### CIA-RDP86-00513R001549930011-8 "APPROVED FOR RELEASE: 08/09/2001

Automatic Regulating and Control (Cont.)

sov/3317

5

mechanisms, are also explained. Some considerations regarding possible ways of automating butt welding in a random direction are presented. The authors of this collection are all instructors in the department of "Automation and Remote Control" at MVTU imeni Bauman. The articles are based on scientific research work conducted by the department during the last five years. Some personalities are mentioned in each article. References are given after each article.

### TABLE OF CONTENTS:

Ulanov, G.M., Doctor of Technical Sciences. Development of the Invariancy Principle and of the Theory of Combined Systems of Regulation and Control According to the author, the theory of invariancy constitutes the pasis of the theory of combined automatic systems which depend on two principles:

1) regulation and control as a function of deviation;

2) regulation and control as a function of load. Mathematical problems of invariancy were developed in the Soviet Union by N.N. Luzin and P.I. Kuznetsov in 1945-1946. In 1948 Academician V.S. Kulebakin established conditions of invariancy with an accuracy up to the free component. Professors A.G. Ivakhnenko,

Card 2/7

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8" Automatic Regulating and Control (Cont.)

sov/3317

A.J. Kukhtenko and other Ukrainian scientists contributed much to the advancement of the theory and methods of developing combined systems of automatic regulation and control. A tendency to unite the problems of combined systems and of self-adjusting systems appears in the works of V.V. Solodovnikov and A.M. Batkov (1956). The author summarizes the basic ideas of the Soviet scientists on the above problems.

Bibliography

14

Shramko, L.S., Candidate of Technical Sciences. Problem of Self-adjusting Systems

15

The author investigates some a-c systems which develop an error signal of the type  $U_{\varepsilon}(t) \cos \omega_0^{i}t$ . This signal, amplified and converted accordingly, is used for the control of certain actuating units (frequently, two-phase induction motors). There are two ways of converting this error signal;

1) with demodulation preceding the conversion of the a-c signal;

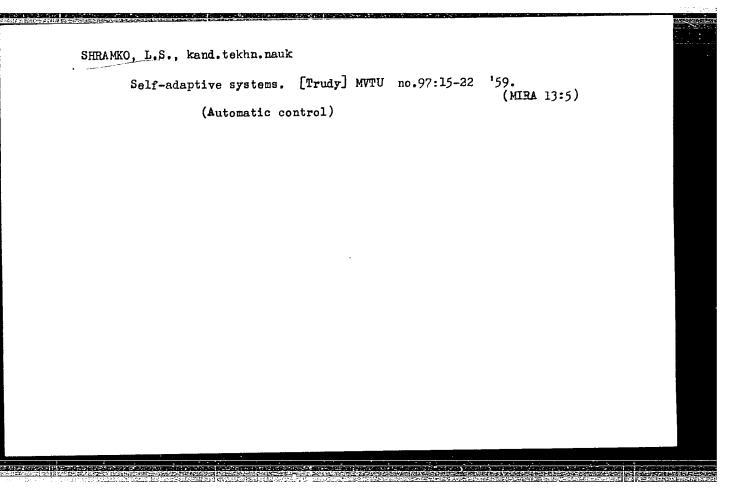
2) without intermediate demodulation The author considers systems of the second type the more advantageous because of the absence of additional demodulating and modulating devices.

 $\operatorname{Card} 3/7$ 

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8" SHRAMKU, L J

ALEKPEROV, V.P., inzh.; ATOVMYAN, I.O., inzh.; ZUYEV, V.I., inzh.; KAVUN, Ye.S., kand.tekhn.nauk; KOGAN, B.Ya., kand.tekhn.nauk; KOPAY-GORA, P.N., kand.tekhn.nauk; KULAKOV, A.A., inzh.; LEBEDEV, A.N., kand.tekhn.nauk; PAPERNOV, A.A., doktor tekhn.nauk; PEL'POR, D.S., doktor tekhn.nauk; PLOTNIKOV, V.N., kand.tekhn.nauk; RUZSKIY, Yu.Ye., kand.tekhn.nauk; SOLODOVNIKOV, V.V., doktor tekhn.nauk; TOPCHEYEV, Yu.I., kand.tekhn.nauk; ULANOV, G.M., kand.tekhn.nauk; SHRAMKO, L.S., kand.tekhn.nauk; DOBROGURSKIY, S.O., doktor tekhn.nauk, retsenzent; KAZAKOV, V.A., kand.tekhn.nauk, retsenzent; PETROV, V.V., kand.tekhn.nauk, retsenzent; KHAVKIN, G.A., inzh., retsenzent; SOLODOVNIKOV, V.V., prof., doktor tekhn.nauk, red.; VITENBERG, I.M., kand.tekhn.nauk, nauchnyy red.; MOLDAVER, A.I., kand.tekhn.nauk, nauchnyy red.; KHETAGUROV, Ya.A., kand.tekhn.nauk, nauchnyy red.; POLYAKOV, G.F., red.izd-va; KONOVALOV, G.M., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Fundamentals of automatic control] Osnovy avtomaticheskogo regulirovaniia. Vol.2. [Elements of automatic control systems] Elementy sistem avtomaticheskogo regulirovaniia. Pt 2. [Compensating elements and computer components] Korrektiruiushchie elementy i elementy vychislitelinykh mashin. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry. 1959. 453 p. (MIRA 12:4) (Automatic control) (Electronic apparatus and appliances) (Electronic calculating machines)



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

I 41426-65

ACCESSION NR: AT5009741

UR/0000/65/000/000/0342/0353

4 B+1

AUTHOR:

Shramko, L. S.; Chebyshev, A. V.

TITLE: Design of analytic adaptive systems using continuously acting elements

SOURCE: Analiticheskiye samonastravayushchiyesya sistemy avtomaticheskogo upravleniya (Analytical adaptive control systems). Hoscow, Izd-vo Mashinostroy-eniye, 1965, 342-353

TOPIC TAGS: analytical adaptive system, continuously acting element, gradient method adaptation, fast adaptive system, multiparameter adaptive system

ABSTRACT: The shortness of the adaptation time is one of the main advantages of analytical adaptive systems. While sampling systems using the gradient method have an adaptation time several times longer than the duration of the transient process, systems computing the components of the gradient exhibit an adaptation time whose order of magnitude is the same as the duration of the transient. Theoretical and experimental investigations (on a two-parameter prototype utilizing a two-phase asynchronous motor) confirmed the feasibility of adaptation by means of internal signals operating within the system. This eliminates the

need for auxiliary probing signals, i.e., removes the additional necessary but unwanted perturbations. The gradient method with component evaluation permits unwanted perturbations. The gradient method with component evaluation permits the design of adaptive systems tuned simultaneously by several parameters. The the design of adaptive systems tuned simultaneously by several parameters. The article concludes with a brief comment concerning the practical realization of article concludes with a brief comment concerning the practical realization of adaptive systems of the type described. Orig. art. has: 8 formulas, 11 figures, and 2 tables.				
ASSOCIATION: None				
SUBMITTED: 15Dec6	4	ENCL: 00	SUB CODE: 1E	
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			기를 받는 사람이 함께 있다. 전기를 보는 수 있는 것을 가장하는	
			사이스 돌아야는 사람들이 가게 있다는 어떻게	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

CHILLIO, H. r., Master McG Sci— (case) "The matemorphology of the Artyus-Sakharov altergic reaction of the skin and liver to the deprecaion and irritation of the increase system. (Experimental research). Odessa, 1957, 15 pp. (Odessa State Med Med Inst im. N. I. Pirogovy), 200 copies.

(KL, No 20, 1957, p. 96)

SHRAMKO, N.P.

Case of ascarids immobilized in the esophagus. Med.paraz. i paraz. bol.supplement to no.1:74-75 '57. (MIRA 11:1)

1. Iz kafadry patologicheskoy anatomii Vinnitskogo meditsinskogo instituta (ASCARIDS AND ASCARIASIS)

```
SHRAMKO, N.P., RYBINNIK, I.M.

Anuria caused by thrombosis of the renal artery. Urologiia (MIRA 11:11)

1. Iz kafedry patologicheskoy anatomii (zav. - dotsent N.V. Konstantinovich) Vinnitskogo meditsinskogo instituta i urologicheskogo otdeleniya (zav. I.M. Rybinnik) Vinnitskoy oblastnoy bol'nitsy (nauchnyy rukovoditel' - dotsent M.V. Pinevich).

(ANURIA, etiology & pathogenesis throbosis of renal artery (Rus))

(KIDNETS, blood supply thrombosis of renal artery causing anuria (Rus))

(THROMBOSIS, case reports renal artery, causing anuria (Rus))
```

SHICAMKO, N.P., kand.med.nauk (Vinnitsa, ul.1 Maya, d.140)

Hemorrhagic gangrene of the entire small intestine due to tuberculous pylethrombosis. Nov. khir. arkh. no.4:99-101 J1-Ag 161. (MIRA 15.2)

1. Kafedra patologicheskoy anatomii (zav. - doktor med.nauk N.V.Konstantinovich) Vinnitskogo meditsinskogo instituta. (VEINS\_TUBERCULOSIS) (INTESTINES\_DISEASES)

KONSTANTINOVICH, N. V., prof.; GOMENYUK, I. P., kand. med. nauk; SHRAMKO, N. P., kand. med. nauk; ZHABIN, V. I., dotsent

Frequency of metastases of uterine cancer into the ovaries. Akush. i gin. 38 no.3:74-78 My-Je '62. (MIRA 15:6)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. N. V. Konstantinovich) i kafedry akusherstva i ginekologii (zav. - prof. M. K. Ventskovskiy) Vinnitskogo meditsinskogo instituta imeni N. I. Pirogova.

