

ALAPIN, Boleslaw; KOZLOWSKI, Piotr

Trichloroethylene narcomania in a subject with early cerebral atrophy. Neur. & c polska 10 no.4:511-514 J1-Ag '60.

1. Z Panstwowego Szpitala dla Nerwowo i Psychicznie Chorych w Pruszkowie Dyrektor: dr med. F.Kaczanowski z Instytutu Psycho-neurologicznego w Pruszkowie Dyrektor: prof. dr med. Z.W.Kuligowski  
(TRICHLOROETHYLENE addiction)  
(BRAIN pathol)

KOZŁOWSKI, Piotr; ALAPIN, Bolesław

On cerebral angiography in agenesis of the corpus callosum. Polski  
przeł. radiol. 25 no.2:139-146 '61.

1. Z Państwowego Szpitala dla Nerwowo i Psychicznie Chorych w Pruszkowie  
Dyrektor: dr med. F. Kaczanowski Z Instytutu Psychoneurologicznego w  
Pruszkowie Dyrektor: prof. dr med. Z. W. Kuligowski.

(BRAIN abnormal) (CEREBRAL ANGIOGRAPHY)

ALAPIN, Boleslaw; PYMECH, Jerzy

A case of fatal brain complication during trimipramine treatment. Neurol., neurochir., psychiat. Pol. 14 no.12705-707  
Jl-Ag '64

1. Ze Szpitala dla Nerwowa i Psychicznie Chorych im. Prof.  
J. Mazurkiewicza w Bruszkowie (Ordynator: doc. dr. med.  
B. Alapin) i z Pracowni Neuropatologicznej Instytutu Psycho-  
neurologii w Warszawie (Kierownik: dr. med. J. Pymech;  
dyrektor: prof. Z.W. Kuligowski).

ALAPIN, Boleslaw

Treatment of depressive states with chlorprothixene. Pol. tyg.  
lek. 19 no.20:759-762 11 My '64.

1. Z Ośrodka Psychiatrii Studium Doskonalenia Lekarzy Akademii  
Medycznej w Warszawie (kierownik: doc. dr. med. Boleslaw Alapin).

SUKHAREVSKIY, B.Ia.; ALAPIN, B.G.; GAVRISH, A.M.

Characteristics of the kinetics of polymorphic transformation  
of zirconium dioxide on cooling. Dokl. AN SSSR 156 no. 3:  
677-680 (MIRA 17:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov.  
Predstavleno akademikom N.V.Belovym.

L 14587-66 EWT(n)/EFP(n)-2/T/EWP(t)/EWP(n) IJP(s) JG/MM/JG

ACC NR: AP5025790

SOURCE CODE: UR/0363/65/001/003/1537/1544

AUTHOR: Sukharevskiy, B. Ya.; Alapin, B. G.; Gavrish, A. M. 52

ORG: Ukrainian Scientific Research Institute of Refractories (Ukrainskiy nauchno-issledovatel'skiy institut ogneporov)

TITLE: Kinetics and mechanism of polymorphous transition of zirconium dioxide

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 9, 1965, 1537-1544

TOPIC TAGS: zirconium compound, phase transition, crystal dislocation, crystal defect, physical diffusion, X RAY DIFFRACTION, ACTIVATION ENERGY

ABSTRACT: Certain aspects of the  $\alpha \rightleftharpoons \beta$  transition in zirconium dioxide, involving the change of the monoclinic phase into the cubic phase at about 1100°C are investigated. The experiments involved the use of x ray diffraction at high temperatures by means of a URS-50I apparatus. X-ray diffraction at low temperatures was performed by using an attachment which permitted quenching in liquid nitrogen and the recording of x-ray at nitrogen temperatures. The polymorphous transition of

Card 1/2

UDC: 546.831.4'221 : 541.7

L 14587-66

ACC NR: AP5025790

ZrO<sub>2</sub> was found to be diffusionless and to take place with isothermal kinetics during the  $\alpha \rightarrow \beta$  transition and during the first stage of the  $\beta \rightarrow \alpha$  transition. The main reason for isothermal kinetics, at least in the  $\beta' \rightarrow \alpha$  transition, are structural defects which cause a diffusion of the lines on the x-ray pattern. Mathematical analysis of the dislocation model of the transition shows the existence of limited isothermal kinetics during which the transition rate is determined by the number of defects preventing the motion of the dislocations and by the activation energy required to overcome them by diffusion. The activation energy of the transition measured (approximately 150 kcal/mol) is close to the activation energy of self-diffusion in ZrO<sub>2</sub>. The causes of the increase in the transition range and the decrease in hysteresis following high temperature preliminary annealing of the samples are indicated. Orig. art. has: 6 figures, 15 formulas.

SUB CODE: 11,07/

SUBM DATE: 08Jan65/

ORIG REF: 010/ OTH REF: 013

FW  
Card 2/2

ALAPIN, G-Yd

19

Proteolysis and autolytic aminogenesis in renal tissues during experimental pathology of the kidneys. (G. Ya. Alajay. *Med. expl.* (Ukraine) 1940, No. 1, 70-75, 4 refs.)

35, 1949.- Residual N content of kidney tissue was increased in exptl. V nephritis, while the amino N remained within normal limits. The intensity of post-mortem proteolysis (in physiol. value at a pH of 7.4) was markedly increased, while the coeff. of autolytic aminogenesis was lowered. In sublimite nephrosis the residual N content of kidney tissue was increased while the amino N was decreased. The intensity of post-mortem proteolysis was increased while the coeff. of autolytic aminogenesis was lowered. Intravenous injection of glycine lowered the residual N content of the blood and decreased the proteolysis of kidney tissue (pH 3.8-5.7) in sublimite nephrosis.

S. A. Conson

S. A. COWELL



ALAPIN, G. Ya.		11G	
<p><i>ca</i></p> <p>Proteolysis and autolytic aminogenesis in hepatic tissue in experimental renal pathology. G. Ya. Alapin. <i>Ibid. expl.</i> (Ukraine) 1940, No. 2, 18-21. Raps, were performed on rabbits. In expl. uranum nephritis the residual N content of liver tissue was somewhat increased, amino N was unchanged, while postmortem autolysis in a medium of pH 5.7 and 7.4) was increased. The coeff. of autolytic aminogenesis was lowered. In expl. sublimite nephrosis amino N was lowered, while the residual N, the intensity of autolysis (pH of 5.7 and 7.4) and of autolytic aminogenesis were increased. Intravenous injection of glycine in expl. uranum nephritis and in sublimite nephrosis lowered proteolysis at a pH of 3.8 and somewhat increased it at a pH of 7.4. S. A. C.</p>			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION			
SEARCHED BY ONE DES		RECORDED BY ONE DES	
SERIALIZED		INDEXED	

ALAPIN, G.Ya., professor (Khar'kov)

"Pyelitis and pyelitis of pregnancy" by E.R.Sum-Shik. Reviewed  
by G.IA.Alapin. Urologia 22 no.3:80 My-Je '57. (MIRA 10:8)  
(KIDNEYS--DISEASES) (PREGNANCY, COMPLICATIONS OF)  
(SUM-SHIK, E.R.)

ALAPIN, G.Ya., prof.

