28, Ja 1956	
Abstract	:	The author describes some results of his studies of abrasive disks and belts used for grinding and polishing of ceramic alloys. Since ceramic alloys are not uniform, and differ in form, texture and color, the abrasives of diamond-dust, green and black carborundum, electro- corundum, and other materials, are selected for use on disks or belts to obtain optimum results. Two drawings, 4 graphs, 3 diagrams, 1 table and 1 picture.	
Institution	:	None	
Submitted	:	No date	

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548420007-0

SOV/1452 PHASE I BOOK EXPLOITATION • • 25(1)Shal'nov, Valeriy Alekseyevich Shlifovaniye i polirovaniye lopatok gazoturbinnykh dvigateley (Grinding and Polishing Blades of Gas Turbine Engines) Moscow, Oborongiz, 1958. 349 p. 3,000 copies printed. Reviewer: V. S. Korsakov, Doctor of Technical Sciences, Professor; Ed.: V. Z. Freydberg, Candidate of Technical Sciences; Ed. of Publishing House: I. A. Petrova; Tech. Ed.: V. P. Rozhin; Managing Ed.: A. I. Sokolov, Engineer. PURPOSE: This book is for engineering-technical workers of machinebuilding plants, and for scientific research institutes. COVERAGE: The book describes present-day machine tools for machining blades and roots of buckets for aviation turbine jet engines and trainder a description of bulk minding machines. includes a description of belt grinding machines. Descriptions Card 1/10

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Grinding and Polishing Blades (Cont.)

SOV/1452

are given of the most successful designs for universal grinding machines adapted to the manufacture of buckets. Methods of grinding and finishing various types of bucket roots are described. The introduction of highly productive methods of grinding, polishing, and inspection are discussed. Methods of grinding and polishing without danger of burns and cracks are described. Soviet and non-Soviet investigations and experimental work in the field of bucket manufacture by means of abrasive instruments are generalized. It is stated that the volume of grinding and polishing buckets by flexible disks and abrasive belts is increasing. The author thanks Professor, Doctor of Technical Sciences V. S. Korsakov for reviewing the book and Candidate of Technical Sciences V. Z. Freyberg for help in editing it. The bibliography consists of 44 references, 18 of which are Soviet, **22 Erglish**, and one Czech.

Card 2/10

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34211NDV, Valeriy Alekseyevich

Grinding and Polishing of Blades in Gas Turbine Engines. Wright-Patterson Air Force Ease, Technical Information Center, 1960. 1h9 p. Illus., Diagrs., graphs, tables (MCL-412/V) Translated from the original Russian: Shlifovaniye I Polirovaniye Lopatok Gazotursi-nykh Dvigateley, Moscow, 1958. Includes Bibliographies.

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S/195/62/000/000/005/007 1 AUTHOR: Shal'nov, V.A. Methods for the grinding and polishing of large panels. Ŧ. Vysokoproizvoditeľnoye shlifovaniye. Ed. by Ye. N. Maslov. Kom, po tekh. mashinostr. In-t mashinoved. AN SSSR. Moscow, Izd-vo TITLE: SOURCE: The paper describes an experimental investigation of equipment suitable AN SSSR, 1962, 162-168. for the grinding and polishing of large panels, such as those employed in aircraft construction. The methods investigated comprise a polishing method in which the part is subjected to the action of a pulsating emulsion, the hydroabrasive method, the method of the backed-up tape heads, a method employing a broad abrasive tape, and methods employing small mechanized devices. Polishing of a pulsating part is done in an especial bath, in which the panel specimens are capable of pulsating motion. The panel is immersed in one of several abrasive fluid mixtures, with grain sizes from 1 to 18 mm. The abrasive materials were minerals of various natural and artificial origin, and also metallic grains, including quarry stone, granite, Tuchkovo sand, Ti slag, grinding-disk crums, etc., also cast-iron fragments and cast-iron gravel. A shaking rate of appx. 200 full stroke-cycles/min and Card 1/3

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CIA-RDP86-00513R001548420007-0

Methods for the grinding and polishing of

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an amplitude of appx. 85 mm were maintained for about 35 min. Best results were obtained with the cast-iron gravel with grains 1-1.5 mm diam. The use of surfaceactive lubricating and cooling liquids, such as caustic soda, increased the polishing effectiveness considerably. Hydroabrasive polishing was performed by means of a fluid suspension of abrasive particles issuing from a multiplicity of nozzles and impinging upon the part to be polished at speeds of 50 m/sec and more. Electrocorundum or quartz sand of grain size 80 was employed as an abrasive. 25-50 parts by weight of the abrasive were suspended in 75-50 parts by weight of soda emulsion. Corrosion protection was afforded by an addition of 0.5-1% Na nitrite, and a greater surface brightness was achieved by an addition of Na triphosphate. Air pressure: 5-100 atm; impingement distance: 50-100 mm from the nozzle; best effectiveness at 10-50 mm and a nozzle-aspect angle of 45°. Broad-tape grinding and polishing. The geometry of the equipment employed is described, including the possible utilization of back-up surface which permit the tape to follow curved and wavy surface. The wear resistance of the abrasive tape can be increased by impregnating it with methanol, casein glue, or lacquer. Small-scale mechanical devices: Miscellaneous polishing aids, such as felt disks carrying abrasive grains and small polishing machines with disks are described and shown in cross-section. An over-all comparison of the various methods described here is given in a summary table, showing the ranges of applicability of each of the methods. Essentially, the pulsating method

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Methods for the grinding and polishing of

is applicable only to panels with longitudinally variable and longitudinally ribbed shape. In the presence of any transverse ribbing the method is not applicable. The hydroabrasive method is most suitable for waffle-shaped panels and panels with cross-ribs, but its productivity is relatively limited and the make-ready of the equipment for products of different shapes is not simple. The broad-tape polishing method is effective on flat surfaces only. Depressions in the surfaces to be polished may remain untouched. A substantial cooling and suction-type ventilation plant is indispensable for the use of this method. Polishing by means of backed-up tape heads is more labor-consuming than the other methods, yet it is suitable for use on existing milling machines without incurring any major new capital investment. There are 5 figures and 1 table; no references. The participation in the work of Engineer S. A. Vigdorchik, G. M. Koshelev, V. I. Kotov, L. D. Kalinovskiy, and V. I. Papkov is acknowledged.