(UTERUS\_CANCER) (OVARIFS\_CANCER)

SHRAKKO, O.S. (Rostov-na-Donu).

Using models in arithmetic classes of grades 5 and 6. Mat. v shkole no.2:59-64 Mr-Ap '58. (MIRA 11:2)

(Arithmetic-Study and teaching)

SHRAMKO, O.S. (Rostov-na-Donu)

Teaching mathematics in grades five and six. Mat. v shkole
(MIRA 15:7)

no.3:11-13 My-Je '62.
(Mathematics—Study and teaching)

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DANILOW, V.I.; KRUGLYAK, Yu.A. [Kruhliak, IU.O.]; TOLFYGO, F.B.[Tolpyho, K.B.];
SHPAMEO, C.V.

Statistical analysis of a protein text. Dop. AN URSR no. 5:627-630
165.

1. Institut fizicheskoy khimii AN UkrSSR.
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SHRAMAR, I..., INCOME, E.I.; MARGIYAK, Yu.A.

P. salectron structure of rare pairs of bases of DNA and the mechanism of spontaneous mutations connected with taut.merism of bases. Rucfizika 10 no.4:561-566 '65. (MTRA 18:8)

1. Institut fiziohesky khimii im. I.V. Fisanzhevskogo AN PhysNit, kiyev.

DANTICY, V.1.; TOLPYGO, K.B.; SHRAMKO, G.7.

Redundancy and error-resistance of the code of protein synthesis.

Daki. AN SSSR 163 no.5:1282-1284 Ag '65.

(MIRA 18:8)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN UkrSSR. Submitted October 8, 1964.

KRUGLYAK, Yu.A.; DANILOV, V.I.; SHRAMKO, O.V.

Systems of nucleic acid base pairings. Biofizika 10 no.3: 399-403 '65. (MIRA 18:11)

1. Institut fizicheskoy khimii imeni Pisarzhevskogo AN UkrSSR, Kiyev. Submitted July 28, 1964.

Correlation between adjacent amino acid radicals in proteins.

Correlation between adjacent amino acid radicals in proteins.

Dokl. AU SSSR 160 no.5:1191-1193 F 165.

(MIRA 18:2)

1. Institut fizicheskoy khimli im. L.V. Pisarzhevskogo AH UkrSSR.
Submitted June 4, 1964.

BERTH, .. I.

SHFANKO, P. N.- "Dearch for Methods of Lowering the Output of Tangled Fibers in the Operation of the Combing Apparatus in the LK-7 Flax Combine." Min of Higher Education USCR, Leningrad Agricultural Inst, Leningrad, 1955 (Dissertations for Degree of Candidate of Technical Sciences)

SO: Knizhmaya Letopis 10. 26, June 1955, Moscow

SHRAMKO, P.P.—,

Phosphorites in the northwestern Donets Basin. Geol. zhur. 20
no. 3:79-81 '60. (MIRA 14:4)

(Donets Basin---Phosphorites)

SHRAMKO, P.P.; LEPCHENKO, G.Ya. [Lepchenko, H.IA.]

Dynamogranite and its enclosing rocks in the Delovoye region of Transcarpathia. Geol. zhur. 20 no. 5:56-60 '60. (MIRA 14:1)

(Transcarpathia—Granite)

. 52093-65 EWT(d)/ENT(1)/FA/T-2/EMP( CCESSION NR: AP5015356 BC	(1) Pg-4/Pk-4/P1-4/Po-4/Pq-4/ IJP( UR/0286/65/000/009/0100/0100	97
CCESSION AK: AF SOISSON	621-576 49	1
UTHOR: Chelishchev, B. A.; Shramko, V.	D.; KOKOTEY 4	
CITIE: A pneumohydraulic servomechanism.	$oldsymbol{n}$	
SOURCE: Byulleten' izobreteniy i tovarny	ykh znakov, no. 9, 1965, 100	
TOPIC TAGS: automatic control, pneumatic	c control, pneumatic device	
ABSTRACT: This Author's Certificate into The device contains a piston-type pneuma draulic damper. The damper rod is rigid servo. High speed operation is provided chokes and a single-aperture symmetric shydraulic damper chambers. The symmetri diaphragms. The chambers above these di	roduces a pneumohydraulic servomechanism. tic servomechanism and a piston-type hylly connected to the rod of the pneumatical by mounting two check valves, two fixed slide valve in the line which connects the calide valve is rigidly connected with taphragms are connected by pneumatic lines aryomechanism. This valve has two auxiliates the valve apertures with negative exhaus	two

ACCESSION NR: AP5015356		- i-atitut kugnachna-			
ASSOCIATION: Eksperimental'nyy nauchno-issledocatel'skiy institut kuznechno- pressovogo mashinostroyeniya (Experimental Scientific Research Institute of Forging Machine Building)					
SUBMITTED: 12Aug63	ENCL: 00	SUB CODE: DP ,IR			
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### CIA-RDP86-00513R001549930011-8

L 14445-66 EWT(d)/EWP(h)/EWP(1)

ACC NR: AP6002966

SOURCE CODE: UR/0286/65/000/024/0134/0135

INVENTOR: Chelishchev, B. A.; Shramko, V. D.; Kokorev, V. I.

ORG: none

TITLE: A manipulator for holding and transferring workpieces. Class 49, No. 177256 [announced by the Experimental Scientific Research Institute for Construction of Stamping and Forging Machines (Eksperimental'nyy nauchno-issledovatel'skiy institut kuznechno-pressovogo mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 134-135

TOPIC TAGS: material handling, remote handling equipment, pneumatic servomechanism

ABSTRACT: This Author's Certificate introduces a manipulator for holding and transferring workpieces. The device contains a stand made in the form of a column which is connected to the tong assembly through a system of hinged levers, e.g. by vacuum suction devices equipped with a pneumohydraulic servodrive and a pneumatic programmed remote control system. The manipulator is designed for picking up and transferring workpieces to any point within its servicing radius and orienting them in the proper

Card 1/3

UDC: 621.86.062

L 14445-66

ACC NR: AP6002966

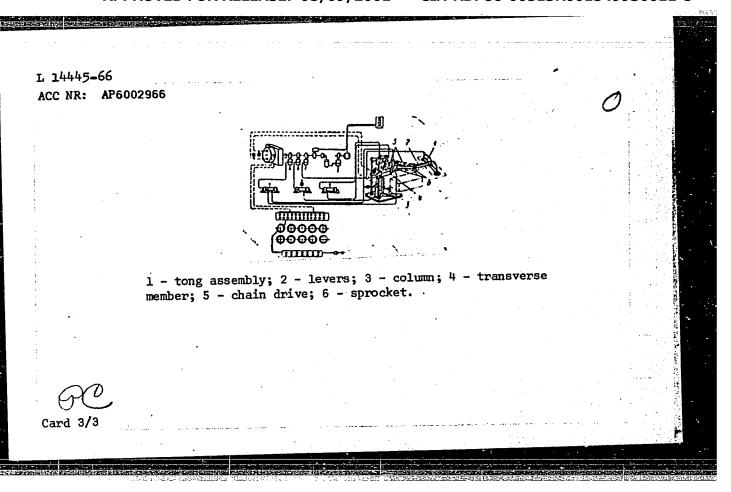
position. The tong assembly is connected by levers to a transverse member mounted in the column so that it can be moved in the vertical direction. The lever system is equipped with a chain drive with sprockets mounted on the hinged axles in the system. These sprockets may be used for individual control of each lever and for orienting the tong assembly in the proper position.

SUB CODE: 13/ SUBM DATE: 27Dec63

Card 2/3

# "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549930011-8



ALEKSEYEV, Ya.K. (g. Nizhnedneprovsk); PETRUSHEVSKIY, A.P. (g. Nizhnedneprovsk); SHRAMKO, V.I. (g. Nizhnedneprovsk).

Labor upswing. Put' i put. khoz. no.2:29 F '59. (HIRA 12:3)

1. Nachal'nik Nizhnedneprovskogo strelochnogo zavoda, g. Nizhnedneprovsk (for Alekseyev). 2. Glavnyy inzhner Nizhnedneprovskogo strelochnogo zavoda (for Petrushevskiy). 3. Glavnyy tekhnolog Nizhnedneprovskogo strelochnogo zavoda (for Shramko)

(Nizhnedneprovsk--Railroads--Switches)

Shramko, V. L.

