

PMTROV, Ye. M., Engineer

"From Large-Block to Large-Panel Construction." Sub 15 May 51, Academy of Communal Economy imeni K. D. Pamfilov

Dissertations presented for science and engineerin, degrees in Moscow durin, 1451. So: Sum. No. 480, 9 May 55

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ASKINAZI, Z.M., inzh.; FETROV, Ye.M., inzh.

History of the "Salonin" hydrogenation plant. Masl.-zhir. prom. 23 no.8:25-27 *57. (MIRA 10:12)

1. Leningradskiy zavod "Salolin.". (Olls and fats) (Hydrogenation)
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PETROV, YE.M.

Service Tree

Crimeen lerge-fruit service tree. Priroda 41 no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

Characteristics of the Tomi river bed structure. Biul.Kom.chetv.
per. no.19 38-49 '53. (MIRA 7:11)

(Tomi Valley--Geology) (Geology--Tomi Valley)

15-57-4-5141.D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,

p 151 (USSR)

AUTHOR: Petrov, Ye. N.

TITLE: Structure of the Meso-Cenozoic Cover and Gas-

Petroleum Potential of the Southwestern Western Siberian Lowlands (Stroyeniye mezokaynozoyskogo pokrova yugo-zapadnoy chasti Zapadno-Sibirskoy

nizmennosti v svyazi s voprosami neftegazonosnosti)

Bibliographic entry on the author's dissertation for the degree of Candidate of Geological and Mineral-ABSTRACT:

ogical Sciences, presented to Tomskiy un-t (University of Tomsk), Tomsk, 1956

ASSOCIATION:

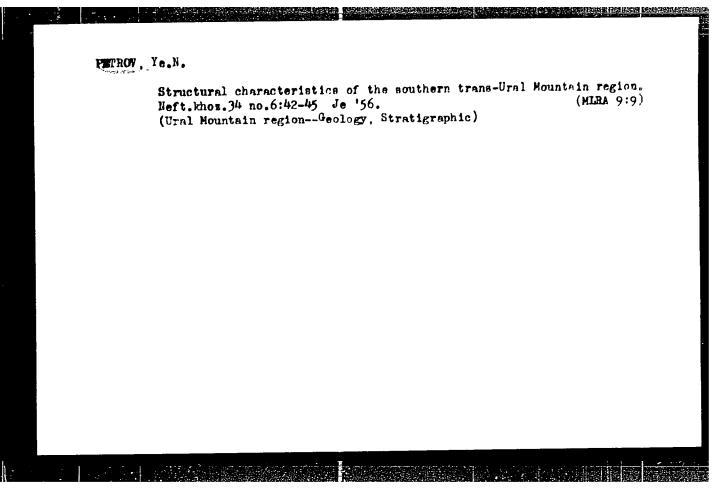
Tomskiy un-t (University of Tomsk)

Card 1/1

PETROV, Ye.N.

Meso-Cenozoic structure of the southwestern part of West Siberian Lowland, Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.15:93-108 '56.

(Siberia, Western-Geology, Stratigraphic-Genozoic)



AUTHOR: Zyat'kova, L.K., and Fetrov, Ye.M.

TITLE: A Geologic-Geomorphological Method of Structural Prospecting (As Carried in the Vakh River Basin)

FERICDICAL: Izvestiya Akademii mauk SSOR, Seriya geograficher-kaya, 1050, Mr 4, pr 73-78 (UCCR)

iBOTRACT: The article is concerned with the aerial notice of mapping anticlinal elevations in the tasin of valid river, right tributary of the Chiriver. The aerial method, in combination with geophysical lactions, can give valuable data on cil and occurrence in the bogged and wood-acvered the West Siberian Thair where

the West Siberian Flain, where geological stall are extremely hard to conduct. The mag electrons (Figure 1 and 2) show anticlinal elevations in the basin of the Vekh river, the contours of which make acceptained by both serial maging and incilling and

Card 1/2 geomeryhological investigations. The article is

A Geologic-Geomorphological Methol of Structural Prospecting

(As Carried in the Vakh River Basin)

mentions the Lar yakskiy letnoy lond (Lar tak Count Reserves) and the following authors of treatizes on geology: 3.7. Lungers jauzen, M.Ya. Rudkevich, and L.A. Ragozin. There are 2 map shetches, 2 photographs, and 3 Soviet references.

ASSOCIATION: Sibirshiy nauchno-issledovatel skiy institut geologic geoficiki i mineral nogo syr ya (Siberian Scienticia Research Institute of Geology, Geophysics, and Taw Card 2/2

3(2) AUTHORS:

HORS: Petrov, Ye. N., Malikev, B. N.

SSY/6-59-6-13/22

TITLE:

The Problem of Enriching the Content of the Topegraphic Map on a Scale of 1: 100,000 (K vopress ab objectional acderzhaniya topograficheskoy karty massitata 1: 100,000)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 6, pr 44-49 (MSSR)

ABSTRACT:

The present topographic map on a scale of 1. 100,000 offers a very high accuracy of the field compilation survey but, on the other hand, it does not show all the details of terrain interesting for the geologist although these totals appear in the aerial photographs. The authors carried out geologis-geothe use of aerial surveys on a scale of the Vakh Basin with out some concrete shortcomings of the maps, and the methods of eliminating them. To clarify the history of motions in the search a number of mineral resources, the analysis of the morphology of river valleys is of great importance. There are, when the crosion of the river is insufficient to surmount the rising fold, and the mixer changes it.

Card 1/3

rising fold, and the river changes its course to avoid the newly

The Problem of Enriching the Content of the Topographic Map on a Scale of 1 : 100,000

507/6-59-6-13/22

shaped elevation, learing a distinctly formet walley in the old place (Fig (). Such same can be your by atermoscopic observation of the mentioned again; photographs. The toprepath map, however, does not contein these leveling (Fig 2). Pigure 3 shows a war and suggested by the authors for the said area. Portions of the earth's surface, which dr r considerably, are reproduced im form of "borded" wiver value in many taxes. The initial stage of their world of many taxes to back. In such Mase the sinking salings are a present covered by lakes or moors, and the boundaries of help marginal sections of valleys are distinctly marked to a story a world viewing of aerial phonographs (Fig. a). Besides, out our see the outlines of the borded riser had and of the arr wonte. On the topographic map on a scale of 1: 100,000, the whole valley section is represented as a pathless marshland. The elements of the former hydrographic system, clearly visitle in the aerial photographs, are not shown in the topigraphic map (Fig 5. In figure 6, the authors show a convenient representation of this area. As a rule, the topographic map 1 / 100,000 (reamp)ets y mapresents the elements of the marsh country relief which permit the evolution

Card 2/3

The Problem of Enriching the Content of the Topographic Map on a Scale of 1: 100,000

507/6-59-6-13/22

of the river bed to be traced. The topographic map must indicate the kinks of the longitudinal profile of the river, as well as the characteristic relief elements by which the direction of the present tectoric motion can be determined. The topographic map does not show the old lake basins and the small affluents which can be well seen stereoscopically from the relief as well as from the contrast in vegetation. In the area of the West-Siberian Depression, the river terraces are important object of geologic-geomorphological investigations. They are not shown on the topographic map at them. There are

Card 3/3

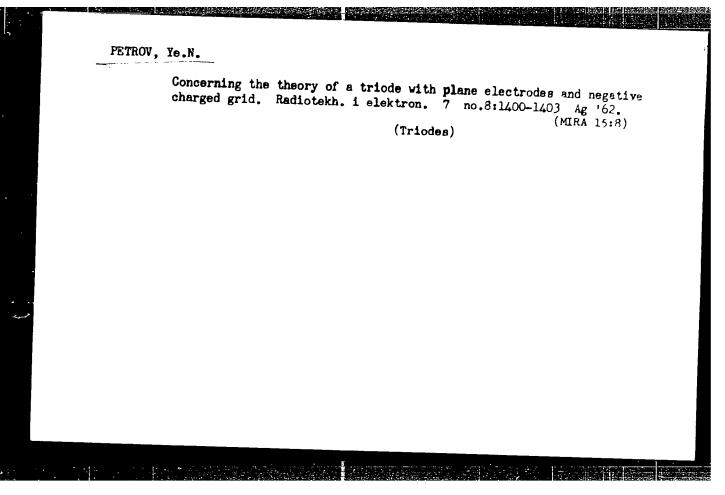
Phosphato-bearing Lower Silurian rocks in the Lower Basin. Sov. geol. 7 no.8:133-136 Ag '64.	
l. Sibirskiy nauchno-issledovateliskiy institut geol. geofiziki i mineralinogo syriya.	(MIRA 17:10, og11,

PETROV, Ye.N.

