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This Jour: Ref Zhur-Fill, N. 17, 1958, 79520

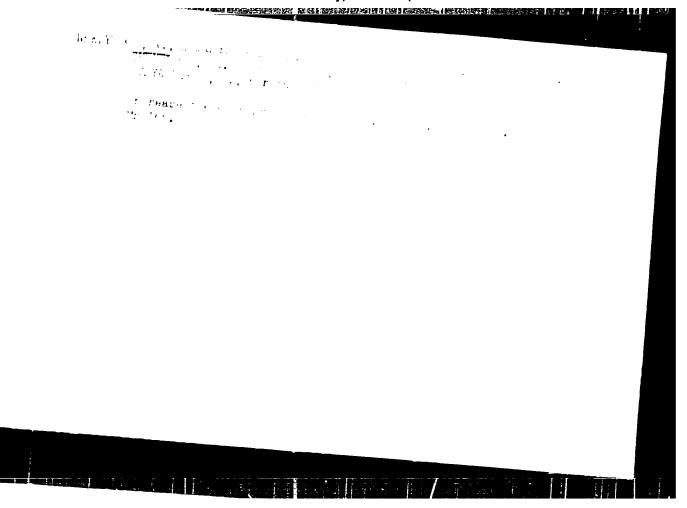
Juthar : Neklynyev, N.P.
That : Change of Pulse and Blood Pressure in School Children and Adults With Endemic Ociter.

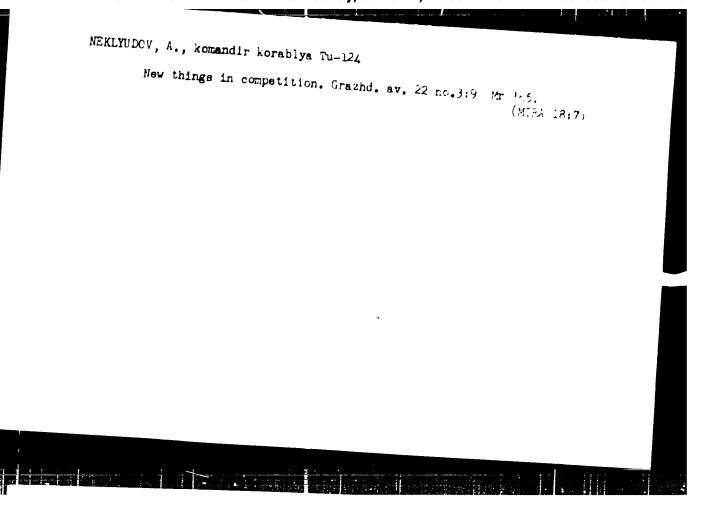
Orig Pub: Uch. Zop. Krasnodarsk. gos. ped in-t, 1956, vyr 12, 184-189.

Abstract: N. abstract

Card : 1/1
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BESTS AND





ACC NRIAPGO35278	•
SOURCE CODE: UR/0310/66/000/009/0045/004	46
AUTHOR: Neklyudov, A. (Senior Engineer; Inspector)	}
ORG: Central Volga Inspection Division of the River Registry Office of the RSFSR (Srednevolzhskaya inspektsiya Rechnogo Registra RSFSR)	
TITLE: Modernized transverse bow propulsion installation	
SOURCE: Rechnoy transport, no. 9, 1966, 45-46	; ;
TOPIC TAGS: ship, ship component, marine engineering, propulsion device, care alignment.	
ABSTRACT: Inadequate maneuverability of ships more than 100 meters long in river ports has necessitated the development of a new system of transverse bow propulsion the positioning, and interrelationships between the components, of the modernized system installed in tankers of Project 558 built late in 1965 are described and a schematic diagram is presented. Basic data on the maneuverability of these tankers are tabulated. The advantages of the new system over the old one are enumerated. Orig. art. has: 1 figure and 1 table.	n.
SUB CODE: 13/SUBM DATE: None	
Card 1/1 UDC: 629.12:532.5.075.014.6	
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8/190/60/002/01/01/027 B004/B060

AUTHORS:

Losev, I P . Smirnova, O V Fortunatov O G Neklyudov,

TITLE:

Study of Interfacial Polyesterification

的一种,我们就是一个工作的,我们是一个工作的,我们就是一个工作,我们就是一个工作,我们就是一个工作,我们就是一个工作的,我们就是一个工作的,我们就是一个工作

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960. Vol. 2 No

pp. 1659 - 1664

TEXT: The authors report on their experiments on interfacial formation of polyesters and on data found concerning the dependence of the properties of polymers obtained on the components applied, as well as concerning the effect of reaction conditions Polyesters were synthesized at a ':' rat: of the components to one another, a concentration of 0.05 mole/1. $20^{\circ}C$ reaction time 30 min, and rpm of the stirrer 1200 r/min. The components used were bivalent alcohols (phenols) and dicarboxylic acids. Results are given in Table ..

Card 1/6

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

Study of Inter	facial Polyesterification	B/190/60/002/ B004/B060	011/011/027	
8/A:01	Table 1 acid chloride polyester soluble in: cloc c ₆ H ₄ -COCl cresol, dimethyl	melting point 3c	film	
HO (CH ₂) ₄ -OH	formamide cloc (CH ₂) ₈ -COClacetone, toluene methylene chlo- ride Cloc (CH ₂) ₄ -COCldto	82 g =	stable transparent little stable	
C6H4(OH) ⁵	Cloc-C ₆ H ₄ -CoCl cresol Cloc-(CH ₂) ₈ -CoClacetone, toluene methylene di	65 66 not melting	dto little	l'
CH ₃	cloc-(cH ₂) ₄ -cocldto.	98 '00	stat; e	
CH ₂ -CH ₃	HC10C-C6H4-COCl cresol dimethyl formamide	340 - 345	stable film	

ito CH ₂ /8-coclacetone to uene atable transparent film color (CH ₂) ₄ -coclacetone to uene atable transparent stable transparent stable transparent stable transparent atable transparent stable transpar			85415			
acid chloride polyester soluble integrated point of the solubl	Study of Inter		В		011/01/1/027	
Boluble int point of ruther like cloc-(CH ₂) ₈ -COClacetone toluene cloc-(CH ₂) ₄ -COClacetone toluene cloc-(CH ₂) ₈ -COClacetone cloc-	glycol	Continuation		 		٦.
to C10C-(CH ₂) ₈ -COClacetone toluene C10C-(CH ₂) ₄ -COClacetone toluene C10C-(CH ₂) ₄ -COClacetone toluene C6H ₁ , C10C-(CH ₂) ₈ -COClacetone toluene C6H ₁ , C10C-(CH ₂) ₈ -COClacetone toluene C10C-C6H ₄ -COClacetone toluene C10C-(CH ₂) ₈ -COClacetone toluene C10C-(CH ₂) ₈ -COClacetone toluene C10C-(CH ₂) ₈ -COClacetone toluene C10C-(CH ₂) ₄ -COClacetone C10C-(CH ₂) ₄ -COClacetone toluene C10C-(CH ₂) ₄ -COClacetone C10C-(CH ₂)	6-7.0-	acid chioride		melting	ਿੰਹ ਵਾ	
dto C_6H_1 , C_6H_4 -OHClOC- C_6H_4 -COCl cresol C_6H_1 , C_6H_2 , C_6H_1 , C_6H_2 , C_6H_1 , C_6H_2 , C_6H_1 , C_6H_2 , $C_$	dto	Cloc-(CH2)g-COC1	acetone toluene	point 'C	ruther live	1
to CLH ₄ C C ₆ H ₄ -OHClOC-C ₆ H ₄ -COCl cresol cr	- ·					
ito CH ₂ /8-coclacetone to uene atable transparent film color (CH ₂) ₄ -coclacetone to uene atable transparent stable transparent stable transparent stable transparent atable transparent stable transpar	HOCKH4 CC6H4	-OHC10C-C6H4-COC1	creso:	nr* me.t.ng		
C10C-(CH ₂) ₄ -C0Clacetone, toluene 94 96 very sol.i transparent	dt ·	j	methylene chlo-	18 150		
HO-C6H, C-C6H, OHC1OC-C4H, COC1 cresol 139 140 star H for	CH,	C1OC-(CH ₂) ₄ -COC1	acetone, toluene	94 96	-	
CH,	но с ₆ н ₄ с с ₆ н ₄	-OHC10C-C6H4-COC1	cresol	339 *40	star.# fl.x	
Pard 3/6	,	!	;	1	ļ	

Study of Interfacial Polyesterification

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Continuation of Table

glycol	0.014 -11	on of Table		
0	acid chloride	polyester	melting	
		golubla) X	* 1 l to
dia.	C10C-(CH ⁵)8-COC1	Soluble in:	point CC	
	1-100 (01/2/8/00014	acetone toluene		rupter ke
dto	Cloc (CH ₂) COCL	d + a		ropter .kel
De 1		u t o		4.
Polyesters from	A A		í l	• •

Polyesters from 4.4 dihydroxy diphenyl methyl ethyl methane and adipiinformed or sebacic chloride yield stable transparent films with good adnession to glass and metal Aliphatic glycols exhibited a low reactivity and gave poor yields Copolymerization of 4 4'-dihydroxy dipheny. tyclohexane with adipic chloride (AC) and terephthalic chloride TPC; under the same conditions as before, gave the following results:

TPC AC	molt	Tab)	e 2	0	
	melting point	solubility	TPC·AC	melting	soluty
80 20	276-278 238-240 185-190	insoluble in m cresol dtc dto	60 40 50+50	*8 40	in m crest. di methyl formamide in dimethyl for
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Study of Interfacial Polyesterification

\$/:90/60/002/0:1'5:1/527 B004/B060

Continuation of Table ?

TPC · AC	melting	solubility	TPC .AC	melting	solutility
	point		.l	point	
40,60	140-142	in dimethyl forma	20.80	.08 . 0	dimethyl formamide
		mide, m-cresol			cresol Toluene
30.70	118-122	dto			acetone
			10 90	98 .05	dto

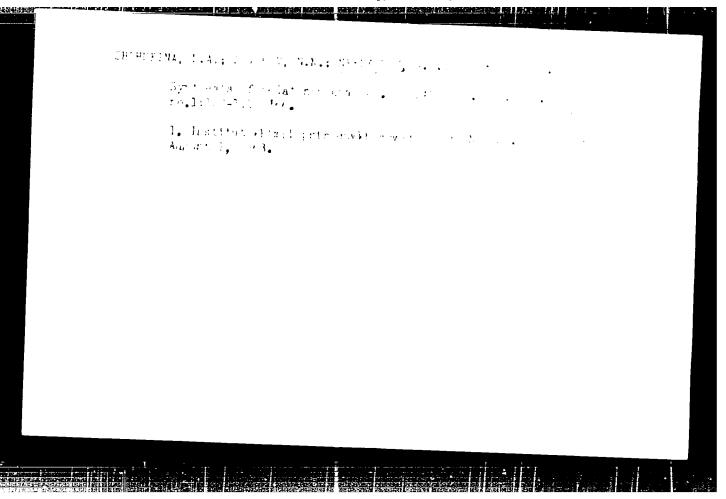
With rising TPC content the ability to form films is reduced to liminished solubility. The effect of the concentration of the components their initial ratio, temperature, alkali added reaction time upon the intrinsic viscosity (determined by an Ostwald Pinkevich viscosimeter and yield was examined by the example of 4.4 dihydroxy diphenyl 7.2 propane (Dian) and TPC. The results are as follows: ') The reaction proceeds most readily with Dian excess. Increase of concentration of components increases viscosity and yield. 2) The optimum initial component concentration is 0.11 mole/1 for viscosity. O.13 mole/1 for yield. 3) This difference of the maxima of 0.02 mole/1 is eliminated. If NaOH is added with an excess of the per mole of Dian. Viscosity and yield then attain a maximum at

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

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		05415	
O mole/las NaOH enterperature viscosity where are 2 British	terfacial Polyesterification 4) Viscosity and yield drop with the acid is 18-20°C 6) Optimum reaction the maximum yield is alreafigures. 2 tables and 5 refere	n time is 25 min for maximum ady attained after f min ences: 3 Soviet 2 US and	
ASSOCIATION,	Moskovskiy khimiko-tekhnologi D. I. Mendeleyeva (Moscow Ins imeni D. I. Mendeleyev) May 6. 1960	cheskiy institut im titute of Chemical Technology	ι/ -
Card 6/6			



NEKLYUDOV, Aleksandr Kus'mich, brigadir; MIRONOV, T.V., red.; MATVETEV,
A.P., tekhn. red.