Card 3/3

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BELEVISEV, A.T., kand. tekhn. nauk; GOLIKOV, V.I., kand. tekhn. nauk; GOTSERIDZE, R.M., inzh.; YEFIMOV, V.P., kand. tekhn. nauk; [deceased]; KOPANEVICH, Ye.G., kand. tekhn. nauk; MALOV, A.N., prof.; PARFENOV, O.D., kand. tekhn. nauk; ROZENEERG, A.G., tekhn.; SEMIBRATOV, M.N., kand. tekhn. nauk; SKURATOV, A.Ye., kand. tekhn. nauk; SOKOLOVSKIY, I.A., kand. tekhn.nauk; STROVATCHENKO, P.V., kand. tekhn. nauk; TISHCHENKO, O.F., doktor tekhn. nauk; USHAKOV, N.N., kand. tekhn. nauk; SHISHKIN, V.A., kand. tekhn. nauk; YUZHNYY, J.I., inzh.; BLAGOSKLONOVA, N.Yu., red. izd-va; SOKOLOVA, T.F., tekhn. red.
[Manual for engineers in the instrument industry]Spravochnik tekhnologa-priborostroitelia. Pod red. A.N.Malova. Moskva, Mashgiz, 1962. 988 p. (MIRA 16:2) (Instrument manufacture)

APPROVED FOR RELEASE: 08/23/2000

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548420007-0 SHAL'NOV, V.A., kand.tekhn.nauk; BARMIN, B.P., kand.tekhn.nauk Improved means for minor mechanization. Mashinostroitel' no.3: 14-15 Mr '63. (MIRA 16:4) 14-15 Mr '63. (Technological innovations)



	SOV/122-59-6-1/27	
UTHORS:	SOV/122-59-6-1/27 Khaylov, M.A., Doctor of Technical Sciences, Professor, Shal'nov, V.I. and Mogilevskiy, Ye.Z., Engineers Investigation of the Operation of a Two-stroke Engine	
ITLE:	Investigation of the Operation with Disc-type Valve Gear	
PERIODICAL	: Vestnik mashinostroyeniya, 1959, M C, H A two-stroke engine with gas-distribution control by one A two-stroke engine with disc based on a patent due to Nr 8243) is stated	
ABSTRACT:	inlet and one (Author's Certificate M per unit of V.I. Shal'nov (Author's Certificate M per unit of to yield a relatively large power output per unit a bore swept volume. A single cylinder test engine with a nominal swept volume.	
	of 140 mm, a ratio of 5.56 illustrated in the compression ratio of 5.56 illustrated in the cylinder head (Figure 1) and described was built and the cylinder head distributor discs are placed in the cylinder (exhaust) horizontally (inlet) and alongside the cylinder is the vertical so that the inlet is	
	horizontally (inlet) and unrical so that the inlet and at a small angle to the vertical so that the inlet and vertical against the piston face and the exhaust nearly vertical against the piston face. Both horizontal, at a small angle to the piston face. Both discs have similar profiled openings and are rotated by discs have similar profiled openings and are rotated by pinions engaging with their toothed rims. The discs are sealed by face seals on the side facing the cylinder	
Card1/4	are sealed by 1000 the	

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/ Investigation of the Operation of a Two-stroke Engine with Disctype Valv, Gear

against sealing rings which, in turn, are sealed by piston-ring type seals against the cylindrical recess in which they are housed. The absence of scavenge ports reduces the overall length of the cylinder. The optimum fuel injection and ignition crank angles were found by test, at 1 600 r.p.m. and 980 mm mercury column scavenging pressure, to be 160 ahead of the t.d.c. and 35° ahead of the t.d.c., respectively. 12 variants for locating the injection nozzle and sparking plug in the combustion chamber were tested, all yielding satisfactory operation without decisive advantage over one another. Tests with different gas distribution phasing showed the best angle for exhaust opening to be 95° after the t.d.c. and closing 239° after the t.d.c. The inlet opening at 121° after the t.d.c. and closing up at 265° after the t.d.c. were found best. Varying the phasing produces output power differences of up to 15%. Power and fuel consumption curves were plotted against

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CIA-RDP86-00513R001548420007-0 "APPROVED FOR RELEASE: 08/23/2000

sov/122-59-6-1/27 Investigation of the Operation of a Two-stroke Engine with Disc-

the excess air coefficient at different scavenge pressures, type Valve Gear showing a large increase of power with scavenge pressure, accompanied by increased specific fuel consumption. Increasing the speed from 1 600 to 2 000 r.p.m. reduces the indicated pressure by reducing the weight of the cylinder charge. The specific fuel consumption, the utilisation of the scavenge air, the scavenge air coefficient, the excess air coefficient, the indicated pressure and the power have been plotted against the scavenge air pressure (Figure 4). It is concluded that the gasexchange process has not been fully effective. Increasing the size of the inlet and outlet ports would be necessary. The indicator diagram (Figure 5b) shows an adequate fullness in the idle stroke region and a relatively low value of the maximum pressure. The superiority of the tested engine compared with the Ricardo engine operating under similar conditions (e.g. "Aircraft Engineering", 1950) is claimed. The engine components have worked satisfactorily except for some seizures between the inlet

Card3/4

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548420007-0 SOV/122-59-6-1/27

Investigation of the Operation of a Two-stroke Engine with Disc-type Valve Gear disc and cover. Apart from reduced cylinder length, the

basic advantages are: the elimination of reciprocating distribution gear and the removal of the piston from the exhaust gas zone. The mechanism can be used in a twostroke Diesel engine. There are 5 figures.