Classification of tuberculosis of the urogenital organs. Urologiia  
23 no.6;20-22 N-D '58. (MIRA 11:12)

1. Iz kafedry urologii (zav. - prof. G.Ya. Alapin) Ukrainского insti-  
tuta usovershenstvovaniya vrachey.  
. (TUBERCULOSIS, UROGENITAL  
classif. (Rus))

ALAPIN, G.Ya.; VAYNDRUKH, A.A.

[Organization of the work in cystoscopy and a concise methodology  
for urological investigations; manual for physicians and students]  
Organizatsiia raboty v tsistoskopicheskoi i kratkaia metodika uro-  
logicheskikh issledovani; rukovodstvo dlia vrachei i studentov.  
Khar'kov, 1959. 43 p. (MIRA 14:7)  
(BLADDER—EXPLORATION) (UROLOGY)

GENES, S.G.; ALAPIN, G.Ya.; BURTYANSKIY, I.L.

Effect of the thyroid hormone on vicarious processes of the residual kidney following unilateral nephrectomy. Urologia 24 no.3:19-25  
My-Je '59.. 'MIRA 12:12)

1. Iz Ukrainского instituta eksperimental'noy endokrinologii (dir. - starshiy nauchnyy sotrudnik S.V. Maksimov), Ukrainского instituta usovershenstvovaniya vrachey (dir. - dots. I.I. Ovsienko) i 2-y Sovetskoy bol'nitsy.

(NEPHRECTOMY, exper.

eff. of thyroxin on residual kidney in animals (Rus))

(THYROXIN, eff.

on residual kidney after unilateral nephrectomy in animals (Rus))

GENES, S.G.; ALAPIN, G.Ya.; BURTYANSKIY, I.L. (Khar'kov)

Influence of sex hormones on compensatory hypertrophy of the  
kidneys. Urologiia no.6:28-34 '60. (MIRA 15:5)

1. Iz Ukrainskogo instituta eksperimental'noy endokrinologii  
(dir. S.V. Maksimov) Instituta usovershenstvovaniya vrachey  
(dir. I.I. Ovsienko) i 2-y Sovetskoy bol'nitsy.  
(KIDNEYS--DISEASES) (HORMONES, SEX)

ALAPIN, G.Y.; LEMBERG, A.A.

Pneumopericystography in the diagnosis of bladder diseases. Urologiia  
25 no. 4:27-31 J1-Ag '60. (MIRA 14:1)  
(BLADDER--RADIOGRAPHY)

POLONSKIY, B.L., prof., red.; PROSKURA, O.V., dots., red.; ALAPIN,  
G.Ya., prof., red.; GEL'FER, P.I. (Kiev), red.; PINEVICH,  
M.V., dots., doktor med. nauk (Vinnitsa); TSYBUL'SKIY,  
L.Ye., red.; NARINSKAYA, A.L., tekhn. red.

[Transactions of the Ukrainian Conference of Urologists  
devoted to the 150th anniversary of N.I.Pirogov's birth, held  
June 27-29, 1960] Trudy Ukrainskoi respublikanskoi konferentsii  
urologov, posviashchena 150-letiiu so dnia rozhdeniia N.I.  
Pirogova, 1960. Kiev, Gosmedizdat USSR, 1962. 386 p.

(MIRA 16:3)

1. Ukrainskaya respublikanskaya konferentsiya urologov, po-  
svyashchena 150-letiyu so dnya rozhdeniya N.I.Pirogova, 1960.
2. Glavnyy urolog Ministerstva zdravookhraneniya Ukr.SSR (for  
Proskura).

(UROLOGY--CONGRESSES)



ALAPIN, G.Ya.; GENES, S.G.; BURTYANSKIY, I.I.

Treatment of cancer of the prostate with chlortrianisene. Uro-  
logiia no.1:69-71 '62. (MIRA 15:11)

1. Iz Ukrainskogo instituta eksperimental'noy endokrinologii,  
Instituta usovershenstvovaniya vrachey i 2-y Sovetskoy bol'nitsy  
(Khar'kov).

(PROSTATE--CANCER) (CHLOROTRIANISENE)

ALAPIN, G.Ya., prof., red., (Khar'kov); GEL'FER, P.I., prof.,  
red.; PINEVICH, M.V., dots., red.; POLONSKIY, B.L., prof.,  
red.; PROSKURA, O.V., dots., red.; TSYBUL'SKIY, L.Ye.,  
red.; NARINSKAYA, A.L., tekhn. red.

[Transactions of the Republic Conference of Urologists  
(dedicated to the 150th anniversary of N.I.Pirogov's birth)]  
Trudy Respublikanskoi konferentsii urologov (posviashchena  
150-letiiu so dnia rozhdeniia N.I.Pirogova) 27-29 iunია 1960.  
Gosmedizdat, USSR, 1962. 386 p. (MIRA 16:12)

1. Respublikanskaya konferentsiya urologov Ukrainskoy SSR,  
1960.

(UROLOGY)

ALAPINA, A.V.

IZMAYLOV, N.A.; MUSHINSKAYA, S.Kh.; ALAPINA, A.V.

Effect of solvents on the adsorption of the dissolved substance.  
Ukr.khim.zhur. 20 no.5:478-486 '54. (MLRA 8:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmaticheskiy  
institut Ministerstva zdravookhraneniya SSSR.  
(Solution (Chemistry)) (Adsorption)

ALAPINA A. V.

USSR/ Chemistry - Physical chemistry

Card 1/1      Pub. 116 - 2/30

Authors      : Strelkov, I. I.; Ganenko, V. Ye.; and Alapina, A. V.

Title        : Specific heat and entropy of sodium succinate

Periodical   : Ukr. khim. zhur. 21/3, 291-295, June 1955

Abstract     : The entropy of anhydrous sodium succinate in standard conditions was determined from experimentally obtained specific heat at low temperatures. The table presenting the experimental results also shows the values of molar specific heat and the temperature ranges at which the ampulas were heated. Additional results are given in graph. Six references: 2 USA, 3 USSR and 1 German (1928-1952). Table; graph; drawing.

Institution : The V. I. Lenin Polytechnicum, Kharkov

Submitted    : January 19, 1955



SOV/137-58-8-17533 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 189 (USSR)

AUTHOR: Alasaniya, G.D.

TITLE: Investigation of the Bonding Strength of Electrolytic Iron Coatings, Applicable to the Regeneration of Worn Machine Parts  
(Issledovaniye prochnosti stsepleniya elektroliticheskikh zheleznykh pokrytiy primenitel'no k vosstanovleniyu iznoshennykh detaley mashin)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Gruz. s.-kh. in-t (Georgia Institute of Agriculture), Tbilisi, 1958

ASSOCIATION: Gruz. s.-kh. in-t (Georgia Institute of Agriculture), Tbilisi

1. Iron coatings--Mechanical properties
2. Iron coatings--Electrodeposition
3. Machines--Maintenance

Card 1/1

ALASANIYA, M. Ya.