On the road of a technological reorganization of the production. Tekst.prom. 22 no.9:5-8 S '62. (MIRA 15:9)

1. Zamestitel' glavnogo inzhenera Pervoy moskovskoy sittsenabivnoy fabriki.

(Textile industry)



PETROV, Ye.N.; ZYAT'KOVA, L.E.

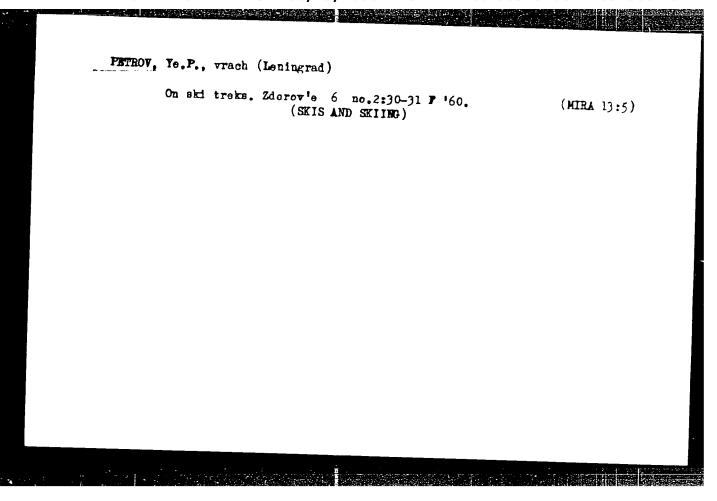
Methods and results of geological and geomorphological investigations corried out in order to study structures in the cantral areas of the Next Siberian Plain. Trady SHICCHES 19:87-96 '60. (Mi. A 14:7)

(West Siberian Plain—Geology, Structural)

Concerning the theory of a plane-electrode triode with zero space charge in the plate-grid gap. Radiotekh.i elektron, 6 no.7:1170-1172 '61. (MIRA 14:6)

Analyzing longitudinal river profiles to find structures in the West Siberian Lowland. Izv.AN SSSR.Ser.geog. no.3:89-90 My-Je '61.

(West Siberian Lowland—Rivers)



PETROV, Ye. (Riga)

"Rigas Ekspresis" to the rescue... Zhil.-kom, Ahoz. li no.12:
25-26 D '611

(MIAA lc:11)

1.58354-65 ACCESSION NR: AP5016384 UR/0120/65/000/003/0114/0117

AUTHOR: Petrov Ye R.

TITLE: Solid-state d-c amplifier

SOURCE: Pribory 1 tekhnika eksperimenta, no. 3, 1965, 114-117

TOPIC TAGS: dc amplifier, dc to dc converter, semiconductor amplifier

AESTRACT: A solid-state d-c amplifier design is presented which is considered to be relatively free of the detrimental effects associated with the utilization of semiconductor components. The circuit configuration and heavy d-c negative feedback help schieve 1% linearity and relative immunity from large transistor parameter spread, high temperatures, and line voltage variations. Two types, similar in construction but differing in performance, are described. The amplifiers are of a modular construction and consist functionally of a modulator, an a-c amplifier, and a demodulator. The modulator is a chopper in which the input d-c voltage is chopped at the line-frequency rate. The chopper signal is amplified and demodulated by two half-wave rectifiers wired in parallel. The input voltage range for the two types is 0-50 and 0-1000 my; output-current range is 0-5 mamp; response time is 0.3 and 0,2 sec; tolerable load variation is 0-5 kohm. Orig. art. has: 1 figure. [BD] Cord 1/12

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L 58354-65 ACCESSION NR: AP5016384		
ASSOCIATION: none	ENCL: 00	SUB CODE: .EC, 55
SUBMITTED: 09May64	OTHER: ⊬ 000	
NO REF SOV: OD4		

Resction of design on the water salida and alumina during heating Izv.vost.fil.AN SSSE half = 113 '57 (MCRA 10 9)
1. Zapadno-Sibirskiy fi .a Anthonic is is a second to the (Alumina)

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FEDOROV, N.Ya.; SKLYARENKO, S.I. [deceased]; PETROV, Ye.S.

Melting diagram of the system ScCl - NaCl. Izv. 30 AS SSCR val..

Ser.khim.nauk no.3:120-122 '63. (Mich. IT:?)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.
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PETROV, Ye. S.: Master Chem Sci (diss) -- 'On the interaction of isin harts with silica and alumina upon heating". Novosibirsk, 195%. 72 pp (Anal Sci 195%, Inst of the Chem of Silicates), illo copies (K., No ill, 1959, 125)

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PHASE I BOOK EXPLOITATION SCV/5747

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Specificating Agency: Akademiya nauk SSSR. Sibirekoye otdeleniye. Loruniko-metallurgichenkiy institut.

Real. Bi: T. V. Zabolotskiy, Candidate of Technical Sciences; Subers of Editorial Board: A. S. Mikulinskiy, Professor, Doctor of Technical Sciences, A. T. Logvinenko, Candidate of Technical Sciences, F. P. Barkova, Candidate of Chemical Sciences; Ed.: V. M. Bushuyeva; Tech. Ed.: A. F. Mazurova.

Curs 1/5

Rary Alwali Elements; Collection (C	Sont.) 307/5747	
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OCMINATE: its collection contains provided and analytical are not:	y of rare alkali elements and	
Fir the goards and their reaction. But the definition and medern	ons with mineral ores and salts. analytical techniques and	
equipment are also discussed. References assempany individual	No personalities are mentioned.	
CAR S OF CONTENTS:		
Unarov. C. J. [December], V. V. Ply Schildno [Meskevekiy institut tenk (N.V.) Lomonosova - Mescew Institut ideni M. V. Lomonosov]. High-Tempe	oy khimicheskoy tekhnologii im. e of Fine Chemical Technology	
Plyushenev, V. Ye. [Moscow Institu	te of Fine Chemical Technology	
Card 2/5		

	Firs Alkali Dlements; Collection (Cont.) SCV/5747		
1	of the Interaction of Spondamene With Salfates of Alkali Notals	15	
! :	Contay, F. I. and T. F. Federov [Institut metallurgii im. 1997 AN JOOR - Institute of Note That without Anyhov AS UNGR]. 1999 Edynamics of the Vacuum-Thermal Assemble Obtaining Marium	25	
ı	Elimiyev, V. H. [Conuderstvennyy institut redkikh i rely tal State Institute of Rare and Minor Motals] The Interesting of	.16v-	:
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:	lingy, To. S. [Sibirskoye otdeleniye AN SSSR - Siberian Divi- ion of the AS USER]. Some Relationships in the Interaction of Salts of Alkali Metals With Silica and Alumina and Proper-		
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:	Logvinenko, A. T. and G. D. Uryvayeva [Kiimiko-metallurgi-cheskiy institut Sibirskogo otdeleniya AN SSSR - Institute of Chemical Metallurgy of the Siberian Department of the Academy		:
	Card 3/5		:
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PETROY, Ye.S.; FADEYEV, V.N.

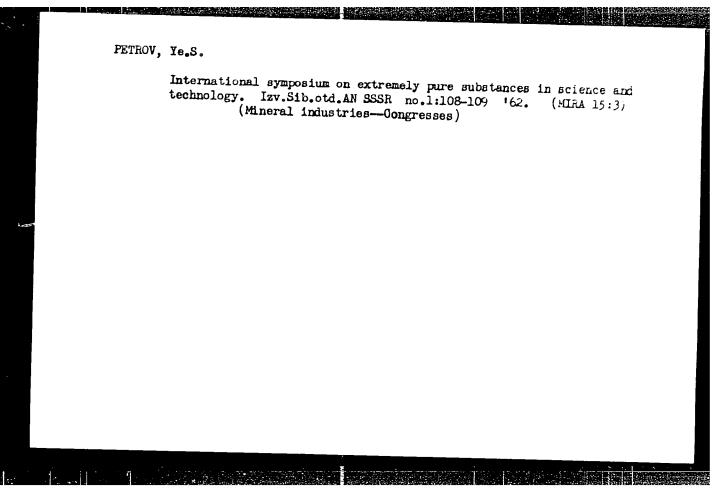
Thermodynamic foundations of high-temperature chlorination of polymetallic tin-bearing materials. Izv. Sib. otd. AN SSSR no.9:59-68 '61. (MIRA 14:10)

1. Chimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Metallurgy) (Chlorination)

Fusibility diagram of the system In -Cl. Izv.Sib.otd.AN SSSR no.1:94-97 '62. (MIRA 15:3)

1. Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Indium chlorides) (Melting)



PETROV, Ye.S., teknnolog

Introduce the ansembly-unit mothed of repair of track macolinery.
Put' i put. khoz. 8 no.9:13-14 '64. (Miss Interv.)