[In our mixed brigade] V nashei kompleksnoi brigade. Moskva, Izdvo "Sovetskaia Rossiia," 1961. 15 p. (MIRA 14:12)

1. Kompleksnaya brigada kolkhosa "Druzhba" Kiyasovakogo rayona Udmurtskoy ASSR (for Neklyudov).

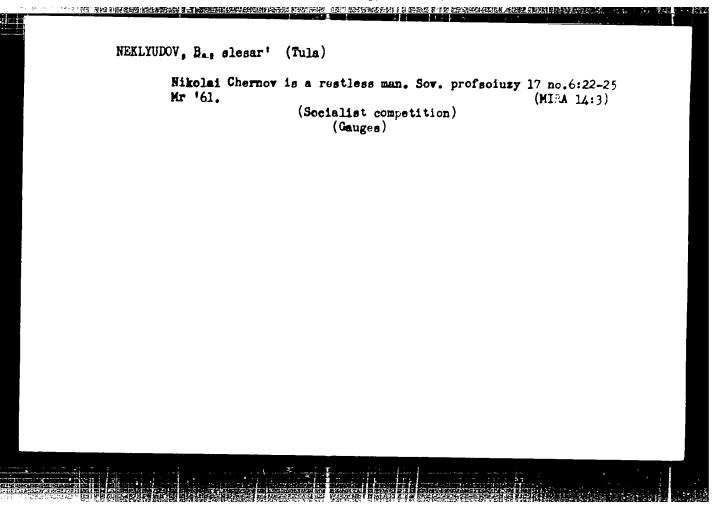
(Kiysovo District—Collective farms)

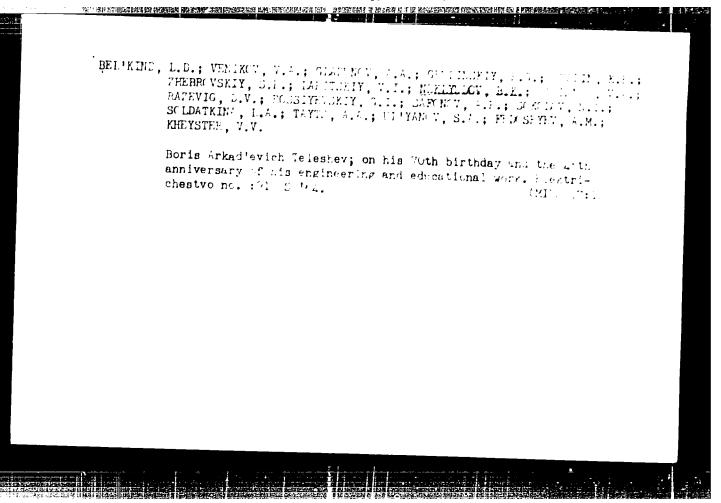
SHCHAPOV, M.A., starshiy nauchnyy sotrudnik; IVANOVA, M.I.; BATUNCVA, N.A., inzh.; NEKLYUDOV, A.N.

Determining the optimum braking load of the tension devices on winding and varping machines. Tekst. prom. 25 no.4:33.35 Ap 165.

1. Ivanovskiy nauchno-issledvatel'skiy institut tekstillny promyshlennosti (for Shchapov). 2. Nachal'nik tekstillny tekstillny fabriki imeni Dzerzhinskogo (for Ivanova).

3. Laboratoriya tekstil'noy fabriki imeni Izerzhinskogo (for Batunova). 4. Zamestitel' nachal'nika motal'no-snoval'nopo otdela tekstil'noy fabriki imeni Izerzhinskogo (for Neklyudov'.





1 2968-66 EMT(d)/EMP()
ACCESSION NR: AP9026355 BMT(d)/EMP(k)/BMP(1)UR/0105/64/000/009/0091/0091 AUTIKOR: Bel'kind, L. D.; Venikov, V. A.; Glazunov, A. A.; Grudinskiy, P. G.; Zhadin, K. P.; Zhebrovskiy, S. P.; Lapitskiy, V. I.; Neklyudov, B. K.; Pavlenko, V.A. Razevig, D. V.; Rossiyevskiy, G. I.; Safonov, A. P.; Sokolov, N. I.; Soldatkina, L.A.

Tayts, A. A.; Ul'yanov, S. A.; Fodoseyev, A. H.; Kheyster, V. A. TITLE: Professor B. A. Teleshev on this 70th birthday and the 45th anniversary

SOURCE: Elektrichestvo, no. 9, 1964, 91

TOPIC TAGS: electric engineering porsonnel

of his engineering, scientific, and teaching activity

ABSTRACT: Borie Arkad'yevich Teleshev was seventy years eld 12 March 1964. He graduated from the electromechanical department of the Petrograd Pelytechnic Institute in 1917 and gained the title Electrical Engineer in 1920. In the Union of Electric Power Stations of the Mechavekiy rayon, Teleshev was one of the founders of the first dispatcher service of the Boschw Power System, the chief dispatcher of this system, the manager of the high-veltage networks of the Moscow Union, the chief engineer in construction of the Messey high-voltage network and of the high-voltage networks of the

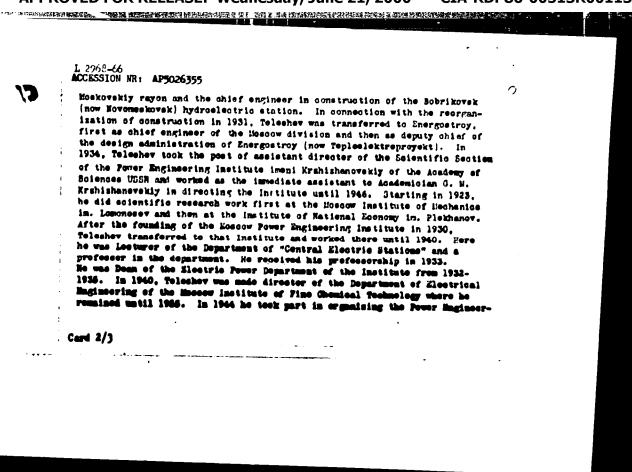
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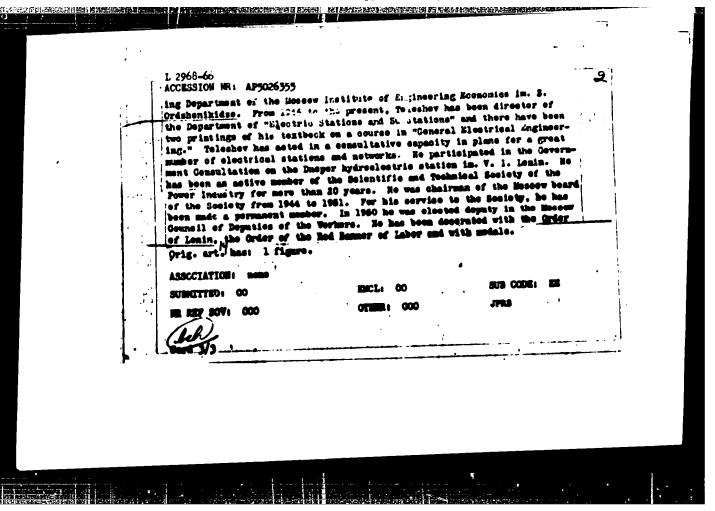
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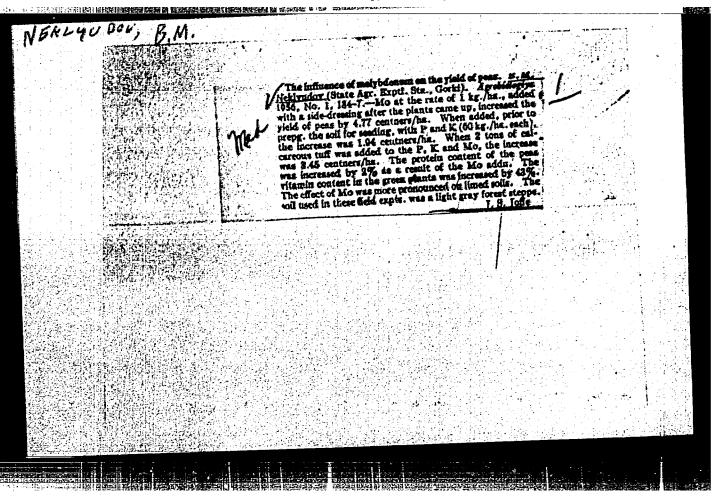




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- 2. USSR 600
- 4. Peas
- 7. Effect of time and method of sowing, quantity of seeds, and separate sowing of graded seeds on the yield of peas, Sov. agron, 11, No. ?, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

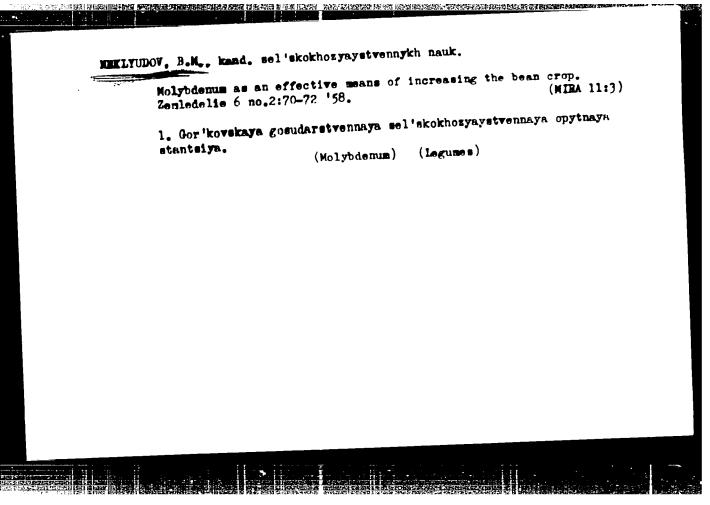


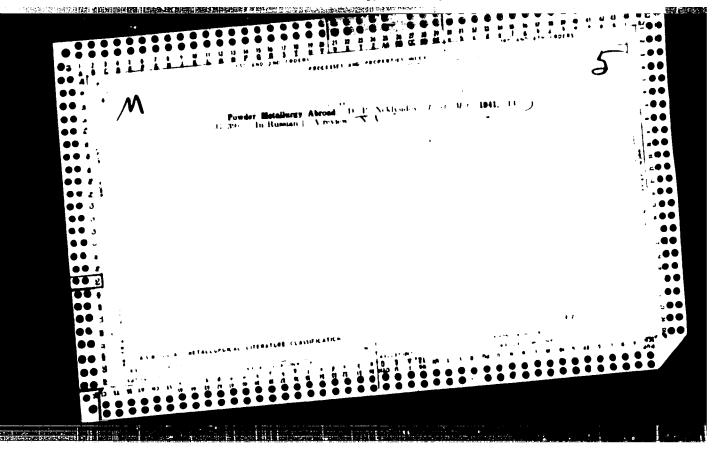
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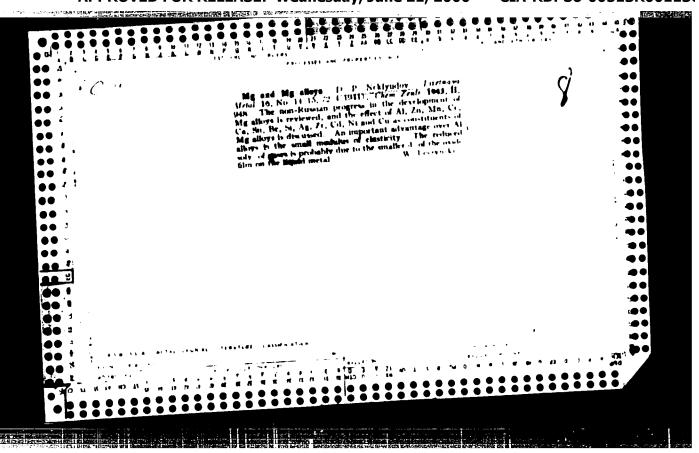
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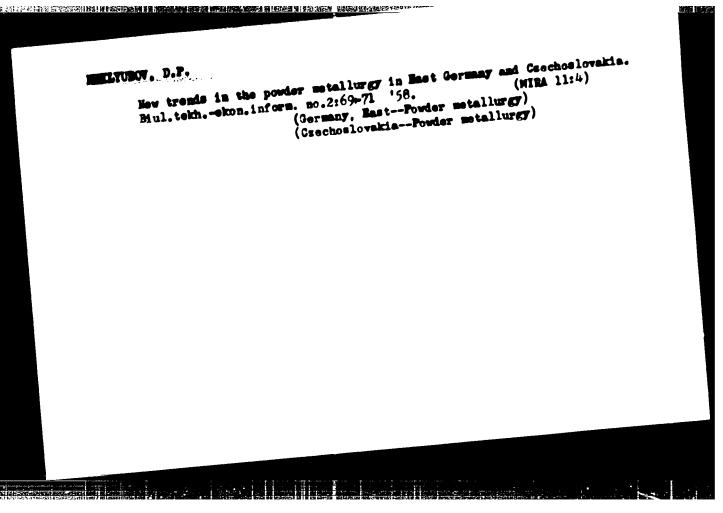
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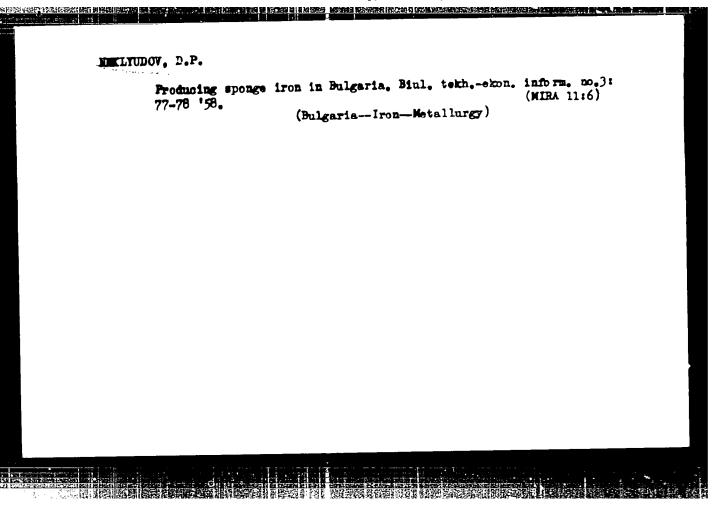
: USSR : Cultivated Plants. Cereels COUNTRY CATEGORY RZhBiol., No.23 195:8, No. 104674 ABS. JOUR. , Neklyudov, B. M. AUTHOR : The Influence of the Treatment of Seeds with Molybdenum INST. on the Yield of Peas and Vetch. TITLE : Udobreniye i urozhay, 1957, No. 4, 36-40 ORIG. PUB. : Luring 1952-1955, at Ger'kovakaya Agricultural Experiment Station in the conditions of light-gray forest steppe ABSTRACT soils, the yield of peas increased by 37% efter the application of Mo into the soil (1 kilogrem/ha). Application of Mo under wetch (0.5 kilograms/he) increased the hay yield by 41% and that of seeds by 21%. The beneficial efter effect of the application of Mo into the soil wes noted on the yield of the succeeding been crop. Soaking the seeds in the solution of ammonium molybdate was also reflected very favorably on the yield of peas and wetch. Card: 1/2