✓ The corrosion resistance of grog bricks to furnace gases.  
K. S. Kutateladze and M. Ya. Alasaniya. *Trudy Inst.  
Metalla i Gornogo Dela, Akad. Nauk Gruzii*. S.S.R. 2.  
217-31(1949)(Russian summary).—Oxygen,  $H_2O$ , and  
forced  $N_2$  increase the corrosion action of  $Na_2CO_3$  and  
 $Na_2SO_4$ .  $CO_2$  decreases the corrosion of  $Na_2CO_3$  owing to  
the decrease of the dissociation of  $H_2CO_3$ . By simultaneous  
action of  $Na_2SO_4$  and  $CO_2$ , the corrosion increases because  
of mech. action. M. Chariandarian

MT

①

2 ALASANIYA, M. Ya.

chem ab v48

1-25-54

Building Materials

Expanding cement from portland cement and "gazha."  
 K. S. Kutafjadze and M. Ya. Alasaniya. Tsiment 19, No. 3, 18-20 (1953). Addn. of gazha (calc. hydri-  
 32331) causes expansion of cement, depending on the amt. and on the temp. of burning. Linear expansion of gazha is 0.03-0.17%, but as the gypsum content increases, expansion increases. Expanding cement can be obtained by adding 15.0-20.0% gazha to portland cement clinker. Resulting cement has a strength not less than that of the original portland cement. Either raw or calcined gazha can be used. B. Z. Kamich

matl  
 (2)



AUTHORS: Zvorykina, V. K., Alashev, F. D., 62-58-6-29/37  
Gol'dfarb, Ya. L.

TITLE: The Production of N-Oxides of N-Methylanabasine (Polucheniye N-okisey N-metilanabazina)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1958, Nr 6, pp. 788 - 790 (USSR)

ABSTRACT: Continuing the investigation of the N-oxides of bi-tertiary cyclic bases (Refs 1,2), the authors carried out the oxidation (by means of hydrogen peroxide) of N-methylanabasine. Bases of the N-oxides of N-methylanabasine which had hitherto not been described in published works, viz. N,N'-dioxide, Py-N-oxide, and Pi-N-oxide, as well as the picrates and hydrochlorides of these oxides were obtained. The structure of the N-oxides of N-methylanabasine was determined by reduction by means of zinc and hydrochloric acid in N-methylanabasine (and was identified as a di-picrate). There are 4 references, 2 of which are Soviet.

Card 1/2

The Production of N-Oxides of N-Methylanabasine

62-58-6-29/37

ASSOCIATION: Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk  
SSSR (Institute of Organic Chemistry imeni N.D.Zelinskiy, AS USSR)

SUBMITTED: January 29, 1958

1. Nitrogen oxides--Production    2. Cyclic compounds--Oxidation

Card 2/2

MAYRANOVSKIY, S.G.; BARASHKOVA, N.V.; ALASHEV, F.D.; ZVORYKINA, V.K.

Polarographic study of N-oxides of anabasine and N-methylanabasine. Izv.AN SSSR Otd.khim.nauk no.5:938-940 My '60.  
(MIRA 13:6)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR.

(Anabasine)

SHKURINA, T.N.; ALASHEV, F.D.; ZVORYKINA, V.K.; GOL'DFARB, Ya.L.

Ultraviolet absorption spectra of some pyridine and nicotine derivatives. Report No.4: Absorption spectra of N-oxides of nicotine and N-methylanabasine. Izv.AN SSSR.Otd.khim.nauk no.6:1119-1123 J1 '60. (MIRA 13:7)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR.

(Pyridine) (Piperidine)

GOL'DFARB, Ya. L.; ALASHEV, F. D.; ZVORYKINA, V. K.

Oxidation of anabasine by hydrogen peroxide. Izv. AN SSSR  
Otd. khim. nauk no.12:2209-2216 D '62.

(MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Anabasine) (Hydrogen peroxide)

MAYRANOVSKIY, S.G.; BARASHKOVA, N.V.; ALASHEV, F.D. (Moscow)

Polarographic behavior of anabasine. Zhur. fiz. khim. 35  
no.2:435-443 F '61. (MIRA 16:7)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.  
(Anabasine) (Polarography)

GOL'DFARB, Ya.L.; ALASHEV, F.D.; ZVORYKINA, V.K. [deceased]

Preparation of anabasine Py-N-oxide. Izv. AN SSSR Ser. khim.  
no.12:2241-2242 D '64 (MIRA 18:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo  
AN SSSR.

MAYRANOVSKIY, S.G.; BARASHKOVA, N.V.; ALASHEV, F.D.

Polarographic study of N-oxide of N-methylpiperidine. Kinetic  
waves of N-oxides. Zhur. fiz. khim. 36 no.3:562-566 Mr '62.

(MIRA 17:8)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR,  
Moskva.



ALAYEV, G.P.

Basic properties of the petrographic microcomponents of the  
energy-producing coals of the Kuznetsk Basin. Khim. i tekhn.  
topl. i masel 9 no.9:40-47 S '64. (MIRA 17:10)

1. Khimiko-metallurgicheskii institut Sibirskogo otdeleniya  
AN SSSR.

BABICHENKO, L.; ALASHEVA, P.; YEVLANOVA, N.

Rapid determination of the quantity of dry ingredients in  
foods. Obshchestv.pit. no.1:21-22 Ja '60.

(MIRA 13:5)

1. Kafedra tekhnologii prigotovleniya pishchi Moskovskogo  
instituta narodnogo khozyaystva im. G.V.Plekhanova.  
(Food--Analysis)

ALASHEYEV, I.T.; KRUCHKOVSKIY, A.K.

Power propelled ventilation housings over shakeout grates.  
Lit. proizv. no.1:16-17 Ja '62. (MIRA 16:8)

(Foundries--Equipment and supplies)

ALASHEYEV, P.Ye., KAPITANENKO, A.M.

Effect of certain hypotensive drugs on the reactivity of the circulatory system [with summary in English]. Farm. i toks 21 no.5: 34-38 S-O '58 (MIRA 11:11)

1. Kafedra farmakologii i farmatsii (nachal'nik - prof. S.Ya. Arbuzov) Voeynno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(CARDIOVASCULAR SYSTEM, effect of drugs on  
hypotensive drugs (Rus))

(BLOOD PRESSURE,  
hypotensive drugs, eff. on cardiovasc. system (Rus))

Alashkevich, M. L.

✓ Vacuum distillation equipment for the separation of materials with high boiling points. E. N. Mar'asov, M. L. Alashkevich, V. I. Mirmanova, and A. P. Shiryayev. *Priroda i Tekhnika*, Experiments 1986, No. 2, 133-8. Two sizes of app. are described which have capacities of 0.22 and 2 l/hr., resp., when operating at a vacuum of  $2 \times 10^{-4}$  mm. They have been used for the concn. of both vitamin A and vitamin E preps. Werner Jacobson

MARTINSON, Ye.N.; ZAKHAROVA, M.P.; ALASHKEVICH, M.L.; KHOKHLOV, I.M.;  
KHOKHLOV, I.M.; SHIRYAYEV, A.G.; KASTORNYKH, M.S.

Obtaining vitamin E concentrates by means of high-vacuum distil-  
lation. Trudy VNIVI 6:75-81 '59. (MIRA 13:7)  
(DISTILLATION) (TOCOPHEROL)

S/661/61/000/006/036/031  
D202/D302

AUTHORS: Alashkevich, M. L., Leznov, N. S., Yumakova, A. Ye. and  
Andrianov, K. A.