23560. LESORAZGRUZOCHNAYA USTANOVKA. (RAZGRUZKA OTKRYTYKH Zh-D VAGONOV). MEKHANIZATSIYA STROIT- VA, 1919, No 7, c. 18.

SO: LETOPIS' NO. 31, 1949

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

SHRAMKO, V.L. (Dneporpetrovsk)

Denpropetrovsk switch factory adapts its production railroad workers' needs. Put' i put.knoz. 4 no.9:40-约1 S '60. (MIRA 1319)

1. Glavnyy inzhener Dnepropetrovskogo strelochnogo zavoda. (Dniepropetrovsk--Railroads--Switches)

SHRAMKO, V.L.

Small pneumatic tamping iron. Mashinostroitel' no.11:17 N '60.

(MIRA 13:10)

(Pneumatic tools)

# Me manufacture high-strength switches. Put' i put.khoz. 5 no.7:24 Jl '61. (MIRA 14:8) 1. Glavnyy tekhnolog Denepropetrovskogo strelochnogo zavoda, g. Dropropetrovsk. (Dnepropetrovsk--Railroads--Switches)

Ash content of coal has been reduced 3.5 times. Ugol' Ukr. 3 no.2:36 F '59. (MIRA 12:3)

1. Glavnyy mekhanik shakhty No. 30 tresta Rutchenkovugol. (Coal mines and mining)

MITKEVICH, A.V.; SHRAMKO, Ye.G.

Study of the stability of magnetic systems with magnets within their frameworks and determination of their temperature coefficients. Elektrichestvo no.1:69-72 January (MIRA 14:12)

l. Leningradskiy politekhnicheskiy institut imeni Kalinina.
(Magnetic circuits)
(Magnetic instruments)

SHRAMKO, Yu.

Let us disseminate technical knowledge among young people. Za rul. 20 no.3:1-2 Mr '62. (MIRA 15:3)

1. Zaveduyushchiy otdelom TSentral'nogo komiteta Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi. (Technical education)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

ROZHANSKIY, Z.Ye., inzh.; SHRAMKO, Yu.S., tekhnik Protective circuit using two IT-85 (86) relays and one isolating

coil for the prevention of interphase short-circuits. Energetik 8 (MIRA 13:10) no.8:25-26 Ag 160.

(Electric protection) (Electric relays)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8" ROZHANSKIY, Z.Ye.; SHRAMKO, Yu.S.; FEDORENKO, F.A.; LYSIKOV, A.N.

Central signaling networks using telephone relays with overlapping contacts. Prom.energ. 16 no.11:33-34 N '61. (MIRA 14:10) (Electric networks) (Electric relays)

ROZHANSKIY, Z.Ye., inzh.; SHRAMKO, Yu.S., tekhmik; ZAIKA, N.V., tekhnik; YAROSH, Yu.V., tekhnik; ARONSON, V.R., tekhnik

An impulse signaling device using transistors. Energetik 10 (MIRA 16:1) no.12:17-19 D '62. (Electric relays) (Electric networks)

L 40847-66 EWT(1)

ACC NR: AP6009935

SOURCE CODE: UR/0118/65/000/011/0022/0023

AUTHOR: Piskunov, Yu. N. (Engineer); Shramko, Yu. S. (Engineer)

ORG: none

TITLE: A semiconductor multi-circuit time relay 15

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 11, 1965, 22-23

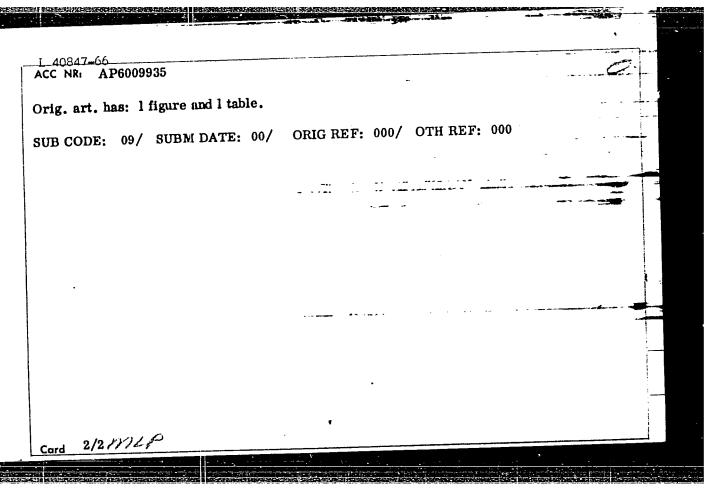
TOPIC TAGS: time relay, circuit design, transistorized circuit

ABSTRACT: The authors propose a simple time relay for the control of processes, requiring alternate switching-on with a time-interval accuracy of not more than  $\pm 10\%$ . The relay consists of a master oscillator, three frequency dividers, and a decoding unit to the output of which are connected time-sensor switches (designed to operate on a second, minute, and hour basis). The minimum time delay is 5 sec and the oscillation period of the multivibrator is 2.5 sec. The decoder is used to transform the binary code reading provided by the counter arrangement into the decimal code. Semiconductors of type P-16, P-13, and D9D (diode) are used in the relay. Collector circuits are fed with a voltage of 12 v received from a transistor-ized voltage stabilizing network. Bias circuits are driven by + 5 volts. The time relay was manufactured and has been operating in the laboratories of UKRNNIIKhIMMASh since 1962.

Card 1/2

UDC: 621.318.7

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"



PISKUNOV, Yu.N., inzh.; SHRAMKO, Yu.S., inzh.

Electronic relay with a thyratron for controlling the completion of filtrate outflow. Mekh. i avtom.proizv. 19 no.2:29-30 F 165. (MIRA 18:3)

SHRAMKOV, A.Ya., inshener.

Taking into account the correction term in a double bridge equation.

Elektrichestvo no.6:72 Je '53.

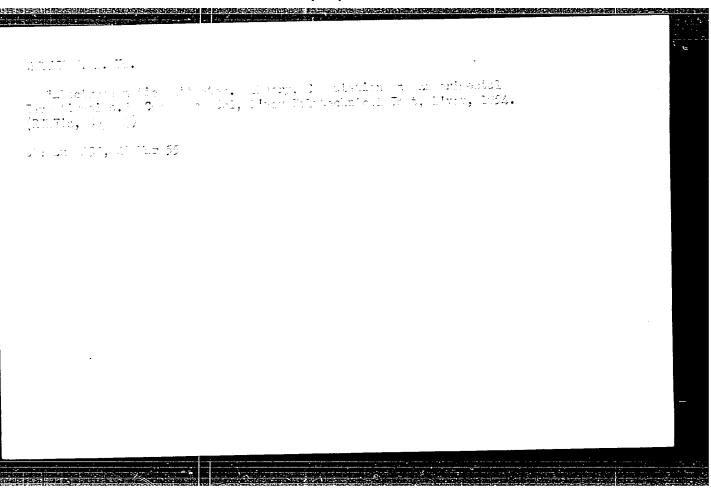
1. L'vovskiy politekhnicheskiy institut.

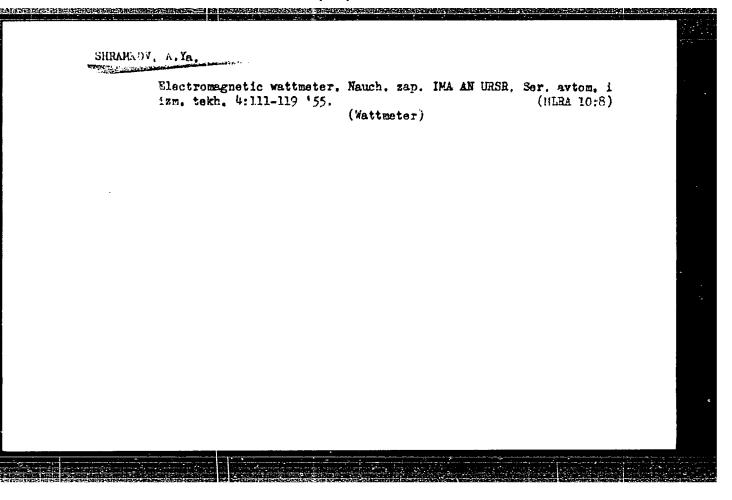
(Electric circuits)

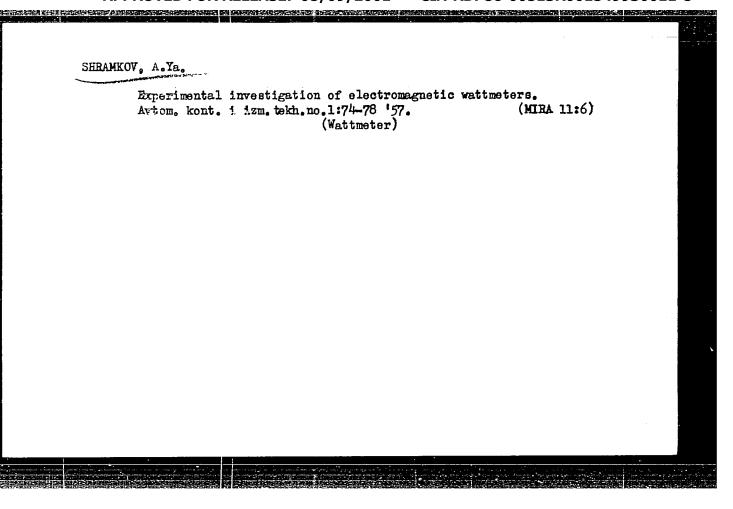
KARANDEYEV, K.B., professor; SHRAMKOV, A.Ya., inzhener.