1. Fr yekthe-konstruktorskoye byuro Tavnogo upravleniya put i zerrozheriy Thisterstva putey scobancheniya.

KURZON, Ananiy Grigor'yevich, doktor tekhn.nauk, prof.; LITAVRIN, Oleg Grigor'yevich, inzh.; PETLOV, Yevgeniy Valerianovich, inzh.; POTYAYEV, Vyachezlav Andreyevich, kund. tekhn.nauk; KHOGOZYANTS, Aleksandr Georgiyevich, kand. tekhn.nauk; CHERTKOV, Aleksandr L'vovich, Laureat Leninskoy premii; YUTKEVICH, hostislav Mikhaylovich, inzh.; MOISEYEV, A.A., doktor tekhn.nauk, prof., retsenzent; MASLOV, A.A., kand. tekhn.nauk, dots., retsenzent; ZAYTSEV, Yu.I., kand. tekhn.nauk, retsenzent; KOZHEVNIKOV, A.V., kand. tekhn.nauk, retsenzent; GITEL'MAN, A.I., inzh., retsenzent; SMICNOV, Yu.I., red.; TSAL, h.K., tekhn. red.

[Marine steam and gas turbines] Sudovye parovye i gozovye turbiny. Pod red. A.G.Kurzone. Leningrad, Sudpromgiz. Vol.2. [Systems and working principle of turbomachinery units] Sistemy i ustroistva turboagregatov. 1962. 419 p. (MIRA 15:11)

(Marine turbines)

PETROV YE.V.

PHASE I BOOK EXPLOITATION

SOV/6240

- Kurzon, Ananiy Grigor'yevich, Oleg Grigor'yevich Litavrin, Yevgeniy Valerianovich <u>Petrov</u>, Vyacheslav Andreyevich Potyayev, Aleksandr Georgiyevich Khorozyants, Aleksandr L'vovich Chertkov, and Rostislav Mikhaylovich Yutkevich
- Sudovyye parovyye i gazovyye turbiny. tom. 2: Sistemy i ustroystva turboagregatov (Marine Steam and Gas Turbines. v. 2: Systems and Devices of Turbine Units). Leningrad, Sudpromgiz, 1962. 419 p. Errata slip inserted. 5000 copies printed.
- Ed. (Title page): A. G. Kurzon, Doctor of Technical Sciences, Professor; Reviewers: A. A. Moiseyev, Doctor of Technical Sciences, Professor, Yu. I. Zaytsev, Candidate of Technical Sciences, Docent, A. I. Gitel'man, Engineer, L. A. Maslov, Candidate of Technical Sciences, Docent, A. V. Kozhevnikov, Candidate of Technical Sciences; Ed.: Yu. I. Smirnov; Tech. Ed.: R. K. Tsal.

Card 1/4

Marine Steam and Gas Turbines (Cont.)

SOV/6240

PURPOSE: This book is intended for steam and gas-turbine designers, service personnel, technical, engineering, and scientific personnel, and for teachers and students in transportation and shipbuilding institutes.

COVERAGE: In this volume steam turbomachine systems and units and gas-turbine engines and installations are analyzed. No references are given.

TABLE OF CONTENTS [Abridged]:

PART I. SYSTEMS AND UNITS OF STEAM TURBOMACHINES

I. Systems for Regulation and Control

5

II. The Lubrication System

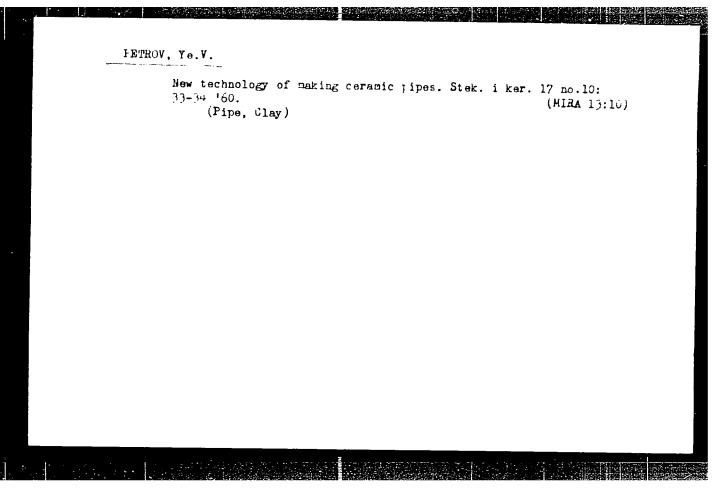
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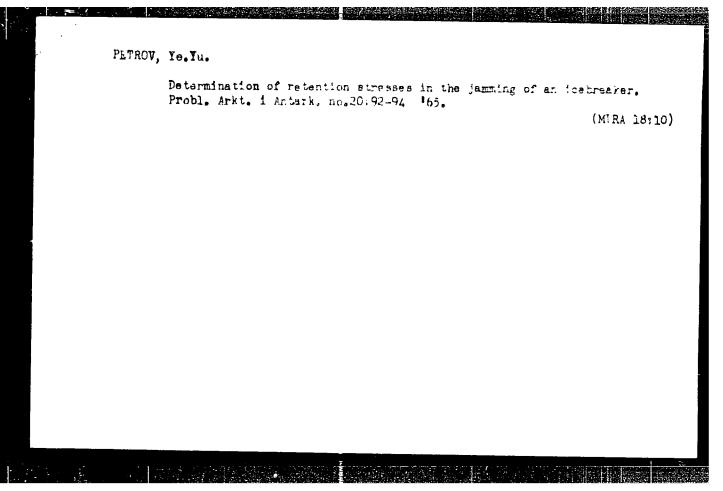
61

III. Systems of External Sealing, Preheating, Scavenging, Steam Removal From Valve-Rod Seals, and Cooling (Circulation) in Turbines

113

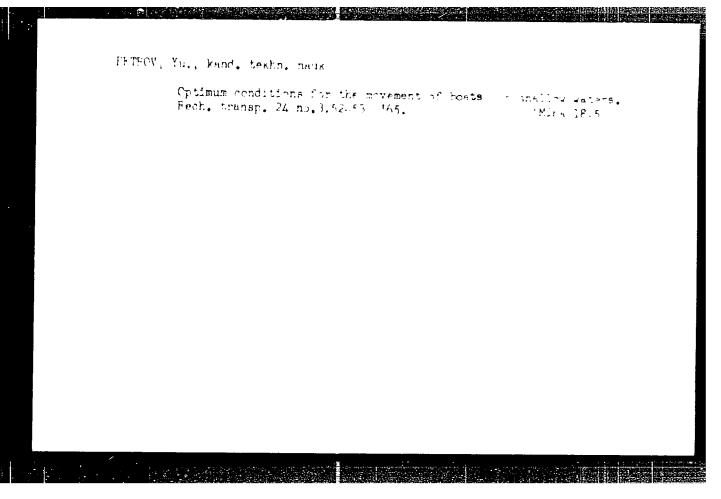
Card 2左





REYNOV, Mikhail Naumovich; McEGMAN, Vladimir Il'ich; MOSKALENKO, Vladimir Mikhaylovich; NAKHIMOVICH, Eduard Mikhaylovich; PETROV, Yevgeniy Yuvenal'yevich; MOSHENSKIY, Naum L'vovich; AKSENOV, Yevgeniy Mikhaylovich; ROMANOV, B.N., inzh., retsenzent; SHAKHNOVA, V.M., red.; FRUMKIN, F.S., tekhn.red.