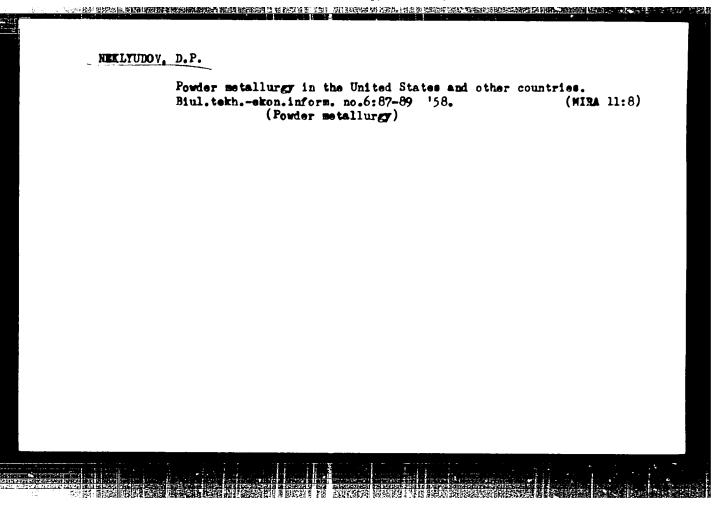


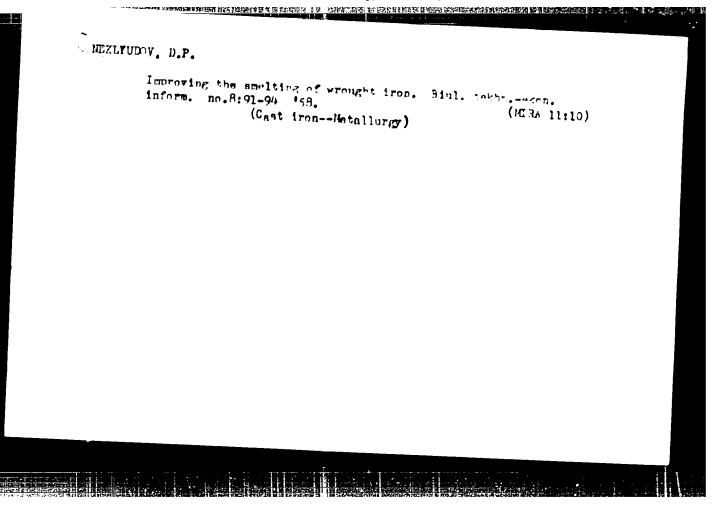


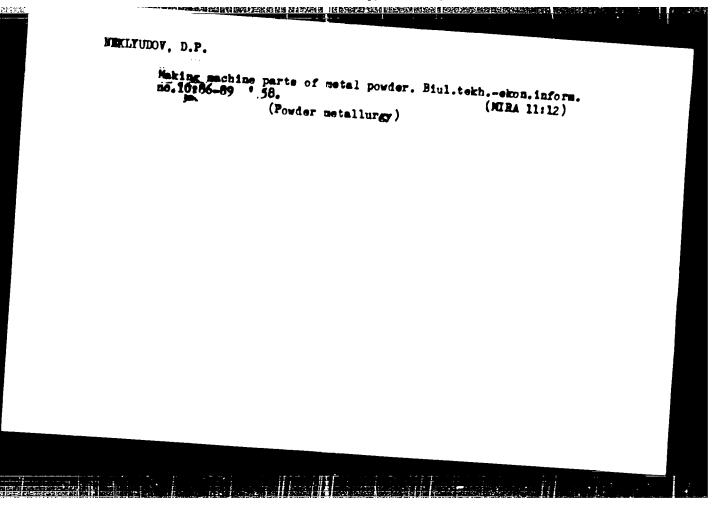


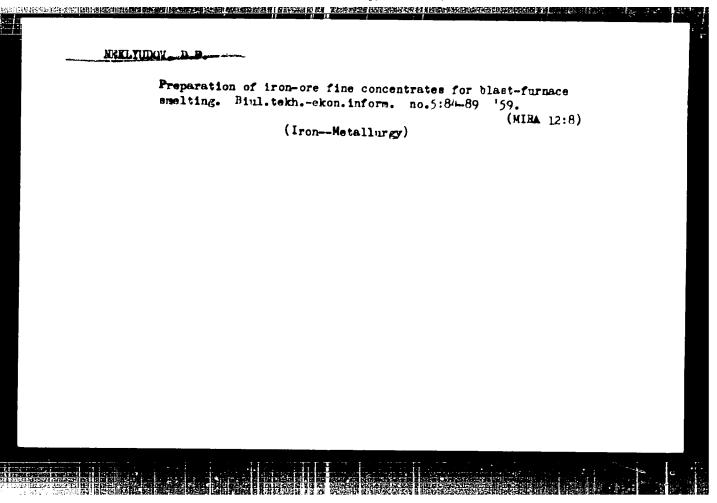












8/193/60/0 10/008/015/015 ADD+/KOD1

AUTHOR:

Neklyudov, D.P.

TITLE:

The Ferrous and Non-Ferrous Metallurgies in the GDR (German

Democratic Republic) and Their Prospects of Development

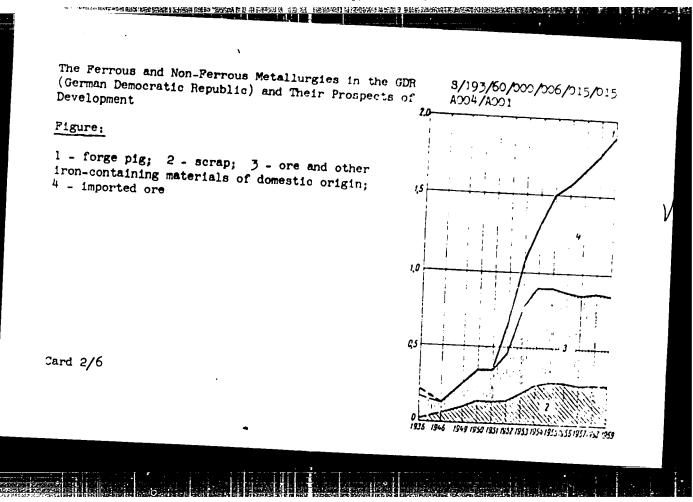
PERIODICAL:

Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 6, pp.

77 - 79

TEXT: In his survey on the development of the metallurgical industry of the GDR the author states that in 1959 1,898,400 tons pig iron were produced in the GDR. The graph shows the development of forge pig production in the GDR.

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8/193/60/000/006/015/015 A004/A001

The Ferrous and Non-Ferrous Metallurgies in the GDR (German Democratic Republic) and Their Prospects of Development

The total output of forge pig of the ten blast furnaces in the GDR - six of them in Stalinstadt and four in Maxhuette - amounted to some 1.1 million tons in 1959. At Maxhuette a tubular Renn-furnace for the melting of sponge iron from low-grade ores and two agglomeration plants were installed. Between 1951 and 1954, 10 lowshaft furnaces were built, devised for the melting of pig iron from low grade ores of the Badenleben-Sommerschenburg deposits, containing on the average 20 - 23% Fe and 35% SiO2. The lack of coking coal was partly compensated for by using coke with a high flame point made from domestic brown coal by a special process developed in the GDR (see Byulleten' tekhniko-ekonomicheskoy informatsii, 1959, No. 2, p. 82). The annual total output from low-shaft furnaces increased from 60,000 tors in 1954 to nearly 100,000 tons in 1959. The melting time in low-shaft furnaces, particularly with an oxygen blast enriched by 24.5% 02 amounts only to one fifth of the time necessary for blast furnace meltings. It is planned to increase the production of ferrous metal during 1959-1965 by 78% compared with the 1958 figure, while the number of workers will only be increased by 9% and the labor productivity will rise by 55%. It is planned to increase the pig iron production in the GDR by

Card 3/6

S/193/60/000/006/015/015 A004/A001

The Ferrous and Non-Ferrous Metallurgies in the GDR (German Democratic Republic) and Their Prospects of Development

1965 to 2,150,000 tons per year. In 1959 3,207,400 tons of steel ingots were produced, most of it in open-hearth furnaces. The author points out that the amount of scrap available is far from being sufficient. Owing to this fact the amount of pig iron in the open-hearth charge was raised to 450-500 kg/ton. To avoid a decrease in the productivity of open-hearth furnaces due to a further increase of the pig iron percentage in the charge, scrap obtained from the USSR was added. The productivity of open-hearth furnaces amounted to 68,000 tons per furnace in 1959, i.e. an increase of 28% compared to 1954. Also the production of rolled steel was increased. To reduce the dependence of the GDR on imported rolled steel, it is planned to increase the share of domestic rolled steel to 67%. The productivity of rolling mills was raised due to their being redesigned. Besides, new rolling mills were put in operation in Brandenburg, Freithal and Risa. The author emphasizes however, that the demand of rolled products is not at all met by the present output. In 1959 2,487,500 tons of rolled steel were produced compared with 468,000 tons in 1949. It is planned to increase the output of steel ingots to 1.9 million tons in 1965, i.e. by 40% compared to 1959. By 1965 it is

Card 4/6

分。其下公司[15]的时代的"经验"的基础的基础的"国际的经验"等。由于1500年,1500年的第三人称形式的主义是对自由的现在形式的形式的经验的不同的对于1500年的

3/193/60/000/006/015/015 **A004/A00**1

The Ferrous and Non-Ferrous Metallurgies in the GDR (German Democratic Republic) and Their Prospects of Development

planned to produce 4.63 million tons of steel ingots, including 550,000 tons of electric steel. At the metallurgical "I.V. Stalin" Combine it is planned to equip a converter with oxygen top blast to obtain L-D steel. At the same Combine a high-efficient wide-strip mill, a cold-rolling mill, a tube-welding mill and a seamless tube mill are going to be erected. The total tube output is to be 300,000 tons by 1965. By 1965 the output of steel ingots from molten charges will increase by 20% with a further increase to 30%. Correspondingly the production of steel ingots from open-hearth steel will decrease to 70-60%. It is intended to increase the production of rolled steel from 1959 to 1965 by 51%, while the output of sections, sheet material, girders, etc. is to be increased 169%. By 1965 the share of high-quality steels in the total steel production is to attain 85.36. It is intended to cut the number of steel grades from 550 to 300. According to the author, the productivity of new plants put into service lately, will amount to 3 million tons within the next years. From 1949 to 1959 the output of copper ore nearly doubled, owing to the operation of new equipment and an increase in the copper content of the ore from 12 to 16.4 kg/ton. The lead output in the Preiberg region increased during the last decade 3.6 times, while the tin output was raised Card 5/6