Rectifying watt-meters. Elektrichestvo no.12:44-47 D '53. (MLRA 6:11)

1. L'vovskiy politekhnicheskiy institut. (Wattmeter)

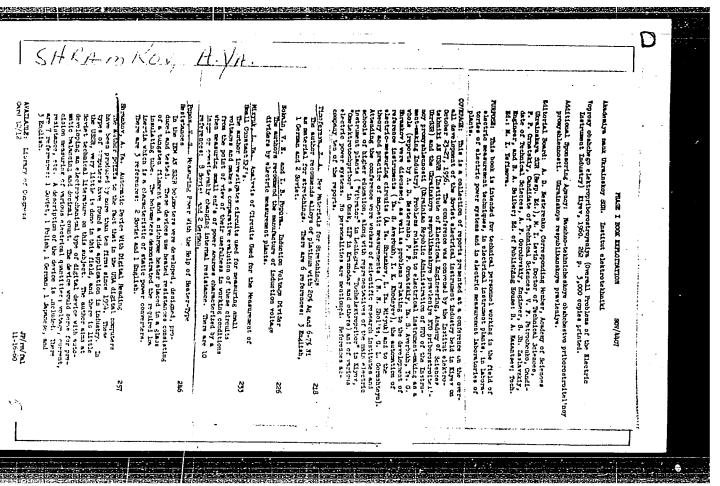






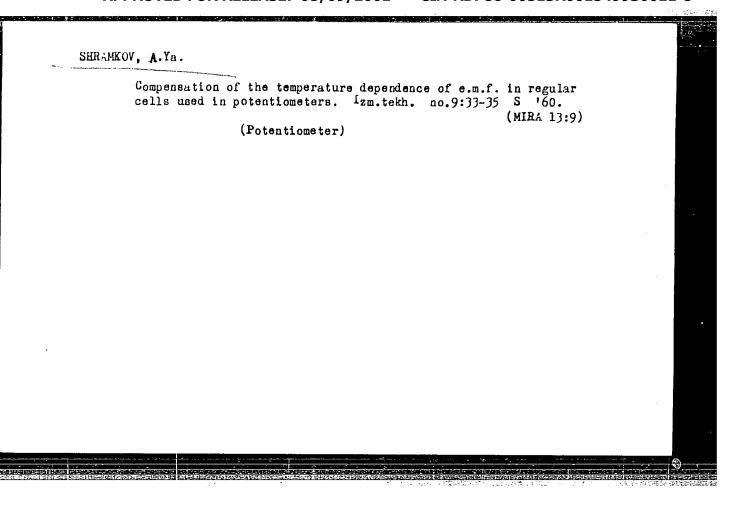
## "APPROVED FOR RELEASE: 08/09/2001

#### CIA-RDP86-00513R001549930011-8



KIRIANAKI, N.V.; OBOZOVSKIY, S.S.; SHRAMKOV, A.Ya.

Classification of digital electromechanical measuring devices.
Avtom.kont.i elek.izm. no.l:47-54 '60. (MTA 15:8)
(Electric measurements)
(United States—Electric measurements)



#### "APPROVED FOR RELEASE: 08/09/2001

#### CIA-RDP86-00513R001549930011-8

S/263/62/000/011/016/022 1007/I207

AUTHOR:

Boris, Ya. V. and Shramkov, A. Ya.

TITLE:

Device for measuring the time constant of precision resistances

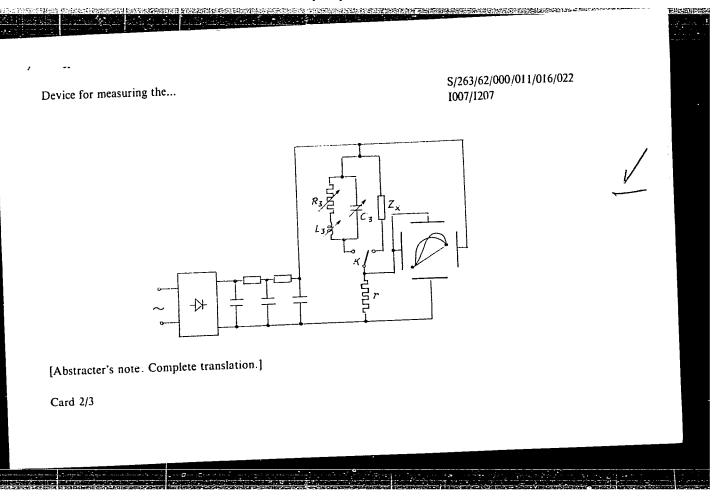
PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 11, 1962, 47-48,

abstract 32.11.359. "Nauchn. zap. L'vovsk. politekhn. in-t.", no. 79, 1961, 104-108

TEXT: The time constant of resistances can be measured and directly read by comparing the curves of transient processes developing in reference and tested resistances under the action of equal, rectangular voltage-wave pulses. The current-intensity curve, when subjected to such voltage pulses, does not repeat the shape of voltage curves but varies according to a certain definite law determined by the relationship between the coil parameters R, L and C. The voltage to the measuring device is fed (see figure) from the last capacitor of a two-section filter. The selection of the proper time constant for capacitor charging and discharging ensures a rather complete recovery of the capacitor voltage during disconnection of the circuit by means of the key K, and an almost complete discharge of the capacitor on closing the circuit. The shape of the curve reproduced on the screen of the device, makes it possible to infer the capacitive or inductive nature of the reactance to be measured. The connecting frequency of the switch is raised to 250–500 cps. At a valve sensitivity of 0.25 mm/v, the error in determining the values of L and C does not exceed 2–3%. Changes in both inductance variometer and variable capacitor are recorded on the screen with an accuracy of 1%. The circuitry of the

Card 1/3



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

Device for measuring the...

S/263/62/000/011/016/022 I007/I207

device has no amplifying system. The pulsating feeding of the device to be tested permits the voltage to be selected at relatively high values (up to 200 v or even more) so that the current, induced in the resistance, does not exceed 0.1 to 0.5 v. Measurements by means of the described device are carried out in the following way: inductance L and capacitance C are first set at zero. Tuning of resistance R ensures the coincidence of two points corresponding to the end of the transient process. Next L and C are tuned to give coincidence of the lines connecting the starting and end points. The time constant is finally found from the formula

$$\tau = \frac{L}{R} - CR$$

The device permits the measurement of the time constant over a range from  $1.10^{-5}$  sec to  $1.10^{-7}$  sec for several bands corresponding to resistances varying from 0.1 to 100,000 ohm.

Card 3/3

S/880/61/000/079/004/011 E194/E455

AUTHORS: Karandeyev, K.B., Shramkov, A.Ya., Krasilenko, V.A.

TITLE: The use of nonlinear resistances in automatic self-

balancing bridges

SOURCE: Lvov. Politekhnichnyy institut. Nauchnyye zapiski.

no.79. Voprosy elektroizmeritel'noy tekhniki. no.1.