[Shipbuilding calculations on electronic computers] Sudostroitel'nye raschety na elektronnykh vychislitel'nykh mashinakh. [By] M.N.keinov i dr. Leningrad, "Sudostroenie," 1964. 169 p. (MLA 17:3)

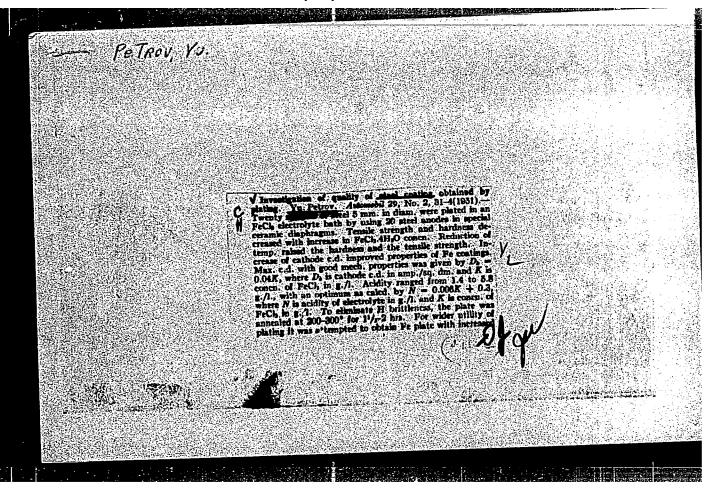


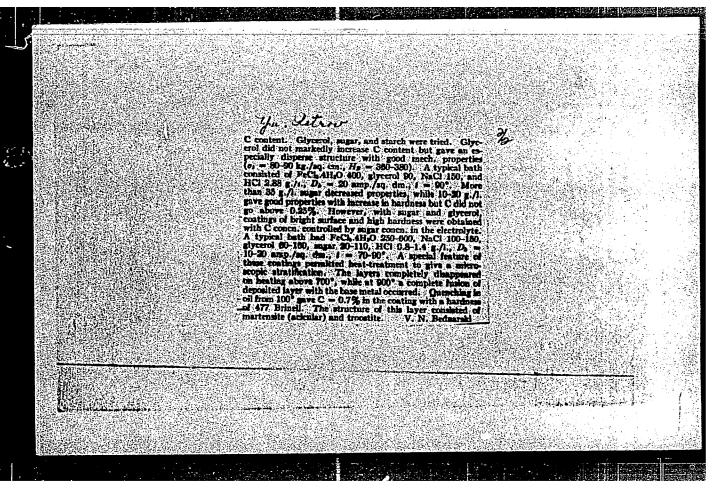
SAVVIN, L., inzh. (Moldaviya); YEKHLAKOV, A., inzh. (Sverdlovsk);
TRUSOV, I., inzh. (Frunze); IVANOV, N.; PLAKSEYEV, G. (Kherson);
KNOROZ, M. (L'vov); GROWENKO, P., rabochiy (Novosibirsk);
TARASOV, O. (Novoressiysk); D'YAKOV, P., inzh. (Kamensk-Shakhtinskiy); BUTUSOV, V., dotsent (Moskva); SUNDAKOV, M., inzh., student; PORTNOV, Ya., kand. tekhn. nauk (Makhachkala);
PETROV, Yu., inzhener-stroitel! (Ivanovo)

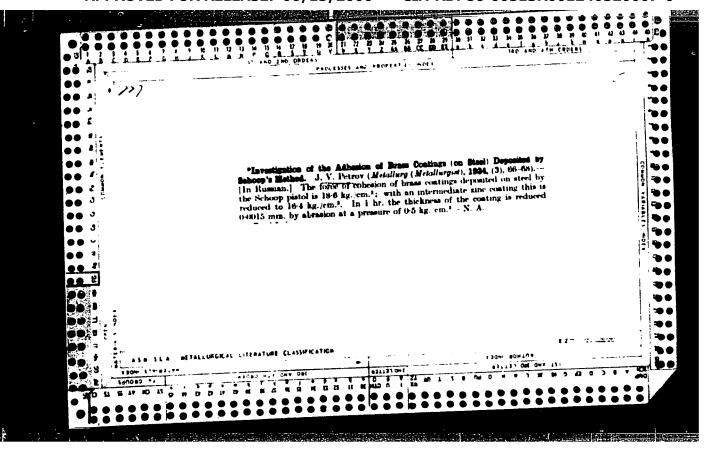
Readers argue, agree, advise. Tekh. mol. 31 no.6:6-9 '63. (MIRA 16:7)

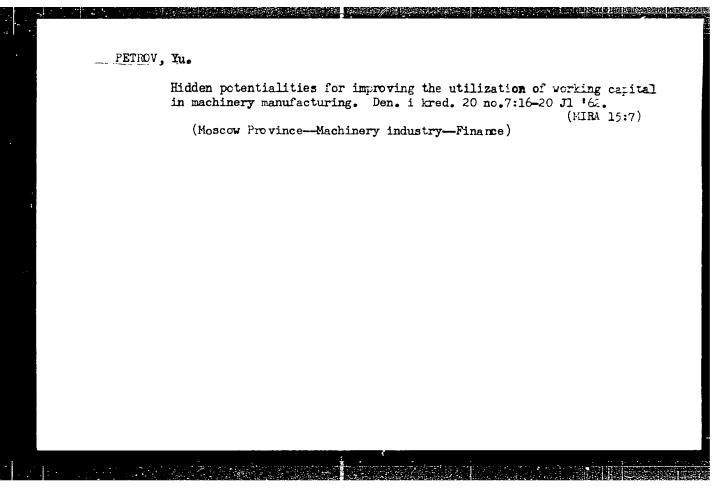
1. Starshiy inzhener Usol'skogo mashinostroitel'nogo zavoda (for Ivanov). 2. Moskovskoye vyssheye tekhnicheskogo uchilishche imeni Baumana (for Butusov). 3. Zaochnoye otdeleniye fakul'teta zhurnalistiki Leningradskogo gosudarstvennogo universiteta (for Sundakov).

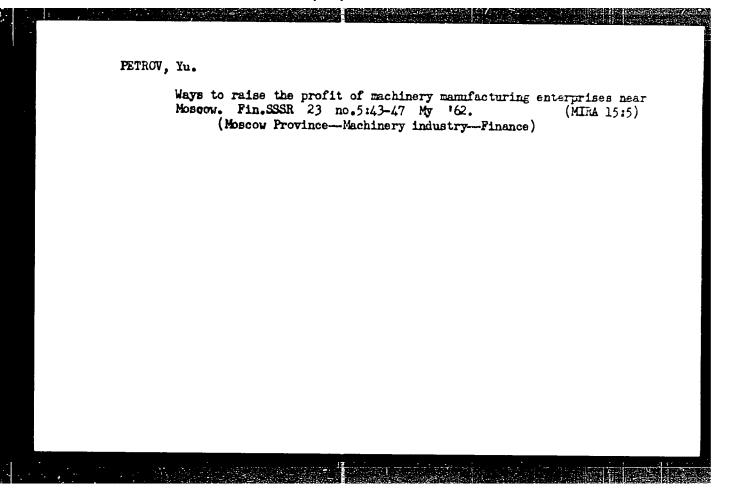
(Technological innovations)

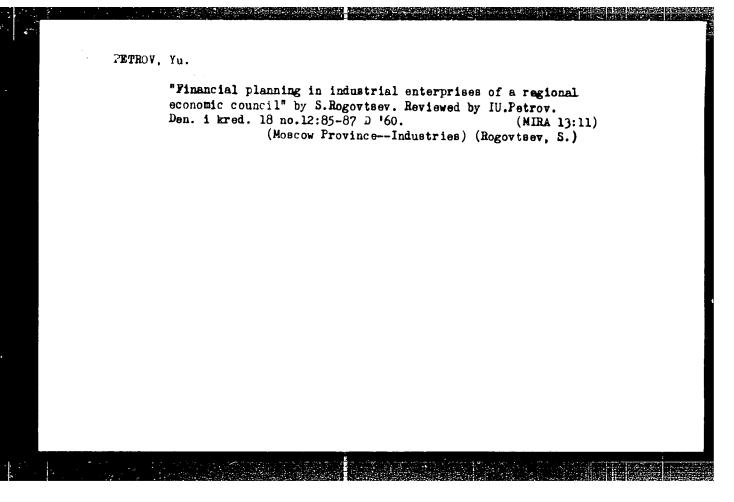












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l. Nachul'n	ik finansovogo otdela Uprav	vleniya mashinostroyeniya
Mosoblaovna	rkhoza. (Payment)	
	V- V /	

PETROV, Yu.

Give economic incentive to stimulate the introduction of new technology. Fin. SSSR 20 no.9:43-46 S '59. (MIRA 12:12)

1. Nachal'nik finansovogo otdela Upravleniya mashinostroyeniya Mosoblsovnarkhoza.

(Moscow Province--Machinery industry--Suggestion systems)

PETROV, Yu.

For better utilization of working capital in the machinery industry. Fin. SSSR 21 no.2:59-63 F '60. (MIRA 13:1)

l. Nachal'nik finansovogo otdela upravleniya mashinostroyeniya Moskov-skogo oblastnogo sovnarkhoza.