Card 4/4

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CIA-RDP86-00513R001548420007-0 "APPROVED FOR RELEASE: 08/23/2000 SHAL'NOV,V.P. A few problems given at the Physics Olympiads held at the Moscow State University. Fiz. v shkole 15 no.5:77-78 S-0 '55. (MIRA 9:1) (Physics--Examinations, questions, etc.) LINE ARE BRAN

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SHAL'NOV, V.P.

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A few problems suggested for the physics Olympiad at the Moscow State University. Fiz. v shkole 15 no.6:77-78 N-D '55. (Physics--Examinations, questions, etc.) (MIRA 9:2)

APPROVED FOR RELEASE: 08/23/2000

Abst Journal	: Referat Zhur - Fizika, No 12, 1956, 33607	A-3
Author		
Institution	: None	
Title	: Certain Problems Asked at the Physics Competition at Moscow State University	
Original Periodical		
Abstract	; None	
:		
Card	1/1	


APPROVED FOR RELEASE: 08/23/2000

LARIOKHINA, Natal'ya Mikhaylovna; MOTINA, Ye.I., lingvist, red.; SHAL'NOV, V.P., fizik, red.; DEM'YANOVA, L.G., red.; POTAPOVA, M.D., red.; YERMAKOV, M.S., tekhn. red. [Reader on physics. Manual for foreign students studying the Russian language] Kniga dlia chteniia po fizike; uchebnoe posobie dlia studentov-inostrantsev, izuchaiushchikh russkii iazyk. Moskva, Izd-vo Mosk. univ., 1961. 168 p. (MIRA 14:10) (Physics)

APPROVED FOR RELEASE: 08/23/2000



ZUEC V, Viktor Gennadiyevich; SHAL'NGV, Vladimir Petrovich; KUZNETSOVA. Ye.B., red.; LIKHACHEVA, L.V., tekhn. red. [Problems in physics] Zadachi po fizike; posobie dlia samoobrazovaniia. Izd.7. Moskva, Gos.izd-vo fiziko-matemat. litry, 1963. 271 p. (MIRA 16:10) (Physics--Problems, exercises, etc.)

APPROVED FOR RELEASE: 08/23/2000



ACC NRI ARG21035 (N) SOUNCE CODE: U./CO09/66/020/003/027	79/0281 :
AUTHOR: Brazhnikov, Ye. M.; Dzantlyev, B. G.; Popov, V. N.; kussiyan, Ye. K.; meyev, A. S.	Shalo- 10 37
ORG: none TITLE: Installation for the investigation of processes of chemonuclear synthe der laboratory conditions	Ê,
SCURCE: Atomnaya energiya, v. 20, no. 3, 1966, 279-281	
TOPIC TAGS: chemical synthesis, chemical energy conversion, fission product, tion chemistry/ KhYaU-4 chemical synthesis unit, IRT nuclear reactor	
ABJTRACT: The article deals with a possible direct use of atomic energy by tr ABJTRACT: The article deals with a possible directly into chemical energy, byp forming the energy of the fission fragments directly into chemical energy, byp intermediate energy forms such a smechanical, thermal, or electrical. In such ecss, a mixture of simple gases passes through a chemonuclear unit, which is e tially a flow-through fuel element. The radiation produces radiation-chemical tions that produce the end products. An example is the production of NO ₂ from under the influence of radiation. The authors describe special devices for the duction of chemonuclear synthesis constructed at the Institute of Chemical Fay AN SSSR, in particular a circulating chemonuclear installation ($hayau-4$); inter to investigate synthesis in the gaseous phase under laboratory conditions. The paratus constitutes a closed loop in which the gas mixture is circulated by a	a pro- ssen- reac- air le pro- sics mded le ap-
UDC: 621.039: 541.15	

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VAYNSHTEYN, G.; YELISEYEV, V.; SHALONKIN, B.; KASUMOV, K.; OZEROV, I. ZHADAN, Ye.; MANUYLOV, V.; MISHIN, F.

> Foremost workers taking part in the socialist competition. Avt.transp. 35 no.9:32-33 S '57. (MII (Automobile drivers) (Highway transport workers) (MIRA 10:10)





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CIA-RDP86-00513R001548420007-0

Shatsfatkina 6. The analogy between the deformation properties of liquid-plastic and solid-plastic systems. Two kinds of plastic deformations and plastic visconities of colloidal asystems. CH A. A. Trapennikey and T. G. Shalopalkina. Kolloid. Zhur. 17, 471-2(1955); cf. CA: 50, 24464. When a 2% soln. of Al maphthemate in parafim oil was deformed be-tween two coarial cylinders at a const. rate of deformation increase (e.g. 0.26/sec.), the shearing stress P was a com-plicated function of deformation ϵ . When ϵ increased, P first linearly increased (as in elastic deformation of solids), then was almost independent of ϵ (as in plastic deformation of solids), then increased (as in work-hardening), then de-creased, and finally ragain became independent of ϵ ; thus, -the curve of P against ϵ for a liquid was very similar to those for solids. The 2 parts of the curve, along which P was nearly independent of ϵ , corresponded to 2 types of plastic viscosity. I. J. Bikerman ...

