

YERGALIYEV, A.Ye.; SHESTAKOV, V.A.

有关的,但是是国际的政治,所以为政治的国际的国际的国际的国际,所以为政治的国际的政治的国际,但是对政治的政治的政治的。 第一章

Valuation of deposits and selection of certain mining parameters with consideration of the time factor. Trudy Alt. GMNII AN Kazakh. SSR no.7:66-81 158. (MIRA 12:7)

(Mine valuation) (Mining engineering)

Shestakov, V.A.

Some of the problems involved in improving the technology of mining operations in the sublevel caving systems. Trudy Alt. GMNII AN Kazakh. SSR no.7:140-153 '58. (MIRA 12:7) (Mining engineering)

SHUPIKOV, V.A.; SHESTAKOV, V.A.; YALYMOV, N.G.; YAKOVIEV, M.A.

Shrinkage stoping system at the Aktyuz Mine and its efficiency.

[Strinkage stoping system at the Aktyuz Mine and its efficiency.

[Aktyuz region—Stoping (Mining))

[Aktyuz region—Stoping (Mining)]

SHESTAKOV, V.A.

Selecting on an over-all basis parameters for breaking and drawing from blocks in large-scale caving systems with passage to larger prepared sizes. Izv. AN Kir. SER. Ser. est. 1 tekh. nauk 2 no.6: 39.47 160.

(Nonferrous metals)

(Ore dressing)

SHESTAKOV, V.A.

Determining depletion and ore recovery in block caving systems.

Izv. AN Kir. SSR. Ser. est. i tekh. nauk 2 nc.9:49-62 160.

(MIRA 13:12)

(Mining engineering)

SHESTAKOV, V.A.; BARANOV, Ye.G., red.; SEMIKINA, T.F., red.izd-va; ANOKHINA, M.G., tekhn.red.

[Investigating the breaking and the drawing of ore from blocks in forced top-caving systems] Issledovanie otboiki i vypuska rudy iz blokov pri sisteme etazhnogo prinuditel nogo obrusheniia. Frunze, Akad.nauk Kirgizskoi SSR, Otdel gornogo dela i metallurgii, 1960. 129 p. (MIRA 13:12)

(Mining engineering)

SHESTAKOV, V.A.

Calculation of the charge of coking coals according to data of their petrographic composition. Trudy Tadzh.gos.un. 28 no.1:31-34 *60. (MIRA 15:1)

(Coal -- Carbonization)

DMITREVSKIY, Semen Mikhaylovich, dots.; SHESTAKOV, Vadim Arkad yevich, dots.; SHNEYDER, Anatoliy Ivanovich, dots.; FEDOSEYEV, P.D., red.; KONARDOVA, T.F., red. izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Current maintenance of logging roads] Tekushchee soderzhanie lesovoznykh avtomobil'nykh dorog. Moskva, Goslesbumizdat, 1961. 73 p. (MIRA 15:4) (Forest roads--Maintenance and repair)

Boring holes with BA-100 pneumatic pergussion drills. Trudy Alt.

CMNII AN Kazakh. SSR 10:89-94 *61. (MIRA 14:9)

(Boring machinery--Pneumatic driving)

SHESTAKOV, V.A., kand.tekhn.nauk

Problems in increasing mining efficiency under a system of forced sublevel caving in Altai mines. Vest.AN Kazakh.SSR 17 no.1:22-28 Ja '61. (MIRA 14:1)

(Altai Mountains -- Mining engineering)

SHESTAKOV, V.I.

Biology of the mosquito Aëdes togoi Theob. Zool. zhur. 40 no. 2:284-285 F '61. (MIRA 14'2)

1. 178th Sanitary Epidemiological Laboratory (Marine Territory, Khasan District, Settlement Zarubino).

(Maritima Territory---Mosquitoes)

SHESTAKOV, V.A.; YALYMOV, N.G.; YAKOVLEV, M.A.; SHABANOVA, A.M.

Technical and economic evaluation of mining systems in

Kirghizia mines. Izv. AN Kir. SSR. Ser. est. i tekh. nauk

3 no.3:5-23 '61.

(Kirghizistan—Mines and mineral resources)

SHESTAKOV, V.A.; SEKISOV, G.V.; BARANOV, Ye.G.

New method of determining the boundaries of open mining operations. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 3 no.3:47-63 (MIRA 15:3)

'61. (Strip mining)

Shrinkage atope mining in Kirghizistan mines and ways to improve it. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 3 no.3:77-94 '61. (MIRA 15:3)

(Kirghizistan--Stoping (Mining))

SHESTAKOV, V.A., kand.tekhn.nauk; SNEGOV, A.I., gornyy inzh.;
BONDAREV, K.D., gornyy inzh.; ALIYEV, A.A., gornyy inzh.;
AGZAMOV, K.Sh., gornyy inzh.; AERAMOV, N.P.

Using deep boreholes for breaking ore in the Sumsar Mine. Gor. zhur. no.12:8-10 D '62. (MIRA 15:11)

1. Institut gornogo dela i metallurgii AN Kirgizskoy SSR (for Shestakov, Snegov, Bondarev, Aliyev, Agzamov).

2. Sumsarskiy rudnik (for Abramov).
(Sumsar region-Boring-Labor productivity)
(Blasting)

SEKISOV, Gennadiy Valentiaovich; SHESTAKOV, V.A., kund. vekim. nauk, otv. red.

[Direct method of determining losses and depletion of ore in mining complex deposits (using the Khaydarken Mine as an example)] Priamoi metod opredeleniia poter' i razubo-zhivaniia rudy pri razrabotke slozhnykh mestorozhdenii (na primere Khaidarkanskogo rudnika). Frunze, Izd-vo "Ilim," 1964. 103 p. (MIRA 17:12)

MUKHIN, Mikhail Yegorovich; SHESTAKOV, Viktor Aleksandrovich; YALYMOV, Nariman Galimovich; MOSIKETS, V.N., otv. red.

[Underground mining systems in Kirghizia] Sistemy podzemnoi razrabotki na rudnikakh Kirgizii. Frunze, Izdvo "Ilim," 1965. 105 p. (MIRA 18:6)

MUKHIN, M.Ye., otv. red.; SHESTAKOV, V.A., red.; YALYMOV, N.G., red.; KUCHKIN, V.A., red.

[Improving systems of ore mining in unstable rock] Sovershenstvovanie sistem razrabotki rudnykh mestorozhdenii v neustoichivykh porodakh. Frunze, "Ilim," 1965. 180 p. (MIRA 18:11)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut fiziki i mekhaniki gornykh porod.

				•
L 2535-66 EWT(m)/ACCESSION NR: AP50	EWA(d)/EMP(t)/EMP(s)/EMP 21359	(b) JD UR/0120/6 621.318.3	5/000/004/0182/0187 1621.384.634 50	.
Khakimov, S. Kh.; 8	V. V.; Barkov, L. M.; Ni hestakov, V. D.; Bobovik	koliskiv. B. A.: Boko	lov. B. V.; 30	•
Zamolodchikov, B. I TITLE: An arrangem	ent for producing pulsed	l magnetic fields of (trengths up to 150	
	tekhnika eksperimenta, r		·	•
	•	ahrocyclotron	•	
TOPIC TAGS: pulsed	magnetic field, thyrati	ron, synchrocyclosics		
ABSTRACT: The unitable kilogauss in a lium bronze are por are charged through 1-100/5 ignitron in operation with a s	I magnetic field, thyratics of an apparatus for property of a capacitor bands in limit resistances to 2 s used as the switching ynchrocyclotron are obtathe pulsed field operateach producing a field	roducing a pulsed mag are described. Pulse k of 0.1 farad capaci kv from a thyratron element. Synchroniza ined by a special cir	netic field of d magnets of beryl- tance. The capacitors rectifier, and a tion and control for cuit. This arrange-	• • • • • • • • • • • • • • • • • • •
ABSTRACT: The unitable kilogauss in a lium bronze are posare charged through 1-100/5 ignitron in operation with a s	space of about 600 cm ³ space of about 600 cm ³ wered by a capacitor bank h limit resistances to 2 s used as the switching ynchrocyclotron are obta	roducing a pulsed mag are described. Pulse k of 0.1 farad capaci kv from a thyratron element. Synchroniza ined by a special cir	netic field of d magnets of beryl- tance. The capacitors rectifier, and a tion and control for cuit. This arrange-	: :-
ABSTRACT: The unitable kilogauss in a lium bronze are por are charged through 1-100/5 ignitron i operation with a sment for obtaining magnets were used,	space of about 600 cm ³ space of about 600 cm ³ wered by a capacitor bank h limit resistances to 2 s used as the switching ynchrocyclotron are obta	roducing a pulsed mag are described. Pulse k of 0.1 farad capaci kv from a thyratron element. Synchroniza ined by a special cir	netic field of d magnets of beryl- tance. The capacitors rectifier, and a tion and control for cuit. This arrange-	·

