"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

~~16(1)~~ 16.3200

68974
S/020/60/131/02/012/071

AUTHOR: Temlyakov, A.A.

TITLE: Integral Representations 16

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 2, pp 263-264 (USSR)

ABSTRACT: In his preceding papers [Ref 1-3] the author developed the theory of integral representations for functions regular in a bicircular domain D, where it was assumed that the boundary of the domain nowhere forms an analytic hypersurface. Now it is shown that this assumption can be dropped, i.e. that the boundary of D partially may be analytic if the function $r_1(\tau)$ (compare [Ref 1-3]) is defined somewhat otherwise. Then the integral representations of both kinds obtained in the earlier papers remain true. Here it appears a characteristic peculiarity of the analytic functions of two variables: the values of the function in D depend only on their values on the non-analytic part of the boundary. There are 5 Soviet references.

ASSOCIATION: Moskovskiy oblastnoy pedagogicheskiy institut im.N.K.Krupskoy (Moscow District Pedagogical Institute im. N.K.Krupskaya)

PRESENTED: November 21, 1959, by M.A.Lavrent'yev, Academician
SUBMITTED: November 12, 1959

Card 1/1

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMLYAKOV, A.A.

Integral representations for meromorphic functions. Dokl. AN SSSR 143 no.5:1057-1059 Ap '62. (MIRA 15:4)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy. Predstavleno akademikom V.I.Smirnovym.
(Functions, Meromorphic)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

L 44027-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k)/EWP(h) EM

ACC NR: AP6030249 SOURCE CODE: UR/0147/66/000/003/0034/0042

AUTHOR: Temlyakov, Yu. N.

ORG: none

57
B
H

TITLE: Determining the parameters of a stabilizing flap of a tailless glider

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 3, 1966, 34-42

24

TOPIC TAGS: aerodynamics, glider, flap, control surface aeronautics, AIRCRAFT STABILITY

ABSTRACT: A method for stabilizing a tailless glider is described which eliminates the basic deficiency of tailless systems, that is, the loss of lift force while balancing. It is based on a known principle: the longitudinal stability of a wing having $m_{20}<0$ and trimmed by having the center of gravity located behind the aerodynamic center is ensured by means of automatic system, which is represented here by a free flap on the wing of a tailless glider, and overcompensated with respect to the angle of attack. The system is analyzed by the root locus method which makes it possible to detect the effect of various parameters on the dynamic characteristics of not too complex linear systems (up to the fourth order) with almost no calculations. The integral quadratic evaluation of the performance of transient process is carried out. The effect of dry friction is found to be insignificant. Orig. art. has: 5 figures and 17 formulas. [AB]

SUB CODE: 01/ SUBM DATE: 11Dec65/ ORIG REF: 005/ ATD PRESS: 5076
Card 1/1 blg UDC: 533.6.013.412

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

KARNAUKHOV, A.F., kand. tekhn. nauk; MILYUTIN, A.P., inzh.; TEMLYAKOVA, Yu.V.

Method for determining the parameters of nonlinear electric circuits by the given conditions. Trudy MIIT no.207:172-178 '65. (MIRA 19:1)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

USSR/Pharmacology and Toxicology. Chemotherapeutic Preparations. V
Antituberculotic Agents.

Abs Jour: Ref Zhur-Biol., No 19, 1958, 90001.

Author : Temmere, V.A.
Inst : Institute of Experimental Medicine, LatvSSR.
Title : The Effect of Tubazid and Phthivazid on the Renal and Hepatic Functions.

Orig Pub: Tr. In-ta eksperim med. AN LatvSSR, 1957, 15, 69-75.

Abstract: Results of the study of the action of tubazid (I) and phthivazid (II) on the renal and hepatic functions in 62 patients with active, mainly fibrocavernous pulmonary tuberculosis are reported. Investigations and urine urea values, prothrombin time, blood bilirubin and blood and urine creatine,

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V-42

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

USSR/Pharmacology and Toxicology. Chemotherapeutic Preparations. V
Antituberculotic Agents.