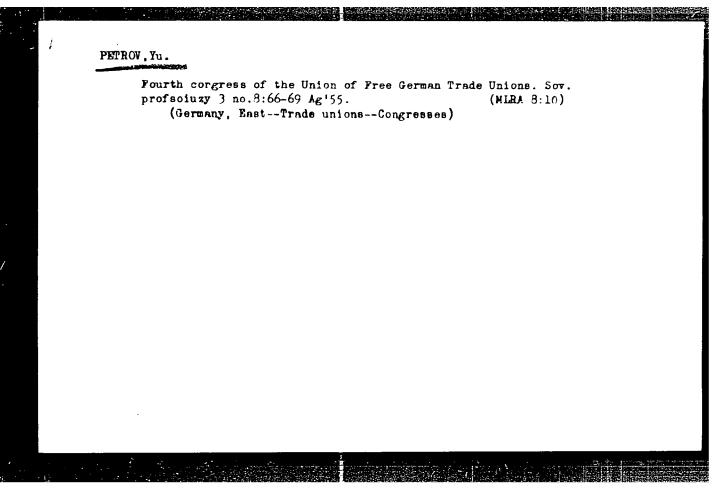
(Moscow Province--Machinery industry--Finance)

Planning and organizing working capital in machinery construction.

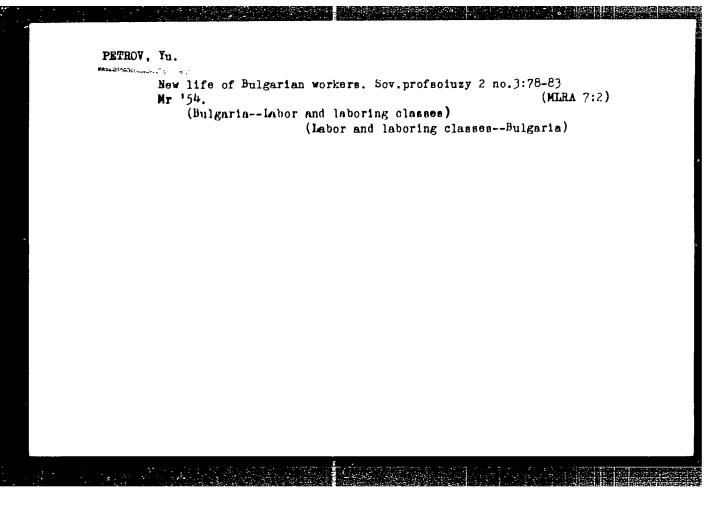
Fin.SSSR 19 no.11:42-48 N '58. (MIRA 12:7)

1. Machal'nik finansovogo otdela Upravleniya mashinostroyeniya Mosoblsovnarkhoza.

(Machinery industry--Finance)



Hidden potentialities for speeding up the turnover of working capital in machinery manufacturing. Pin. SSSR 26 nc.5:19-22 My (MRA 12:10) 1.Nachal'nik finansovogo otdela Upravleniya mashinostroyeniya Mesoblaovnarkhoza. (Moscow Province--Machinery industry--Finance)



PETROW, Y.., YEROSHENFO, W. E., and MOTULAVICH, V. P.

"Effect of electrical fields on convective heat-exchange."

Report presented at the lst All-Union Conference on Heat- and mass- Exchange, Minsk, BSSR, 5-2 June 1961

VEL'SMAN, R.R., inzh.; PETROV, Yu. A., inzh.

Simultaneous docking of two ships in a floating dock in winter.
Sudostroenie 27 no.6:55-56 Je '61. (MIRA 14:6)

(Ships—Maintenance and repair)
(Docks—Cold weather operation)

MAKARENKO, P.P., inzh.; PETROV, Yu.A., inzh.

BPS-1 bunker train for logiing rock without changing cars in drifting.

Gor. zhur. no.9:42-45 3 '61. (MIRA 16:7)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy

nikelevoy promyshlennosti, Leningrad.

(Mine railroads)

sov/112-59-18-39359

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 18, p 183 (USSR)

AUTHORS:

Matkhapov, P.N., Petrov, Yu.A.

TITLE:

Circuit for the Series Connection of Commuting Devices in Powerful

High-Voltage Generators of Square Pulses

PERIODICAL:

Izv. Leningr. elektrotekhn. in-ta, 1958, Nr 35, pp 65 - 73

ABSTRACT:

Two circuits of series connection of electronic and ionic commuting devices are given, which are used for the generation of powerful highvoltage square pulses. Such circuits are employed in those cases when the rated capacity and voltage of thyratrons and electronic modulation tubes are considerably lower than required. Making use of the principle of the well-known Arkad yev - Marks multiplication circuit the authors improved it by introducing a special multi-winding choking coil, which resulted in a considerable constructional simplification of the circuit The calculation formulae for the designing of the choking coil are given

K.V.B.

Card 1/1

CIA-RDP86-00513R001240520007-0" APPROVED FOR RELEASE: 06/15/2000

where E_{ij} is the state of E_{ij} and E_{ij}

MATKHANOV, P. N., doktor tekhn. nauk, dotsent; PETROV, Yu. A., assistent

Calculation of the pulse-droop compensating networks of pulse
transformers. Izv. LETI 59 no.46:128-133 '62.

(MIM 15:10)

(Pulse circuits) (Electric transformers)

ZAVALOVA, N.D. (Moskva); ZUKHAR', V.P. (Moskva); PETROV, Yu.A. (Moskva)

On the problem of hypnopedia. Vop. psikhol. 10 no.2:98-102

(MIPA 17:9)

Mr-Ap '64.

PETROV, YUA.

AID P - 4574

: USSR/Aeronautics - training Subject

Pub. 135 - 9/23card 1/1

: Petrov, Yu. A., Maj. of med. service

Pilot's estimate of aircraft attitude in space Author

: Vest. vozd. flota, 2, 50-56, F 1956 Title

The author analyzes various previous articles of other Periodical Abstract

authors on the subject of spatial orientation, which appeared in this periodical in 1955. He describes the results of various tests in instrument flying, which were carried out for checking the ability of pilots to estimate the attitude of aircraft in space. One table.

Institution: None

: No date Submitted

22028

s/177/61/000/001/004/010 D211/D306

27.635D

Timofeyev, N.N., Colonel of Medical Services, Doctor

of Medical Sciences and Petrov, Yu.A., Lieutenant-Colonel of Medical Services, Candidate of Medical

Sciences

AUTHORS:

On assessing flying abilities

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 1, 1961, 30 - 34

TEXT: The authors give a short history of methods that have been used in the USSR for selecting men for the technical branches of the Armed Forces in general and for the Air Force in particular from 1923 onwards. The authors state that in view of recent tremendous technical progress in all the Armed Services, the task of recruiting committees in selecting the right men for a given service is becoming increasingly difficult. As existing selection methods are inadequate, the author believe that they should be complemented

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S/177/61/000/001/004/C10 **D211/D306**

On assessing flying abilities

by psychological investigations. The authors refer only to the selection of men for the Air Force, where conditions in modern aviation differ fundamentally from those in the other services. They cite the following investigators, who first used experimental psychological tests in the USSR: S.Ye. Mints, A.P. Nechayev, N.M. Dobrot vorskiy, K.K. Platonov. They then refer to investigations carried out during and after World War II in the USA and other foreign countries. Analyzing the working conditions on jet and supersonic aircraft, the authors think that only exceptionally gifted men are able to deal adequately with modern complicated instrument panels. However, as it is not possible to find enough individuals of this type, more attention should be paid to the more rational and simplified construction of instrument panels which would permit the pilot to interpret their showings correctly even if he is a man of average qualifications. It is also essential that pilots should be trained on ground installations, strictly simulating those used in flight; in such a way pilots could acquire the perception and

Card 2/3

S/177/61/000/001/004/010 D211/D306

On assessing flying abilities

flying habits, needed in actual flying. Generally speaking problems of flying abilities should be solved with the aid of a psychological investigation of the whole personality of the candidates. There is 1 Soviet-bloc reference.

SUBMITTED: September, 1960

Card 3/3

270000 also 1080

21090 S/177/61/000/002/003/005 D234/D305

AUTHOR:

Petrov, Yu.A., Lieutenant-Colonel of Medical Services,

Candidate of Medical Sciences

TITLES

Some aspects of applied experimental psychology

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 2, 1961, 40 - 43

TEXT: This paper is a survey of psychological methods used in investigations related to military medicine. The role of habit formation in the rapid and correct evaluation of aerial photographs was studied by V.F. Rubakhin Abstractor's note: No reference given ... Black-and-white photographs were used, and time at the disposal of the subject was not limited. Reports included the time spent on preliminary study of photographs, comments made by the subject, the sequence of work and names of auxiliary instruments used. Spatial orientation of pilots during instrument flight was studied in a series of experiments making use of the radio-reportage method. The first cockpit of a dual-control training plane was occupied by the

Card 1/4

Some aspects of applied ...