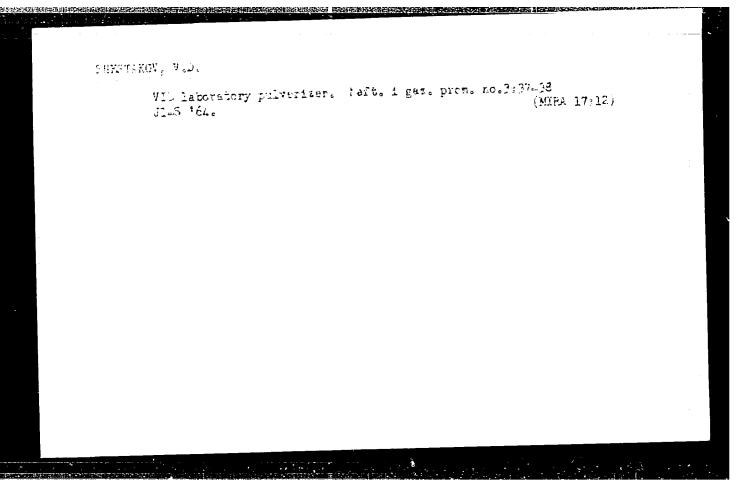
APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

, ·	The second secon		: •	•		
	ignitron when proper heating an field secured operation without 10/min. The joint operation of some rearrangement of the contraint at the vithout accompaniment of a pulse to V. I. Danilov, T. N. Tomilir The authors are grateful to I. interest and help in the work. F. Ye. Gugnin, I. P. Lavrushkir.	the pulsed magnet virol system to guarante ed magnetic field. I. Gurevich and V. P. The authors express Yu. Y. Maksimov, A.	e that no partic The authors expi ch for carrying Dzhelepov for their thanks to V. Shestov, V.	ress their thanks on the work. their constant y. I. Smirnov. I. Ivanov. I. M.	+	
	Markachey, A. J. St. Markachey, A. J. St. Markachey, A. J. St. Markachey, A. S. Scottarion: Institut atomnoy IYAP DIYAI: NII EFA; MIFI SUBMITTED: 17Jun64	perating the equipment	0.18	[04	(E);	· ·
	NO REF SOV: 001					
			•			:

<i>\{</i>	L 8202-66 JXT(C2) ACC NR: AT5022299 SOURCE CODE: UR/3136/64/000/620/0001/0011 AUTHOR: Gurevich, I. I.; Hakar'ina, L. A.; Nikol'skiy, B. A.; Sokolov, B. V.;	-
-	Surkova, L. V.; Khakimov, S. Kh.; Shestakov, V. D.; Dobretsov, Yu. P.; Akhmanov, V. Y.	
ļ	ORG: [Gurevich, Makar'ina, Nikol'skiy, Sokolov, Surkova, Khakimov, Shestakov] IAE; [Dobretsov] HIFI; [Akhmanov] LYAP OIYAI	
	TITLE: Asymmetry of the angular distribution of electrons in the decay ** + ** + ** in a magnetic field of 140,000 gauss	•
	SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-620, 1964; Asimmetriya uglo-vogo raspredeleniya elektronov pi plus + mu plus + e plus respeda v magnitnom pole napryazhennost'yu 140 000 gauss, 1-11	
	TOPIC TAGS: mu meson, pi meson, positron, bubble chamber, radioactive decay	
	ABSTRACT: The universal V-A coupling theory applied to the determination of the angular distribution of electrons in the reaction $\pi' + \mu' + e'$ is given by $\frac{dN}{da} \sim 1 - a \cos \theta$	
	in terms of the parameter a. In order to obtain a value of a which depends on the polarization state of the meson, an experiment was performed showing the effect countering the depolarization of the dense medium through which the meson is moving.	
	Cord 1/2	
í		•

	ACC NR: AT5022299 Critical magnetic fields needed to oppose the depolarizing effect, which in turn allows more accurate determination of the parameter α, were found. Only 8800 gauss lows more accurate determination of the parameter α, were found. Only 8800 gauss were required in the hydrogen bubble chamber to counter the effect of hydrogen dewere required in the hydrogen bubble chamber to counter the effect of hydrogen dewere required an application. However, the scatter in the value is quite large. The photographic emulsion yielded much smaller scatter but required an application of a very large magnetic field of 140,000 gauss. The value of α found in the experiment is 0.325 a magnetic field of 140,000 gauss. The value of 0.333). This value was obtained by .010 (as compared to the theoretical value of 0.333). This value was obtained by analyzing over 66,000 events. A brief discussion is given of the effect of the magnetic field on the motion of the electron. It is shown that the electron direction must be measured with respect to the magnetic field direction after setting certain constraints on the selection of the angular range. Orig. art. bas: 3 figures, 1 table, 5 formulas.				
	SUB CODE: 18/	SUBM DATE: 00/	ORIG REF: 005/	OTH REF: 007	
*	nw Card 2/2				

L 15166-66 EWI(d)/EWP(1)IJP(c) BB/GG ACC NR. AP5027014 SOURCE CODE: UR/0120/65/000/005/0094/0096 AUTHOR: Gol'bek, G. R.; Shestakov, V. D. ORG: Institute of Atomic Energy, GKAE (Institut atomnoy energii GRAE) TITLE: Transistorized reversible decimal pulse counter SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 94-96 TOPIC TAGS: pulse counter, transistorized pulse counter ABSTRACT: A reversible decimal pulse counter is described which is intended for computers and in which the sequential connections between its triggers are permanent. The decimal count is materialized by a transistor switch which applies the ninth arriving pulse to the second and third triggers. An experimental model built with P16 transistors and D1 diodes exhibited a stable operation with forward and reverse directions with (a) a supply voltage of 3-15 v, (b) a repetition rate from single pulses to 120 kc, (c) an input-pulse amplitude of 50-100% supply voltage. The resolving time of the counter is 7x10 sec. Its disadvantage, low input impedance. Orig. art. has: 2 figures and 1 table. SUB CODE: 09 / SUBM DATE: 29Apr64 / ORIG REF: 001 / OTH REF: 001 FW UDC: 681.142.6



/CO58/64/00C/SCI/AO3./A.

Fizika, Nbs. 1A331

Mo. Maley, V. A., Okulov, B. V., Otrubyannikov, Yu. A.

A., Skorikov, A. G., Shestakov, V. G.

Off starting a pulled two-chamber sts. to belatron

izv. Tomsko-o political nata, v. 122, 1952, 50
Mid. Stereo betatron, pulled be betatron, two channels radiation, ionization measy radiation dose power,

Mid. Stereo betatron, ster secution radiation yield,

Milling pulse

TOA: A two-channel pulsed stereo-betatron for 25 MeV with the auton intensity was sterted and put in operation a

MR: NR4022437

was Polytechnic Institute in 1960. The electromagnet of the and at a superior was fed with 2760 A current pulses at 7.5 kV and at a pecition frequency of 0.2 cps. The injection voltage and current are 300--400 kV and 1.6 A. A special system for dropping the elecnone on the target made it possible to obtain bremsstrahlung pulse or exceeding 0.2 microsecond in duration. (For details see RZhFiz 1963, 1A381, 382.) To register the radiation pulses, a standard "Kakuus" x-ray meter was used with an aluminum one-liter DIG-1 ionization chamber. It was impossible, however, to measure the radiation dose with the available institutents. Consequently, a rough qualitative estimate of the radi: () lose power per pulse was made using a method in which a radiat walse was transmitted through a lead layer of maximum possible thickness. It was found that at optimal gamma-radiation intensity a pulse from one accelerator chamher can pass through a lead 14-cm layer located 1 meter away from the accelerator target. This corresponds to an approximate dose of 50 coentgens. If it is assumed that during one acceleration cycle the

2/3

22020 NK: 284022437

the scereo-betatron beam amounts to only 5 roentgens, the radiation yield of the stereo-betatron is 250-300 times larger can an existing betatrons of the same energy. The dimensions of the focus spot did not exceed 4 x 2 mm in the right-hand accelerator chamber, and 10 x 1 mm in the left. The number of accelerated electrons is ~5 m 10¹¹. V. Voronin.

DAME ACQ: 03Mar64

SUB Color SD

ENCL: 00

L 25069-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pab-10/Pt-10 IJP(c)

ACCESSTON NR: AR4045745

S/0275/64/000/007/A051/A051

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 7A298

AUTHOR: Moskalev, V. A.; Skvortsov, Yu. Zh.; Okulov, B. V.; Shestakov, V. G.

TITLE: Measurement and recording of fall current in a 25-Mev stereobetatron 9

CITED SOURCE: Sb. Elektron. uskoriteli. M., Vyssh. shkola, 1964, 204-209

TOPIC TAGS: betatron, stereobetatron

THE SURFACE PARTY OF THE STATE OF THE STATE

TRANSLATION: Results of a study of acceleration process and beam characteristics are reported. Possibility is considered of determining the charge of accelerated electrons by a direct measurement of the charge of the electrons that struck the target. For measuring the accelerated-electron charges, a combination circuit is used which records simultaneously the target current and the signal induced in a special indicating electrode; the circuit can operate at any particle energy. Stereobetatron potentialities as a pulse flow detector were assessed by using it for examination of a lead bar having artificial defects. The circuits are supplied, and the experimental results are discussed.