TITLE: Physico-mechanical properties of linear polydiethylsi-  
loxanes

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh  
soyedineniy; trudy konferentsii. no. 6: Doklady, diskus-  
sii, resheniye. II Vses. konfer. po khimii i prakt. prim.  
kremneorg. soyed., Len., 1958. Leningrad, Izd-vo AN SSSR,  
1961, 171-172

TEXT: A supplement to a previous report in no. 2, p. 20, of this  
publication. The authors compare the properties of polymethyl-phe-  
nyl-siloxanes with those of polydiethyl-siloxanes used as high-vac-  
uum pump fluids. No experimental details are given. It was found  
that the first compounds have marked advantages over the second,  
although cyclic polymers, formed during their synthesis, unfavorab-  
ly affect the thermal stability of both.

Card 1/1

S/081/62/000/017/077/102  
B156/B186

AUTHORS: Alashkevich, M. L., Rodzayevskaya, V. D.

TITLE: The BM-6 (VM-6) oil for mechanical vacuum pumps

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 477, abstract  
17M206 (Novosti neft. i gaz. tekhn. Neftepererabotka i  
neftekhimiya, no. 12, 1961, 9 - 14)

TEXT: A fluid for mechanical pumps, named VM-6 oil, has been produced by vacuum distillation from the same raw material as is used for the BM-4 (VM-4) oil (ГОСТ 7903-56 (GOST 7903-56)), the appropriate distillate being separated. The VM-6 has high stability to oxidation (2 - 4 times that of the VM-4 oil) and also a more uniform fractional composition, while at low temperatures above zero its viscosity is only half that of the VM-4 oil. When the VM-6 oil is used in a BM-461M (VN-461M) pump, the deepest vacuum, according to the residual gases, is  $1 - 5 \cdot 10^{-4}$  mm Hg. Any commercial product in the group of industrial oils produced from Caucasus and Eastern petroleums can be used making it. [Abstracter's note: Complete translation.] ✓

Card 1/1



LANIS, Viktor Anatol'yevich; LEVINA, Lyubov' Yefimovna. Prinimali  
uchastiye: KARPOV, V.I.; TAMARKIN, M.Z.; ALASHKEVICH, M.L.;  
MENSHIKOV, M.I., red.; LARIONOV, G.Ye., ~~tekhn.~~ red.

[Technology of vacuum testing] Tekhnika vakuumnykh ispytaniy.  
Pod obshchei red. M.I. Men'shikova. Moskva, Gosenergoizdat,  
1963. 262 p. (MIRA 16:7)  
(Vacuum technology) (Nondestructive testing)

GROMOVA, L.G.; SHEKHOYAN, L.S.; KONDRAT'YEV, V.M.; ALASHKEVICH, M.L.

BM-7 oil for high-vacuum pumps. Nefteper. i neftekhim.  
no.2:8-10 '63. (MIRA 17:1)

1. Moskovskiy neftemaslozavod.

ACC NR: AP7001954 (A) SOURCE CODE: UR/0120/66/000/006/0157/0160

AUTHOR: Alashkevich, M. L.; Mirimanova, V. I.

ORG: none

TITLE: Attaining a  $10^{-9}$ -torr vacuum with polyphenyl-ester steam-ejector pumps without refrigerated trap

SOURCE: Pribery i tekhnika eksperimenta, no. 6, 1966, 157-160

TOPIC TAGS: diffusion pump, high vacuum pump, vacuum ejector pump

ABSTRACT: The results are reported of studying some physico-chemical and vacuum characteristics of mixtures of isomers of a pentacyclic polyphenyl ester synthesized in the All-Union Scientific Research Institute of Petroleum Refining. The esters were tested in a 3-stage Soviet-made N-1S-2 metal pump and in a 3-stage glass pump (hookups shown). After 70-hr heating at 400C and subsequent

Card 1/2

UDC: 621.527.5

ACC NR: AP7001954

cooling down to room temperature, the metal pump attained a vacuum of  $6 \times 10^{-9}$  torr and the glass pump,  $3 \times 10^{-9}$  torr in 6-8 hrs without using refrigerated traps; liquid-nitrogen traps reduced the residual pressure to one-half. The above experiments showed that the pentacyclic-polyphenyl-ester mixtures yield the same degree of vacuum ( $10^{-9}$  torr) as does the mixture investigated by K. C. D. Hickman (Trans. 8th Natl. Vac. Symp., Oct 61; US Patent 924784, 1963) or the commercial Convalex-10 stuff. "In conclusion, the authors wish to thank Yu. I. Turskiy, G. V. Klyuchko, and S. I. Chernaya for lending the ester samples, and also A. P. Averin for his valuable advice." Orig. art. has: 5 figures and 3 tables.

SUB CODE: 07, 20 / SUBM DATE: 20Dec65 / ORIG REF: 001 / OTH REF: 006

Card 2/2

LEVASHOV, A.A.; ALASHKIN, A.Ya.

Testing the method of inducing infectious anemia in horses by atropine.  
and adrenaline. Veterinariia 32 no.7:50-53 J1 '55. (MLRA 8:9)  
(ANEMIA, EQUINE INFECTIOUS) (ADRENALINE) (ATROPINE)

ALASKEROVA, Zamilia Selim

Equipment of laboratories in petroleum refining plants. Baku, Gos. nauchro-tekhn.  
izd-vo neftianoi i gorno-top-livnoi lit-ry, Azerbaidzhanskoe otd-nie, 1954. 333 p.  
(55-44394)

QD53.A4

1. Chemical laboratories. 2. Petroleum - Refining.

ACC NR: AP6006379

INVENTOR: Alasoo, A. Kh.-G.

ORG: none

SOURCE CODE: UR/0413/66/000/002:0114/0114

35  
B

TITLE: Device with two stable states. Class 42, No. 178163 [announced by the Tartu Instrument-Making Plant (Tartuskiy priborostroitel'nyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 114

TOPIC TAGS: electronic device, electronic circuit, transistorized circuit

ABSTRACT: The proposed device contains a transistorized master oscillator and amplifier and an indicator. To simplify indication, a resistor shunted by a capacitance and connected through a divider to the amplifier transistor base is linked to the collector circuit of the master oscillator transistor. The collector of the amplifier

Card 1/2

UDC: 681.142.07

2

L 17691-66

ACC NR: AP6006379

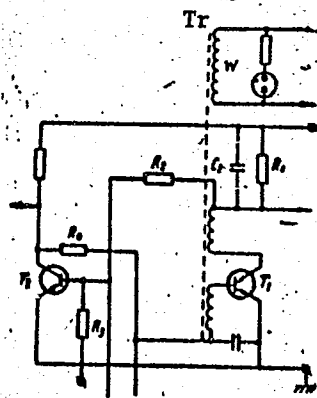


Fig. 1. Device with two stable states

Tr - Transformer;  $T_1$  - master oscillator transistor;  $R_1$  - resistor;  $C_1$  - capacitance;  $R_2$  and  $R_3$  - divider;  $T_2$  - amplifier transistor;  $R_4$  - resistor; W - secondary transformer winding.

transistor is connected to the base circuit of the master oscillator transistor through the divider, while the indicator is connected to the secondary winding of the master oscillator transformer. A schematic is shown in Fig. 1. Orig. art. has: 1 figure.