S/177/61/000/002/003/005 **D234/D305**

experimenter pilot, while the second cockpit, occupied by the subject, was completely covered by a special blind. Visual spatial orientation was completely eliminated and the subject had to rely only on instruments for information. Several predetermined flight tasks were carried out by the experimenter pilot, while the subject , gave a running commentary on the position and evolutions of the plane by radio to a ground station where this was recorded on tape. The accuracy and time delay of this commentary can be assessed by comparing it with the actual flight task carried out, time being measured from the task-number announcements made by the experimenter pilot. This method can be used both for the evaluation of the cockpit equipment and for testing personnel in training. The attention-claiming properties of cockpit instruments and light signals were studied in another investigation. Artificial emergency situations were created with simulated instruments and signal lights during normal flight, and the time taken by the subject to react appropriately was measured. This method was used to determine the time intervals, during which the visual indicators appeared to be

Card 2/4

21890 \$/177/61/00C/002/003/005 D234/D305

Some aspects of applied ...

ineffective, and to evaluate the conditions for correct and accurate perception of emergency signals and instrument readings. Reaction time experiments, based on the discoveries of the Pavlov school, were used to define typological properties of higher nervous activity. One of the problems investigated was the influence of external inhibition on motor reaction-time. Three kinds of experimen were used: (1) Motor response (key pressing) to white light stimulus, interfering auditory stimulus (bell). (2) Choice reaction-time (alternative keys for colored light stimuli) where the connections between stimuli and required responses is not known to the subject initially. (3) Choice reaction-time (as in (2)) with varying relationships between stimuli and correct responses. These experiments throw light on individual differences as to speed, reliability, plasticity, and other aspects of the underlying cortical processes. Tachistoscopic exposure of pictorial material can be used for testing attention. The fullness of the description given by the subject after short exposures in the Wundt_or Nechayev type tachistoscope Abstractor's note: Not described gives a measure of atten-Card 3/4

Some aspects of applied ...

S/177/61/000/002/003/005 D234/D305

tion. A very efficient method of studying the activities of pilots, tank and car drivers is to take motion pictures of the subject's eyes (A.K. Abramov, A.M. Pospelov, V.A. Popov, K.K. Platonov). Subsequent decoding of this film facilitates the understanding of individual movements and actions in a complex pattern. Telemetric transmission of pulse rate measurements can be used easily to measure emotional tension in subjects remote from the experimeter. Memory can be investigated by the retention and reproduction of lists of unrelated words (5 to 15 or more). Modelling with electronic computers opens up new perspectives in experimental psychology. This method has all the advantages of the laboratory experiment while approximating maximally to the real processes. Another branch of psychological investigations which should not be neglected is the so-called natural experiment of A.F. Lazurskiy Abstractor's note: Not described. The purpose of these natural experiments is to observe the psychological processes in real-life situations. This methed is of great importance in psychopathology and pedagogy.

SUBMITTED: October, 1960

Card 4/4

PETROV, Yu.A., podpolkovnik meditsinskoy sluzby, kand.med.nauk

"Aviation psychology" by K.K.Platonov. Reviewed by IU.A.Petrov. (MI:A 14:2)

Voen.-med. zhur. no.6:28-91 Je '61.

(AERONAUTICS--PHYEHOLOGY) (PLATONOV, K.K.)

ACC NR: AT6036618

SOURCE CODE: UR/0000/66/000/000/0306/0308

AUTIOR: Petroy, Yu. A.

ORG: none

TITLE: Nethodology for psychophysiological investigations in outer space [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Ebscow, 1966, 306-308

TOPIC TAGS: space psychology, spatial orientation, man-machine system, psychologic atress

ABSTRACT:
The space walk by A. Leonov was a necessary and important precursor to interplanetary flights. The assembly of orbital stations, repair work on external structures of spacecraft during prolonged spaceflight, activity on the lunar surface, and transfer from one spacecraft to another only partially represent the necessary activities of man in space. Doubtless it is necessary to investigate the psychological functions of man in space as an assential

Cord 1/4

ACC NR: AT6036618
reliability factor both in the biological sense and relative to evaluating the man-machine system. For understandable reasons (spacesuit, limited contact, etc.), conditions in space do not permit the use of normal methods of psychological examination. The development of an optimum methodological approach to these ends is an important problem for psychologists working in the area of cosmonautics. The present study reviews some methods permitting the experimental evaluation of the dynamics of some changes and some human psychic functions which are to be expected under space conditions.

l. An Investigation of Spatial Orientation

During the experiment the subject must determine the direction of light under conditions of "fixation" of the coordinate exes and with few reference data to solve the given problem. For example: "the southwest is to your right and the position with respect to the axis of the body is inverted. Determine the direction of light in front of you". The correct answer is "northwest".

Results are rated according to accuracy and the duration of response. In the process of developing methods, a number of test series with various degrees of difficulty were examined. Instruction before the experiment

Card -2/4

ACC NR. AT6036618

permits execution of commands and reception of answers in truncated form, which significantly increases the accuracy of evaluating the orientation of time. The truncated form of the example given above would be, "southwest; inverted".

2. An Investigation of the Formation and Reduction of Time Relationships

In this radio communication variant, the subject determines shifting relationships between geometric figures and their colors. The number of figures and of their colors ranges from three to five. The results are evaluated as a function of incorrect response, and the value of the latent period.

3. An Investigation of Attentiveness

In this radio test, text is transmitted from which the subject must keep track of a number of particular letters or their combinations.

4. An Investigation of Visual Estimation and the Coordination of Movements.

Card 3/4

metric figures completion is	subject must . The time t considered.	arrange plastic aken to complete The latter can be uphy. This meth	determined w	ith the help of sed on Earth be	i
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ACC NR: AP7004338 SOURCE CODE: UR/0106/66/000/011/0046/0050

AUTHOR: Matkhanov, P. N.; Petrov, Yu. A.; Danilov, L. V.

ORG: none

TITLE: Synthesizing passive circuits intended for shaping pulses that have a

bell-shaped envelope

SOURCE: Elektrosvyaz', no. 11, 1966, 46-50

TOPIC TAGS: pulse shape, pulse shaper

ABSTRACT: Synthesizing the reactive quadripoles is considered which produce, in a resistive load, a pulse with a bell-shaped envelope when a unit step voltage is applied to the quadripole input. The function sint can be regarded as a zeroth approximation to the bell-shaped envelope; the function $\sin^2 t$, as a first approximation; the function $\sin^2 t$, a second approximation, etc. Then, the

Cord 1/2

UDC: 621.374

ACC NR: AP7004338

corresponding pulses will be described by: where the pulse amplitude is unity-normalized, and the pulse duration is granormalized. An approximate formula for the transfer function of a physically realizable quadripole is derived, and its use is illustrated by two numerical examples.

$$u_{\bullet}(t) = \begin{cases} \sin t \sin \omega_{0} t & 0 < t < \pi, \\ 0 & t > \pi; \end{cases}$$

$$u_{\bullet}(t) = \begin{cases} \sin^{2} t \sin \omega_{0} t & 0 < t < \pi, \\ t > \pi; \end{cases}$$

$$u_{\bullet}(t) = \begin{cases} \sin^{1} t \sin \omega_{0} t & 0 < t < \pi, \\ 0 & t > \pi; \end{cases}$$

This important effect is noted: if a step voltage E is applied to the quadripole, the pulse height in the resistive load may reach a value of kE where $k \gg 1$ (in one of the numerical examples, k = 10). Such a high voltage gain permits using lower-voltage power-supply sources and switching devices. Passive shaping quadripoles are recommended when the ratio of pulse duration to carrier period does not exceed 20-30. Orig. art. has: 3 figures and 12 formulas.

SUB CODE: 09 / SUBM DATE: 29Nov65 / ORIG REF: 004

Cord 2/2

ACC NR: AP7009052 (A, N) SOURCE CODE: UR/0413/67/000/003/0018/0018

INVENTOR: Abayev, B. I.; Mil'vidskiy, M. G.; Yeremeyev, V. V.; Mityukhin, E. F.; Petrov, Yu. A.; Ofitserov, K. D.