SUB CODE: NP

ENCL: 00

Card 1/1

ACCESSION NR: AP4041009

\$/0120/64/000/003/0032/0033

AUTHOR: Moskalev, V. A.; Shestakov, V. G.; Okulov, B. V.; Skvortsov, Yu. M.

TITLE: Method for measuring accelerated charge in a betatron

SOURCE: Pribory* i tekhnika eksperimenta, no. 3, 1964, 32-33

TOPIC TAGS: betatron, betatron measurements, betatron accelerated charge

ABSTRACT: A combined — direct and indirect — method for measuring a charge developed by the authors (registration no. 34311, priority of 01Feb63) is briefly described. The target current pulse is recorded simultaneously with a signal induced in a special "indicating electrode." At an energy under 1 Mev, the electrode signal is calibrated directly and then the calibration is used for measuring the charge with any energy. Two oscillograms taken at 0.5 and 25 Mev illustrate the method. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 07Jun63

SUB CODE: NP

NO REF SOV: 005

ENCL: 00

OTHER: 002

Card 1/1

Sucreasing of aimposine-triphosphe-planylalaning. Vest, Mock, un. Ser.
2: Thir. 19 no. 1:91-84 JJ-hg '64. (MIRA 18:8)

1. herden organicheskov khimi: Moskovskogo universiteta.

SHESTAKOV, V.G.; SHABAROVA, Z.A.; PROKOF'YEV, M.A.

Properties of methyl ester of P^1 -(adenosine-5) -diphospho-($P^2 \rightarrow N$) phenylalanine. Biokhimiia 29 no.4:690-696 J1-Ag (MIRA 18:6)

l. Laboratoriya khimii nukleinovykh kislot khimicheskogo fakul'teta Gosudarstvennogo universiteta imeni Lomonosova, Moskva.

SOMOV, G.P.; SHESTAKOV, V.I.

Spontaneous infection of Haemaphysalis japonica douglasi Nutt. and Wart. ticks by rickettsia of Dermacentor sibiricus in Maritime Territory. Zhur.mikrobiol.sepid.i immun. 40 no.12:51-56 D 163. (MIRA 17:12)

l. Iz Vladivostokskogo instituta epidemiologii, mikrobiologii i gigiyeny.

SHESTAKOV, V.I.; IVANOV, K.S.

Further study on the biclosy of mosquitoes living in tree cavities of the southern Maritime Territory. Zool. zhur. 43 no.7:1081-1082 '64. (MIRA 17:12)

1. Research Institute of Epidemiology, Microbiology and Hygiene. Vladivostok.

CHESTAKOT V.C. SHEBAROVA, D.A., PROKOFTYEV, M.A.

Study of the kinewics of ADP-amino acid hydrolysis. Biokhimila (MIRA 1836)

t. haboratoriya khimii mukleinovykh kislot khimicheskogo (akulitesa mosudarstvennogo universiteta imeni Lomonosova, Moskva.

TETATO, v. J., Tayl. Pistco-rath. Sci.

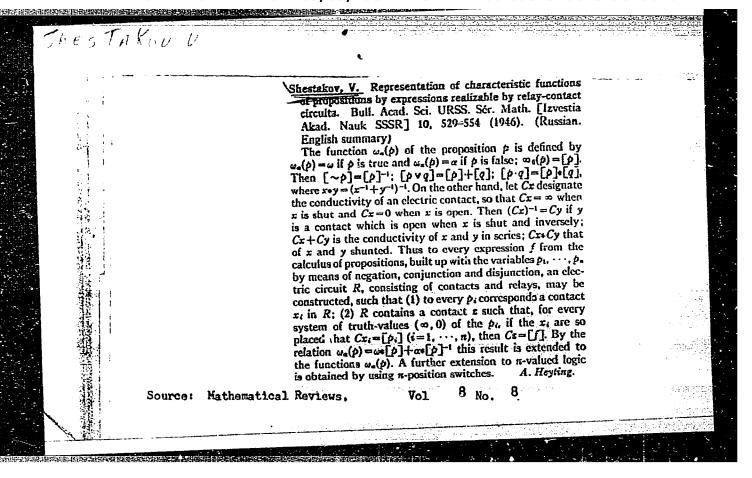
"The Algebra for 'wo-Terminal Systems, vonstructed Exclusively from Two-Terminal Detworks (Algebra of A-Systems)", (Thesis for Landidate's Legree real at the moscow State University imeni h. V. Lomolosov). Vol 6, No 2.

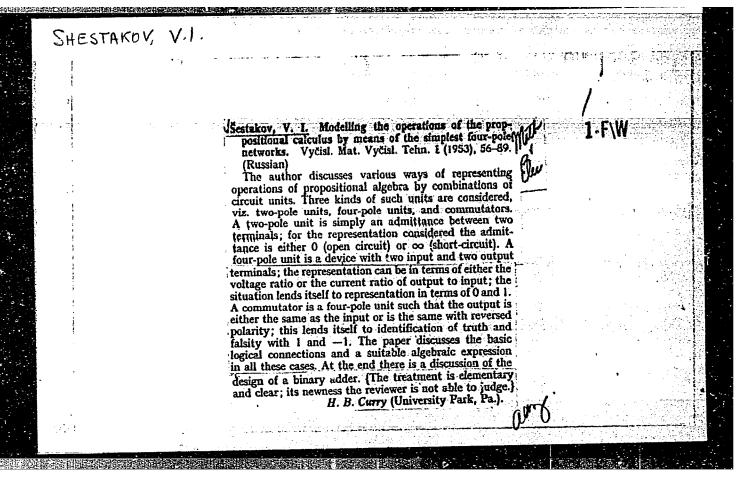
Avtomatika i Telemekha ika, Ho. 2, 3, 4, 5, (1941).

SHESTAKOV, V. I.

Algebra dvukhpolyusnykh skhem, postroyenny kh isklyuchitel'no iz dvukhpolyusnikov (algebra A-skhem). Zh. Tekhn. fiz., 11:6 (1941).

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.,
Markushevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948





MAMOHOV, Ye.I., [translator]; SADOVSKIY, L.Ye.[translator]; KHETAGU-ROVA, Ya.A.[translator]; SHESTAROV, V.I., redaktor.

[Synthesis of electronic computing and control circuits] Sintez elektronnykh vychislitel'nykh i upravliatushchikh skhem. Perevod s angliiskogo E.I.Mamonova, L.E.Sadovskogo i IA.A. Khetagurova. Pod red. V.I.Shestakova. Moskva, Izd-vo inostrannoi lit-ry, 1954.

357 p. (Klectronic calculating machines)

SHESTAKOV, V. I.

Algebraic Method of Analysis of Autonomous Systems of Two-Position Relays. Avtomatika i telemekhanika, Vol 15, No 2, 1954, pp 107-123

Any group of relays together with its governing and governed parameters is called a relay system. The author investigated processes which are possible in an autonomous relay system with identical lags T during wear and loosening. Such a system is described by n equations $y_k(t) = f_k(y_1(t-T), \ldots, y_n(t-T))$. The author also uses vector notation somewhat different from the standard. (RZhMat, No 5, 1955)

SO: Sum. No. 639, 2 Sep 55

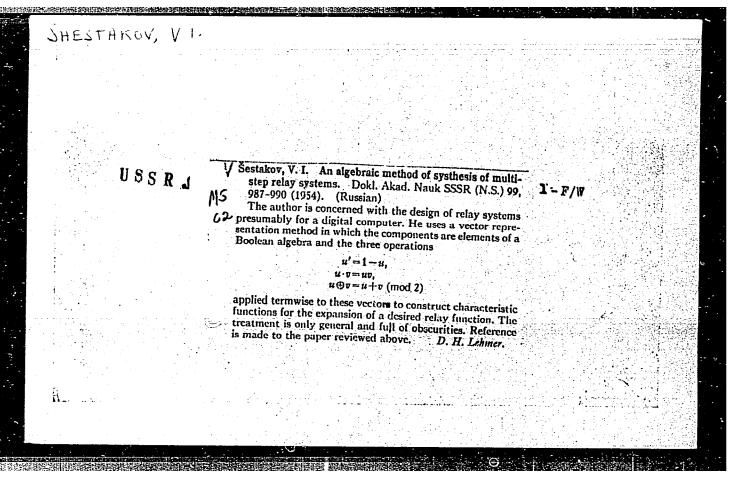
"Algebraic method for synthesizing autonomic systems of two-position relays", Avtomatika i Telemekhanika, Vol 15, No 3,4,5, 1954

Abs

W-31148, 7 Feb 55

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

ÜSSR 🎝	Sestakov, V. I. On transformation of a monocyclic sequence into a recurrent one. Dokl. Akad. Nauk SSSR (N.S.) 98, 541-544 (1954). (Russian) The author considers a sequence of n-digit binary integers $\eta(0), \eta(1), \eta(2), \dots$	
	which are ultimately periodic but are subject to the conditions that the initial non-periodic part together with the proper period coasist of distinct integers. Such a sequence is produced when $\eta(i+1) = \phi(\eta(i)),$	
	where ϕ is a single-valued function whose values are integers <2" (a condition not explicitly stated by the author). Conversely, any sequence η of the above type determines such a function ϕ . Mention is made of an application to a system of η relays presumably of a digital computer. If the ith relay is energized at the jth program step then we may take the ith digit of $\eta(j)$ to be 1, otherwise it is zero. The system of relays is thus equivalent to a function ϕ . The author states that his theory extends to the case of $\eta \to \infty$.	
	D. H. Lehmer (Berkeley, Calif.).	