[DW]

SUB CODE: 09/ SUBM DATE: 04Nov64/ ATD PRESS: 4209

Card 2/25



ALASYUK, G. Ya., inzh.; KUCHERYAVENKO, Ye. Ye., inzh.; MINTS, V.B., inzh.;  
NOVITSKIY, A. Ye., inzh.

Reinforced panels for hydraulic structures. Trudy Inst. Orgenergostroi  
no.1:94-131 '59. (MIRA 14:3)  
(Hydraulic structures) (Concrete panels)

ALATORTSEV, P. I.

USSR/Miscellaneous - Communications

Card 1/1 Pub. 133 - 14/24

Authors : Bazhanov, A. P., and Alatorstev, P. I.

Title : Postal and telegraph services for settlers of new regions

Periodical : Vest. svyazi 6, 24-25, June 1954

Abstract : The establishment of mechanized postal and telegraph services for far-off new farming settlements in the Kazakh-SSR and Bashkir-ASSR is described. The construction of 10 independent radio-transmitting and relay stations to serve the new settlements is anticipated. Illustrations.

Institution : The Ministry of Communications, USSR

Submitted : ...

ALATORTSEV, S. A.

PA 18T62

USSR/Mines and Mining - Equipment  
Excavating Machinery

Jul 1947

"Index of Specific Power and Calculation of a Co-efficient for Electric Single-shovel Excavators,"  
S. A. Alatortsev, 5 pp

"Gornyy Zhurnal" Vol CXXI, No 7

Formula and graph curves of specific power of various drives (Leonard system, three-phase current system) for mining excavators. Shkoda Model E-2 and Marion Model 4160 excavators are used as examples to illustrate formula.

18T62

APR 1948

SR/Mines and Mining  
Mining Methods  
Electrification  
Regularities of Mining Specifications Which Influence  
the Technology of Electrification of Open Working,"

S. A. Alatorstev, 5 pp

"Gor Zhur" No 4  
Specific mining conditions influence to large degree  
the electric power distribution system both for elec-

66198

trical equipment and for the lighting system in the  
pit mines. These conditions are reflected in the  
methods and technology of calculating the power loads,

APR 1948

IC  
USSR/Mines and Mining (Cont'd)  
transformer capacities, etc., in connection with the  
operating schedule of the mining equipment. Dis-

cusses problem in detail.

66198

ALATORSTEV, S. A.

12

ALOTORTSEV, S. A.  
25520

O Proektirovanii Raspredelite-l'nykh Setey Na Torfopredpriyatiyakh. Torf.  
Prom-STB., 1948 No. 7, s. 17-20

SO: LETOPIS NO. 30, 1948

ALATORTSEV, S. A.

39334. O zakone ernosti gornoy tekhnologii obkrytykh raket v rudnichnom energoras-  
predelenii mestnogo znacheniya. - v ogli a.s. (!) Alatortsev. Zariaki Leningr.  
Gornogo in-ta, t. xxiii, 1949, s. 69-118

G. Dobycha Goryuchikh Iskopaemykh

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

ALAFORTSEV, S. A.

Utilization of electric energy in open-pit mining. Leningrad, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1950. 474 p. (51-19410)

TN343.A4

ALATCETSEV, S. A.

(Manual on power supply for a strip coal mine) Moskva, Ugletekhizdat, 1951.  
(Mic 53-850) Collation of the original: 138 p.

Microfilm T-14

1. Strip mining. I. Rys'ev, A.V.



ALATORTSEV, S.A.

ALATORTSEV, S.A., LOMAKIN, S.M., redaktor; BYKHOVSKAYA, S.N., redaktor.

[Mining applications of electrical engineering] Gornaya elektro-  
tekhnika. Izd. 2-e. Moskva, Ugletekhnizdat, 1954. 366 p. (MLRA 7:7)  
(Electricity in mining) (Mining engineering)

ALATORTSEV, S.A.; GLADILIN, L.V.; MAKSIMOV, A.Ye.; RYS'YEV, A.V.

Proceedings of the scientific conference on problems of electric  
power supply, electrification and automatization in mining. Gor.  
zhur. no.5:61-62 My '56. (MLRA 9:8)  
(Electricity in mining)

YELANCHIK, G.M.; ALATORTSEV, S.A.; GLADILIN, L.V.; RYS'YEV, A.V.;  
OZERNOY, M.I.; POKROVSKIY, G.I.

F.N. Shkliarskii; obituary. Elektrichestvo no.5:95 My '56.  
(MLRA 9:8)  
(Shkliarskii, Feliks Nikolaevich, 1883-1955)

ALATORTSEV, S.A.

Feliks Nikolaevich Shkliarskii, 1883-1955. Zap. Len. gor. inst.  
34 no.1:3-8 '57. (MLRA 10:9)  
(Shkliarskii, Feliks Nikolaevich, 1883-1955)

ALATORTSEV, S.A., prof.; POKROVSKIY, G.I., dotsent

Equipment, organization, and field of research of the automatic and remote control laboratory for mining engineering in the Department of Electricity in Mining at the Leningrad Mining Institute. Izv.vys.ucheb.zav.; gor.zhur. no.4:139-146 '59.  
(MIRA 13:5)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy gornoy elektrotekhniki.  
(Mining engineering) (Automatic control)

AUTHORS: <sup>SOV/144-59-6-14/15</sup>  
~~Alatortsev, S.A.~~, Doctor of Technical Sciences, Professor,  
and ~~Rokossovskiy, G.I.~~, Docent

TITLE: The Laboratory of Automatics and Telemechanics in Mining  
of the Leningrad Mining Institute

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,  
1959, Nr 6, pp 104 - 109 (USSR)

ABSTRACT: This laboratory, which has recently been organised,  
covers a floor space of 270 m<sup>2</sup>; the general layout is  
given in Figure 1 and a schematic diagram of the electric-  
power supply in Figure 2. The principal equipment in  
the laboratory is listed.  
The main object of the work in the laboratory is to  
solve important problems in the integrated automation  
of mining. In making use of automation experience from  
other fields, it is essential to take account of the  
special features of mining. The main object is to develop  
methods of automatic and remote control that are simple  
and reliable under mining conditions.  
The organisation of research in the laboratory is described

Card1/3

SOV/144-59-6-14/15

The Laboratory of Automatics and Telemechanics in Mining of the  
Leningrad Mining Institute

and an outline is given of the typical course of a theme  
from its initiation to its introduction into mining  
practice.

The principal themes of research work in 1957-1958 were  
as follows. An electro-magnetic slip coupling in auto-  
matic winding. Automatic control of the adhesion of an  
underground locomotive by magnetising the wheels.  
Signalling from a moving hoist and control of a winder.  
Automatic voltage control in underground supply systems.  
Control and telecontrol of electrical drive in ore mines.  
A rational scheme for the automatic control of a winder,  
using the Ward-Leonard system. A scheme for the automatic  
control of the drive of a single-scoop excavator on the  
Ward-Leonard system, using a single-winding exciter-  
regulator. Automatic control of the principal mechanisms  
in a multi-bucket drag. Automatic monitoring of the  
insulation in three-phase mining systems. A mining  
electric megaphone.