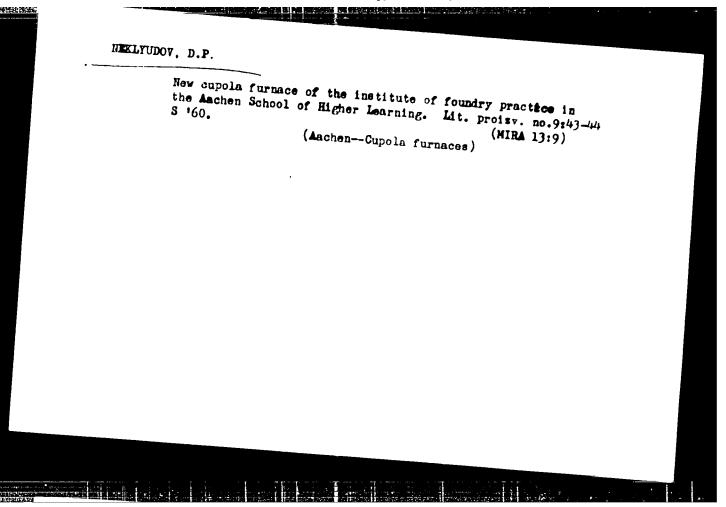
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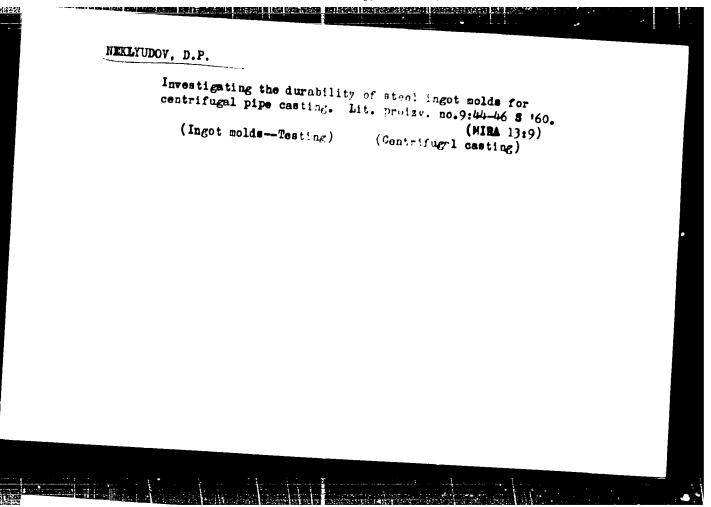
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The Ferrous and Non-Ferrous Metallurgies in the GDR (German Democratic Republic)

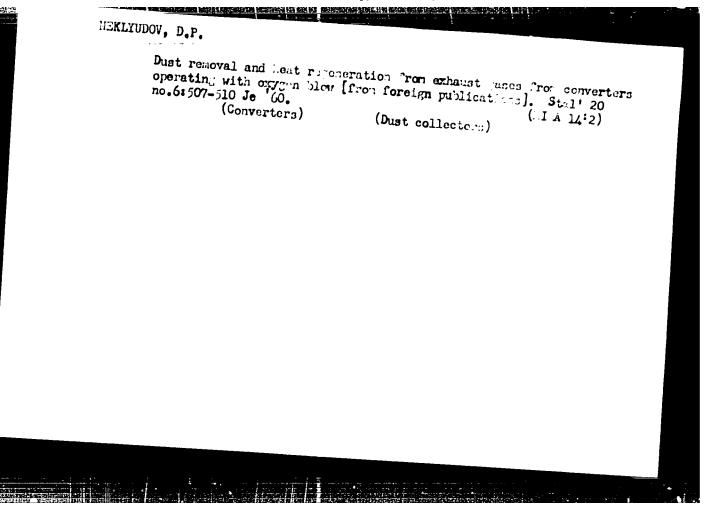
4.3 times. New deposits of non-ferrous metals, particularly copper ore, lead-zinc ore, tin ore and feldspar were detected as a result of extensive prospecting. The output of the metallurgical enterprises increased during the previous decade by 94%, while the production of semifinished items increased by 265%. Although the labor productivity of copper melting increased by 77% - for lead and tin the figures are 60% and 515% respectively - the growing demand of the national economy of the GDR in non-ferrous metals could not be satisfied by domestic raw materials. By 1963 the production of refined and electrolytic copper is to be increased by 150% compared to the 1958 figure. The development of the metallurgical industry in the GDR during the last decade affected the per-capita output of cast iron as shown in the table below:

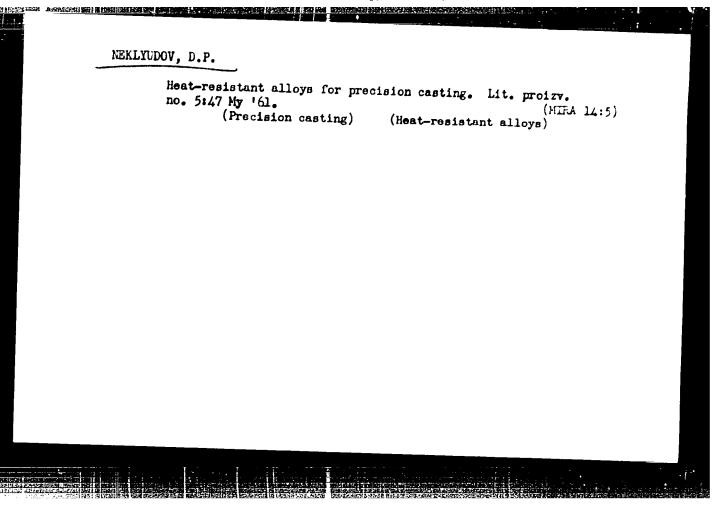
1 agr.8	Cast Iron Production	output of cast iron as
1956	thousand tons	Per-capita Cast Iron Production
1957	905	kg Production
1958	978	£, .
There is 1 f	1gure and 4	56.1
Card 6/6	1,016 Igure and 4 non-Soviet references.	58.7

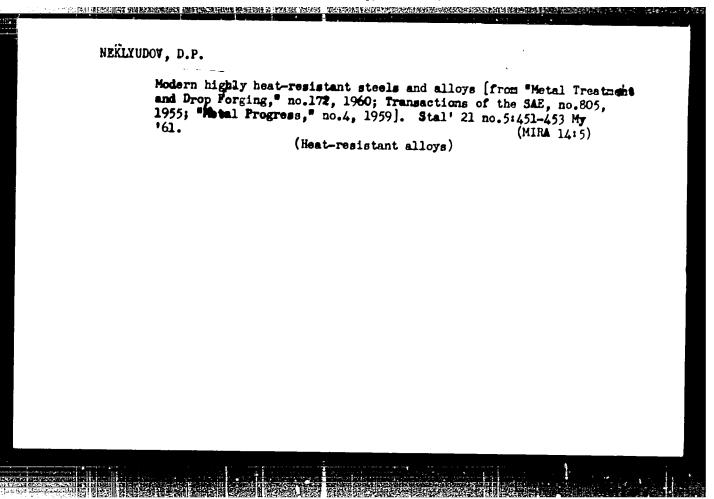


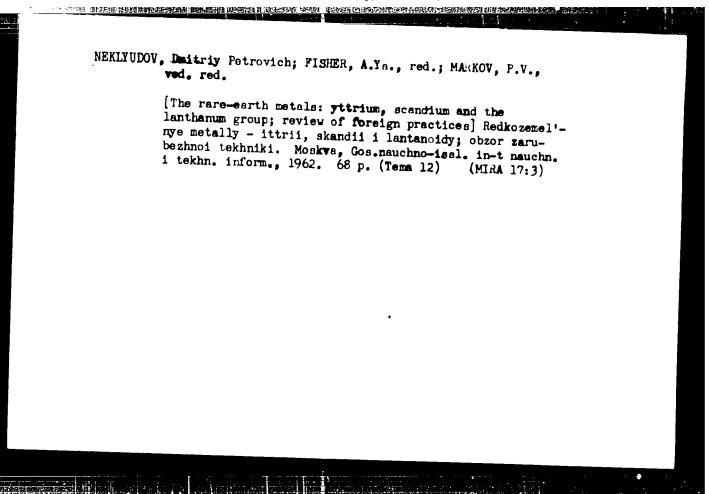


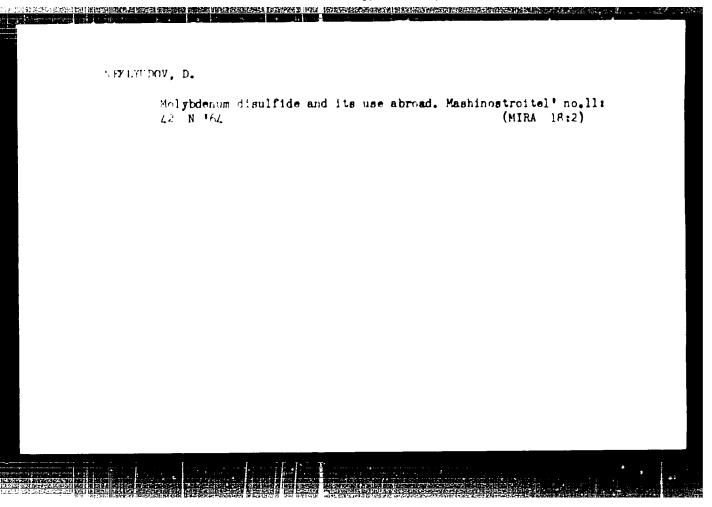
APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

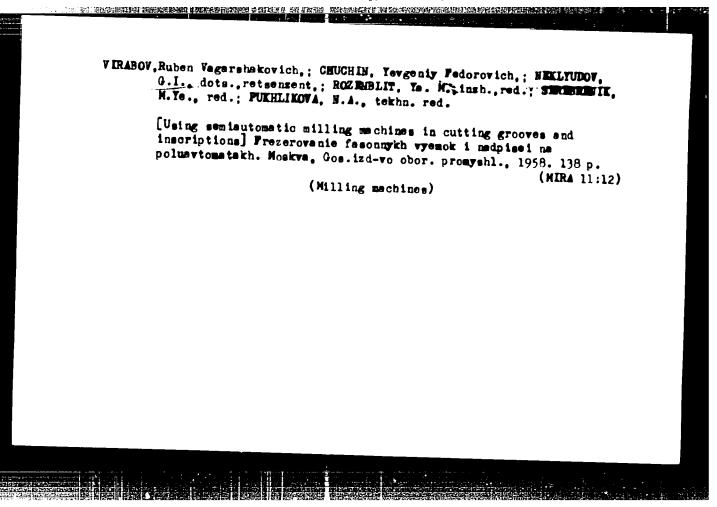












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25 (5) SOV/119-59-1-8/18 Volkov, N. N., Engineer, AUTHORS: Newlyudov, G. I., Docent

From Automatic Machines to an Automatic Plant TITLE:

Priborostroyeniye, 1959, Nr 7, pp 21 - 22 (USSR) PERIODICAL

In the Collective KB for clock manufacture and in the second ABSTRACT: Moscow clock factory, work is being carried out with a view of increasing the operating efficiency of the clock- and watch industry. In the course of this work an automatic device of the type T-240 was developed for the working of half-finished material; the speed of excenter presses could be increased up to 500 r.p.m., a vibrational material supplying device was introduced, and an instrument of the type P-34 for automatic control was worked out. The old production system in the clock factory was then briefly outlined, and the newly worked-out technologic al process for the production of plate bars, which consists of 36 operations carried out on 34 automatic devices of 11 different types. The analogous old process consisted of 60 - 80 operations carried out on of machines. The advantages offered by the new production assembly line are discussed, and it is said that for the projecting of automatic devices for surface Card 1/2

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From Automatic Machines to an Automatic Plant

SOV/119-59-7-5/18

working and for fashioning the third quarter of the year is intended to be used. The coming year is reserved for the projecting of automatic profile cutters. In the last part of this paper individual automatic devices are discussed. Pigures 1 - 3 show an 18-position automatic drilling machine, an it-position automatic threading die, and a special automatic drilling— and threading machine. There are 3 figures.

Card 2/2

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		khno-	Abotka FL- Auto- ries.	ndys.	:	atry.	COVERAGE: This is Volume III of the tranactions of the Second Conference on the Null Mechanitation and Automation of Namine-turing Processes in the Machine Industry, held September 25-29, 1956. The tranactions have been published in three volumes II with the actualion and confrol of metalic, and volume II, with the actualion and confrol of machines. The present volume deals with the automation of matchine and vorse the Antennia, and with Reference of matchines and worse tion. The tranactions on the automation of arts incontinue.	- Pug	×	£	53	3		8	8	\$	111	3	ř.	74.7	
	\$0V/5291	avtomatizatsii tekhno 2d, Kuscom, 1955	omitizatelys mashincetroltelinykh protecsov. t. 111: Obrabotka rezaniyem i obahchiye voprosy avtomitizatsii (Automition of Machinethne-Milding Frocesses. v. 3: Metal Outting and General Automation Problems Rascow, Izd-vo AN SSSM, 1960. 296 p. (Series. Its: Trudy, t. 3) 4,700 copies printed.	Institut asshinovedeniya	Nesp. Ed.: W. I. Diwushin, Academician; Ed. of Publishing Ecuses: W. A. Kotow; Tech. Ed.: I. F. Kurfain.	POSE: This collection of articles is intended for technical personnel concerned with the sutomation of the machine industry	Secon ober 25 wolune and wol presch nud work	S Des	1110	<u> </u>	Automation of Universal Metal-Cutting Machines		30V/3291	Per	7	1 on	-	į		ş	
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5/126/61/011/001/010/019 E193/E483

AUTHORS:

Garber, R.I., Neklyudov, I.M. and Perunina, L.M.