CIA-RDP86-00513R001549310016-1 "APPROVED FOR RELEASE: 08/09/2001

SHESTAKOU,UI,

AF 1108825 Call Nr:

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpst., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. There are 2 references, 1 of which is USSR, and another is English.

Tseytin, G. S. (Leningrad). Problem of Identification of the Properties of Associative Calculus.

189

Mention is made of Markov, A. A.

There are 2 references, both of them USSR.

On Constructive Understanding Shanin, N. A. (Leningrad). of Mathematical Reasoning.

189-190

Mention is made of Kolmogorov, A. N.

There are 2 references, 1 of which is USSR, and the other English.

Shestakov, V. I. (Moscow). Vectorial -algebraic Method Applied to the Analysis and Synthesis of Multicycle Relay Systems. 190-191

Card 61/80

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

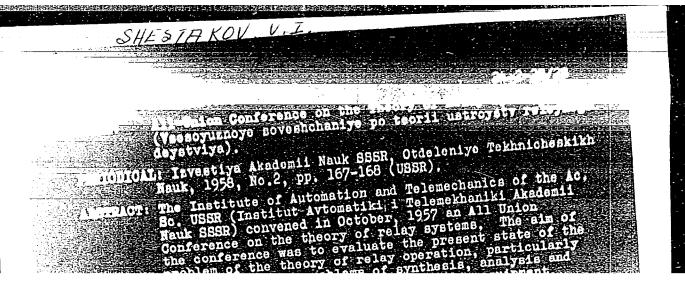
"APPROVED FOR RELEASE: 08/09/2001 C

CIA-RDP86-00513R001549310016-1

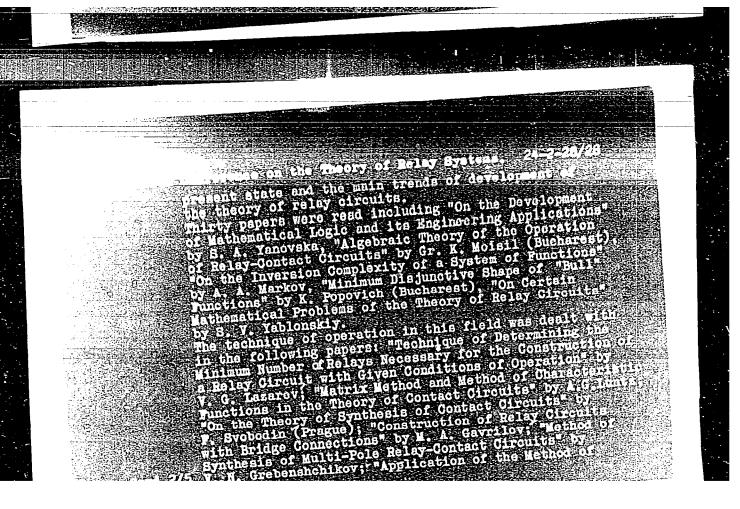
PA - 1942 Dokl.Akad.Nauk, 112, fasc.1, 62-65 (1957) CARD 2 / 2 notes a certain univocal vector function of \vec{z} . Such variables and/or functions are called "r-variables" and/or "r-functions" the range of values of which is the quantity $\{0,1,\ldots,\ r-1\}$. The components of "r-vectors" can assume only values of this quantity. Next, an equation which is valid for any univocal r-function $\vec{F}(\vec{u})$ of the r-vector wis written down. The corresponding formula represents the normal form of the vectorial r-function $\vec{F}(\vec{u})$. Next, the algorithmus of the determination of the function F, i.e. the algorithm for the synthesis of the relay system is formulated. The method derithm for the synthesis of the relay system is formulated. The method described permits construction of the function F(z) = f(z,y) from the components of the r-vectors x and y with the help of operations of BABB' (or BUBB?) algebra. If the assumed sequence of the values $\hat{y}(j)$ of the vector \hat{y} does not satisfy a certain condition mentioned in the previous work cited, there exists no univocal function \vec{F} that satisfies the equation \vec{y} (j+1) = \vec{F} (\vec{z} (j)). However, in some cases it is possible to extend the assumed sequences of the values $\vec{y}(j)$ of the vector \vec{y} to such an extent by increasing the number of components of this vector that the aforementioned condition is satisfied for the further sequence. For the algebraic description of the structure of the here discussed systems the algebra of equivocal logics (algebra by BUBB ?) can be used.

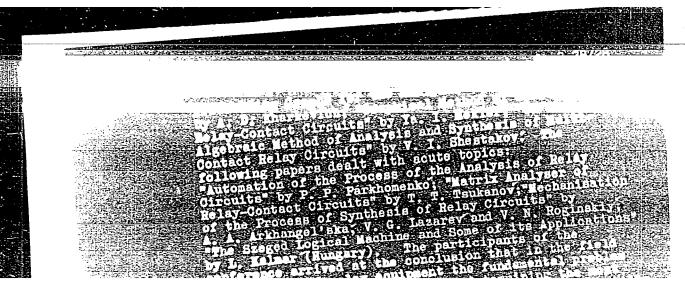
INSTITUTION: MOSCOW STATE UNIVERSITY.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

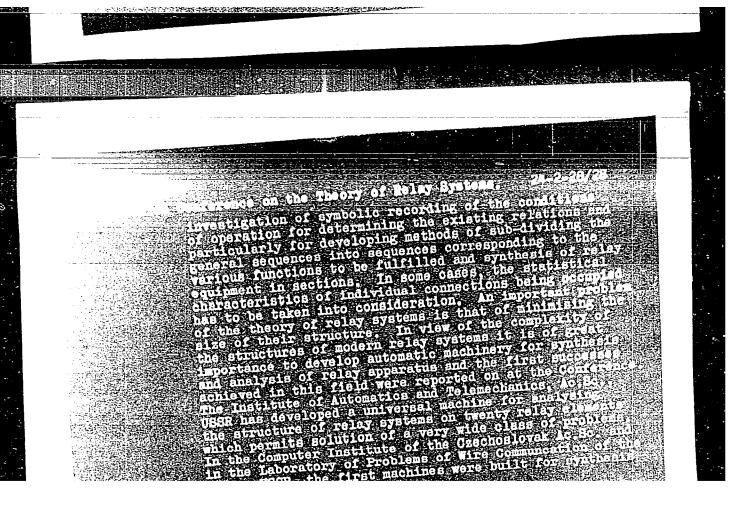


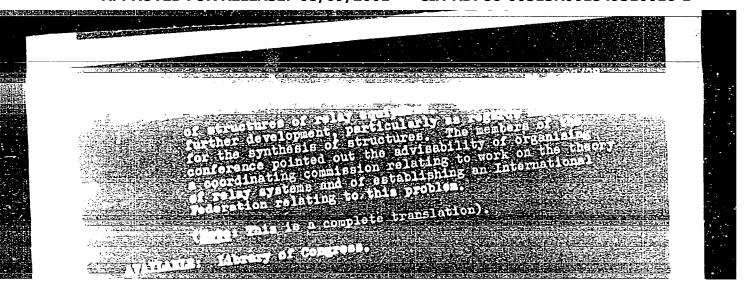
"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1





"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1





APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

SHESTAKOV, V. I.

"The Algebraic Method of Analysis and Synthesis."

report presented at All-Union Conference on Problems in the Theory of Relay Devices, Inst. for Automation and Remote Control AN USSB, 3-9 Oct 1957.

Vestnik AN SSSR, 1958, No. 1, v. 28, pp. 131-132 (author Ostianu, V. M.)

Mathematical legic and automatic centrel. Mat. v shkele no.6:4-20
H-D '58.
(MERA 11:12)
(legic, Symbolic and mathematical) (Autematic centrel)

Shestakov, V. I., Terent'yev, P. F. sov/64-58-6-3/15 AUTHORS:

The Determination of Optimum Temperature Conditions of Running TITLE:

Contact Apparatus for the Oxidation of Sulfur Dioxide

(Opredeleniye optimal'nogo temperaturnogo rezhima deystvuyushchikh kontaktnykh apparatov dlya okisleniya dvuokisi sery)

Particular on the second control of the seco

Khimicheskaya promyshlennost', 1958, Nr 6, pp 350-354 (USSR) PERIODICAL:

ABSTRACT: Optimum conditions for contact apparatus with adiabatic cata-

> lyst layers are determined according to the method developed by G. K. Boreskov (Ref 1). During the operation of the apparatus the activity of the catalyst decreases. Therefore, an excess of contact substance is generally used; however, this excess is limited since its presence results in an increase of the hydraulic resistance and thus causes efficiency to decrease. If the activity of the contact substance is reduced by the two- or threefold, the operation of the contact apparatus is disturbed and a redetermination of optimum operating conditions considering the actual state of the catalyst, be-

comes necessary. The present paper deals with the solution of this problem. The determination of the optimum operation

Card 1/2(for each layer separately) was carried out according to the

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

sov/64-58-6-8/15

The Determination of Optimum Temperature Conditions of Running Contact Apparatus for the Oxidation of Sulfur Dioxide

Graphic method. The diagrams in question are given. Inter alia, the calculation is given for an apparatus of the K-39-4 type. On principle, the diagrams refer to contact substances which already have been used for some time and have lost part of their effectiveness. If there is a new contact substance the diagrams make it possible to evaluate the quality of the material in question. New substances should be used in the first two layers in quantities which guarantee a contact from the ignition to a point near the equilibrium. That is why the initial temperature should not be increased, since this would lead to a lessening of the effect. There are 8 figures, 1 table, and 3 references, which are Soviet.