Card2/3

SOV/144-59-6-14/15

The Laboratory of Automatics and Telemechanics in Mining of the  
Leningrad Mining Institute

A table gives a general characterisation of the  
scientific activity of the laboratory during the period  
from March, 1957, to December, 1958.

There are 2 figures and 1 table.

ASSOCIATIONS: Kafedra gornoy elektrotekhniki, Leningradskiy gornyy  
institut (Chair of Mining Electro-technology, Leningrad  
Mining Institute, - Alatortsev)  
Laboratoriya avtomatiki i telemekhaniki, Leningradskiy  
gornyy institut (Laboratory of Automation and Telemechanics,  
Leningrad Mining Institute, - Pokrovskiy)

Card 3/3



ALATORTSEV, S.A., prof., doktor tekhn.nauk; ANDREYEV, A.V., kand.tekhn.nauk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; BELOUSOV, V.G., inzh.; VINNITSKIY, K.Ye., kand.tekhn.nauk; VLASOV, V.M., inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.; GLUZMAN, I.S., kand.tekhn.nauk; GUR'YEV, S.V., kand.tekhn.nauk [deceased]; DEMIN, A.M., kand.tekhn.nauk; YEGURNOV, G.P., kand.tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn.nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk; KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand.tekhn.nauk; MAZUROK, S.F., inzh.; MEL'NIKOV, N.V.; MUDRIK, N.G., inzh.; NIKONOV, G.P., kand.tekhn.nauk; ORLOV, Ye.I., inzh.; POTAPOV, M.G., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.; RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kand.tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.; SOROKIN, V.I., inzh.; STASYUK, V.N., kand.tekhn.nauk; STAKHEVICH, Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.; TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand.tekhn.nauk; FURMANOV, B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor tekhn.nauk; TERPIGOREV, A.M., glavnyy red. [deceased];

(Continued on next card)

ALATORTSEV, S.A.---(continued) Card 2.

KIT, I.K., zamestitel' glavnogo red.; SHESHKO, Ye.F., zamestitel' otv.red.; BUGOSLAVSKIY, Yu.K., red.; BYKHOVSKAYA, S.N., red.; DIONIS'YEV, A.I., kand.tekhn.nauk, red.; KOZIN, Yu.V., red.; SOKOLOVSKIY, M.M., red.; YASTREBOV, A.I., red.; DEMIDYUK, G.P., kand.tekhn.nauk, red.; KRIVSKIY, M.N., kand.tekhn.nauk, red.; LYUBIMOV, B.N., inzh., red.; MOLOKANOV, P.L., inzh., red.; REISH, A.K., inzh., red.; RODIONOV, L.Ye., kand.tekhn.nauk, red.; SLAVUTSKIY, S.O., inzh., red.; TRAKHMAN, A.I., inzh., red.; TRYHOVSKIY, L.G., inzh., red.; FIDELEV, A.S., doktor tekhn.nauk, red.; SHUKHOV, A.N., kand.tekhn.nauk, red.; TER-IZRAEL'YAN, T.G., red. izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

(Continued on next card)

ALAFORTSEV, S.A.---(continued) Card 3.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklopedicheski spravochnik. Glav.red.A.M.Terpigorav. Chleny glav. red.A.I.Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.10. [Mining coal deposits by the open-cut method.] Razrabotka ugol'nykh mestorozhdenii otkrytym sposobom. Redkollegia toma; N.V.Mel'nikov i dr. 1960. 625 p.  
(MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Mel'nikov).  
(Coal mines and mining) (Strip mining)

ALATORTSEV, A.I., prof.; Khar'kov, V.P., doctor

Voltage quality of asynchronous electric motors in underground workings. Izv. vys. ucheb. zav.; gor. zhur. 8 no.1:96-101 '65.  
(MIRA 18:3)

1. Leningradskiy ordena lenina i ordena Trudovogo Krasnogo Znani gornyy institut imeni G.V. Plekhanova (for Alatortsev).
2. Kemerovskiy gornyy institut (for Kharav'gev).

L 16458-66

ACC NR: AP6009075

SOURCE CODE: UR/0105/65/000/004/0094/0094

AUTHOR: Alatortsev, S. A.; Blazhkin, A. T.; Gladilin, L. V.; Ivanov, A. A.;  
Leybov, A. M.; Ozernev, M. I.; Pirotskiy, P. P.; Rengevich, A. A.; Rozenman, Ye. A.;  
Rys'yev, A. V.; Tulin, V. S.; Trop, A. Ye.

ORG: none

TITLE: Professor S. A. Volotkovskiy

SOURCE: Elektrichestvo, no. 4, 1965, 94

TOPIC TAGS: electric engineering personnel, mining engineering

ABSTRACT: In this salute to Prof. Volotkovskiy on his 60th birthday, the dozen signers of the article state that he, as head of the department of electrification of mining operations and industrial enterprises of the Dnepropetrovsk mining institute, has been a leader in the electrification and modernization of mining processes. In the field since 1920, Sergey Andronikovich completed his studies in the Dnepropetrovsk mining institute. He worked in the institute from 1930-1941. He became a doctor of technical sciences and professor in 1950, while at the Sverdlovsk mining institute. He returned to the Dnepropetrovsk mining institute in 1959. A member of the party since 1927, he has published over 130 works. Orig. art. has: 1 figure.

[JPRS]  
 SUB CODE: 08, 09 / SUBM DATE: none  
 Card 1/1mc

UDC: 622:621.311.002,5

33  
B

Z

*ALATORTSEV, YE. G.*

99-6-1/9

AUTHOR: Chernykh, A.A., Candidate of Mechanical Sciences and Alatortsev, E.G., Candidate of Mechanical Sciences

TITLE: Complex Utilization of Run-Off Water on the Kolkhoz Imeni Kalinin, Saratovskaya Oblast. (Kompleksnoye Ispol'sovanie Stoka v Kolkhoze Imeni Kalinina, Saratovskoy Oblasti)

PERIODICAL: "Gidrotekhnika i Melioratsiya" 1957, No 6, pp 3-10, (USSR)

ABSTRACT: Conservation and use of run-off water in the arid south-eastern territories is of great importance for farming. The Dergachev Machine Tractor Station of the Saratov Oblast together with the Kolkhoz Imeni Kalinin carried out a complex utilization of run-off water, in which the following points were taken into consideration: 1. Reducing of run-off water and retaining of snow by means of deep contour plowing in connection with plowing of parallel flat ridges. 2. Construction of dams for regular irrigation. 3. Building of dams for flooding of estuaries (liman). These water conservation measures increased the yields considerably, reduced soil erosion and were inexpensive as compared with large scale irrigation projects. Water for irrigation purposes will be siphoned out of the reservoirs.

Card 1/2

ALATORTSEV, Ye. K.

"Method of Building Earth Structure Slopes With a Profile of Uniform  
Stability," Gidr. i Mel., 4, No.7, 1962

ALATORTSEV, YE. K.