TITLE:

Work-Hardening of Bismuth Under Conditions of

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Programmed Loading

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PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.11, No.1, pp.108-114

Increasing the rate of deformation, or lowering the TEXT: temperature, brings about an increase in the work-hardening exponent; this effect is attributed to the fact that under these conditions duration of the relaxation process during deformation decreases. At relatively higher temperatures, the work-hardening exponent decreases owing to increased intensity of relaxation. However, it has been shown by Bol'shanina (Ref.1) that the yield point of twinned calcite increases five times after annealing, while Garber et al (Ref.3) have found that the yield point of iron, twinned at the temperature of liquid helium, also rapidly increases during subsequent heating to room temperature. present investigation was to elucidate the mechanism of these The object of the effects by studying work-hardening of bismuth. Since twinning is Card 1/10

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Work-Hardening of Bismuth Under Conditions of Programmed Loading

the predominant mechanism of plastic deformation of this metal, it was assumed that its mechanical properties would be similar to those of twins in calcite and iron. Refined bismuth was used for the preparation of the experimental test pieces, made by the Bridgeman method, in the form of rods (180 mm long, 5 mm in diameter) with spherical ends, and subsequently vacuum-annealed at 200°C for 3 h. The experiments consisted in straining the test pieces in tension at room temperature under controlled conditions. The tensile force was applied by means of weight, hung at the lower end of the specimen, the usual precautions having been taken to ensure axial loading. The load was increased in a pre-determined fashion by means of an automatic dispenser from which small balls dropped at regular intervals into a container which constituted the loading weight. Each load increment did not exceed 6 x 10⁻³ g/mm², and the average rate of loading was maintained constant throughout each experiment, the rates applied varying between 2 and 10 g/mm²/h. It was found in the course of experiments that it was possible to select a certain critical rate of loading Card 2/10

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ALTERNATION PROGRAM TO MANY HIS DESCRIPTION OF THE PROGRAM OF THE

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Work-Hardening of Bismuth Under Conditions of Programmed Loading ok at which the rate of deformation s remained constant within a wide interval of applied stress. This can be seen in Fig. 2, where elongation ε (103%, left-hand scale) and stress σ (g/mm²) right-hand scale) are plotted against time t (hours). sure that the test piece had, in fact, undergone plastic deformation, & was measured while the load was gradually removed. The results (broken curves in Fig.2) show that although some elastic recovery had taken place, more than a half of the elongation, attained at the end of the loading cycle, was due to plastic deformation. Fig.3 shows two $\sigma(\epsilon)$ curves, constructed for two identical specimens, loaded at $\sigma \leqslant \sigma_k$, the upper and lower graphs relating to specimens loaded at 2.3 and 4.5 g/mm²/h, respectively. It will be seen that in both cases, the workhardening exponents 30/3 cremained constant. The results of the next series of experiments are reproduced in Fig.4, where elongation & (%, left-hand scale) and stress o (g/mm2, righthand scale) are plotted against time t (hours). Graph 1, $\sigma(t)$ and 2, s(t) relate to a specimen tested in the following way:

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Work-Hardening of Bismuth Under Conditions of Programmed Loading

the load was applied at a rate $\dot{\sigma} = 8 \text{ g/mm}^2/\text{h}$ until a certain σ_{m} was reached at which the $\varepsilon(t)$ relationship ceased to be linear; beginning from this moment, the load was maintained constant at for 24 h during which time the test piece continued to deform owing to creep; the rate of creep during this period remained constant and was practically the same as the rate of strain during the preceding period. For comparison, Fig. 4 shows a creep curve (graph 3) of another specimen which has been loaded to σ_{m} in 20 min. It will be seen that in this case the total deformation was higher than that of the test piece strained under slow rate of loading, and that the rate of creep under this constant stress was also considerably higher. The interesting fact is that in the case of specimens, work-hardened during deformation at slow rate of loading and then re-loaded at a fast rate to σ_{m} , the rate of creep decreased 2 to 3 times (see right-hand branch of graph 2, Fig. 4). It was also found that test pieces, work-hardened by deformation at slow loading rates, did not lose their strength after ageing (with the load taken off) at room temperature. The results described above confirm the hypothesis put forward by Garber (Ref. 4), Card 4/10

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Work-Hardening of Bismuth Under Conditions of Programmed Loading

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according to whom the observed effects are due to diffusion strengthening of twins which is brought about by aggregation of vacancies and impurity atoms at the twin boundaries. when twins do not traverse the cross-section of the test piece, diffusion strengthening may inhibit further growth of the twins even at relatively high loads. It was for this reason that no traces of twins were observed on the surface of the test pieces used in the experiments described above and that deformation took place under conditions of equilibrium, as indicated by the absence of discontinuities on the $\epsilon(t)$ curves. obtained when a test piece in the form of a single crystal, 1.2 mm in diameter, was used. This is illustrated by graphs in Fig.5, where Al (microns, left-hand scale) and o (g, right-hand scale) are plotted against time t (hours), curve for a test piece under load which increased at a constant Sudden jumps on the $\Delta\ell(t)$ rate indicate that work-hardening, caused by diffusion-induced enrichment of the twin boundaries in vacancies and impurity atoms, cannot prevent the formation and growth of twins in a specimen of

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Work-Hardening of Bismuth Under Conditions of Programmed Loading

In the case of high quality single crystals of small cross-section area, a twin nucleus (e.g. an elastic twin) can rapidly change into a twin intersecting the cross-section of the specimen, as a result of which deformation of the specimen proceeds in jumps, since the resistance to deformation (by twinning) at the moment of the formation of a twin decreases several times. $\Delta l(t)$ and $\sigma(t)$ curves for such a specimen (a single crystal with the gauge length of 150 mm and rectangular cross-section 3 x 2.5 mm) are shown in Fig.6. In spite of very slow rate of loading employed, it was found impossible to obtain gradual deformation (i.e. smooth $\Delta l(t)$ curves) of the specimens, on the surface of which evidence of twins, intersecting the cross-section, was found after completion of the loading cycle. effects were observed in a rectangular specimen can be attributed to non-uniform distribution of stresses over its cross-section and to the high quality and homogeneity of its crystal structure. Finally, in order to elucidate the nature of the processes leading to work-hardening of specimens deformed at slow and fast rates of

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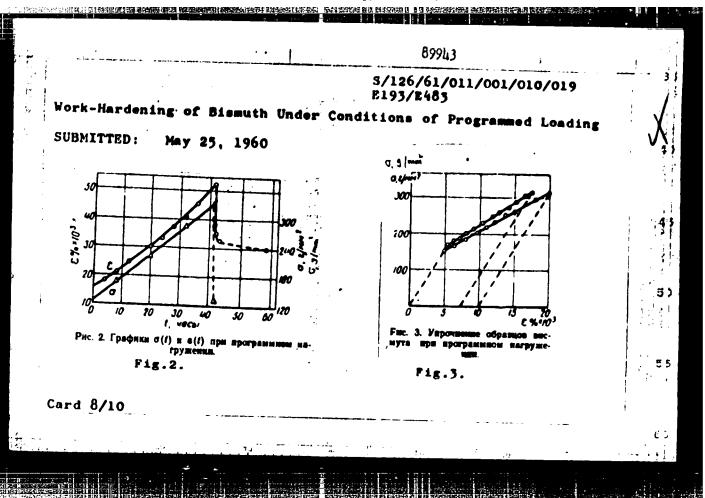
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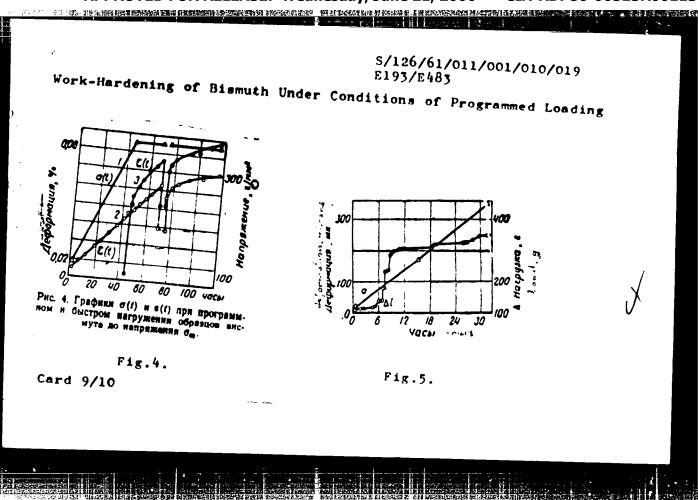
Work-Hardening of Bismuth Under Conditions of Programmed Loading

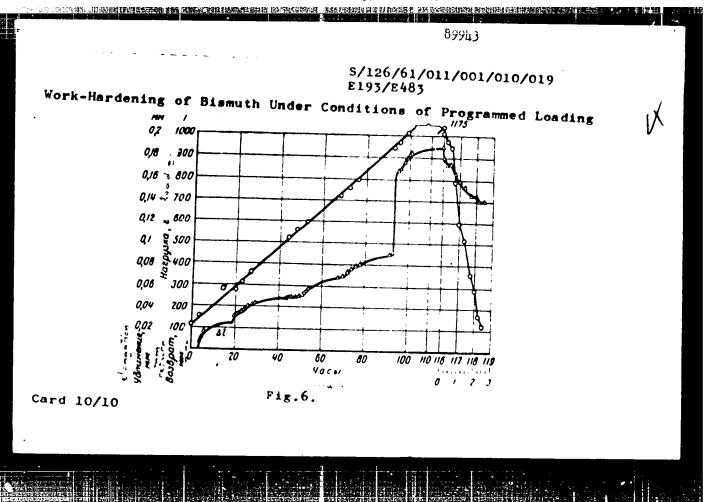
loading, X-ray diffraction patterns of test pieces, loaded to the same om (yield point) but at different rates of loading (8 and 1080 g/mm²/h), were obtained, The pattern obtained for the slowly loaded specimen hardly differed from that obtained for an undeformed material, whereas a very different pattern was obtained on the specimen deformed at a fast rate of loading. indicated that work-hardening under normal conditions of loading (within the elastic region) is associated with fragmentation of the crystal, whereas all other factors being equal, deformation under conditions of slow rates of loading does not affect the crystal structure or affects it only in the regions of lowest strength which constitute a minute fraction of the total volume of Acknowledgments are made to I.M.Fishman and S.T.Shavlo, who participated in this work. and 11 Soviet references. There are 9 figures

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (The Physicotechnical Institute AS UkrSSR)

Card 7/10







APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

GARBER, R.I.; GINDIN, I.A.; MOGIL'NIKOVA, T.T.; NEKLYUDOV, I.M.

Internal friction of iron hardened by programming. Fiz. met. i
motallowed. 18 no.31443-447 S '64. (MIRA 17:11)

1. Fiziko-teknnicheskiy institut AN UkrSSR.

s/032/62/028/001/014/01 B116/B108

Garber, R. I., Gindin, I. A., Neklyudov. I. M., Chechel'nitskiy, G. G., and Stolyarov, V. M. AUTHORS:

Device for programmed metal hardening

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 1, 1362, 107 - 104 TITLE:

TEXT: A device has been designed for programming the load on same. es It permits determining the effect of the charging rate on the materia.

Properties up to 800°C in a vacuum of 10 mm Hg or in inert gases. properties up to sould in a vacuum of 10 mm ng of in inert gases.