Card 2/2

AUTHOR:

到中央。 1985年 - 1985年 -

Shestakov, V. I. (Moscow)

103-19-6-8/13

TITLE:

A Method of Punched Cards for the Synthesis of Switching Systems (Perfokartochnyy metod sinteza mnogotaktnykh releynykh

sistem)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 6,

pp 592 - 605 (USSR)

ABSTRACT:

One of the simplest methods for the mechanization of the vector-algebraic method for the synthesis of switching systems is given here. The method is based on the use of special cards and was therefore called the method of punched cards for the synthesis of switching systems. It is assumed here that the reader is acquainted with the vector-algebraic method of the synthesis of switching systems. Therefore only little information is given on this method. Then the use of special cards for the synthesis of autonomous relay systems and the realization of the synthesis of non-autonomous relay systems by means of special cards is explained in two chapters. At the end it is pointed out that the synthesis of autonomous systems can also be performed by means of cards β destined for the synthesis of non-

Card 1/2

A Method of Punched Card, for the Synthesis of

103-19-6-8/13

Switching Systems

autonomous switching systems. On this occasion the cards α (for the synthesis of autonomous switching systems) are not used and only the cards β are used in the same manner as cards α . There are 9 figures, 1 table, and 10 references, 4 of which are Soviet.

SUBMITTED:

December 26, 1957

1. Switching circuits--Synthesis

Card 2/2

S/055/59/000/06/27/027 B004/B002

AUTHOR:

Shestakov, V. I.

TITLE:

The Theory of the Synthesis of Mixed Relay - Contact Circuits

of Class P

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,

astronomii, fiziki, khimii, 1959, No.6, pp. 215 - 223

TEXT: The author opposes papers by V. N. Roginskiy (Refs. 1 - 5, 8) on circuits of control relays. He doubts the applicability of the Boolian algebra for the analysis and synthesis of relay-contact circuits of class P which in addition to contacts and relay windings also have resistors that can be connected in parallel or in series. Some data by Roginskiy are discussed, and their inadequacy in algebra is shown. Furthermore, Roginskiy's concept of "the order of magnitude of conductivity" represented by the symbols $G_{\pm A}$, G_{A} is discussed (Fig. 1).

Roginskiy's statement "if A_{B} and B_{A} , the connection is physically not possible", is refuted. The author also mentions papers by M. A. Gavrilov (Ref. 6), V. N. Roginskiy and A. D. Kharkevich (Ref. 7). There are 1 figure and 8 Soviet references.

Card 1/2

The Theory of the Synthesis of Mixed Relay -Contact Circuits of Class P

S/055/59/000/06/27/027 B004/B002

ASSOCIATION:

Kafedra obshchey fiziki (Chair of General Physics)

SUBMITTED:

July 16, 1959

Card 2/2

SHEST	/=tt ->	Marie Way	,	·	- /	_		. •					~	2			i
	30V/508S			math-	the d oned.	173	215	251	;	34. 11081 377	39*	514	8	AC/dwm/ec 5-12-61			
. '	Ş	Lette 1 500 357	Kol'man Ing Hou	sted in	which its ap logy and	In the	the	ŗ,	of the	of Phys	in the	Logge Logge		∢ €			
		Akademiya nauk 3858 Primeneniye logiki v nauke 1 tekhnike (Application of Logic in Solence and Technology) (Moscow) Izd-vo AN 3858 (1960) 387 (Errata slip inserted. 10,000 copies printed.	Sponsoring Agenty: Akademiya nauk 3838. Editorial Board: Resp. Ed.: I. V. Tavanets, E. Ya. Kol'man, G. N. Powarov and S. A' Kanowskay; Ed. of Publishing Houses H. Yu. Rozenberg; Tech. Ed.: S. T. Markovich.	POSE: This book is intended for scientists interested in math- esstics) and symbolic. legio.	PRADZI The book is a collection of 16 articles in which the authors discuss problems of mathematical logic and its application to computers, linguistics, zoology, methodology and warious fields of tenchology. No personalities are mentioned. References follow all but one article.	Paring, No. 7. Significance of the Axionatic Method in the Study of Trends in Changes of Living Systems	gating l	One Variant of the Definition Theory	Powercy, G. M. Group Invariance of Bootean functions of the Statebacky, W. T. Bouble Artthmetic Interprutation of the Statebacky, W. T. Bouble Artthmetic Interprutation of the Proposition Used in Inter-Valued Calculation of the Proposition Used in Inter-Valued Calculation by Manne of a Relay-Satteching	Circuit Circuit Bactill M. L. and L. M. Shekhtzan. Some Problems of Physical Section of System Performing logical Functions	Realization of Joycem Argenty of Many-Valued Logics in the Many-Nalued Related in the Many-Nalued Logics in the Many-Nalued Many-Nalued Logics in the Many-Nalued	ects of	93				
	2074	Applica -vo Al printe	t. Fd. of Markovi	lent1st:	16 art tital l' cology, ersonal	lonatic ystems	Zinov'yev, A. A. Deductive Method in Investigating Propositions of Relationship XINOV 1994, A. A. A. Octobality Frontem or Fropositions as a fidential or Frontem or	Definit	oolean nterpre sttion of a Re	Some P	r-Valued	POVATOL G M Inductive and Deductive Aspects of Connected With Logical Problems in Technology	Sanse Theory of Gottlob Frege		,		
	PHASE I BUOK EXPLOITATION	cow] Ize	Akademiya nauk 5558. sp. Ed.: I. V. Tava 15. A. Yanovskaya; E. Tech. Ed.: 5. T. Mc	for se	tion of mathema tics, z '. No p	the Ax	thod in	of the	nee of b metic I meric I	chtean.	of Man	Deducting in T	of 98	99			
	1 HOOK 1	ke 1 te 7) [Mose 10,000	emiya n Ed.: I A. Yano h. Ed.:	ntended . logio	collector of linguist on but on	ance of	itve Mai	arlant	nvarian ie Arith in of th	M. She	1cation B	lve and Proble	Theory	Congress			
	PHABL	SR t v naud chnolog	Resp.	ok 13 1 ymbolic	ok 18 a se probl outers, s of tec	Stensfle In Chang	Deduct Relation Dener	- 1	Group J	and L.	Appl	Induct	Sense	e.			
		Akademiya nauk 355R Primeneniye logiki Solence and Tech Errata siip inse	Sponsoring Agency: Editorial Board: Bd. N. Povarov an H. Yu. Rozenberi	This bo	The bo discuss to comp	Frends	ons of P	, A. A.	. Z . Z	2 X	E E E	a with		Ë			
		demiya moneniy Solence Errata	naoring Itorial G. N. H	FURPOSE:	COVERAGE: author cation various Refere	trok y	inov'yev, A. Propositions o Zinov'yev, A.	Zinav'yev,	Shestakov, V. M.	reult setlin	aystro	Povarov	Kedrox B.	AVALLABLE:	Card 4%		
		ž E	od Pa	2	8	al s	PEC.		and amen	10 H	₁		•		!		
			- 1			<u> </u>						· 				 	_

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

Study of bird's fleas in the foci of Japanese encephalitis.

Med.paraz.i paraz.bol. no.3:306-307 '61. (MIRA 14:9)

(ENCEPHALITIS) (PARASITES—BIRDS) (FLEAS)

82և57

16,6800

S/141/60/003/03/012/014 E192/E382

AUTHOR:

TITLE:

Shestakov, V.I.

The Problem of Synthesis of Hybrid N-Class Switching

Systems LA

Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, PERIODICAL: 1960, Vol. 5, No. 3, pp 526 - 533

Boolean algebra is quite adequate for the analysis and synthesis of switching systems of the Ti-class, but it is TEXT: insufficient in the structural analysis of the N-class systems when these comprise relay coils and resistances as well as contacts, push buttons and keys. In the following, an attempt is made to investigate the applicability of the algebra and to determine such switching systems where the algebra is inadequate. A N-class system can be uniquely described by means of an algebraic equation whose terms are interrelated by operations of addition and harmonic addition. The harmonic addition is described by:

(1) $X = Y = (X^{\dagger} + Y^{\dagger})^{\dagger}$

Card 1/4

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

82457

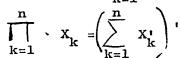
\$/141/60/003/03/012/014

The Problem of Synthesis of Hybrid (F-Class Switching Systems

where + denotes the usual addition, while the dash denotes the inversion, which is described by:

$$X^{i} = 1/X (X \neq 0, X \neq \infty) ; 0^{i} = x ; \infty^{i} = 0$$
 (2).