1961. 98-103

TEXT: The object of the work was to develop a self-balancing bridge for temperature recorders and similar devices which should be as simple and reliable as possible, avoiding the customary use of a motor-driven rheostat as the balancing device in one arm of such bridges. One arm is the resistance to be measured, which may be a pick-up; another comprises an incandescent lamp filament: the remaining two arms are constant resistances selected to suit the bridge operating conditions. Feed-back is provided between bridge input and output. A small bridge-operating input voltage, insufficient to affect the lamp resistance, gives an out-of-balance output voltage which is amplified and applied to the bridge input together with the low operating-voltage. This heats the lamp so Card 1/3

S/880/61/000/079/004/011 E194/E455

The use of nonlinear ...

that its resistance is increased and the bridge approaches balance, but there will always be sufficient out-of-balance to maintain current through the lamp. This, of course, depends on the resistance of the pick-up or other object measured. input voltage from the amplifier is a measure of the pick-up resistance and can be measured by a suitable meter. balance required to keep the bridge in the equilibrium position should be as small as possible, certainly not more than 0.2 to 0.3 of the principal error of the instrument. For example, when the out-of-balance is 0.1% the amplification factor should be at least The bridge operating-voltage should be about 100-th of the amplifier output voltage to ensure that it does not affect the lamp filament temperature. In a bridge using a low-voltage incandescent lamp (1 V, 75 mA), the amplifier amplification was 14000, the thermometer resistance ranged from 100 to 300 ohms and the other bridge components had stated values. The relationship between the pick-up resistance and the meter reading (max 3 mA) was almost linear. The auxiliary voltage was 15 mV. The circuit responded stably to smooth changes in the pick-up resistance; Card 2/3

The use of nonlinear ... \$\\$80/61/000/079/004/011 \\ \text{E194/E455}

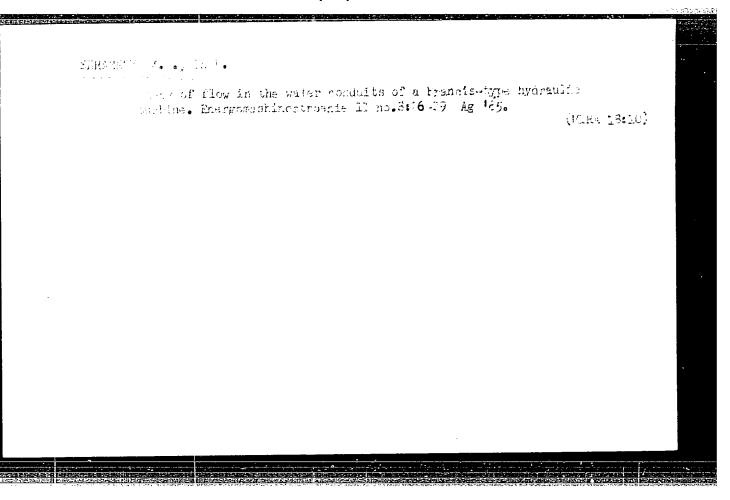
the overall speed of operation and error depended mainly on the indicating instrument used. There are 4 figures.

Card 3/3

GONTHAROV, V., man, elektrik Shrabcov, G., komandir korallya II-14 (Tashkent);
KRAVOHENEO, V., in a., (KIYEV); DVOHRACERO, C., komandir vertoleta; OKUN',
I.; KRAVOHENEO, V., BIROVCKIY, P., LOZIKIV, D., aviatekonik (Dushanbe)

Readora' lebises, drashd, av. 22 no.0314-19.18 F '65. (MIRA 18:5)

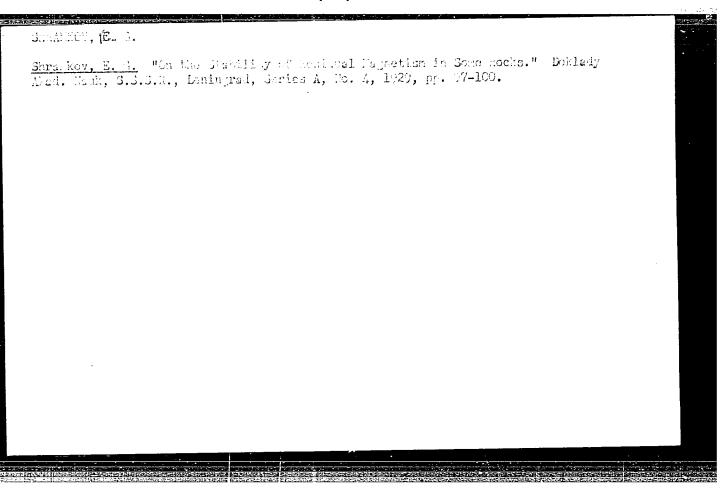
1. Nachal'nik Kiyevokogo glavdogo rayednig dispetcherskogo punkta
'for Okun'), 2. Nachaltik shushby radiolokatsii i radionavigatsii,
g. l'vov (for Kravnikov), 3. Nachal'nik Millerovekogo aeroporta (for
Diskovskiy).

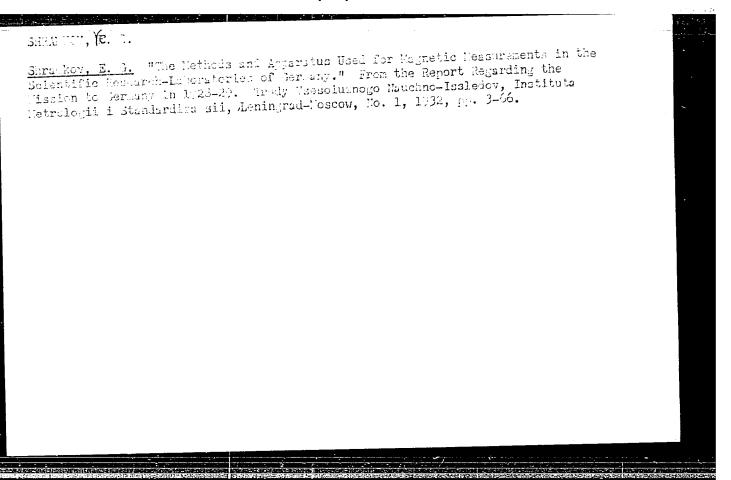


BLEGA, O.; ENGEL'BERT, O.; YEZHKOVA, Z.; SHRAMKOVA, Ya.

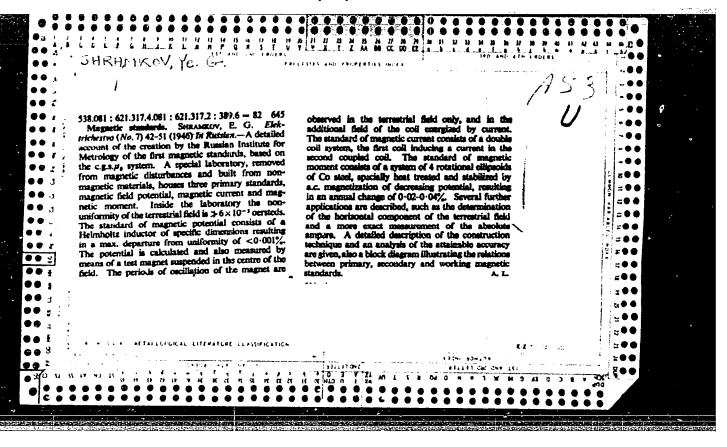
Importance of autoimmunization reactions in the diagnosis of diseases of the thyroid gland. Probl. endok. i gorm. 11 no.4: 21-25 Jl-Ag 165. (MIRA 18:11)

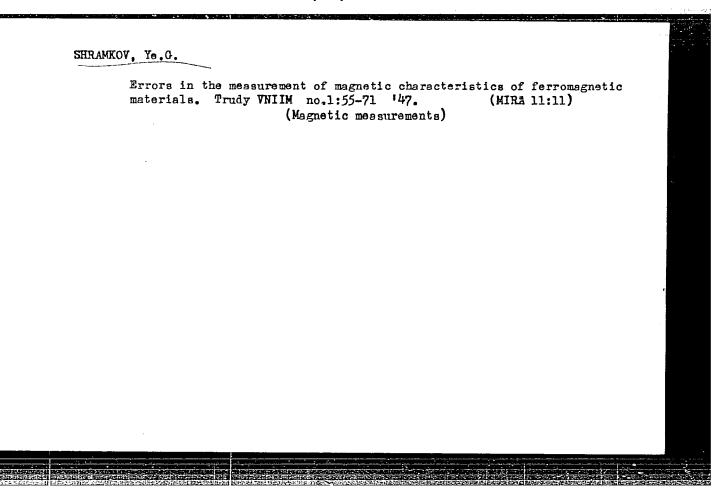
1. 3-ya terapevticheskaya klinika, Praga.





APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"





SHRAMKOV, Ye, G.

PA 164T21

USSR/Electricity - Terminology

Jul 50

Measuring Instruments

"Classification of Electric Measuring Instruments," Ye. G. Shramkov, Dr Tech Sci, Leningrad Polytech Inst imeni Kalinin

"Elektrichestvo" No 7, pp 80-86

Stresses importance of establishing unified general terminology based on scientific classification of electric measuring instruments. Suggests system which would replace existing OST/VKS 8005 and OST 7656 standards which have been in force since 1935. Invites discussion and criticism of new proposals.

164721

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

SHRAMKOV, YE. G.

WSSC/Electricit: - Personalitics

Aug 52

"Professor L. P. Neyman: on His 50th Birthday," A.A. Gorev, P.H. Goryanov, I.A. Zaytsev, A. M. Zalesskiy, N.D. Kamenskiy, N. P. Kostenko, A. G. Lur'ye, H. H. Hikhaylov, M.A. Shatelen, Ie. G. Shrankov

"Elektrich stvo" no 8, pp 92, 93

Peviews Reynan's scientific, administrative, and educational work, and organizational affiliations. Specifies following as principal fields of his scientific activity: investigation of phenomena in nonlinear electromates with iron; special problems of electromagnetic processes in converter installations for transmission of high-voltage de power; and electromagnetic processes in converter installations for transmission of high-voltage de power; and electromagnetic processes in acrohydrodyna ic systems.