USSR/Engineering - Hydraulics, Slopes

Sep 52

"Graphical Calculation of the Stability of Earth  
Slopes," Engr Ye. K. Alatortsev

gidrotekh i Meliorats, No 9, pp 25-28

Presents nomogram which expresses widely used formula developed by Prof M. N. Gol'dshteyn for calculation of stability of slopes. Nomogram eliminates considerable calculation and permits quick determination of values for stability coefficient of slopes, and limits for their height and width.

247T45



ALATORTSEV, Ye.K.

Calculating the stability of slopes. Gidr.stroi. 22 no.8:25-26 Ag '53.  
(MLRA 6:8)  
(Dams)

ALIMORTSEV, YE. K.

Dissertation: "Statistical Calculations of Earth Structures." Cand Tech Sci, Moscow  
Inst of Engineers of Water Economy imeni V. I. Vil'yans, 26 Apr 54. (Vechernyaya  
Moskva, Moscow, 14 Apr 54)

SO: SUM 243, 19 Oct 1954

30(1)

SOV/99-59-8-3/10

AUTHOR:

Alatortsev, Ye.K., Candidate of Technical Sciences

TITLE:

Light Water Outlet for Irrigation System with Distribution Pipelines

PERIODICAL:

Gidrotekhnika i melioratsiya, 1959, Nr 8, pp 18-21 (USSR)

ABSTRACT:

Already in 1959 a decision was made to begin the construction of an irrigation system for a surface of 6,500 ha in order to supply enough fruit to the population of Saratov and Engel's. Planned is an open canal. In order to eliminate the loss of water (filtration coefficient 0.345 m/24 hrs) the walls of the canal should be rolled. The preliminary calculation proved that the savings of water will be higher if the filtering (suggestion by Professor V.A. Shaumyan) is conducted through concrete layers or pipelines. The water of the river Volga will be utilized. The system starts with metal pipes (1.5 kms long and with a diameter of 350 mm) leading up to the water storage basin, then followed by asbestos cement pipes in a length of 10 kms, etc. This system, however, has various disadvantages. The Melioration

Card 1/2

SOV/99-59-8-3/10

Light Water Outlet for Irrigation System with Distribution Pipelines

Research Institute at Engel's designed a better and far simpler system in 1958. A drawing illustrates the water way (according to the principle of G.A. Petrov concerning water pressure). A table shows the loss of water in the case of both systems. The system suggested by the Institute can be carried out without the utilization of wood and concrete, it is cheaper and the technical equipment can be built with local materials in local workshops. There are 2 drawings, 1 photograph and 1 table.

ASSOCIATION: Engel'sskaya opytno-meliorativnaya stantsiya (Experimental Station for Melioration, Engel's)

Card 2/2

PETROV, Ye.G., kand.sel'skokhozyaystvennykh nauk; CHERNYKH, A.A., kand.  
tekhn.nauk, ALATOR'TSEV, Ye.K., kand.tekhn.nauk

Measures for utilizing snow-water runoff in the agriculture of  
the steppe zone; work practices of the Dergachi Machine-Tractor  
Station. Trudy VNIIGIM 32:29-35 '59. (MIRA 13:8)  
(Saratov Province--Irrigation)

AIATORTSEV, Ye.K., kand.tekhn.nauk

Construction of ponds with a total runoff storage capacity in the trans-Volga region. Gidr. i mel. 12 no.4:3-11 Ap '60. (MIRA 13:9)

1. Engel'skaya opytno-meliorativnaya stantsiya.  
(Saratov Province---Farm ponds)

ALATYREV, A.K., inzh.

New rotary dust collector. Bezop.truda v prom. 3 no.5:29-30  
My '59. (MIRA 12:8)

1. Nachal'nik otдела TSentral'nogo byuro tekhnicheskoy informatsii  
Stalinskogo sovnarkhoza.  
(Dust collectors)

ALATYREV, A. <

New method of dust collection during cutter-loader operations.  
Mast ugl. 8 no.5:14 My '59. (MIRA 12:8)

1.Dom tekhniki Stalinskogo sovnarkhoza.  
(Dust collectors) (Coal mining machinery)



ALATYREV, A.K.

Differential, leakage relay. Ugol'.prom. no.3:78-79 My-Je 1(2.  
(MIRA 18:3)

ALATYREV, V.I.; ZEFIROV, L.N.

Effect of acetylcholine metabolism disorders on the dynamics of threshold cathodic parabiosis and functional resistance of a nerve trunk. Biul. eksp. biol. i med. 55 no.3:6-10 Mr '63.

(MIRA 18:2)

1. Iz kafedry normal'noy fiziologii (zav. - prof. I.N. Volkova) Kazanskogo meditsinskogo instituta. Submitted April 9, 1962.

ALATYREV, V.I.; ZEFIROV, L.N.

Effect of diplacin on the phasic and tonic activity of the neuro-muscular apparatus in frogs. Nauch. trudy Kaz. gos. med. inst. 14:71-72 '64. (MIRA 18:9)

1. Kafedra fiziologii (zav. - prof. I.N.Volkova) Kazanskogo meditsinskogo instituta.

L 13078-63

EWT(d)/EWT(1)/FCC(w)/EEG(b)-2/BDS AFFTC/ASD/ESD-3/RADC/

APGC Pg-4/Fk-4/Pl-4/Pm-4/Po-4/Pq-4 GG/IJP(C)

ACCESSION NR: AP3001545

S/0028/63/000/005/0018/0022

AUTHOR: Alaty\*rtsev, A. A.

86

16C  
TITLE: Application of linear programming method to the solution of reliability theory problems

SOURCE: Standartizatsiya, no. 5, 1963, 18-22

TOPIC TAGS: linear programming, computer, reliability, computer unit reliability, optimal reservation problem

ABSTRACT: The reliability of computers has been reduced with the increased complexity of the computer itself and more limited time for research and development. Reliability, like any other qualitative index, must have a quantitative criterion which can be used in evaluating design, production, and operation. Linear programming methods may be used to determine quantitative reliability requirements for computer units with a given reliability requirement for the computer as a whole and also to solve optimal reservation problems. In determining reliability requirements of a unit, its complexity, special construction features, and its role in the overall system should be considered. Thus, reliability for each unit of an entire  
Card 1/5

L 13078-63

ACCESSION NR: AP3001545

0  
system is not equally important. Based on these considerations, the author presents a flow sheet of a linear programming method for determining the reliability requirements of units and problems of optimal reservation. The flow sheet is given in the Enclosure. Orig. art. has: 18 equations, 3 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 19Jun63

ENCL: 03

SUB CODE: CP

NO REF SOV: 002

OTHER: 000

Card 2/52

ALATYRTSEV, B.N.

Device for determining the ohmic resistance of the strands of underground centralized traffic control and communication cables at different soil temperatures. Avtom., telem. i sviaz' 9 no.11:38 N '65. (MIRA 18:12)

1. Starshiy elektromekhanik kontrol'no-ispytatel'nogo punkta Moskovsko-Smolenskoj distantsii Moskovskoy dorogi.

10325  
S/194/62/000/006/101/232  
D288/D308

26.2532

AUTHORS: Alatyrtsev, G.A., and Maleyskiy, Yu.N.