The harmonic sum of n quantities $X_1, \dots, X_k, \dots, X_n$ is denoted by the symbol $\prod_{k=1}^{n} X_k$, which is defined by:



where \sum denotes the sum. As regards single-relay \bigcap -class systems, these can be either of the normal, inverse or hybrid type. The normal or inverse systems have the following form: $x \cdot Y$ and x + Y(A), where x is an arbitrary \bigcap -class switching system and Y is the coil of a single winding relay. All the Card 2/4

TO THE WORLD STATE OF THE STATE

82457

S/141/60/003/03/012/014 E192/E382

The Problem of Synthesis of Hybrid \(\Gamma - \text{Class} \frac{\text{E382}}{\text{Switching Systems}}\) remaining systems are referred to as the single-relay hybrid systems. The principal hybrid systems are of the inverse-normal and normal-inverse type, since an arbitrary hybrid system can be reduced to one of the above types by means of suitable transformations. Thus, it can be shown by employing the distributive laws defined by Eqs (3) that a normal-inverse-normal system can be transformed into an inverse-normal and a normal-inverse system. The separable Π -class systems are defined as those systems containing n relays which can be divided into n independent single-relay two-pole sub-systems in such a way that when each of the two poles is connected to a separate supply source, its relay operates in the same way as in the original system. The separable systems are of the normal or inverse type or of the type defined by the first two equations on p 530. In these equations, denotes the two-poles which have a finite impedance. shown that the analysis and the synthesis of n-relay separable N-class systems can be carried out in the same manner as the analysis of n different \(\bar{\sqrt{-}}\)class systems and, consequently, Card 3/4

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"

82457 S/141/60/003/03/012/014

The Problem of Synthesis of Hybrid \(\bigcap = \text{E192/E382} \) Switching Systems

the Boolean algebra is adequate for the analysis and synthesis of the systems. As regards the non-separable switching systems of the N-class, it is found that, in general, the Boolean algebra is inadequate for their analysis and synthesis. There are 11 references: 1 English and 10 Soviet; one of the Soviet references is translated from English.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet

(Moscow State University)

SUBMITTED:

January 19, 1960

Card 4/4

SHESTAKOV, V.I.

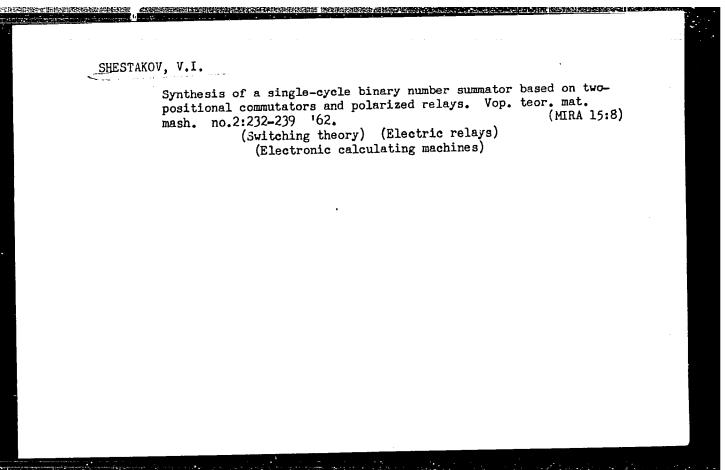
Raview of V.N. Roginskii's book "Blements of the structural synthesis of switching control circuits." Avtom. i telem. 21 no.7:1090-1094 J160. (MIRA 13:10)

(Automatic control) (Switching theory)

(Roginskii, V.N.)

"Algebra of relay-switch circuits"
report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

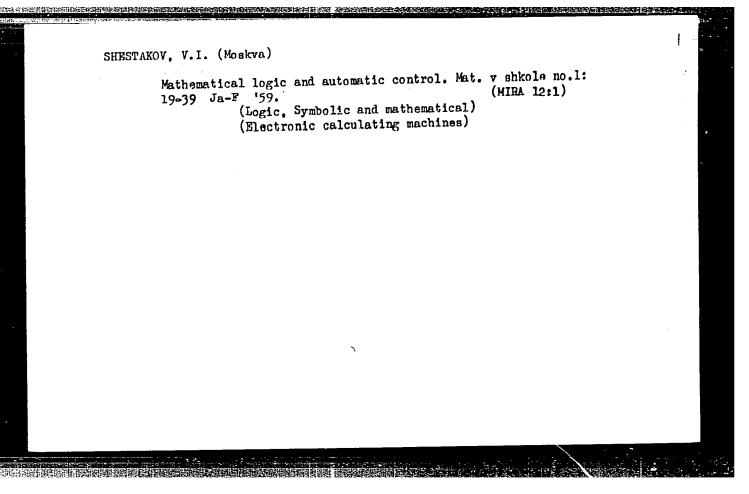
APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549310016-1"



SHESTAKOV, V.I.

Some epidemiological data on the resistance of the eggs and larvae of the mosquitons Aedes togol and Aedes koreicus against freezing. Trudy VladIEMG no.2:38-39 162. (MIRA 18:3)

1. Iz Vladivostokskogo nauchno-issledovatel'skogo instituta epidemiologii, enkrobiologii i gigiyeny.



Sun V. 1.P., Signor, M.N., Shapino, M.I., Khuuyakov, I.S., Shestakov, V.I.

Fhura of schoparasites 'n small memmals of the coastal regions and islands of the southern part of the Maribime Territory.

Trudy VladTEMG no.2:114-123 '62.

(MIRA 18:3)

L 38466-66 EWT(1)/T

ACC NR: AP6029183

SOURCE CODE: UR/0016/66/000/005/0008/0013

AUTHOR: Shestakov, V. I.; Mikheyeva, A. I.; Polenova, I. N.; Dorokhova, V. S.

33 R

ORG: Vladivostok Institute of Epidemiology, Microbiology and Hygiene (Vladivostokskiy institut epidemiologii, mikrobiologii i gigiyeny); Regional Sanitary Epidemiological Station (Krayevaya sanitarno-epidemiologicheskaya stantsiya)

TITE: Prevention of Japanese encephalitis in Primorskiy Kray

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1966, 8-13

TOPIC TAGS: encephalitis, insect control, mosquito, disease control

ABSTRACT: In Khasanskiy Rayon, where Japanese encephalitis is endemic, systematic measures have been carried out since 1960 to control the mosquito vectors of the disease (C. tritaeniorhynchus G., C. bitaeniorhynchus G., C. pipiens L., A. togoi Theob., A. escensis Jam.) and to protect the population from mosquito bites. The breeding places were spayed from airplanes with DDT aerosols (10% dust and 50% paste). The best results were obtained by antilarval treatment of the biotopes in the early spring. The people were protected from insect bites with dimethylphthalate, repudin, and diethyltoluamide. The latter proved to be the most effective repellent. Orig. art. has: 3 tables. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 22Jul65 / ORIG REF: 005 / OTH REF: 001

Card 1/1/11/11

UDC: 616.988.25-022.395.7-084(5 1.63

O8708-67 EWT(1) JK ACC NR: AP6034113 (A, N) SOURCE CODE: UR/0358/66/035/005/0545/055C	<u>:</u> !
AUTHOR: Shestakov, V. I.; Mikheyeva, A. I.	
ORG: Vladivostok Scientific Research Institute of Epidemiology, Micro-	-
ORG: Vladivostok Scientific Research Institute of approach skiy instibiology, and Hygiene (Vladivostokskiy nauchno-issledovatel skiy instibiology, and Hygiene (Vladivostokskiy nauchno-issledovatel skiy instibiology, and Hygiene (Vladivostokskiy nauchno-issledovatel skiy instibiology); Primorskiy Kray Regional	
biology, and Hygiene (Vladivostokskiy nauthio Isramorskiy Kray Regional tut epidemiologii, mikrobiologii i gigiyeny); Primorskiy Kray Regional tut epidemiologii, mikrobiologii i gigiyeny);	╁╾
tut epidemiologii, mikrobiologii i giglyeny), <u>transcous</u> Sanitary-Epidemiological Station (Primorskaya krayevaya sanepidstants-	
442	
TITLE: Study of Japanese encephalitis Corriers in the Primorskiy Kray	
TITLE: Study of Japanese encephalitispedition	
(Maritime letricoly)	
SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35,	
no. 5, 1966, 545-550	
no. 5, 2504, virus disease,	
TOPIC TAGS: disease vector, animal disease, mosquito, virus disease,	
ABSTRACT: More than twenty mosquito species were identified in Japanes ABSTRACT: More than twenty mosquito species were identified in Japanes ABSTRACT: More than twenty mosquito species were identified in Japanes	3e
ABSTRACT: More than twenty mosquito species well and meadow encephalitis foci in the Primorskiy Kray (both coastal and meadow encephalitis foci in the Primorskiy kray (both coastal and meadow encephalitis).	-
encephalitis foci in the Primorskiy Kray (both todatal and encephalitis regions) in 1957-1961. The potential vectors of Japanese encephalitis regions) in 1957-1961. The potential vectors of Japanese encephalitis	
regions) in 1957-1961. The potential vectors of Sapancos enduito collect among the identified species were: Culex pipens (5% of mosquito collect among the identified species were: tritagniorhynchus (0.5%), A. togoi	_
tion) C. bitaeniornynanus (147) C. bitaeniornynanus (147)	
UDC: 616.988.25-022.395.7+576.895.771]	
(571,63)	
Card 1/2	

مد

L 08708-67 ACC NR: AP6034113

(78%), A. koreicus (1%), and A. esoensis (2%). The population of C. tritaeniorhynchus, the chief vector of Japanese encephalitis in meadow foci, has decreased 30—40 times in recent years due to elimination of rice fields. In the coastal area, the chief species attacking man was A. togoi, and in fishing villages, A. togoi and Culex pipens. In the meadow areas the following species commonly attacked man: A. dorsalis, A. vexans nipponi, A. esoensis, Anopheles hyroanus, and sometimes Culisata silvastris amuransis. Effective mosquito control consisted of treating ponds with insecticides (coastal regions) and serial spraying (meadow foci). Orig. art. has: 1 table and 2 figures.