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UTHORS:	Shalopalkina, T. G., Trapeznikov, A. A. 20-118-5-41/59
TI TLE:	The Influence of the Deformation Rate on the Tixotropic Reduction Rate of Aluminum Naphthenate Gel and the Oscillographic Recording Method of Stress-Deformation Curves (Vliyaniye skorosti deformirovaniya na skorost' tiksotropnogo vosstanovleniya gelya naftenata alyuminiya i metod ostsillograficheskoy zapisi krivykh napryazheniye - deformatsiya)
PERIODICAL:	Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5, pp. 994-997 (USSR)
ABSTRACT:	The investigation of the tixotropy (tiksotropiya) is to be based on the application of the dissolving effect upon the system at any certain velocity gradient $\dot{\epsilon}_{\rm dissolution}$. The last measurements of reduction of structure are also to be carried out at a certain velocity gradient $\boldsymbol{\epsilon}_{\rm modification}$.
Card 1/4	Thereby the following two methods can be used: 1) $\mathcal{E}_{dissolution} = \mathcal{E}_{modification}$ and

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The Influence of the Deformation Rate on the Tixotropic 20-118-5-41/59 Reduction Rate of Aluminum Naphtenate Gel and the Oscillographic Recording Method of Stress-Deformation Curves

> to the loop of the oscillograph. The simultaneous recording of the angle of rotation ϕ of the interior cylinder of the measuring device (and therewith of the stress P), and of the angle of rotation θ of the exterior cylinder, i.e. of the deformation $\dot{\mathbf{E}}$, and of the deformation rate $\dot{\mathbf{E}}$ is of special importance. The carrying out of the measurements is shortly described, from which the following results are obtained: 1) The structural strength P_r is determined at different $\dot{\boldsymbol{\xi}}_{discupants}$ solution = $\epsilon_{\text{modification}}$ by the different elements of structure, which are differented by their reduction rate. 2) Those structure elements, which guarantee P_r at a smaller \mathcal{E} do not determine P_r at a greater \mathcal{E} . 3) At different $\dot{\mathcal{E}}$ the states of structure corresponding to the time, which is necessary for a complete reduction, are not equal. Besides the here investigated reversible destruction of structure

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5/069/60/022/006/004/008 B013/B066

11.2314 also 2915 AUTHORS: Shalopalkina, T. G. and Trapeznikov, A. A.

TITLE:

Dependence of Ultimate Highly Elastic and Rupture Deformation on the Deformation Rate of the Gel Solution of Aluminum Naphthenate

PERIODICAL: Kolloidnyy zhurnal, 1960, Vol 22. No. 6, pp. 735-742

TEXT: The present paper was presented in 1960 at the All-Union Congress of Mechanics in the Subsection of Rheology. It deals with the study of the dependences $\varepsilon_{e}(\varepsilon)$ and $P(\varepsilon)$ as well as $\varepsilon_{e} \max(\varepsilon)$ and $\varepsilon_{r}(\varepsilon)$ in a range of ε as broad as possible for aluminum naphthenate gel. (ε_{e} = highly elastic deformation, ε_{r} = rupture deformation, ε = deformation rate). A 2% gel solution of aluminum naphthenate in non-polar medical vaseline oil was used. The study was carried out on the elasto-relaxometer (model 2) (Ref. 5). An elasto-viscosimeter (model 3) was used for the range of high ε (from 35 - 1100 sec⁻¹) and for the range of low ε (from 0.46-46 sec⁻¹).

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87767 3, 059/80/022/006,'004/008 3013/3066 Dependence of Ultimate Highly flustic and Rusture Deformation on the Deformation hate of the Gol Solution of Aluminum Laphthemato $(R_{e}f - \delta)$ In order to record $c_{e}(\delta)$ curves, an automatic special device was constructed for the latter apparatus. The elastic deformation in the range of 0.46-45.8 sec⁻¹ was found to increase rapidly at any given deformation. The increase of ξ in the range of 37.45-1112 sec⁻¹ shows an opposite result: with increasing deformation rate the maximum elastic deformation which is possible at the corresponding rate, decreases. This means that the elastic deformation at a considerable increase of $\dot{\epsilon}$ has not time enough to develop completely. It may be seen from the $P(\varepsilon)$ curves recorded at the same time with $\mathcal{E}_{e}(\varepsilon)$ curves, that the P-values rapidly increase with increasing \mathcal{E} , the $e_{\mathcal{E}_{1}}$ values, however, decrease, accordingly (Ref. 6). The maxima observed in the P(k) and $C_{\mu}(k)$ curves characterize different stages of structure destruction during the deformation of the system at $\dot{\epsilon}$ - const. Fig. 4 gives the changes of $\xi_{e, max}$, ξ_{m} and ξ_{r} as a function of & in legarithmic coordinates. Their correlation may be seen from $\varepsilon_{e \max}$ and ε_{m} as well as from the similarity of their change. They Card 2/6

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87767 s/069/60/022/006/004/008 Dependence of Ultimate Highly Elastic and 3013/306 Rupture Deformation on the Deformation Rate of the Gel Sclution of Aluminum Naphthenate and quickly relaxing structural elements are preserved which form the structure (Table 1). $P(\epsilon_e)$ curves for different ϵ were plotted on the basis of the data obtained (Fig. 6). They indicate the occurrence of the following ranges of deformation (Table 2): a) initial deformation with a high shear modulus which corresponds to an "elastic" deformation; b) medium range with a comparatively very low shear modulus which corresponds to the highly elastic deformation; c) end range with an increased modulus which corresponds to a highly elastic deformation of a reinforced structure. The one or the other type of deformation may prevail, according to $\dot{\varepsilon}$. There are 6 figures, 2 tables, and 8 Soviet references. ASSOCIATION: Institut fizicheskoy khimii AN SSSR, Moskva (Institute of Physical Chemistry AS USSR, Moscow) March 11, 1960 SUBMITTED: Legend to Fig. 4: ξ_{ij} = electic deformation, ξ_{ij} = deformation in which

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	ь0968 s/081/62/000/016/035/043 в171/в186
15.81113	Trapeznikov, A. A., Shalopalkina, T. G., Amfiteatrova, T. A.
AUTHORS :	Trapeznikov, A. A., Snalopalization of dispersions of
TITLE:	Trapeznikov, A. A., Shaloparter Rheological and thixotropical properties of dispersions of alkyd resins modified by polyamid resins 16, 1962, 546, abstract
PERIODICAL:	alkyd resins modified by polyana Referativnyy zhurnal. Khimiya, no. 16, 1962, 546, abstract 16P246 (Lakokrasochn. materialy i ikh primeneniye, no. 5, 1961, 3 - 10)
resin (AFR) spirit were $(5 \cdot 10^{-3} - 5)$ sture, usin	1961, 3 - 10) rheological and thixotropical properties of alkyd polyamid (alkyd resin modified by polyamid resin) dispersions in white investigated over large ranges of deformation velocities 10^2 sec^{-1}), of resin concentrations (30 - 90%), and of temper- 10^2 sec^{-1}), of resin concentrations (30 - 90%), and of temper- ing a complex elasto-viscosimeter, which made it possible to the actual conditions under which APR-based paints are used. It the actual conditions under which APR-based paints are used. It that the systems under investigation show clearly stablished that the systems under investigation show clearly tablished that the systems of viscosity. In particular, it has that the viscous structure of the paint can be re-established
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Rheological and thixotropical ...