:35TLC

SHRAMKOV, Ye.G.

Batablishing a magnetic standard in absolute units. Trudy VNIIM
no.10:5-42 '52. (Mira 11:6)

(Magnetism—Standards)

#### "APPROVED FOR RELEASE: 08/09/2001

#### CIA-RDP86-00513R001549930011-8

,

PA 243T29

USSR/Electricity - Scientists

Feb 53

"Professor A. M. Zalesskiy (In Connection with His 60th Birthday)," M. A. Shatelen, L. P. Newman, M. P. Kostenko, I. A. Zaytsev, Ye. G. Shramkov, M. D. Kamenskiy, B. I. Domanskiy, V. A. Belyakov, V. T. Renne, V. P. Andreyev, L. M. Piotrovskiy, B. N. Mikhalev, G. A. Kukekov, Yu. A. Sabinin

Elek-vo, No 2, p 94

والمستثند

Recounts chief events in professional life of Prof Aleksandr Mikhaylovich Zalesskiy, born 27 Nov 1892. Long active in field of high-voltage techniques, he has been Chairman of Administrative Board of VNITOE since 1945.

PA 248T29

AID P - 2946

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 11/15

Authors : Shramkov, Ye. G., Doc. of Tech. Sci., Prof., V. O.

Arutyunov, Doc. of Tech. Sci., Prof., A. M. Turichin, Kand. of Tech. Sci., Dotsent, and P. V. Novitskiy,

Kand. of Tech. Sci., Dotsent

Title : Certain problems of electrical measurements

Periodical: Elektrichestvo, 8, 75-78, Ag 1955

Abstract : The authors discuss certain general problems of

electrical measurements, in particular those rising with the rapid development of automation. Remote electrical measurements are one of the important

elements of automation. The authors concentrate their attention on the achievements of Soviet technique and indicate the paths of future development in this field.

Institution: None

Submitted : Not given

SHRAMKOV, YE. G.

112-3-6142

Translation from: Referativnyy Zhurnal, Elektrotekhnika,

Nr 3, 1957, p. 157 (USSR)

AUTHORS:

Shramkov, Ye. G., Chernyshev, Ye. T.

TITLE:

Translation of Magnetic Quantities from Standard to Practical Units (Peredacha znacheniy magnitnykh yedinits

ot etalona rabochim meram)

PERIODICAL:

Tr. Vses. n.-i in-ta metrol., 1956, Nr 29 (89),

pp. 5-17.

ABSTRACT:

A checking circuit for magnetic measurements compares the field intensity and magnetic flux of specimen coils with practical standards, which in turn are compared with electromagnetic standards (Shramkov, Ye. G., Tr. Vses. n.-1 in-ta metrol., 1952, Nr 10 (70)). The practical measurements are compared with the standard measures. The most accurate method of comparing magnetic measurements is the zero or ballistic method, in which the secondary windings of the coils being compared are connected either according to one of the bridge connection diagrams or as bucking coils in series

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

SHRAMKOV, YE.G.

112-3-6143

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Wr 3, p. 157 (USSR)

AUTHORS:

Shramkov, Ye. G., Sokolova, Ye. A.

TITLE:

Reference Installation for Comparing Measurements of Magnetic Flux, Magnetic Field Intensity and Exploring Coils (Obraztsovaya ustanovka dlya slicheniya mer magnitnogo potoka napryazhennosti magnitnogo polya i

izmeritel'nykh katushek)

PERIODICAL:

Tr. Vses. n.-1 in-ta metrol., 1956, Nr 29 (89),

pp. 18-22

ABSTRACT:

The basic circuit and construction of a stationary measuring installation for comparing magnetic measurements by the zero or ballistic method are described. The technique of comparing measurements is explained, and the results of comparisons are presented to show that the error in translating the value of magnetic units does not exceed 0.1%. On the basis of the simplicity and ease of operation of the installation, it is suggested that it be adopted widely in measurement

practice for checking magnetic measures.

Card 1/2

G.L.G

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

ARUTYUHOV, V.O.; GORBATSEVICH, S.V.; ZUBRILIN, V.P.; KOLOSOV, A.K.; ROMANOVA, M.P.; TIXHODNYEV, P.M.; CHERNYSHEV, Ye.T.; SHIROKOV, K.P.;
SHRAMKOV, Ye.G.; YANOVSKIY, B.M.

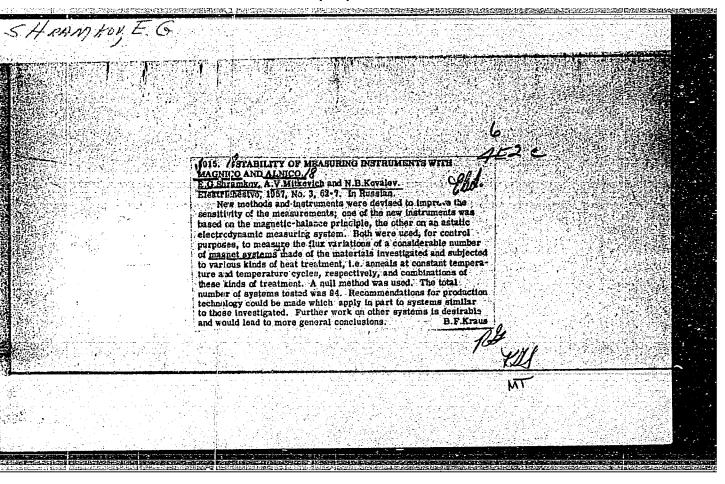
Mikhail Fedoseevich Malikov; on his 75th birthday. Ism. tekh. no.2:
85-86 Mr-Ap '57.

(Malikov, Mikhail Fedoseevich, 1882-)

SMIRNOV, V.S.; USOV, S.V.; KOSTENKO, M.P.; HEYMAN, L.R.; ZAYTSEV, I.A.; SERAKKOV, Ye.C.; NESGOVOROVA, Ye.D.; PAL'IDR, Ye.A.

Professor L.M. Piotrovksii; on his 70th birthday and 45th anniversary of scientific and pedagogical activities. Blektrichestve no.2:93 F '57.

(Piotrovskii, Liudvik Mar'ianovich, 1886-)



ARUTYUNOV, V.P.; DOLINSKIY, Ye.F.; KOLOSOV, A.K.; MAKSIMOV. L.M.; ROMANOVA.

N.F.; RUDO, N.M.; CHECHURINA, Ye.N.; SHIROKOV, K.P.; SHRAMEOV.

Ye.C.; YANOVSKIY, B.H. E.T. Chernyshev; 50th birthday anniversary and 30th anniversary of sciontific and pedagogic activities. Izm. tekh. no.3:91 My-Je '57. (Chernyshev, Evgenii Titovich, 1907-)

AUTHOR: Shramkov, Ye.G. 115-5-39/44

TITLE: Session of the Advisory Committee for Electricity of the International Committee of Measures and Weights (Sessiya konsultativnogo komiteta po elektrichestvu Meshdunarodnogo komiteta

mer i vesov)

PERIODICAL: "Izmeritel'raya Tekhnika", No 5, Sep-Oct 1957, pp 90-91 (USSR)

ABSTRACT: The article reviews the work of the session of the Advisory Committee for Electricity of the International Committee of

Measures and Weights held in Paris in June 1957. The author states that of the 17 written reports presented at the session, 6 were from the USSR, and that VNIIM will work out a program for international comparisons of electric capacitance and inductiveness measures. The reports of the USA National Standard

Committee, of the Japanese and the Canadian participants in the matters of producing the standard resistances and the materials for such resistances are referred to as deserving the most attention. The Soviet VNBS is stated to have been working - not knowing of the analogous research work at the

Working - not knowing of the analogous resonantion of the USA National Standard Committee - on determination of the gyromagnetic relation, contemplating for the future to employ

Card 1/2 gyromagnetic relation, contemplating for and the protonic resonance method for absolute electric and

SHIROKOV, K.P.; SHRAMKOV, Ye.G.

Metrological work in the field of electric and magnetic measurements.

Inm. tokh. no.6:61-64 N-D '57. (MIRA 10:12)

(Electric measurements) (Magnetic measurements)

8(0.)

SOV/112-59-1-1052

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 140 (USSR)

AUTHOR: Shramkov, Ye. G.

TITLE: Results of Research on Absolute Standards of Electrical Units at the Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii (All-Union Scientific-Research Institute of Metrology) imeni D. I. Mendeleyev

PERIODICAL: Tr. Vses. n.-i. in-ta metrol., 1957, Nr 31(81), pp 3-5

ABSTRACT: Projects of reproducing electric and magnetic absolute units carried out by the All-Union Scientific-Research Institute of Metrology over a period from 1938 to the present are listed. The projects include: (1) an absolute ampere standard in the form of a current balance; (2) an inductance standard in the form of four standard coils whose inductance can be computed from geometrical dimensions of the windings and spools; (3) measuring bridges for reproducing the absolute ohm through an inductance and frequency standards; (4) a measuring device that reproduces the absolute ohm through an estimated

Card 1/2

SOV/112-59-1-1052

Summarization of Projects of Absolute Standards of Electrical Units at the . . . .

mutual inductance and frequency. A special comparer (potentiometer) is mentioned that serves for comparing the normal cells by connecting them in opposition with an auxiliary normal cell. Suggestions made by VNIIM before the Konsul'tativnyy komitet po elektrichestvu i fotometrii (Consulting Committee on Electricity and Photometry) on the basis of the above projects are listed. Also see Referativnyy zhurnal, Elektrotekhnika, 1958, 35667, 35668, and 37950.