TITLE: Commutation of thermo-elements based on Pb-Te and  
 $\text{Bi}_2\text{Te}_3 - \text{Sb}_2\text{Te}_3$

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 6, 1962, abstract 6-4-41 i (V sb. Teploenergetika,  
no. 3, M., AN SSSR, 1961, 61-67)

TEXT: Semiconductor alloys were prepared by alloying components in  
evacuated quartz ampoules at 700 - 1000°C. Max value of  $\alpha^2\sigma$  for  
 $\text{Bi}_2\text{Te}_3 - \text{Sb}_2\text{Te}_3$  is in the region of 70 %  $\text{Sb}_2\text{Te}_3$ . To improve junc-  
tion properties crystalline iodine was added: presence of 0.1 % I  
results in  $\alpha^2\sigma = 40 \cdot 10^{-6} \text{ W/deg.cm}^2$ . Max. value of Z for an increase  
 $\Delta T$  is  $Z_{\text{max}} = 2.5 \cdot 10^{-3} \text{ 1/deg}$ . For PbTe and increasing  $\Delta T$ ,  $Z_{\text{max}} =$   
 $= 2.1 \cdot 10^{-3} \text{ 1/deg}$ . Materials used for commutation: constantan, pla-  
tinum, nickel wires and NiBi alloy. Specimens for measuring the con-  
tact potential between metal and semiconductor were prepared by com-  
Card 1/3

Commutation of thermo-elements ...

S/194/62/000/006/101/252  
D288/D308

pressing powders of corresponding alloys. At the same time 2 twisted wires of 0.2 mm dia. were inserted into the specimen. One wire end introduces current, the other serves as a potential probe. Specimens for the measurement of junction resistances between semiconductor and commutation alloy were prepared in a pressing mould, the thickness of the commutation alloy being 2 mm. Measurements were performed with a.c. by the potentiometer method  $U_2 - U_1/I =$  contact resistance. Junction resistance commutation alloy-semiconductor and semiconductor-semiconductor was measured by the compensation method with a.c. current. One potential probe was fixed at the edge of the specimen; the other was moved by means of a micrometer along the specimen across the contact edges. Various types of commutation were investigated: by metallic connection, wire, pressing, pressing-on of the alloy, with or without changing the cross-section of the PbTe electrode from rectangular to ellipsoid in order to increase the mechanical strength of PbTe. A cylindrical thermo-element with concentrically arranged electrodes was prepared in order to decrease thermal stresses and transversal temperature gradient in PbTe. Measurements of contact resistances have

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Commutation of thermo-elements ...

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shown that: 1. The lowest resistance of  $2 \cdot 10^{-5}$  ohm·cm<sup>2</sup> is obtained with a contact of Ni, tinned with an alloy of 10 % Sb and 90 % Sn. The contact is destroyed at 300 - 350°C and can be used for cold junctions only. 2. The PbTe alloy has poor mechanical strength, which cannot be improved by changes in pressing procedure, thermal treatment or choice of electrode shape. 3. A direct PbTe and Bi<sub>2</sub>Te<sub>3</sub> - Sb<sub>2</sub>Te<sub>3</sub> contact is thermally unstable. 4. Commutation achieved by pressing BiNo + Ni powder onto the electrodes had a junction resistance of under  $10^{-7}$  ohm·cm<sup>2</sup>, which remained stable for 100 hours at 300°C. 3 references. [Abstracter's note: Complete translation.] ✓

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E035/E420

A ten watt solar thermogenerator

for the thermoelements of the battery, to ensure a stable contact of the thermoelement with the cooling fin, to construct a sealed cooling fin for thermal dissipation by water and to obtain the greatest packing coefficient for heating the thermoelement area. The cold ends of the thermoelements were stuck on to the cooling fins by means of a cement EQ-2 (BF-2) which was loaded with aluminium powder to improve its thermal conductivity. With a thermal flux of  $20000 \text{ kcal/m}^2 \text{ h}$  the temperature drop across the cement layer did not exceed  $30^\circ\text{C}$ . The thermogenerator consisted of 12 rows of thermoelements. The average temperature of the hot junctions obtained were close to the calculated ones although the temperature distribution was not uniform. Current voltage characteristics were measured for different resistive loads and it was shown that the maximum power yield would be obtained with an external load of  $\sim 4\Omega$ . The power and temperature difference increased with  $Q_p$  and attained a value of  $10.2 \text{ W}$  and  $180^\circ\text{C}$  at  $Q_p = 760 \text{ kcal/m}^2 \text{ h}$  which agreed well with the calculated value. It is shown that the efficiency of the separate units  $\eta_T$  is about twice that of the complete solar generator  $\eta_c$  due to

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absorption of energy by the concentrator, self radiation, convection and reflection from the thermobattery. It should be noted that the thermoelectric generator power during a 100 h test hardly varied. A series of experiments of the operation of a solar thermogenerator under dynamic conditions was also carried out. Maximum thermogenerator power was attained after 7 min from the time of heating although even after 2 to 3 min the magnitude of the power was only 8% below maximum. This is due to the small inertia of the solar generator and allows it to operate successfully under varying cloudy conditions. The power was sharply reduced on cooling and after a minute dropped almost by half. This is also due to the small inertia of the system. There are 15 figures and 8 references; 6 Soviet-bloc and 2 non-Soviet-bloc. The reference to an English language publication reads as follows: Ref. 6: Selent K. Thermoelectricity Electronic Industries, no. 7, 1959.

Card 3/3

ZASLAVSKIY, I.I.; BLYAKHMAN, L.I.; ALATYRTSEV, L.A.

Self-adjusting system for the automatic determination  
of optimum conditions for the operation of rectification  
columns. Khim.prom. no.3:227-233 Apr '60.

(MIRA 13:8)

(Distillation apparatus)

(Automatic control)

ALATYRTSEY L. A.

ZASZLAVSZKIJ, I. I. [Zaslavskiy, L. I.] (USSR); BLJARMAN, L. I. [Blyakhman, L. I.] (USSR); ALATURGEV, L. A. [Alaturtsev, L. A.] (USSR)

Automatic determination of the optimum separation conditions of a rectifying column by means of self-aligning system. Magy kem lap 16 no.3: 115-121 Mr '61.

ALATYRTSEV, V. I., Engr

PA 26/49THO

USSR/Engineering  
Metallurgical Plant  
Smokestack

Jan 49

"Rectification of 70-Meter Brick Smoke Pipes,"  
V. I. Alatyrtsev, Engr, Soyuzteplotstroy, 4 pp

"Stroitel' Prom" No 1

In 1931-32, four hot blast furnaces and a 70-meter smokestack were installed at Kriivorog Metal Factory. Three furnaces and the stack were on the same foundation, which unfortunately settled after the structure was erected. Describes measures taken to straighten the stack, which was

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USSR/Engineering (Contd)

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beginning to list dangerously. The installation was built according to plans originally submitted by US engineers of the Freyn Eng Co.

26/49THO

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ZHUKOV, G.A., inzhener; ALATYRTSEVA, I.N., inzhener.

Introducing a new dye for coat sheepskin. Leg.prom. 14 no.11:21-25  
N '54. (MIRA 7:12)

(Dyes and dyeing--Leather)

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New dyes for leather. Kozh.-obuv.prom. 3 no.11:26-28 'N '61.

(MIRA 15:1)

(Dyes and dyeing--Leather)



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30989. ALATYRTSEVA, I. YE.

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