The charging rate can be increased from 10 g/mm per hr to 3 kg/mm ser of moreover, rates of up to 80 kg/mm per hr are possible. The maximum horeover, raves of up to occass mum per nr are possible. The maximum load is 350 kg. The sample elongation (up to 4 - 5 mm with an error of 0.5μ) is measured with an optical strain gauge. Reduction of the charging rate to values corresponding to diffusion hardening low. the total deformation and the rate of steady creep. The device Fig. operates as follows: Dynamometer spring (6) is compressed by the reducing gear (7). The charging rate is regulated by varying the reducing gear (1). The charging late to regulated by varying the periodic operation of the motor (8) (PK-09 (RD-09)-type) driving the periodic operation of the motor (8)

Card 1/3

S/032/62/028/001/014 317

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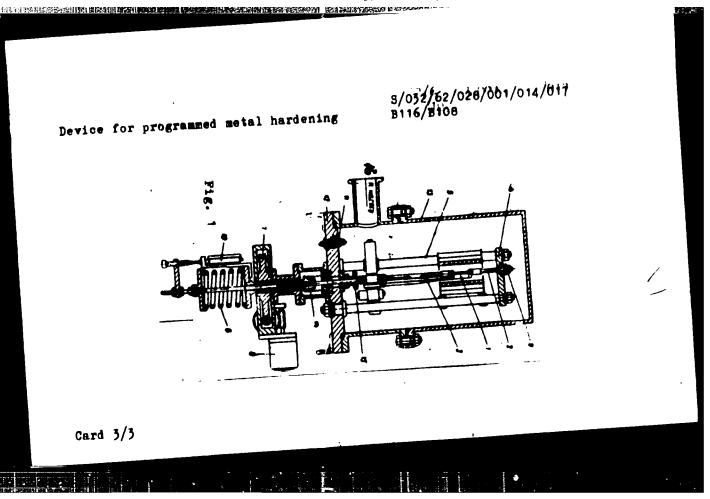
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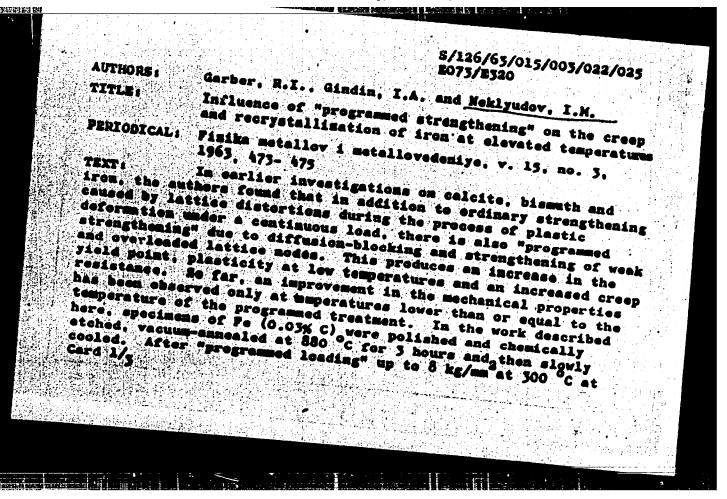
(7). The sample is heated by a tubular furnace with molybdenum coil. in the temperature is regulated by an MAL-12 (EPD-12) electronic potention.

ASSOCIATION Fiziko-tekhnicheskiy institut Akademii nauk SSR Profescionical institute of the Academy of Sciences Throst technical institute of the Academy of Sciences Throst Professional Institute of Throst Professional Institute of

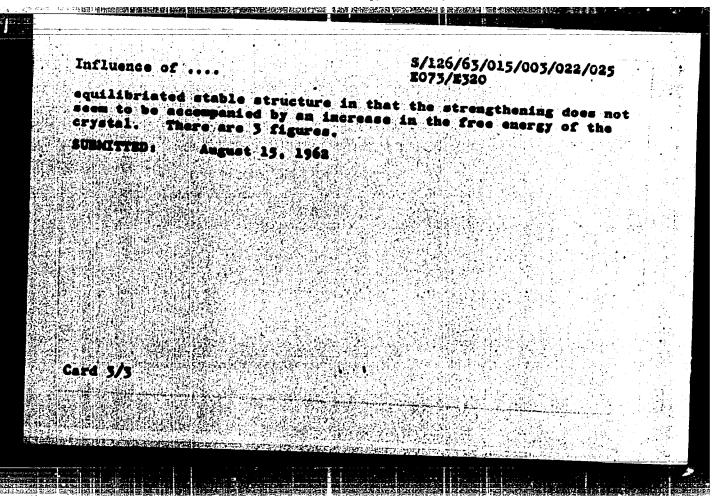
"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136





5/126/63/015/005/022/025 E073/E320 eres test at 600 C , the specimens were subjected to a 100-hour C with a lead of 7 kg/mm . The creep rate of previewely pregram-leaded specimens was significantly lower (about 5.6 x 10 K/h) both in the initial and in the steady-state stages) than that of specimens to which the final load had been applied quickly (1.3 x 10 %/h in the steady-state section). %/h in the steady-state section). This indicates that overheating does not eliminate the effect of increased resistance to creep of program-strengthened specimens. Microstructures are reproduced of both types of specimens after annealing at 830 °C for 3 hours; of specimens loaded at 400 °C with a load increasing to 16 kg/mm, whereby the rate of increase varied between 320 and 6 x 10 g/mm/h; of specimens loaded quickly. The residual deformations were 1.3 and 1.6%, respectively The microstructure of specimens which were subjected directly to the final load showed signs of selective recrystallization. whilst the microstructure of the program-loaded specimens was almost the same as prior to annealing. The authors consider the results as a further proof that program-loading leads to a more Card 2/3

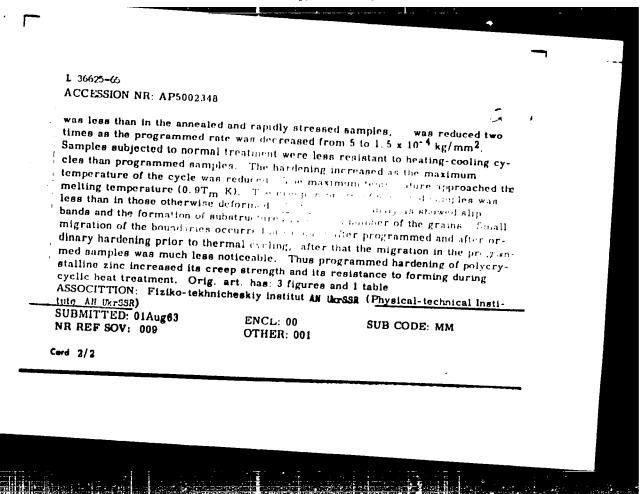


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A. I	podice consists of diffusive blocking and strengthening of week or parts of a specialny. Such parts may develop shearing, sliding sur	faces, twinci	
	rends, or dislocation sources. This method was called "the programming." The levice used in the programming procedure is described.		lows
i t	the stretching of a specimen at high temperatures and at very small neverses. The dominocal iron samples that underwent a programme	1 rates of Jo	ed
1	2000 were studied. The tensile test was conducted at the temperature. The creep test was also co	ure of liquid	1
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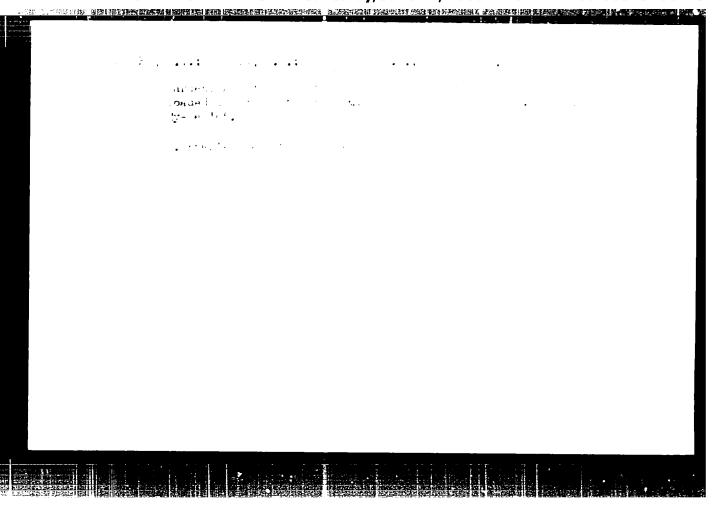
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Technology Academ of Sciences, Ukr89R) SUBMITTED: 267m62	c) collections of acres of 2000. (c) a districtive bardening of real-	It is concluded that the electron effects are due and overstreased regions in the samples. The stay to Y. N. Stolymov and G. G. Chechel'nitakiy for
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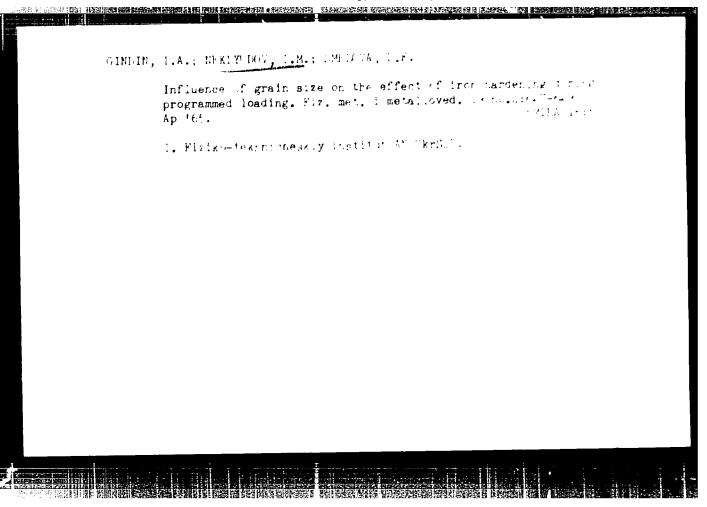
Eff(n)/EiP(w)/EiR(d)/T/ENP(t)/EiP(k)/EnP(b)/EnA(:) ID/in 3/0126/64/018/006/0904/0908 AUTHOR: Garber, R. I. Gindin, I. A., Zalivadnyy, S. Ya.; Mikhaylovskiy, V. M., Malik, A. K.; Inklyudov, I. M. TITLE: Effect of programmed hardening on creep of polycrystalline zinc and stability during cyclic heat treatment SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 6, 1964, 904-908 TOPIC TAGS: polycrystalline zinc, creep, programmed hardening, heat treatment, cyclic heat treatment ABSTRACT: The effect of programmed hardening (hardening by controlled appliment, cyclic heat treatment on the creep of polycrystalline zinc at room temperature and on its resistance to forming during cyclic heat treatment was studied. The linear deformation of annealed polycrystalline zinc and of samples subjected to loading (1-6x10-4 kg/mm²/min) and to loading beyond the yield point is controlled appliment. The elongation of the programmed samples (2.5 kg/mm²/min) was compared. The elongation of the programmed samples (Card 1/2)



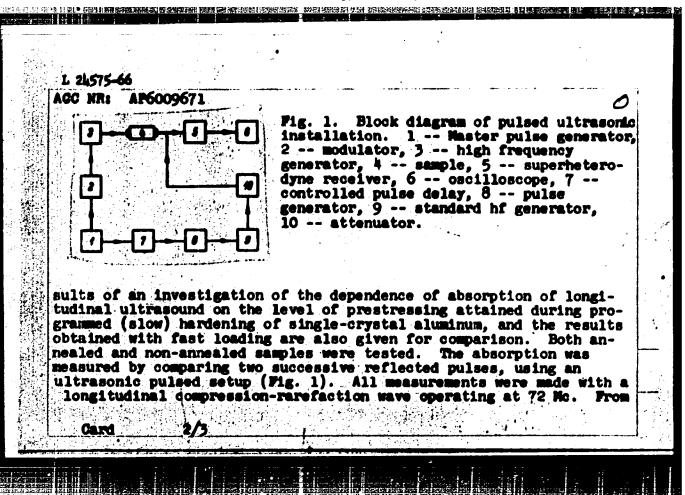
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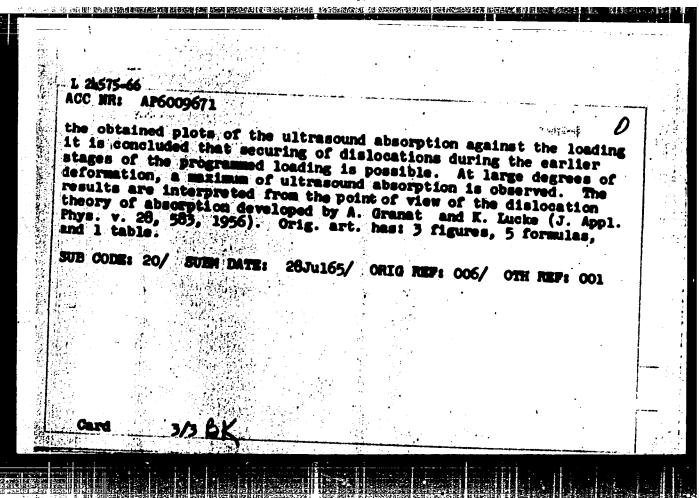
L 6628-65 EMT(m)/EMP(k)/EMP(q)/EMP(b) Pf-4 ASD(m)-3/ASD(f) ACCESSION NR: AP4032894 \$/0286/64/000/008/0027/0027 AUTHOR: Garber, R. I.-G.; Gindin, I. A.; Nekiyudov, I. M. TITLE: Method for the thermomechanical treatment of parts of metals and alloys SOURCE: Byufleten | Izobretenly | toverny*kh znakov, no. 8, 1964, 27 TOPIC TAGS: thermomechanical treatment, alloy mechanical property, high temperature strength, alloy thermomechanical treatment, plastic deformation, alloy plastic deformation, strain hardening ABSTRACT: A method for the thermomechanical treatment of articles made of metals or alloys, consisting of the preliminary plastic deformation of the article at the latter's working temperature, and distinguished by the fact that, for the purpose of improving the mechanical properties at increased temperatures, the plostic deformation is accomplished at the maximum permissible stresses at which the rate of strain maintains a constant value. Orig. art. has: no graphics. ASSOCIATION: none SUBMITTED: 28Apr62 ENCL: 00 Card 1/1 SUB CODE: NO REF SOVE 000 OTHER: 000