M.A.B.

Card 2/2

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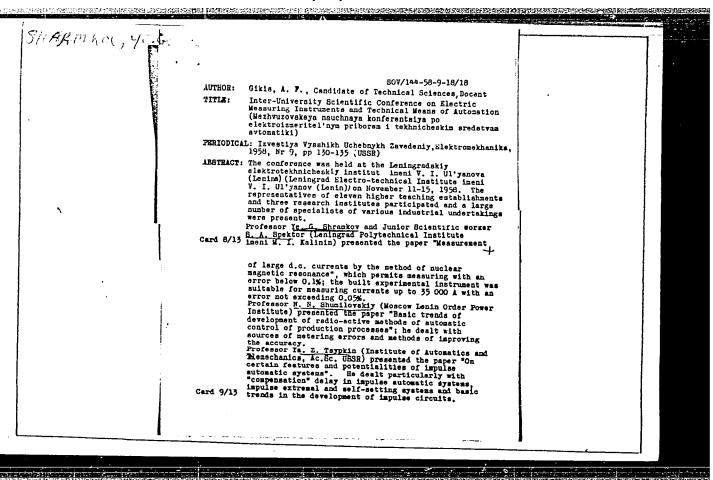
"Die genaue Messung höchster Gleichströme mittels Anwendung der magnetischen Kernresonanz"

report presented at the
Intl. Measurements Conference (IMEKO) Budapest, 24-30 November 1960

MIKHAYLOV, M.M.; KOSTENKO, M.P.; NEYMAN, L.R.; TAREYEV, B.M.; PRIVEZENTSEV,
V.A.; ZAYTSEV, I.A.; SHRAMKOV, Ye.G.; KORITSKIY, Yu.V.

Professor V.T. Benne; on his 50th birthday. Blektrichestvo no.7:
92 Jl '58.

(Renne, Vladimir Tikhonovich, 1908-)



SHRAMKOV, Ye G.

AUTHOR: Bounslavskiy, P.S., Engineer.

110-3-18/22

A Discussion on Questions of Electrical Instrument Construction (Diskussiya po voprosem elektro riborostroyeniya)

PERIODICAL: Vectnik Elektropromyshlennosti, 1958, Vol.29, No.3, pp. 70 - 75 (USSR).

APSTRACT: On December 10 - 13, 1957; there was held in Leningrad the first scientific technical discussion on electrical instrument construction, organised by the Leningrad Scientific Technical Society of the Instrument Industry (Leningradskoye nauchno-tekhnicheskove obshchestvo priborostroitel noy promy shlenmosti) together with the Technical Science Division of the Ac.Sc. USSR (Otdeleniye tekhnicheskikh nauk AE SSSR), Committee of Standards, Weights and Measuring Instruments of the Council of Ministers of the USSR (Koritet standartov, mer i izmeritel nykh priborov pri Sovete Ministrov SSSR) and the Instrument Construction Directorate of the Leningrad Council of Mational Economy (Upravleniye riborostroyeniya Leningrads-

The following were the main themes of discussion: 1) Various quality criteria of recsuring mechanisms; 2) The application of taut-wire suspensions in measuring Lechanisms, methods of Cordl/7 design, methods of evaluating quality; 3) the evaluation and

> APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

A Discassive on Questions of Electrical Instrument Construction

standarding tile and a rineivles of automatic measuring instruof learness and a rine rineivles of automatic measuring instruof learness att; () measured trends of abandardisation in
factories, research institutes and educational establishments of
loscow, learnessed, First and other towns. There were represented
introduction this state of Front Yang. Shradboy, (Ville) who
the reviewed instrument design and Transacture. The resis object of
questions mainly concerned with direct-resoling instruments and
the next seven years and to for allots the trans of work for
who future plan of development as electrical instrument manuSpecking on the first theme, Engineer P.F. Usatic (of the
fresher works) criticised is a classic definition of quality
(125) on side no seed a new compassion. Frof. m.M. Reservethy
(220)

SHRAMKOV, Ye.G.; GORBATSEVICH, S.V.; KOLOSOV, A.K.; DROTKOV, I.H.; ROZHDESTVENSKAYA, T.B.; SHIROKOV, K.P.; CHERNYSHEV, Ye.T.; YANOVSKIY, B.M.

Metrological activities in the field of electric and magnetic measurements. Trudy. VNIIM no.33:60-93 158. (MIRA 11:11)

1. Rukovoditel' otdela elektricheskikh i magnitnykh izmereniy Vaesoyuznogo nauchno-issledovatel'skogo instituta metrologii imeni D.I. Mendeleyeva (for Shramkov). (Electric measurements) (Magnetic measurements)

8(2), 9(6)

AUTHOR: Anisimov, V. I., Engineer

SOV/119-59-3-13/15

TITLE:

The Inter-university Scientific Conference

on Electrical Measuring Instruments and on the Technical

Means of Automation (Mezhvuzovskaya nauchnaya konferentsiya po elektroizmeritel'nym priboram i

tekhnicheskim sredstvam avtomatiki)

PERIODICAL:

Priborostroyeniye, 1959, Nr 3, pp 30-31 (USSR)

ABSTRACT:

This Conference was held at the Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova (Lenina) (Leningrad Institute of Electrical Engineering imeni V. I. Ul'yanov (Lenin) ) in November 1958. It was attended by more than 500 representatives of universities, scientific research institutes, of the OKB, the SKB (Special Design Office), of industries and other organizations. More than 30 lectures were delivered in the meetings of this Conference. In opening the conference N. P. Boroditskiy underlined the outstanding importance of automation and of measuring technique for the development of national economy. N. N. Shumilovskiy in his lecture reported on "The Trends in the Development of Methods of Radioactive

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Control of Production Data" and outlined the extensive

The Inter-university Scientific Conference on SOV/119-59-3-13/15 Electrical Measuring Instruments and on the Technical Means of Automation

possibilities of using radioactive methods in such control. Ye. G. Shramkov and S. A. Spektor reported on a new method of measuring heavy direct currents with the help of the nuclear magnetic resonance. M. A. Rozenblat investigated problems of the application of magnetic amplifiers in automation and in measuring technique. A. V. Fateyev reported on the present-day state on the prospects of automatic control technique. Ya. Z. Tsypkin investigated some peculiar features of and the prospects offered by automatic pulse systems. The lecture by N. G. Boldyrev dealt with problems of stability of discrete automatic systems. V. B. Ushakov discussed the main trends in the development of mathematical analog computers and of computers designed for industrial use. The report by V. S. Ryabyshkin deals with an electronic analog correlator for the calculation of correlation functions in the investigation of winds in the ionosphere. R. I. Yurgenson reported on the most important methods, which guarantee both an active and passive freedom from disturbances in

Card 2/5

The Inter-university Scientific Conference on SOV/119-59-3-13/15 Electrical Measuring Instruments and on the Technical Means of Automation

discrete selective systems. Ya. V. Novosel'tsev discussed problems of averaging, differentiation, and balancing of time-dependent functions which can be represented by electric signals. V. P. Skuridin investigated new computing devices with polarized relays. A. V. Fremke and Ye. M. Dushin reported on instrument transformers for automatic instruments with automatic recording. V. B. Ushakov and N. N. Kopay-Gora reported on a computer for the automatic centralized control of production specifications. M. M. Fetisov discussed fundamental problems of the theory of automatic measuring instruments with an inverse conversion for the measurement of non-electric quantities. Ye. I. Tenyakov dealt with problems of the construction of automatic d. c. potentiometers with high accuracy. D. I. Malov discussed a high-precision automatic d. c. bridge for digital computations. The participants in the Congress listed below discussed the following subjects (which, however, are not given by the exact wording of the titles): V. A. Ivantsov: The planning of measuring elements for

Card 3/5

The Inter-university Scientific Conference on SOV/119-59-3-13/15 Electrical Measuring Instruments and on the Technical Means of Automation

accurate automatic quotient-type meters in digital computations. R. R. Kharchenko: Methods of determining the dynamic errors of a magnetic oscilloscope by simulation. P. P. Ornatskiy: Problems in measuring electric quantities at extremely low frequencies by electrical indicating instruments of various systems. L. F. Kulikovskiy: Novel types of a. c. compensators. A. S. Rozenkrants: Automatic bridges and a. c. compensators suited for the control of the parameters of condensers in series production. L. I. Stolov: Some characteristics of midget induction motors which can be used in measuring technique and automation. D. A. Borodayev: Ultransonic pressure- and liquid level gages. Yu. A. Skripnik: The circuitry of a phase-sensitive commutation indicator for a. c. semi-equilibrium bridges. N. F. Suvid: The application of instruments with magnetic bridges, which permit a considerable simplification of the design of the apparatus and the circuitry used in the measurement of non-electric quantities. V. A. Ferents: Method of increasing the sensitivity of oxygen gas analyzers. P. V. Novitskiy:

Card 4/5

The Inter-university Scientific Conference on SOV/119-59-3-13/15 Electrical Measuring Instruments and on the Technical Means of Automation

Design of apparatus for measuring vibration quantities. V. V. Pasynkov: Main types of non-linear semiconductor resistors and possibilities of their application to circuitry in automation and measuring technique. G. N. Novopashennyy: Development of measuring amplifiers with semiconductor triodes. Ya. V. Novosel'tsev, N. A. Smirnov, Ye. Ye. Afanas'yev, Ye. P. Ugryumov: Precision semiconductor frequency meter operating according to the pulse-counting principle. P. G. Nikitin and A. Bezukladnikov: Methods of measuring the magnetic field strength by means of bismuth resistors and transducers operating on the Hall effect principle. A resolution was adopted by the closing plenary meeting of the Conference, which indicates ways of improving and coordinating scientific research work in the field of automation, electric measuring- and computing technique.

Card 5/5

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SARPARE, YUG

PHASE I BOOK EXPLOITATION

sov/4407

Akademiya nauk Ukrainskoy SSR. Institut elektrotekhniki

Voprosy obshchego elektropriborostroyeniya (Overall Problems of the Electric Instrument Industry) Kiyev, 1960. 262 p. 3,000 copies printed.

Additional Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti. Ukrainskoye respublikanskoye pravleniye.

Editorial Board: A. D. Nesterenko, Corresponding Member, Academy of Sciences Ukrainskaya SSR (Resp. Ed.), M. I. Levin, Doctor of Technical Sciences, P. P. Ornatskiy, Candidate of Technical Sciences, V. F. Petrochenko, Candidate of Technical Sciences, A. F. Gorodovskiy, Engineer, S. Sh. Zaslavskiy, Engineer, and B. A. Seliber; Ed. of Publishing House: B. A. Kazantsev; Tech. Ed.: M. I. Yefimova.

PURPOSE: This book is intended for technical personnel working in the field of electric measurement techniques, in electrical instrument plants, in laboratories of electric power systems and in electric measurement laboratories of plants.

Card 1/12

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

Crarall Problems of the Electric (Cont.)

SOV/4407

COVERAGE: This is a collection of reports presented at a conference on the overall development of the Soviet electrical instrument industry held in Kiyev on October 23-27, 1956. The conference was convened by the Institut elektrotekhniki AN USSR (Institute of Electrical Engineering, Academy of Sciences UkrSSR) and the Ukrainskoye respublikanskoye pravleniye NTO priborostroitel'ncy promyshlennosti (Ukrainian Republic Administration of NTO of the Instrument-making Industry) Problems relating to electrical instrument-making as a whole (reports by A. D. Nesterenko, P. P. Ornatskiy, Ya. S. Averbukh, Ye. G. Shramkov) were discussed, as well as problems relating to the development of reference instruments (Ya. S. Averbukh, I. K. Khodeyev), the automation of electric-measuring circuits (A. Ya. Shramkov, L. Ya. Mizyuk) and to the theory and practice of magnetic measurements (N. N. Shol'ts, G. L. Gornshteyn). Attending the conference were workers of scientific research institutes and schools of higher education, along with representatives of the main electric instrument plants ("Vibrator" in Leningrad, "Tochelektropribor" in Kiyev, "Omelektrotochpribor" in Omsk, ZIP in Krasnodar and others) and of various electric power systems. No personalities are mentioned. References accompany ten of the reports.

Card 2/12

Overall Problems of the Electric (Cont.)

sov/4407

3

5

TABLE OF CONTENTS:

Foreword

Nesterenko, A. D. Present State of the Electric Instrument Industry, and Principal Problems Facing Industrial and Scientific Workers in Their Task of Developing and Introducing Novel Electric-Measuring Instruments Into Practice

The author enumerates the following trends in the development of the Soviet electrical instrument industry: improvement of instrument characteristics; increase of measurement limits and of the number of values measured with a single meter; new instrument specifications, especially for instruments operating in automatic control circuits; automation of measuring processes and transition to automatic instruments. He recommends various means for improving existing conditions, in particular the standardization of terminology.

Card 3/12

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549930011-8"

ARUTYUNOV, V.O.; GORBATSEVICH, S.V.; SHRAMKOV, Ye.G.; BURDUN, G.D.; KOLOSOV, A.K.

M.F.Malikov; obituary. Izm.tekh. no.4:61 Ap '60.

(MIRA 13:8)

(Malikov, Mikhail Fedoseevich, 1882-1960)

NEYMAN, L.R., prof.; SHRAMKOV, Ye.G., prof., doktor tekhn.nauk

In regard to questions touched by Professor L.B. Slepian in the article "Shortcomings of All-Union State Standard 8033-56." Elektrichestvo no.7:68 Jl '60. (MIRA 13:8)

- 1. Leningradskiy politekhnicheskiy institut im. Kalinina.
- 2. Chlen-korrespondent AN SSSR (for Neyman).
  (Electric units--Standards) (Magnetism--Standards)

S/115/60/000/008/013/013 B019/B063

AUTHORS:

Arutyunov, V. O., Kolosov, A. K., Chernyshev, Ye. T.,

Shramkov, Ye. G., Yanovskiy, B. M.

TITLE:

A. N. Boyko (Deceased)

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 8, p. 63

TEXT: Aleksey Nikitich Boyko, Senior Collaborator of the Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev) died on May 20, 1960. The son of a farmer he was born in 1885, and he completed his studies at Peterburg Politekhnicheskiy institut (Peterburg Polytechnic Institute) in 1914. He worked at the fiziko-tekhnicheskiy institut (Institute of Physics and Technology), from 1918 onward at the Glavnaya palata mer i vesov (Main Bureau of Weights and Measures), and finally at the All-Union Scientific Research Institute of Metrology. During the years of development of the Soviet instrument-building industry he was in charge of the production and control of permanent magnets at the factories imeni Koznitskiy, Krasnaya Zarya,

Card 1/2

A. N. Boyko (Deceased)

S/115/60/000/008/013/013 B019/B063

Krasnyy Oktyabr', and Elektrostal'. He contributed to the development of the theory of permanent magnetic fields, and investigated photocells and rare gases. Two helium laboratories in Leningrad and an actinometric laboratory at the VNIIM were established on his initiative. He carried out investigations on objective methods of measuring ultraviolet radiation and took part in the planning of the Vsesoyuznyy nauchnoissledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy (All-Union Scientific Research Institute of Physical, Technical, and Radiotechnical Measurements). He designed 28 instruments and published 30 scientific articles.

Card 2/2

CHERNYSHEV, Ye.T.; SHRAMKOV, Ye.G.

Principles underlying the construction of different systems for the transfer of magnetic unit values. Trudy inst. Kom. stand., mer i izm. prib. no.43:5-10 160. (MIRA 14:17)

(Magnetic measurements)

SHRAMKOV, Ye. G.

"On group 20 (instruments) of the international electrotechnical dictionary"

Paper presented at the Second International Measurements and Instruments Conference, (INEKO), Budapest, 25 June -1 July 1961.

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SHRAMKOV, Ye.G.; HOVITSKIY, P.V.; FETISOV, M.M.; ZORIH, D.I.

Concerning the structure and some fundamental characteristics of present-day electric measuring devices. Elektrichestvo no.8:20-25 Ag 162. (MIRA 15:7)

1. Leningradskiy politekhnicheskiy institut imeni Kalinina. (Electric measurements)

BESSONOV, L.A.; DOMANSKIY, B.I.; DROZDOV, N.G.; D'YACHENKO, N.Kh.;
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SMIRNOV, V.S.; TOLSTOV, Yu.G.; USOV, S.V.; SHRAMKOV, Ye.G.

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ZCRIN, D.I., dots., kand. tekhn. nauk; MITKEVICH, A.V., dots., kand. tekhn. nauk; SHMAKOV, E.M., ass.; SHRAMKOV, Ye.G., prof., doktor tekhn. nauk; ASHKENAZI, E.L., red.; AKSEL'ROD, I.Sh., tekhn. red.

[International electrotechnical vocabulary. Group 20: Scientific and industrial measuring instruments] Mezhdunarodnyi elektrotekhnicheskii slovar'; gruppa 20: Laboratornye i tekhnicheskie izmeritel'nye pribory. Izd.2. Moskva, Glav.red.inostr. nauchno-tekhn. slovarei Fizmatgiza, 1962. 225 p. (MIRA 16:1)

1. International Electrotechnical Commission.
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