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by a low gradient flow after having been destroyed at a high velocity gradient. The characteristics of APR dispersions at early stages of their . structure being re-established, are due to the viscous thixotropy, whereas after a long period of rest they are conditioned by strength and thixotropies of viscosity. It has been shown that the stability of structure and the viscosity quickly increase (following the exponential law) with the increase of the resin concentration, so that the running-off of the paint during its application is substantially changed. Data for deformation and rupture lead to the conclusion that the particles of APR are relatively compact and that the system has the character of a concentrated suspension. The effect of rheological and thixotropical properties of APR on the process of film formation and on the stability of pigment-containing systems has been investigated. [Abstracter's note: Complete translation.]

Card 2/2

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TATI TONS! THE TRAPEZNIKOV, A.A.; SHALOPALKINA, T.G.; AMFITEATROVA, T.A.; Prinimala uchastiye: STEPANOVA, Ye.S. Rheologic and thixotropic properties of the dispersion of alkyd resins modified by polyamid resins. Lakokras. mat. i ikh prim. (MIRA 15:3) no.5:3-10 '61. (Resins, Synthetic) (Paint)

1 State

TRAPEZNIKOV, A.A.; SHALOPALKINA, T.G.

GYENERAL

Relaxation development of stress in an aliminum naphthenate gel studied by the compensation method. Kcll.zhur. 25 no.6:703-709 N-D *63.

Defprmation, thixotropy, and aging of aluminum naphthenate gels. Ibid.:722-727 (MIRA 17:1)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

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ACCESSION NR:	1.55	e 55	UR/0069/65/027/0 541.182.025	1 39 0	
	teatrova, T. A.; Shale			19	
	oidnyy zhurnal, v. 27, surface active agent, n, polymer			activity,	
surface-active following surf heklyd in whit oxadecylamine, cyclohexanon; determining th Shalopalkina (a mechanism of the thi agents was investigat ace-active agents on a spirits was studied water, oxyethylated alkamon OS-2 and sicca ixotropic properties Kolloidn. zh. 19, 232 agents enhance the st	ted. The effect the thixotropic p butyl alcohol cetyl alcohol wit ative 63. The en was that of A. A. , 1957). It was	of equimolar amo roperties of a d cetyl alcohol, th two oxyethyl g operimental metho Trapeznikov and found that small	unts of the ispersion of stearic acid, roups, oxime- d used in T. G. additions of	

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I. 64246-65			
grouns, e.g., alkamon-OS-2.	face active-agents with a lar cause a breakdown of the hek s effect was also observed on table and 5 graphs.	lyd structure at relativ	
ASSOCIATION: Institut fizio istry, AN SSSR) SUBMITTED: 22Jul63	cheskoy khimii, AN SSSR (Inst ENCL: 00	itute for Physical Chem- SUB CODE: GC	
NO REF SOV: 005	OTHER: 002		
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Name:	SHALOV, Ivan Ivanovich	
Dissertation:	Special features of deformation of knitting and increasing the stability of its dimensions	
Degree:	Doc Tech Sci	
Affiliation:	<pre>[not indicated]</pre>	
Defense Date, Place:	21 Jun 56, Council of Moscow Textile Inst	
Cortification Date:	_29 Jun 57	
Source:	BMV0 18/57	
		s.








PILLER, Bogumil [Piller, Bohumil]; TRAVNICHEK, Zdenek [Travniček, Zdeněk]; KONOPASEK, M. [translator]; SHALOV, I.I., doktor tekhn.neuk, red.; MINAYEVA, T.M., red.; LEVITSKAYA, N.N., tekhn.red.

[Synthetic fibers and characteristics of their processing in the textile industry] Sinteticheskie volokna i osobennosti ikh pererabotki v tekstil noi promyshlennosti. Pod red. I.I.Shalova. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1960. 177 p. Translated from the Czech. (MIRA 14:4) (Textile fibers, Synthetic) (Textile industry--Equipment and supplies)

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Harris Children States



SHALOV, I.I., doktor tekhn.nauk

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Determining the crease resistance of artificial fur. (MIRA 13:12) Tekst. prom. 20 no. 12:50-52 D '60. (Fur, Artificial--Testing)



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SHALOV, I.I., prof., doktor tekhn.nauk

印度在深意中心

Basic characteristics of artificial fur with a knit base. Tekst .-(MIRA 16:9) prom. 23 no.8:62-67 Ag 163.

1. Moskovskiy tekstil'nyy institut. (artificial fur)

SHALOV, I.I., prof., doktor tekhn.nauk Evaluation of the voluminosity of yarn and knit fabrics. Tekst. prom. 24 no.l:24-27 Ja 64. I. Moskovskiy tekstil'nyy institut.

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CIA-RDP86-00513R001548420007-0

SHALOV, I.I., prof.

Polypropylene fibers and prospects for their use in the knit Polypropylene fibers and prospects for didat and 4. goods industry. Tekst. prom. 24 no.8:43-49 Ag '64. (MIRA 17:10)

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1. Moskovskiy tekstil'nyy institut.