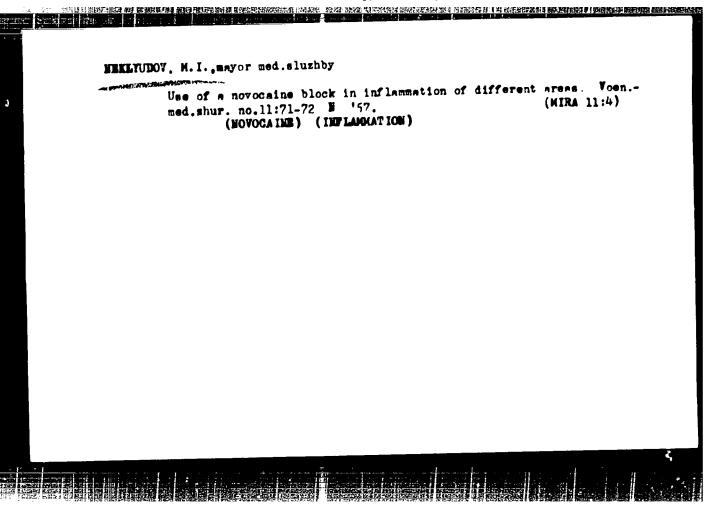


	L 24575-66 B/T(=)/T/EF(t) IJP(c) JD/JH ACC NR: AP6009671 SOURCE CODE: UR/0181/66/008/003/0842/0845
	AUTHORS: Besuglyy, P. A.; Gindin, I. A.; Neklyudov, I. M.;
	ORG: Physicotechnical Institute of Low Temperatures AN Ukrssn. Khar'kov (Fisiko-tekhnicheskiy institut niskikh temperatur AN Ukrssn)
	TITIE: Securing of dislocations on point defects during programmed loading of aluminum single crystals "
	SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 842-845
	TOPIC TAGS: hardening, crystal dislocation phenomenon, crystal defect, static load test, ultrasonic absorption, aluminum, single crystal
	ABSTRACT: This is a continuation of earlier work (FMM v. 18, 443, 1964 and earlier papers) dealing with various hardening mechanisms that can be activated by varying the rate of increasing an external stress on a crystal and the possibility of programming the hardening on the basis of such mechanisms. The present paper presents the re-
L	Card 1/3





ACC NR: AP6017310 (N)	SOURCE CODE: 5/0126/65/021/005/1974/1778
AUTHORS: Gindin, I. A.: New. yada	v. 1. M.: Finkel', Y. A.; Shutin, Yu. Y.
Ok3: Physico-technical Institute	, AN Ukrus. (Fiziko-tekhnicheskiy institute AN Ukrush)
TITLE: Effects of programmed . as SOURCE: Fizika metallov . metal	ding on the plasticity of beryllium monor rysting
	perty, metal organal, organic property prostraity
One set of specimens (9).00 pure was loaded (0, 5, 6, and 10 kg/mm pure, base plane and < 1010 > dir.	m monocrystals at room temperature were investigated. While uase plane oriented at 45° to the loading exis? and tested in compression. Another set (97.7% ection coincided with loading axis) was loaded (0, tension. It was found that the room temperature pressibility & were 9.6, 11.3, 11.3, and 9.8 kg/mm ²
and 10.7, 17.7, 24.7 and 11.2% reset of specimens and 14.5, 16.1, for the second set. Elongation w	apactively for the preloading conditions of the first and 12.4 kg/mm ² and 29, 36, and 39.7% respectively as 54, 53, and 64% respectively for the second set. onocrystals are also presented. Orig. art. has: 5
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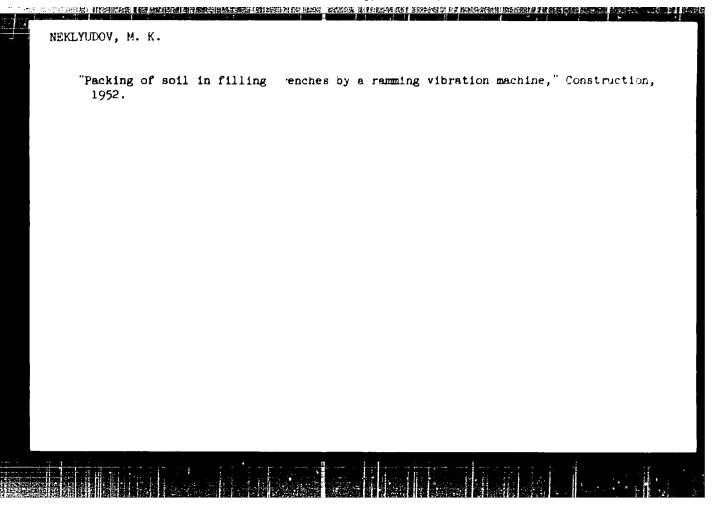


NEKLYUDOV, E. K., Engineer

"Organization of Construction Work in Laying Gas Pipelines in City Conditions." Sub11 Jun 51, All-Union Correspondence Polytechnic Inst, Miristry of Higher Education US.A

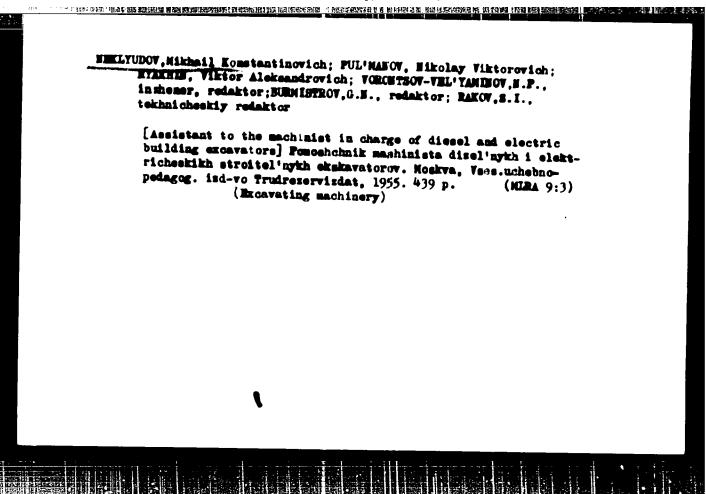
Dissertations presented for science and engineering degrees in Moscow during 151.

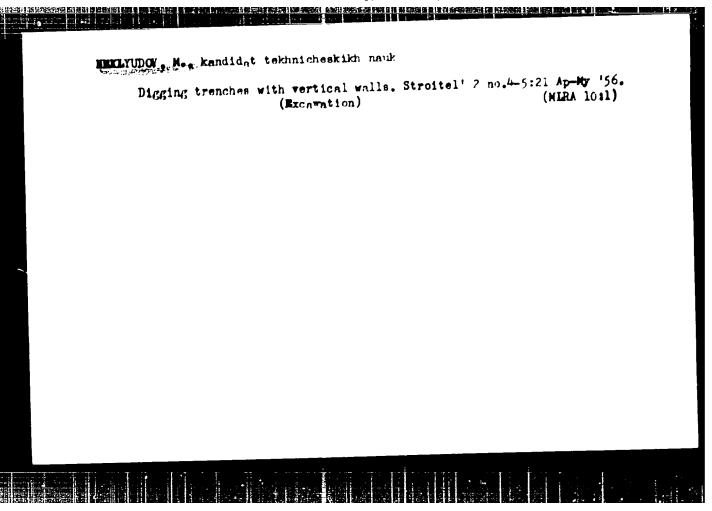
SO: Sum. No. 480, 9 May 55

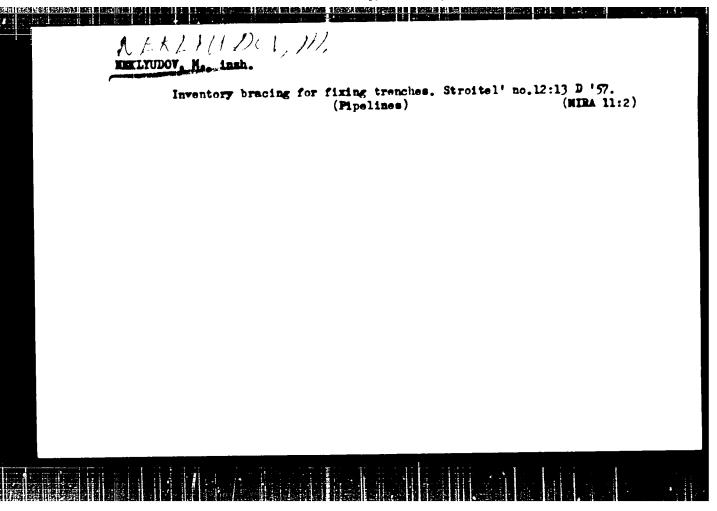


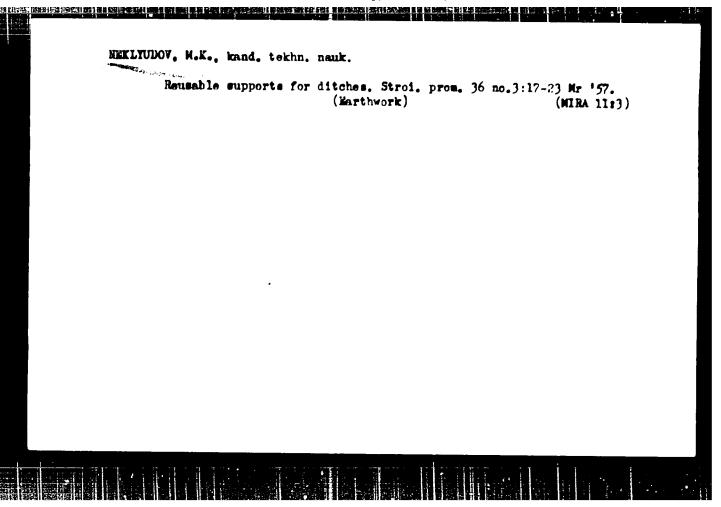
- 1. NEKLYUDOV, M. K.
- 2. USSR (600)
- 4. Ditches
- 7. Trench bracings for use on building sites. Stroi. prom.; 30; No. 10; 1952

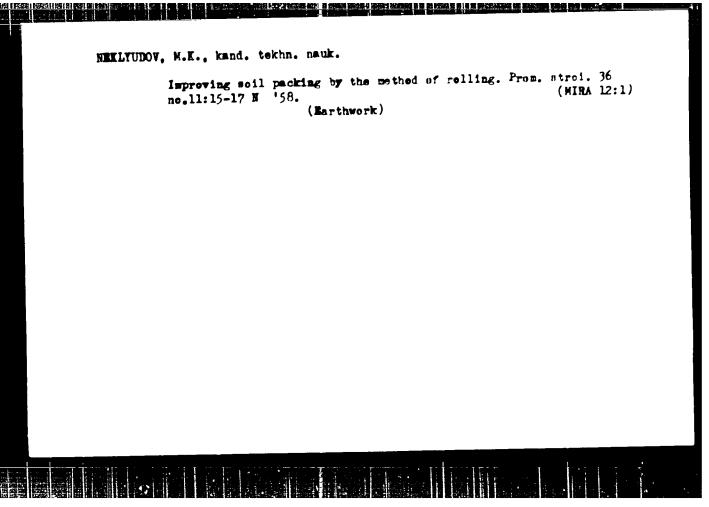
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.











WEKLTUDOY, M.K., kand.tekhn.nauk, stershiy nauchnyy sotrudnik; MUNITS,

A.P., red.izd-va; TEMCHA, Ye.L., tekhn.red.

[Instructions for controlling the compection of soils in
constructing residential and public buildings] Ukasaniis po
konstoliu as uploteeniem grantov v promysalennom i greshdanskom stroitel'stve. Moskva, 1959. 20 p. (MIRA 1316)

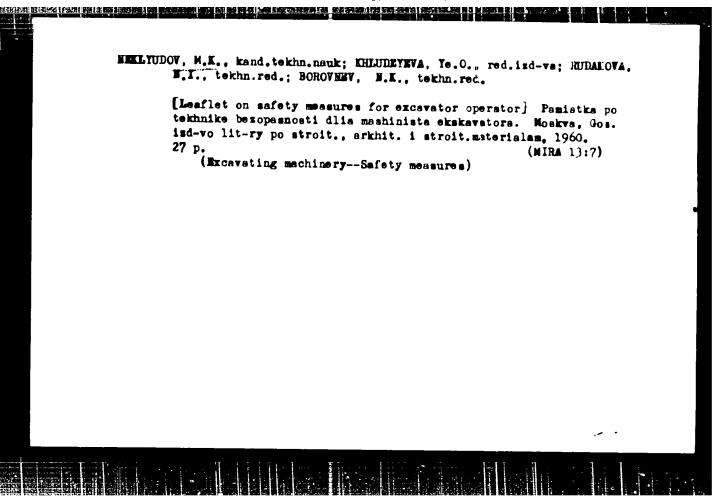
1. Akademiya stroitel'stva i erkhitektury SSSR. Institut organisetsii, mekhanisatsii i tekhnicheskoy pomoshchi stroitel'stva.
2. Leboratoriya semlyanykh rebot Hauchno-iseledovatel'skogo
instituta organisatsii, mekhanisatsii i tekhnicheskoy pomoshchi
stroitel'stva (BILOMIP) (for Neklyndov).