ORG: None

TITLE: A device for growing single crystals. Class 12, No. 190864

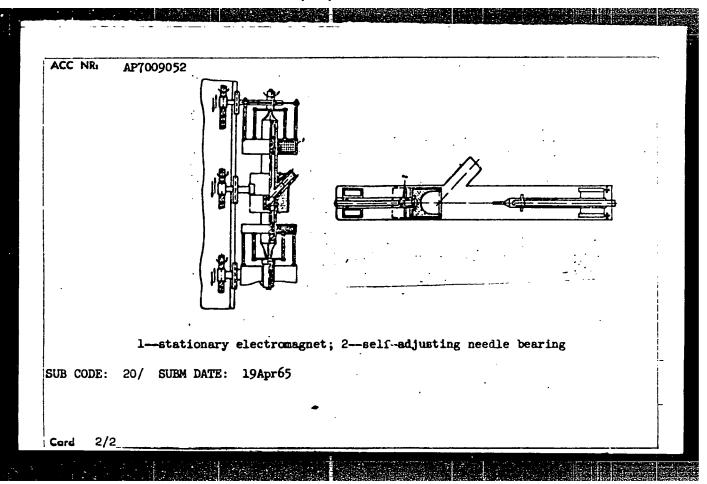
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 18

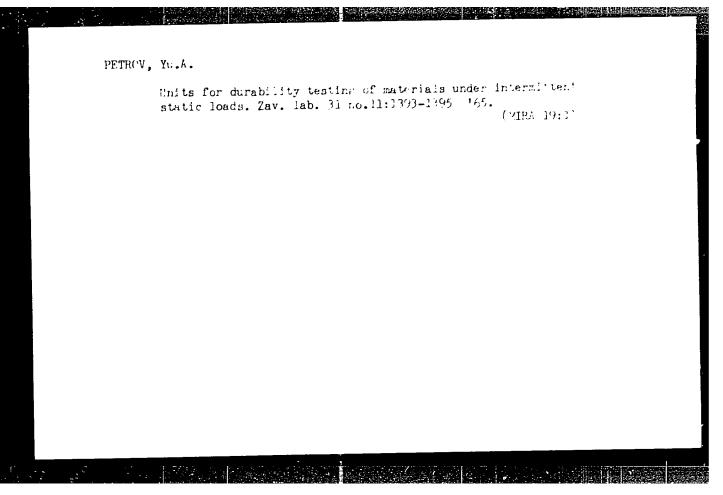
TOPIC TAGS: single crystal growing, quartz, electromagnet

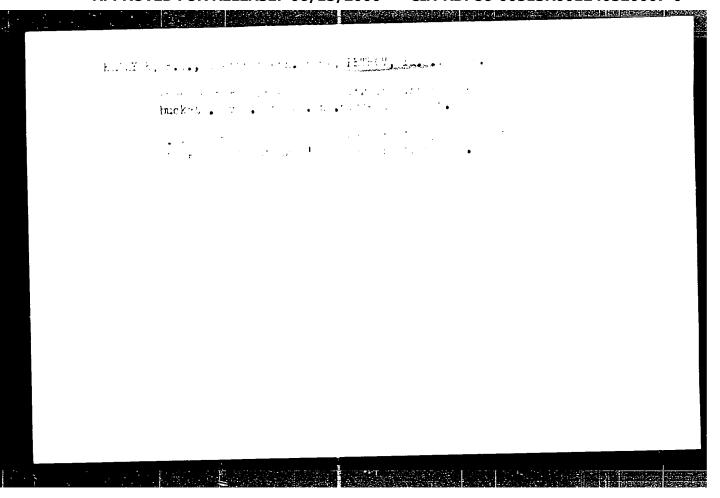
ABSTRACT: This Author's Certificate introduces a device for growing single crystals of decomposable compounds by pulling from a melt in a crucible. The unit contains a quartz chamber of uniform diameter with inspection window and a hollow quartz rod for rotating and moving the seed. To rotate the crucible at a controllable rate and to control the rate of rotation and motion of the seed, the unit is equipped with stationary electromagnets consisting of water-cooled copper tubes and rotatable pole pieces. A quartz needle bearing is used for smooth rotation of the crucible containing the melt.

Card 1/2

WDC: 542.65:548.55



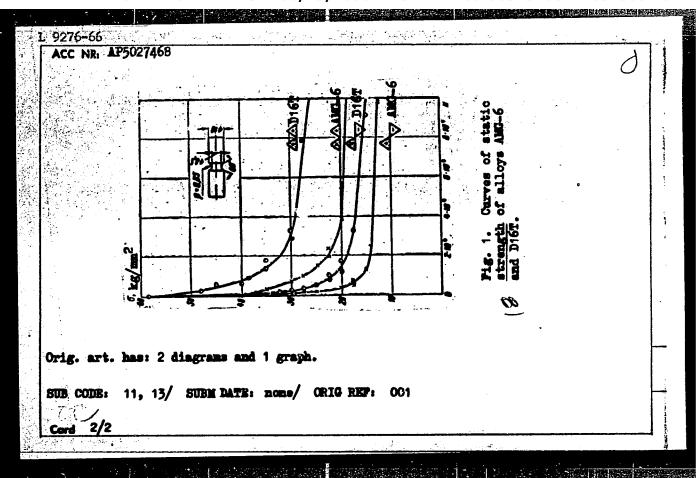




PETROV, Yu.A.; LEDOT, Yu.A.

Experience in the use of ingot mains at the Energowers setal-lurgical plant. Stat? 16 no.8:707-708 ag 165.

ENT (d)/ENT (m)/ENP(w)/ENA(d)/ENP(v)/T/ENP(t)/ENP(k)/ENP(h)/ENP(z)/ENP(h) SOURCE CODE: UR/0032/65/031/011/1593/1395 MJN/JD/EM ACC NR: AP5027468 EWP(1) AUTHOR: Petrov, Yu. A. ORG: none TITLE: Apparatus for studying strength under repeated static loads SOURCE: Zavodskaya laboratoriya, v. 31, no. 11, 1965, 1393-1395 TOPIC TAGS: test stand, metallurgic testing machine, static load test, cyclic test, tensile test, hydraulic device/ AMC 6 alloy, D16T alloy ABSTRACT: This article presents unilateral and bilateral hydraulic devices for testing samples simultaneously along three sections at different or identical asymmetry of the stress variations with identical or different load frequencies. The bilateral machine consists of three frames with three individual loading mechanisms and a control panel. It is used for tensile and compressive testing. With asymmetric loading cycles the maximum load is 10 000 kg, with symmetric, 5000 kg. The number of cycles can be varied from 1 to 30 per minute. The unilateral machine develops loads of constant sign. These machines have shown themselves to be reliable. The results (see Fig. 1) show that the spread of experimental points is negligible; therefore, the force-measuring and control devices ensure the required accuracy. 620.178.4/.6 : 1.05 .UDC: Cord 1/2



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KUROCHKIN, G.D., kand. geol.-mineral. nauk (Moskva); DEMENT'YEV, G.P.,
doktor biolog. nauk (Moskva); PETROV, Yu.A., kand. filosof. nauk;
FEDOROV, A.S. (Moskva); IL'IN, Ye.I. (Moskva); GALYUK, V.A. (Moskva);
NOVIK, I.B. (Moskva); SILTSKIY, M.S. (Moskva); SHAFRANOVSKIY, I.I.,
prof.; FRANK-KAMENETSKIY, V.A., prof..

Book reviews. Priroda 54 no.9:60, 103, 111-116 S '65.

(MIRA 18:9)