[W.A. 50]

SUB CODE: 06/ SUBM DATE: 10Aug65/ ORIG REF: 006

Cord 2/2 nat

 Selecting an efficient system for the gas distributing Mash.Bel. no.6:33-39 '59. (Motor vehiclesFuel systems)	mechanism. (IRA 13:6)	
	ę, c	

GANSHTAK, Vladimir Iosipovich; SHESTAKOV, V.M., inzh., retsenzent; YUR'YEV, N.M., inzh., retsenzent; TKACHUN, A.I., red.izd-va; MODEL', B.I., tekhn.red.

[Economic analysis of potentials in a machinery manufacturing enterprise] Ekonomicheskii analiz rezervov na mashinostroitel'nom predpriiatii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 263 p. (MIRA 13:12)

(Machinery industry-Accounting)

BELYY, V.A.; SHESTAKOV, V.M.

Using some polymers in the manufacture of sliding bearings. Sbor. trud.Inst.mash.i avtom.AN BSSR no.2:93-115 '61. (MIRA 15:3) (Plastic bearings)

SHESTAKOV, V.M. (Moskva)

Nonstationary percolation in a two-layer medium. Izv. AN
SSSR. Mekh. i mashinostr. no.6193-96 N-D '63.

(MIRA 17:1)

SHESTAKOV, V.M.

Study of the performance of polyanide journal bearings. Plast.

(MIRA 16:10)

massy no.6:44-47 '63.

SHESTAKOV, V.N., kand.tekhn.nauk

Transversal connection of wheel sets with the truck frame. Vest.
TSNII MPS 22 no.8:13-21 '63.

(MIRA 17:2)

SHESTAKOV, V. M.

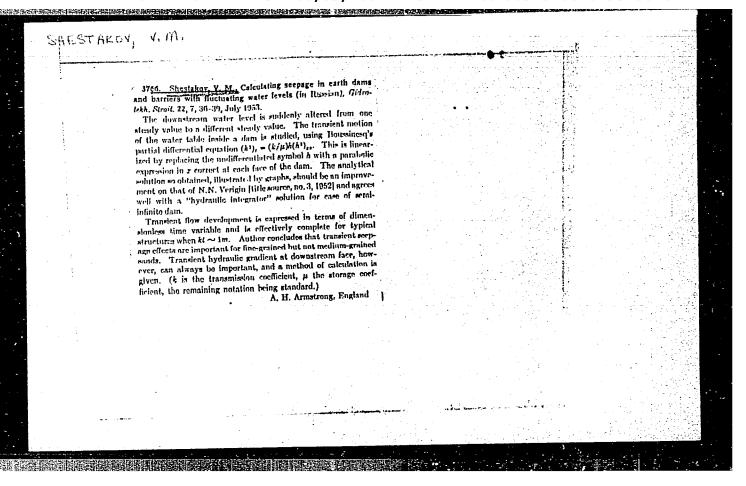
Shestakov, V. M. - "On certain production methods in concrete work", Sbornik trudov Studench. nauch.-tekhn. o-va (Mosk. inzh.-stroit. in-t im. Kuybysheva), Moscow, 1949, p. 27-35.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

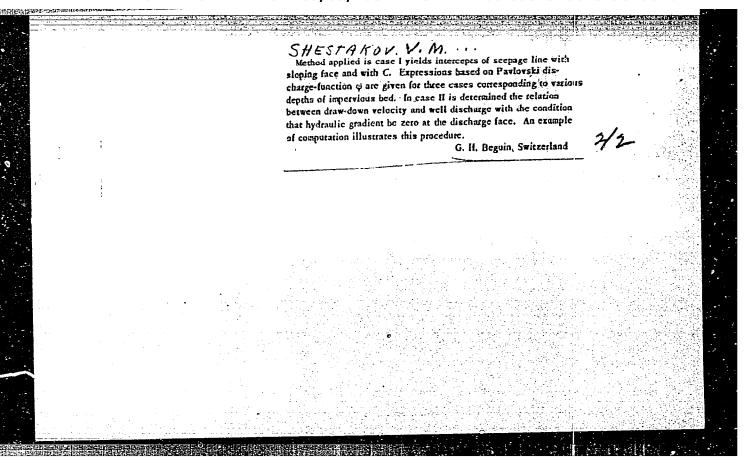
SHESTAKOV, V. M.

Shestakov, V. M. and Shestopal, A. O. - *Leaks and the appearance of washouts in hydrotechnical equipment*, Sbornik trudov Studench. nauch.-tekhn. o-va (Mosk. inzh.-stroit. in-t im. Kuybysheva), Moscow, 1949, p. 41-48.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).



3. 安排 - 二	Talk link in the second			6.
	SHESTAKOV, V.A			
		193. Shestakov, Y. M., Seepage forçes la apea cuts (in Russian), trotekb. Strott. 22, 10, 21–25, 1953.	L	
	/ is to	n a cut of trapezoidal section, made in a layer of homogeneous ous material resting on an impervious stratum, the water lever owered with velocity v. Problem considered (2-dim.) is to find page line and its international		
	Greek Oper	e drainage is present; in case II, a line of deep wells is	**	
	24	s stow that problem can be reduced to the equation		
		$(b^0)_i = kb/\mu \cdot (b^1)_{xx}. \tag{1}$		
	Fa cut.	r case I region is divided in two by vertical C through edge of For upstream portion equation [1] is reduced (Bagtov-Verigin)		
	to di tive : slopi mate is :23 solut	e heat equation, assuming constant the factor of the deriva- in x. Solution is immediate. For downstream portion, with the ing face, use is made of correspondence method. An approxi- value $b(x,t)$ is taken for b, and set into left side of [1], which proximated to $b_1 = k/2\mu \cdot (b^2)_{xx}$ and integrated. If $b = b$, into is exact. If equality holds only as a		
	~	s is sufficient for practical purposes, as shown by applica-	V2	
	Adaptive day and property of the second			



SHESTAKOV, V.M., kendidat tekhnicheskikh nauk.

Calculating seepage in earth dams and barriers at changing water levels.

Gidr.stroi. 22 no.7:36-39 Jl 153.

(MLRA 6:7)

(Dams) (Soil percolation)

SHESTAKOV, V. M.

11 Aug 53

USSR/Geophysics - Filtration Flow

"Investigations of the Internal Kinematics of Nonstationary Filtration Flow, and Derivation of the Equation of Nonstationary Filtration," V. M. Shestakov

DAN SSSR, Vol 91, No 5, pp 1047-1050

Tests experimentally the internal kinematics of nonstationary ground flow and derives Boussinesa's eq (Essai sur la theorie des eaux courantes (Theory of Flowing Water) 1877) in generalized form. Presented by Acad A. N. Terenin 17 Jun 53.

256174

SHESTAKOV, V.M., kandidat tekhnicheskikh nauk.

Calculating curves of depression in earth dams during the lowering of the water level of reservoirs. Gidr.stroi. 23 no.4:32-36 '54.

(Dams) (MIRA 7:7)

SHESTAKOV, V.M.

Determining filtration coefficients of anisotropic layers on the basis of pumped test samples. Razved.i okh.nedr 21 no.6:52-55 N-D 155. (MLRA 9:12)

Mater, Underground) (Soil percolation)

SHEE PAKOY, V. M.

AID P - 1800

Subject

: USSR/Hydraulic Engineering Construction

Card 1/1 Pub. 35 - 12/17

Author

Barenblatt, G. I. and Shestakov, V. M.

Title

: Canal seepage into dry soil

Periodical: Gidr. stroi., v.24, no.1, 40-41, 1955

Abstract

: A mathematical analysis of unstable ground water in an

inclined uniform impervious layer during the instant

change of level at the end of the layer as

established by equations. Two diagrams are given.

Four Russian references of 1945, 1952, 1952 and 1954.

Institution: None

Submitted : No date

SOV/124-58-1-908

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 121 (USSR)

AUTHOR: Shestakov, V.M.

Determination of the Hydrodynamic Forces in Earth Structures and TITLE:

Slopes Due to the Lowering of the Water Levels in Head- and Tailwater Basins (Opredeleniye gidrodinamicheskikh sil v zemlyanykh

sooruzheniyakh i otkosakh pri padenii urovney v b' yefakh)

PERIODICAL: V sb.: Vopr. fil'trats. raschetov gidrotekhn. sooruzheniy. Nr 2.