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<u>L 24482-66</u> EWT(d) IJP(c) JKT	
ACC NR: AP6006144 SOURCE CODE: UR/0376/55/001/010/1338/1365]
AUTHOR: Shalov, V. M. 23	
ORG: <u>Central Aerohydrodynamic Institute imeni N. Ye. Zhukovskiy</u> (Tsentral'nyy Aero- gidrodinamicheskiy institut)	All Area Bar
TITLE: Principle governing the minimum of the quadratic functional for a hyperbolic equation	
SOURCE: Differentsial'nyye uravneniya, v. 1, no. 10, 1965, 1338-1365	
TOPIC TAGS: hyperbolic equation, functional equation, functional analysis, variation- al calculus, oscillation equation	
ABSTRACT: Utilizing a procedure he expounded earlier (DAN SSSR, 151, Nos. 2, 3, 1963), the author formulates and investigates a variational problem which is directed toward minimizing the quadratic functional for the hyperbolic equation of string oscillations:	
$\frac{\partial^2 u}{\partial l^2} - \frac{\partial^2 u}{\partial x^2} = g,$	
in a certain two-dimensional bounded region Ω with a piecewise discontinuously dif- ferentiable contour Γ . Here t is time; x is the coordinate of string points; u is the desired function corresponding to string displacement (deflection); velocity of wave	
Card 1/2	

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Construction of the second **科学科研究的教育和研究的教育的教育的教育和**的 L 24482-66 ACC NR: AP6006144 propagation along the string described by equation (1)--taken equal to unity for simplicity. Ordinarily the indicated method of minimum functional is applicable only to differential equations of the elliptic type. In his earlier two works, the author demonstrated in terms of Hilbert space the possibility of extending the variational principle of minimizing the quadratic functional to a rather extensive class of nonselfadjoint equations and set up the corresponding problems. In the present work the author investigates: (a) the existence and uniqueness of the solution of the varia-tional problem, (b) the existence and uniqueness of the generalized solution, (c) the generalized solution's relation to the solution of the variational problem and its differential properties, (d) the problem of satisfying the boundary conditions, and (e) the correctness of the string oscillation problem. In particular, he demonstrates the correctness of a certain mixed problem for the string oscillation equation in the case where the boundary-value data is given on the entire boundary. The main aim of the present work is to illustrate the general applicability of the method to the investigation of equations of the non-elliptic type, which includes the hyperbolic. The author thanks the following: Academician S. L. Sobolev for directing his attention to the present problem; his scientific director, Professor L. D. Kudryavtsev for con-5 stant interest and assistance in the work; and Candidate of Physico-mathematical Sciences G. M. Yakovlev for valuable comments. Orig. art. has: 2 figures, 85 formulas. 006 OTH REF: ORIG REF: 020/ 29Apr65/ SUBM DATE: SUB CODE: 12,20/ 2/2 Card

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CIA-RDP86-00513R001548420007-0

L 13828-63 EWT(d)/FCC(w)/BDSAFFTC IJP(C) ACCESSION NR: AP3003548 8/0020/63/151/002/0292/0294 AUTHOR: Shalov, V. M. TITLE: Some generalizations of Friedrichs spaces 16 SOURCE: AN SSSR. Doklady, v. 151, no. 2, 1963, 292-294 TOPIC TAGS: Friedrichs space, self-adjoint operator ABSTRACT: The author considers a class of operators associated with a generalized K. Friedrichs space, which allows him to state a variation problem for a sufficiently large class of equations with an operator that is not necessarily selfadjoint and that does not necessarily have a bounded inverse. He introduces notions of extensions of operators in the sense of K. Friedrich's and in the sense of S. L. Sobolev, and establishes certain relations between these extensions. "In conclusion, I express my sincere gratitude to professor L. D. Kudryavtsev for his interest in the work and for his valuable suggestions." The paper was presented by Academician S. L. Sobolev on 8 February 1963. Orig. art. has: 3 formulas. 1.2 Association: Institute of Mathematics, Academy of Sciences, SSSR (setting of Mat amiles Card 1/2/