1. Moskovskiy gosudarstvennyy umiversitet (for Petrov).

2. Leningradskiy gornyy institut im. Plekhanova (for Shafranovskiy).
3. Leningradskiy gosudarstvennyy universitet (for Frank-Kamenetskiy);
```

PETROV, Yu.B.

Work system without specific assignment in the "Proletarskaya-Glubokaya" mine. Ugol' Ukr. 6 no.9:31-32 S '62. (MIRA 15'4)

PETROV, Yu.D., kandidat ekonomicheskikh nauk.

Reserves for increasing railroad traffic capacity during track work. Trudy MTEI no.5:53-64 '57. (MEEA 10:10)

(Railroads--Maintenance and repair)

PETROV, Yu.Ye.

Development of conceptacles in Ascoseira mirabilis Skottsb. and the origin fucuses (Cyclosporeae). Bot. zhur. 48 no.9: 1298-1309 S '63. (MIRA 16:11)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.

ANDRIANOV, A. M., BAZILEVSKAYA, O. A., LUK'YANOV, S. Yu., OSOVETS, S. M., PETROV, Yu. F., PODGORNY, I. M. and YAVLINSKIY, N. A.

"Investigation if the Heating of Hydrogen Paasma in Small Toroidal Systems." (Work carried out in 1951); pp. 42-65.

The physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. I. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR. resp. ed. M. A. Leontovich, editorial work by V. I. Kogan.

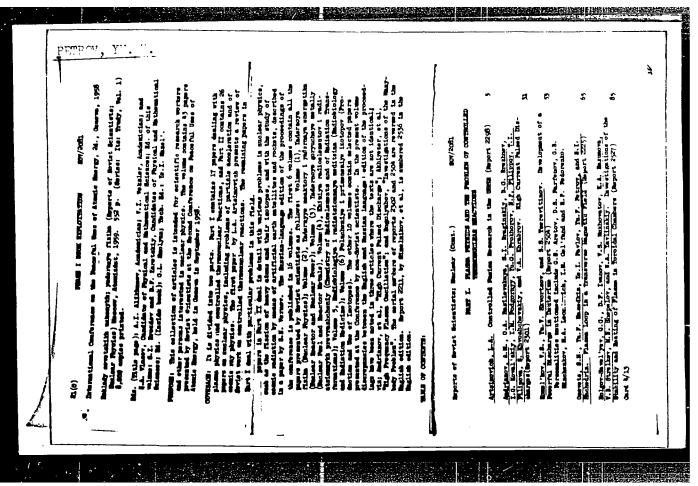
Available in Library.

OSOWETS, S. M., PETROV, Yu. F. and SCHEDRIN, N. I.

"Investigation of a Gas Discharge in a Uni-Connected Region." (Work - 1955);
pp. 242-263.

"The Physics of Plasmas; Problems of & mark Controlled Thermonuclear Reactions." Vol. II.
1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Labrary.



PETRZHAK, K.A.; NIKOL SKAYA, Ye.B.; PETROP STORESHLYAMIN, B.A.

Possibility of using a method involving the slowing down and collection of fission fragments of gas for the study of fragment isotopes. Part 1: Radiochemical study of the distribution of fragments from their paths. Radiokhimiia 1 no.2:227-230 159.

(MIRA 12:8)

(Fission products)

Bak, M. A., Bugorkov, S. S., 21(8)

SOV/89-6-5-18/33

AUTHORS:

Il'inskaya, T. A., Petrov, Yu. G., Petrzhak, K. A., Solntsev, V. M., Sorokina, A. V., Ushatskiy, V. N.

TITLE:

The Yield of Ru 103 and Ru 106 in the Fission of \mathbb{U}^{235} and Pu²³⁹ by Fast Neutrons (Vykhody Ru¹⁰³ i Ru¹⁰⁶ pri delenii

u235 i Pu239 bystrymi neytronami)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 5, pp 577-578 (USSR)

ABSTRACT:

The yields of Ru^{103} and Ru^{106} were determined by means of a relative measurement with respect to the No 99-yield.

Uranium oxide $(v^{235}$ -enrichment > 90 %) and plutonium oxide were pressed in aluminum caskets. The latter were surrounded by a 1 mm thick Cd-sheet, and the whole was packed in a firmly closed aluminum cylinder. The cavities are filled with boron carbide (all-round thickness at least 2 cm). Two samples were made from uranium and 4 from plutonium, and were irradiated for 52.2 hours in a water-filled beam tube of the heavy-water reactor of the AN SSSR (AS USSR).

The neutron spectrum is characterized by the ratio

Card 1/3

The Yield of Ru¹⁰³ and Ru¹⁰⁶ in the Fission of 0.07/89-6-5-18/33 and Pu²³⁹ by Fast Neutrons

E_n > 1.5 MeV : E_n > 2.5 MeV = 4.0 ± 1.5. From the irradiated samples Ru and Mo was chemically separated, after which thin β-preparations (thickness < 20 μg/cm²) were produced on an organic foil; their activity was measured by means of a 4π-counter. An aluminum filter of 3 mg/cm² thickness is attached, so that only the β-rays of Ru of Ru and Ru reach the counter. Determination of the absolute activity of Ru and Ru was carried out by means of further filtering and recording the absorption curves of these radiating bodies with the same numbers. The momentum values measured make it possible, from 2 equations with 2 unknown ratios to calculate the latter. Herefrom it is possible to calculate the absolute fractions. From the latter and from the measured absolute Mo 99 -β-activity (which will be dealt with by a publication in the near future) it was possible to calculate the following yields:

Card 2/3

The Yield of Ru^{103} and Ru^{106} in the Pission of SOV/89-6-5-18/33 U^{235} and Pu^{239} by Fast Neutrons

o , and a boater letal

SUBMITTED: December 22, 1958

Card 3/3

PETR ZHAK, K.A.; TOLMACHEV, G.M.; USHATSKIY, V.N.; BAK, M.A.;
BLINOVA, N.I.; BUGORKOV, S.S.; MOSKAL'KOVA, E.A.; OSIPOVA,
V.V.; PETROV, Yu.G.; SOROKINA, A.V.; CHERIYSHEVA, L.P.;
SHIRYAYEVA, L.V.

[Yields of certain fragments in U²³⁵, U²³⁸, and Pu²³⁹ fission by neutrons! Vykhody nekotorykh oskolkov pri delenii U²³⁵, U²³⁸ i Fu²³⁹ neitronami deleniia. Moskva, Glav. upr. po ispol'zovaniiu atomnoi energii, 1960. 14 p. (MIRA 17:2)

85680

s/056/60/038/006/002/049//A B006/B070

26.2211 AUTHORS:

Petrzhak, K. A., Petrov, Yu. G., Shlyamin, E. A.

TITLE:

Range and Kinetic Energy Dispersion of $\overline{U^{2}}^{2}$ Flasion Pragment.

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, tag.

Vol. 38, No. 6, pp. 1723-1728

TEXT: The range distribution of the following U^{233} fission fragments :: different gases was investigated: Sr 91-92 y 92-93 2 2 7 7 Ba 140 Mand Ce 4. 19 The uranium target was placed in a hermetically sealed aluminum cylinder. The container had 30 films each $\sim 6\mu g/cm^2$ thick and separated from each other by 2.5 mm. The distance between the target and the first film was 136 mm. The container was filled with various gases (hydrogen, helium, nitrogen, air, neon, and argon). The thicknesses of the U233 target were 76, 110, 145, 228, and 284 $\mu g/cm^2$. The container was irradiated at constant temperature for 1-2 hours on the reactor of the AS USSR in a flux of $10^{12} \, n/cm^2 \, sec$. After the irradiation, the activity of each film was measured with an end-window beta counter. Sr. Y. Zr. Ba. and Se were

card 1/4

85680

Range and Kinetic Energy Dispersion of US 33 Fission Fragments

\$/056/60/038/006/022,049/XX

separated by the usual method of chemical analysis. The range distribution curves of the above-mentioned fission fragments in the various gases were obtained from the results of the radiochemical analysis; the average values of the range and the range dispersion were determined therefrom. For illustration, Fig. 2 shows the range distribution curve of the Ba 140 nucleus in H2. The ordinate gives the relative activity of Ba 140 in the various films, while the abscissa rives the fragment range at $p_{H_2} = 760$ mm Hg and $t = 15^{\circ}$ C. The experimental

distribution falls nearly on a Gaussian curve. Analogous results were obtained for the other fragments and gases. The scattering of the fragment ranges is assumed to be due to energy fluctuations of fragments caused by nuclear deformations, changes in kinetic energy as a result of fluctuation of the initial charge of the nucleus during fragment emission. statistical fluctuations of the electron number and the number of nuclear collisions during the slowing down of fragments in the gas change of kinetic energy on emission of a neutron from a fragment, slowing down in the target material and, finally, to the geometry of the apparatus. A formula is given for determining the scattering S of the ranges. The

(5680)

Range and Kinetic Energy Dispersion of 7233

8/056/60/038/006/022/045/4X

experimental values of the range and S are given in Table 1 after making allowance for absorption in the film and in the target material. Formulas are given also for the scattering of kinetic energy, and the data are collected in Table 2. The accuracy with which the ranges could be given was 2%; the error in range scattering on making allowance for all effects was found to be 10%. The data obtained for the scattering of kinetic energy agree well with American publications (Refs. 2-8). Ye. B. Nikol'skiy is thanked for help in the radiochemical analysis. There are 4 figures, 2 tables, and 10 references: 2 Soviet, 7 US, and 1 Danish.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of SUBMITTED:

January 28, 1960

Card 3/4

85680

S/056/60/038/006/022/049/XX B006/B070

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ras Gas	Sr *1- 02		Y ====		Zr**		~			
	R. CM	S. %	R. CM	s. %	I	7	-	Barre		Cern
Водород Н2 Гелий Не Азот N2 Воздух л11 Неон Ne Аргон л2	10,05 15,75 2,58 2,54 4,80 2,60	7,37 7,09 9,51 8,04 9,86 0,59	10,05 15,68 2,52 2,51 4,84 2,58	6,66 6,84	9,61 15,61 2,50 2,44 4,66	7,92 6,99 10,27 8,20 9,60	7,58 11,93 1,85	6,13 7,03 9,87	7,68 12,02 1,86 1,84	5,12 5,86 9,26 8,71
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Card 4/4