Moscow, Gos. izd-vo lit. po str-vu i arkhitekt., 1956, pp 98-128

A brief review of methods (by R. Muller, F. H. Kellogg, V. M. ABSTRACT:

Dombrovskiy, H. R. Cedergreen, E. Reinius, and I. A. Charnyy) for the approximate calculation of the hydrodynamic forces acting on the slopes of earth dams during variations in the water levels of the head- and tail-water basins. The author obtains an approximate solution for the case of the plane, one-dimensional, unsteady seepage of the ground water in a semi-infinite soil volume, where the boundary surface of the water basin is sloping. The draining-out interval on the boundary of the basin is not taken into consideration,

and it is assumed that the depth of the water in the basin decreases Card 1/2

SOV/124-58-1-908

Determination of the Hydrodynamic Forces in Earth Structures (cont.)

according to a linear law. If at the initial time moment the depth of the water in the basin is constant, the Boussinesq equation is linearized according to the Boussinesq method; if at the initial time moment a steady-state seepage regime obtains, the Boussinesq equation is linearized according to the method of L.S. Leybenzon. If either the draining-out interval along the boundary of the basin or the imperfection of the basin is to be taken into account, the author proposes the use of his own approximate relationships, which are established for the steady-state seepage regime. The approximate solution found is used in the approximate calculation of the transient seepage of ground water during the process of drying up a perfect foundation pit dug in the vicinity of a river, also in the calculation of the transient ground-water seepage in uniform earth dams equipped with a rock-fill drainage blanket during a lowering of the head-water level. The latter case is illustrated by a numerical example. The following errata require correction: 1) In formula (31) a^2 should read a; 2) in formula (51) et seq. $F_1(\lambda_1 n)$ should read $F_1(\lambda_1 n)$; 3) in formulas (59a) 2η should read 2 and $\Phi(n^2)$ should read $\Phi(n)$; 4) in formulas (77) and (92) L should read Lt; 5) in formula (91) the first "plus" in Hg+(h₁+h_b)² should be a "minus"; 6) in formula (92) the right-hand side of the equation requires an additional -h1. Bibliography: 26 references.

S. M. Numerov

Card 2/2

SOV/112-57-6-12884

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 6, p 176 (USSR)

AUTHOR: Shestakov, V. M.

TITLE: Some Problems of Simulating Transient Seepage
(Nekotoryye voprosy modelirovaniya neustanovivsheysya fil'tratsii)

PERIODICAL: V sb.: Vopr. fil-trats. raschetov gidrotekhn. sooruzheniy. Nr 2, M., Gos. izd-vo po str-vu i arkhitekt., 1956, pp 129-139

ABSTRACT: A similitude criterion is presented for simulating the problems of transient seepage by means of solid medium devices; it is pointed out that application of the above criterion is difficult because of the very small time scale involved that corresponds to a practically acceptable linear scale. Suggestions are made to simplify the simulation conditions by neglecting inertial terms; the above possibility is illustrated with an example of simulating the conditions of saturation of a dry ground massif under the conditions of a constant rate of lift of level at the boundary. The possibility is considered of investigating the seepage, allowing for the capillary zone, by means of a soil

Card 1/2

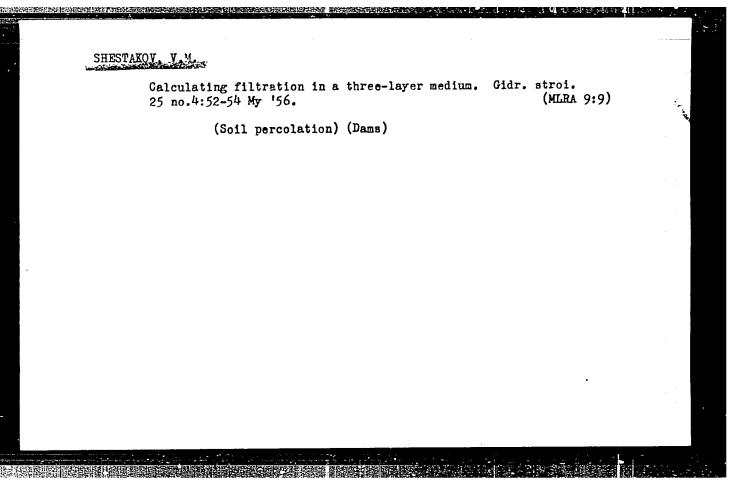
SOV/112-57-6-12884

Some Problems of Simulating Transient Seepage

or slit flume; it is noted that the soil-flume method allows for the capillary-zone effect more accurately. The possibility of generalizing the boundary-value conditions is pointed out, which widens the limits of solutions obtainable with models. An example is cited of calculating, by means of V. S. Luk'yanov's hydraulic integrator, the depression curves for a homogeneous earth dam that correspond to a level drop in the upstream water. Bibliography: 9 items. 4 illustrations.

I.M.V.

Card 2/2



SHESTAKOV, V.M.

Unsteady seepage through slanting imperevious rocks. Dokl. AN SSSR 108 no.5:791-794 Je 156. (MLRA 9:10)

1. Predstavleno akademikom L.I. Sedovym. (Soil percolation)

98-58-3-19/22

2000年12日 - 100 -

AUTHOR: Shestakov, V.M., Candidate of Technical Sciences.

TITLE: Conference on questions of Water Level Lowering in a Hydrotechnical Installation (Soveshchaniye po voprosam vodoponi-

zheniya v gidrotekhnicheskom stroitel'stve)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 3, pp 61-62(USSR)

ABSTRACT: At the end of 1957, a conference took place in the VNII VODGEO dealing with questions of water level lowering during hydro-

technical construction work. In this conference participated representatives of the GIDROSPETSPROYEKT, GIDROPROYEKT, GIDROENERGOPROYEKT, VODOKANALPROYEKT, FUNDAMENTPROYEKT, VNII VODGEO, NII of Foundations and Underground Constructions imeni Vedeneyev, TNISGEI, VSEGINGEO, Stalingrad Hydroelectric Power Station, and others. Reports made by M.P. Semenov, A.G. Lykoshin, O.N. Nosova, A.P. Korzhetskiy, V.D. Babushkin, V.M. Nasberga, G.K. Mamenko, dealt with questions of goologies.

Nasberga, G.K. Mamenko, dealt with questions of geologicohydrological conditions, and means of lowering the water level. Reports made by M.N. Pavlovska, V.M. Shestakov, R.N. Verigin

and F.M. Bochever, dealt with calculations of filtration in

Card 1/4 water level lowering installations. Reports of F.I. Emel'yanov

98-58-3-19/22

Bryandalag Gyfaffindin i ki li Bandalag Aleghia da dhelaga i S

Conference on questions of Water Level Lowering in a Hydrotechnical Installation

P.I. Volodenkov, M.F. Khasin, L.N. Vorobkov, P.V. Lobachev, D.G. Shneyder and P.V. Tsyurupa dealt with projects and installation of water level lowering. In the course of the discussion it became evident that water level lowering being an item involving considerable expense, ways and means should be found to improve the work while lowering the cost. The question of combining deep level draining with surface drainage was one of the most discussed points. As a result of the conference the following recommendations were submitted: 1) special investigation should be conducted to determine filtration characteristics in various kinds of soil and the influence of filtration on the sand base under varying hydrogeological conditions. 2) considering the numerous proposals which exist in regard to calculations of water level lowering, a complete and methodical survey should be made of all literature on the subject. The institutes VODGEO, VNIIG and VNIIOSP should participate in this work. 3) the question of combining deep level draining with open drainage requires further inve-

Card 2/4

98-58-3-19/22

Conference on questions of Water Level Lowering in a Hydrotechnical Installation

stigation, especially in such cases where the foundation pit crosses the water head in sandy soil. 4) greater attention should be paid to the organization of piezometric observations. 5) in view of the fact that large dredging machines operating in close vicinity to the water head interfere with the foundation soil, it would be advisable for GIDROPROYEKT to investigate the situation with a view toward limiting the distance from the installation at which dredges are permitted to operate. 6) economic problems, in connection with water level lowering should be studied by organizations in charge of projects, in cooperation with scientific-research institutes tention should be paid to the cost of deep level draining as compared with cost of open drainage. The general aim is to lower the cost of water level lowering, as well as of the entire complex construction work carried out under the protection of water level lowering installations. 7) in connection with water level lowering work it would be advisable to adopt a standard mobile set of pumping devices of the LIU type, having a capacity of $30-140 \text{ m}^{3}/\text{hr}$ and a 5.5 to 20 kw motor. 8) other

Card 3/4

98-58-3-19/22

Conference on questions of Water Level Lowering in a Hydrotechnical Installation

methods of water level lowering should also be investigated, such as drawing water from soil or by means of electroosmosis.

9) finally it was deemed necessary to work out new technical conditions for water level lowering in hydrotechnical installations.

Card 4/4

- 1. Dams-Construction 2. Dams-Design 3. Power plants-Construction
- 4. Dams-Costs