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L 14362-63 EWT (d)/FC	CC(w)/HDS AFFTC IJP	(C)	
ACCESSION NR: AP300384:	1 S/004	20/63/151/003/0511/05	12
AUTHOR: Shalov, V. M.	•		53
TITLE: Solution of <u>non-</u> method	-self-adjoint equat:	Lons by variation	51
SOURCE: AN SSSR. Dokla	ady*, v. 151, no. 3	, 1963, 511-512	
TOPIC TAGS: non-self-ac variation r	ijoint equation, Fr: nethod for solving	ledrichs equation, equation, variation m	ethod
ABSTRACT: An auxiliary functional equation Au =	operator B is intro = f, which satisfies	oduced for the s the conditions:	
(1) (Au, Bv) = ((Bu, Av);		
(2) (Au, Bv) is (Au, Bu) tending to zero These operators can be I to A and B. Then the so	B-extended in the so	of u tends to zero.	
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ACCESSION NR: AP3003841 Au = f are given by those u that minimize the functional $D_f(u) = (Au, Bu) - (Bu, f) - (f, Bu).$ "In conclusion, the author expresses his deep gratitude to professor L. D. Kudryavtsev for valued comments and constant attentiveness to the present work." Orig. art. has: 3 formulas. ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics, Academy of Sciences, SSSR). SUEMITTED: 05Nov63 DATE ACQ: 15Aug63 ENCL: 00 SUB CODE: MM NO REF SOV: 005 OTHER: 003	L 14362-63 ·					
are given by those u that minimize the functional $D_f(u) = (Au, Bu) - (Bu, f) - (f, Bu).$ "In conclusion, the author expresses his deep gratitude to professor L. D. Kudryavtsev for valued comments and constant attentiveness to the present work." Orig. art. has: 3 formulas. ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics, Academy of Sciences, SSSR). SUBMITTED: 05Nov63 DATE ACQ: 15Aug63 ENCL: 00 SUB CODE: MM						
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$D_{f}(u) = (Au, Bu) - (Bu, f) - (f, Bu).$ "In conclusion, the author expresses his deep gratitude to professor L. D. Kudryavtsev for valued comments and constant attentiveness to the present work." Orig. art. has: 3 formulas. ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics, Academy of Sciences, SSSR). SUBMITTED: 05Nov63 DATE ACQ: 15Aug63 ENCL: 00		-				
"In conclusion, the author expresses his deep gratitude to professor L. D. Kudryavtsev for valued comments and constant attentiveness to the present work." Orig. art. has: 3 formulas. ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics, Academy of Sciences, SSSR). SUBMITTED: 05Nov63 DATE ACQ: 15Aug63 ENCL: 00 SUB CODE: MM				1	• .	
"In conclusion, the author expresses his deep gratitude to professor L. D. Kudryavtsev for valued comments and constant attentiveness to the present work." Orig. art. has: 3 formulas. ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics, Academy of Sciences, SSSR). SUBMITTED: 05Nov63 DATE ACQ: 15Aug63 ENCL: 00	$D_{f}(u) = (Au, Bu) -$	(Bu, f) - ((f, Bu).			
ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics, Academy of Sciences, SSSR). SUBMITTED: 05Nov63 DATE ACQ: 15Aug63 ENCL: 00	"In conclusion, the author e	eynnegges hi		atitudo +	•	
ASSOCIATION: Matematicheskiy institut im. V. A. Steklova Akademii nauk SSSR (Institute of Mathematics, Academy of Sciences, SSSR). SUBMITTED: 05Nov63 DATE ACQ: 15Aug63 ENCL: 00 SUB CODE: MM	DIGIESSUP L. D. KUNPVAVEGOV	TON VOINAG				
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SUB CODE MM	ASSOCIATION . Matematicheski	lar dunahdhich				11
NO NEL SOV: OOS OTHER: OO3	ASSOCIATION: Matematicheski nauk SSSR (Institute of Math	ly institut nematics, Ac	im. V. A. ademy of a	Steklova Sciences,	Akadem: SSSR).	11
	ASSOCIATION: Matematicheski nauk SSSR <u>(Institute of Math</u> SUBMITTED: 05Nov63	ly institut iematics, Ac DATE ACQ:	im. V. A. ademy of 15Aug63	Steklova Sciences, EN	Akadem: <u>SSSR</u>). CL: 00	11
	ASSOCIATION: Matematicheski nauk SSSR <u>(Institute of Math</u> SUBMITTED: 05Nov63	ly institut iematics, Ac DATE ACQ:	im. V. A. ademy of 15Aug63	Steklova Sciences, EN	Akadem: <u>SSSR</u>). CL: 00	11
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2/2 Card	ASSOCIATION: Matematicheski nauk SSSR <u>(Institute of Math</u> SUBMITTED: 05Nov63 SUB CODE: MM	ly institut iematics, Ac DATE ACQ:	im. V. A. ademy of 15Aug63	Steklova Sciences, EN	Akadem: <u>SSSR</u>). CL: 00	11
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MALOVA, I.I. (Goulder)
IGNATOVA, Lidia Petrovna, kandidat tekhnicheskikh nauk; NADEZHDINA, N.P., redenten; SHALOVA, I.I., retsenzent; MCDILEVSKIY, I.Ya., nanchnyy redaktor; GOUDSYCHIK, G.M., redaktor; MEDVEDEV, L.N., tekhnicheskiy redaktor
[Preparing yarn for the knit goods production] Podgotovka priazhi dita trikotazhnogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potreblenita SSSR, (MIRA 8:3) 1954. 131 p. (MIRA 8:3)
(Knit goods industry) (Yarn)

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MAYENTS, L.S.; LOKSHIN, B.V.; SHALTUPER, G.B. Vibrational spectra of ferrocenes. Part 1. Calculation of normal vibrations of the cyclopentadiene ring of ferrocene. Opt. i spektr. 13 no.3:317-323 S '62. (MIRA 15:9) (Iron) (Cyclopentodiene-Spectra)

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FEYGIN, S.A.; BASOV, A.N.; SHALPO, I.N.; BRANDOBOVSKAYA, L.A.

Economics of the refining of sour crude oil: a topic for discussion. Khim. i tekh. topl. i masel 9 no.5:44-48 5 My'64 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

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PHASE I BOOK EXPLOITATION 30V/\$303 Frunze. Universitet. Nauchnoye studencheskoye obshchestvo Sbornik nauchnykh rabot studentov, vyp. 2 (Collection of Sei- ontlice Works of Students, No. 2) Frunze, 1959. 99 p. 500 copies printed. Sponsoring Akency: KirGizskiy gosularstvennyy universitet.	
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RUBERTERNETTER, IRBETTERSCONSTRUCTED DESCRIPTION DESCRIPTION

SHALFYKOV, A., student IV kurea

 Quantitative analysis of aluminum on the basis of width of spectral lines. Sbor.nauch.rab.stud. Nauch.stud.ob-va Kir.un. no.2: (MIRA 13:7)

 1. Fiziko-matematicheskiy fakul'tet Kirgizskogo gosudarstvennego universiteta.

 (Aluminum-Spectrum)

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THE REAL PROPERTY AND THE REAL PROPERTY AND

9.6150 (1482) 26.1512 AUTHORS: Shaloykov A. Lobanov, Ye. M.