(Soil stabilisation)

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Weing hydraulic and vibration methods in sta mining soil in trenches. Pros. stroi. 37 no.11:44-46 H '59. (MIRA 13:2)

1. Mauchno-issledovatel'skiy institut organizateii, mekhanizateii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR.

(Soil stabilization) (Vibrators)
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PHASE I BOOK EXPLOITATION

sov/4910

Neklyudov, M. K., Candidate of Technical Sciences

Mekhanizirovannoye uplotneniye gruntov (Mechanized Ground Packing)
Moscow, Gosstroyizdat, 1960. 142 p. Errata slip inserted. 2,70,
copies printed.

Sponsoring Agency: Akademiya stroitel'stva i arkhitektury SSSR. Nauchnoissledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (NIIOMTP).

Ed. of Publishing House: P. Ye. Vlasov; Tech. Ed.: Ye. L. Temkina.

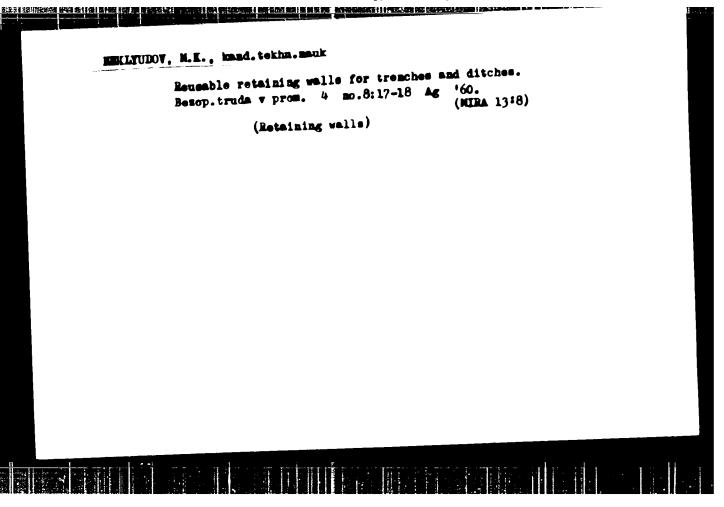
PURPOSE: This book is intended for engineering and technical personnel engaged in earthwork. It may also be used as a manual for designers of ground-packing equipment.

COVERAGE: The author discusses the development of mechanized groundpacking operations in industrial construction and road building. Soviet and non-Soviet ground-packing methods and equipment are described. Trends in solving problems in mechanized ground packing

Card 1/6

445×30

Mechanized Ground Packing SOV/4910 are reviewed, and suggestions for the solution of these problems are given. The book contains many diagrams, drawings, photographs, and tables. No personalities are mentioned. There are 69 references, all Soviet (including one translation from English). TABLE OF CONTENTS: Foreword 3 I. Present State of Mechanized Ground Packing 1. General part 2. Physicomechanical properties of grounds; effect on packing 3. A ground density prescribed when planning earthwork 8 1. Method for determining a ground density by comparing 11 it with the ground density in a natural bedding ut a 2. Method for determining a ground density from the 12 filtration coefficient 12 Card-e/6

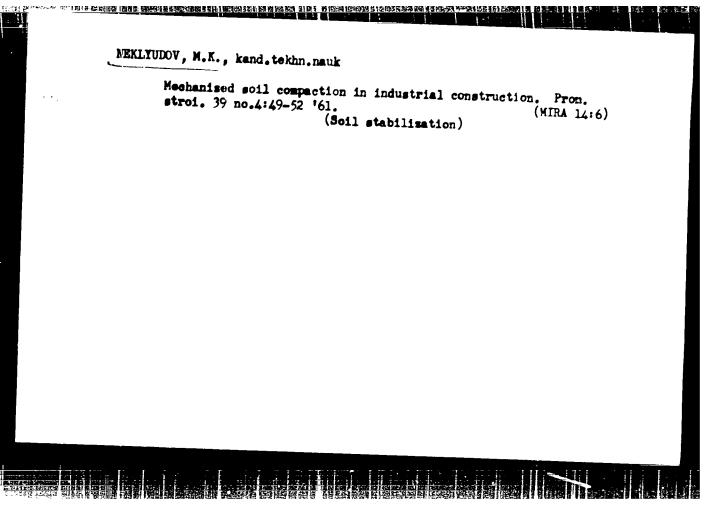


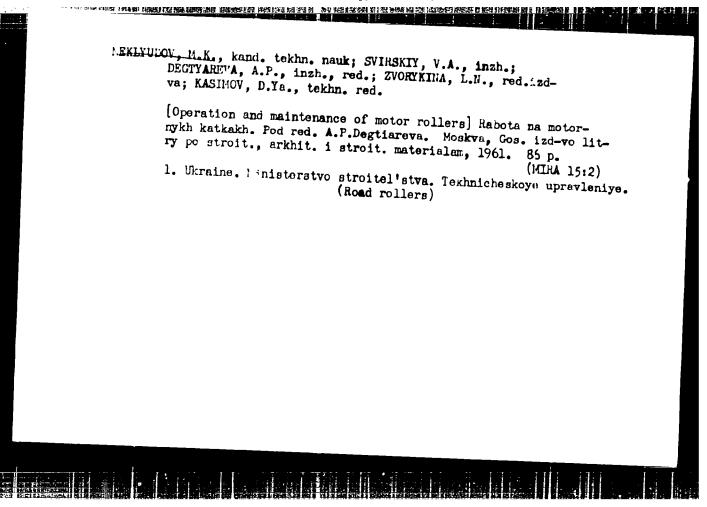
NEKLYUDOV, M.K., starshiy nauchnyy sotr., kand. tekhn. nauk; STRASHNYKH, V.P., red. isd-va; SHERSINEVA, N.V., tekhn. red.

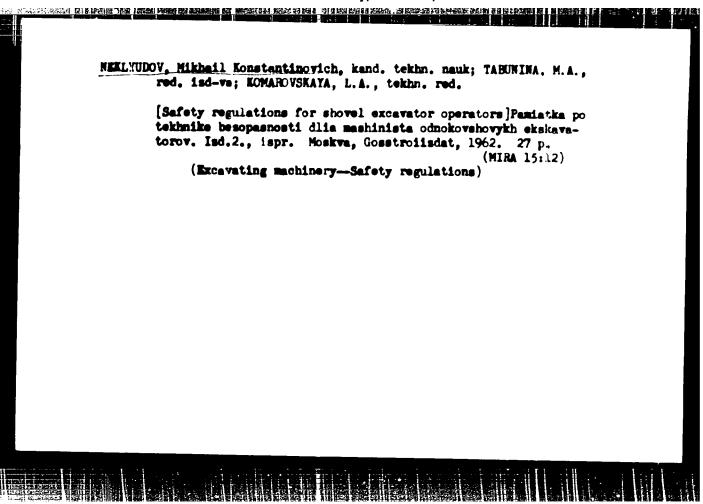
[Temporary instructions on soil compaction in the construction of industrial plants and public buildings] Vremenuye ukasaniia po uplotneniiu gruntov v promyshlennom i grashdanskom stroitel'stve; VU 2-61. Moskva, Gos. ind-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 46 p. (MIRA 14:10)

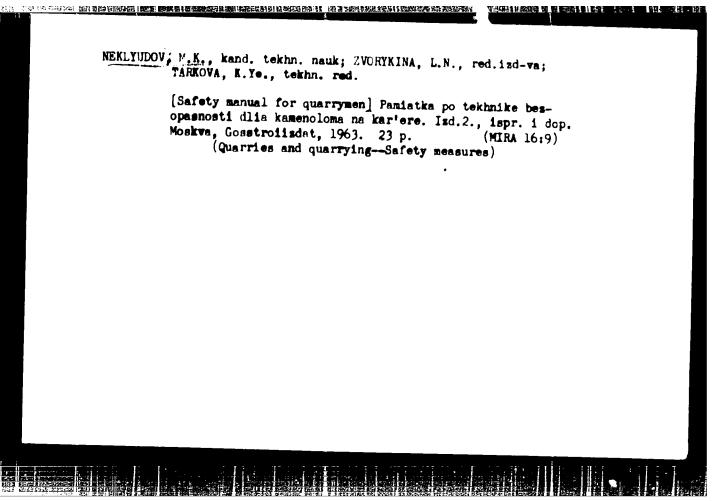
l. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Iaboratoriya mekhanizatsii semlyanykh rabot nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Neklyudov).

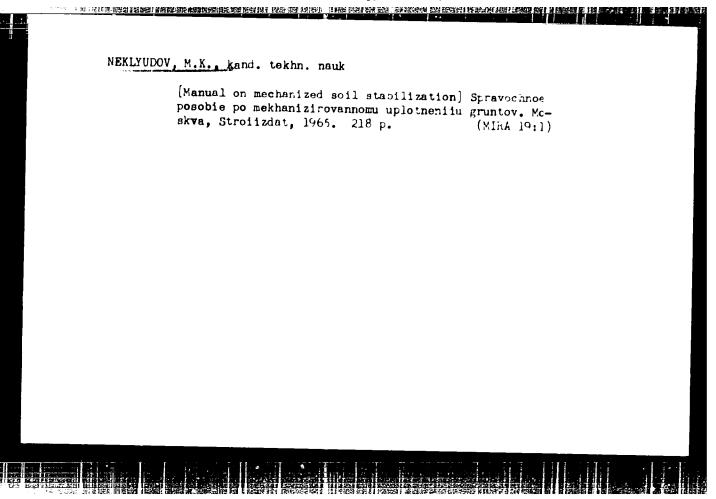
(Soil stabilization)



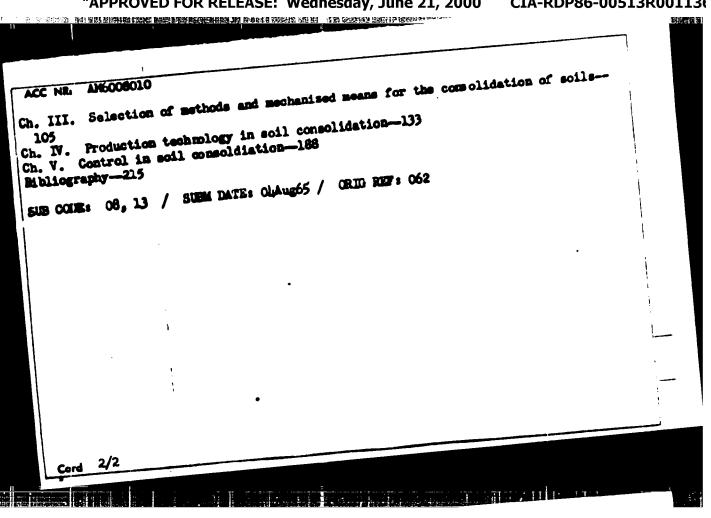








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nomu uplotneniyu grunt heat of title: Nauchn tekhnicheskoy pemoshch	solidation of soils (Spravochnoye po ov) Moscow, Stroyizdat, 65. 0218 p no-issledovatel'skiy institut organi i stroitel'stvu (NIIOMTPS)). 10,0	zatsii, mekharizatsii i 00 copies printed.
TOPIC TAGS: soil mechan	nics, civil engineering	olidation :
presents standard special earth structure. Attending soil consolidation,	The book discusses physicomechanical fications for their consolidation in tion is given to production technologies and to trends in their improvement. means for the consolidation of soils tended for engineers and technical parts of the consolidation of soils tended for engineers and technical parts of the consolidation of soils tended for engineers and technical parts of the consolidation of the consolidation of soils tended for engineers and technical parts of the consolidation of	ogy and methods of control The book acquaints the
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Foreword—3 Ch. I. Soils—5 Ch. II. Mechanised mea	me for soil consolidation-36	
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NEXTYUDOV, M. Yu., BOKHOSIAN, Kh.A.

Case of hemorrhagic fever in Stara Zagora, Suvrem. med., Sofia 5

BO. 2:113-116 1954.

1. Is Okrushnata bolmitea, Stara Zagora (gl. lekar: P.Fuchidshiev).

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Dulgaria)

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2.	1334 (660)		
4.	Эупатон		
7.	Automatic starter of an electric oil pump, Eng. Neklyudov, N.Vab.energ. 3 no. 4, 1953.		
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