TITLE: Photoelectrical properties of silicon photocells with depletion layers

SOURCE: Nekotoriye voprosy prikladnoy fiziki. 1961, 36 - 45

TEXT: The Institut poluprovodnikov AN SSSR (Institute of Semiconductors AS USSR), the Fizicheskiy institut AN SSSR (Physics Institute AS USSR). AS USSR), the Fizicheskiy institut AN UZSSR (Physicotechnical Institute and the Fiziko-teknnicheskiy institut AN UZSSR (Physicotechnical Institute AS Uzbekskaya SSSR) are concerned with the technological aspects of the AS Uzbekskaya SSSR) are concerned with the technological aspects of the assurfacture of silicon photocells. Since silicon photocells with deplemanufacture of silicon photocells. Since silicon and might also be used tion layers are votential indicators for radiation and might also be used for converting solar energy or nuclear radiation into electric energy, the for converting solar energy or nuclear radiation into electric energy, the for converting solar energy or nuclear radiation into electric energy, the for converting solar energy or nuclear radiation into electric energy, the for converting solar energy or nuclear radiation into electric energy, the for converting solar energy or nuclear radiation into electric energy. The for converting solar energy of muclear radiation into electric energy is authors studied the effect of gamma and X-rays on valve-type silicon been obtained by diffusing phosphorus into p-type Si (4 ohm on; electron been obtained by diffusing phosphorus into p-type Si (4 ohm on; electron lifetime. 3 9:10⁻⁶ sec) The depth of the p-r junction was about 2u. The ohmic Pd contacts were electrolytically produced. The sensitive surface Card '/3

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Photoelectrical properties of

E = mean energy of a Compton electron, and $\boldsymbol{\varepsilon}$ = mean energy required for the production of an electron-hole pair. μ was experimentally found to be 0.113 \pm 0.0095. The values \overline{E} = 0.59 Mev and $\overline{\boldsymbol{\varepsilon}}$ = 3.6 ev were taken from publications. Using these values, the diffusion length of three silicon photocells was calculated to be 118, 245, and 257 μ . There are 8 figures and 15 references: 11 Soviet and 4 non-Soviet. The four references to English-language publications read as follows: Chapin, Fuller & Peerson, J. Appl Phys. 25. 676, 1954; Bell Lab. Pec., 33, 241, 1955; Heitler W., "The Quantum Theory of Radiation" Press New York. N 4, 1954; Yremmelmejer Frod. Y. R. E. 46, N 6, 1045 - 1049, 1958; Mc-Kay K. C., Me-Afee K. B., Phys. Rew. 91, 1079, 1953

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STATISTICS.

CIA-RDP86-00513R001548420007-0

³³¹¹⁷ s/638/61/001/0C0/044/056 B108/B138

24.2215 AUTHORS; Shalpykov, A., Lobanov, Ye. M.

Gamma sensitivity of silicon photocells

TITLE: Gamma sensiti and SOURCE: Tashkentskaya konferentsiya po mirnomy ispol'zovaniyu atomnoy energii. Tashkent, 1959, Trudy. v. 1. Tashkent, 1961, 271-276

TEXT: To investigate the possibility of using silicon photocells as direct converters of nuclear into electrical energy the authors studied p-type silicon valve-photocells prepared by them in the semiconductor laboratory of the Fiziko-tekhnicheskiy institut AN UzSSR (Physicotechnical Institute AS UZSSR). Research: in the field of silicon photocells is being advanced particularly, at this institute and at the Institut poluprovodnikov (Semiconductor Institute) and Fizicheskiy Institut AN SSSR (Physics (Semiconductor Institute). The lux-ampere characteristics of the barrier-layer Institute AS USSR). The lux-ampere characteristics of the barrier-layer photocells were linear up to 600 lux. The spectral characteristics had their sensitivity maximum around 7500 Å. The photocurrent is linearly dependent on the area irradiated and is directly proportional to the

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Gamma sensitivity of silicon

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intensity of incident X-rays. Silicon photocells can therefore be used in X-ray dosimeters. The gamma-ray experiments were made with Co^{60} as source (15 r/hr). The current recorded is linearly dependent on gamma-ray intensity. At a dose of 500 r/hr, it is of the order of 10-7 a. The photoelectric effect at the p-n junctions under gamma irradiation can be used to determine the diffusion length of minority carriers. The overall absorption coefficient for gamma rays from Co^{60} was found to be 0.113 ± 0.0095 . With the aid of this value and with data from other publications (Maslakovets Yu. P. et al. ZhTF, 1956, 26, 2396) the diffusion lengths L = 118, 245, and 257 μ were determined for the three different silicon photocells from the formula I short = egL. e - electron

charge, g - rate of carrier production. There are 5 figures and 12 references: 9 Soviet and 3 non-Soviet. The reference to the English-language publications read as follows: Chapin, Fuller and Peerson. J. Appl. Phys., 25, 676, 1954; Bell. Lab. Pec., 33, 241, 1955; Vremmelmejer. Procy. IRE 46, 6, 1045-1049, 1958; Heitler W. The Quantum Theory of Radiation, Oxford University, Press. New York, 4, 1954.

ASSOCIATION: Institut yadernoy fiziki AN UZSSR (Institute of Nuclear Card 2/2 Physics AS Uzbekskaya SSR)

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24,7700 (1035, 1043, 1055)

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26.1512

AUTHORS:

TITLE:

Shalpykov, A., Lobanov, Ye. M. Determination of some parameters of semiconducting materials by electron irradiation of p-n junctions

Seriya fiziko-PERIODICAL: Akademiya nauk Uzbekskoy SSR. Izvestiya. matematicheskikh nauk, no. 6, 1961, 80-81

TEXT; The authors examined the dependence of a Si photocell current on the energy and on the intensity of the incident electron beam. The energy of the bombarding electrons was varied between 0 and 30 kev by means of a high-voltage rectifier. The incident electron current did not exceed 20 Ma at a beam diameter of about 10 mm, During the measurements the photocells were placed inside a glass chamber in which pressure was

maintained at 10^{-6} mm Hg. The current in the cell due to electron bombardment was separated from the photocurrent due to light emission from the electron gun. The cells were made of p-type Si single crystals, with p-n junction produced by thermal diffusion in gaseous phosphorus. Results: The short-circuit current, I sc, caused by electron bombardment increased Card 1/3

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