Abs Jour: Ref Zhur-Biol., No 19, 1958, 90001.

titrated acidity and NH_3 values, the functional test by Zimnitskiy method and the Congored test for amyloidosis were performed on glucose curves following glucose infusion. 2,800 tests were carried out. It was established that treatment with I and II has a favorable effect on liver function, particularly on synthesis of glucose and the detoxification function. In 3 out of 23 patients treated with I, and 6 out of 39 patients treated with II, a transient disturbance of the normal activity of the liver was observed, which disappeared after the prescribed chemotherapeutic preparations were discontinued. In 10 patients, transient albuminuria and hematuria was

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

USSR/Pharmacology and Toxicology. Chemotherapeutic Preparations. V
Antituberculotic Agents.

Abs Jour: Ref Zhur-Biol., No 19, 1958, 90001.

observed. The therapeutic effect was noted somewhat earlier in patients treated with I as compared with patients treated with II. -- V.I. Yel'nik.

Card : 3/3

V-43

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

GRINSHTEYN, V.Ya. [Grinsteins, V]; MEDNE, K.K.; ZAYEVA, S.P.; STOLYGVO, N.S.; VEVERIS, A.P.; GERMANE, S.K.; ALBERTA, M.A.; GRIGALINOVICH, G.A.; TEMBERE, V.A., ZELCHA, S.B. [Zelca, S.]

Tubercolastatic properties of mixed thiosemicarbazone guanylhydrazone 1,3-indandione, a representative of a new type of antitubercular substances. Dokl. AN SSSR 147 no.5:1083-1095 D '62. (MIRA 16:2)

1. Institut organicheskogo sinteza i Institut eksperimental'noy i klinicheskoy meditsiny AN Latviyskoy SSR. Predstavleno akademikom A.N. Nesmeyanovym.
(TUBERCULOSIS) (ANTIBIOTICS) (KETONES)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

NOVAK, Vladimir, inz., C.Sc.; TEMMLOVA, Bozena, inz.

Economic importance of the damage caused by the ambrosia beetle on spruce trees. Drevo 17 no.2:36-38 F '62.

1. Vyzkumny ustav Lesniho hospodarstvi i myslivosti, Ceskoslovenska akademie zemedelskych ved, Zbraslav - Strnady.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

JANCARIK, Vlastislav; TEMMLOVA, Bozena

Method of probable determination of the focus of pathogenetic soil fungi. Rost vyroba 9 no. 7/8:812-817 Jl-Ag '63.

1. Vyzkumny ustav lesniho hospodarstvi a myslivosti, Zbraslav-Strnady.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

NOVAK, Vladimir, inz.; TEMMLOVA, Bozena, inz.

Excessive increase of the pine weevil (Hylobius abietis L.) in Czechoslovakia and analysis of the present controlling and protective measures. Les cas 10 no. 7:659-678 Jl '64.

1. Research Institute of Forestry and Game Keeping, Zbraslav-Strnady.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

KUDLER, Jiri, inz. CSc.; TEMMLOVA, Bozena, inz.

Critical number of the sawfly Neodiprion sertifer Geoffr.
Les cas 10 no.9:789-800 S '64.

1. Research Institute of Forestry and Game Keeping, Zbraslav-Strnady.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

SHATENSHTEYN, V.G.; TEMNIK, V.G.

Wetting agents for a coke charge. Met. i gornorud. prom. no.1:46-47 Ja-F '64. (MIRA 17:10)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIK, V.G.

Investigating the cooling of steel ingots by means of low temperature models. Izv. vys. ucheb. zav.; chern. met. 8 no.1: 164-168 '65 (MIRA 18:1)

1. Kommunarskiy gornometallurgicheskiy institut.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

KUDRYASHOV, L.I.; TEMNIKOV, A.V.

Generalized theory of regular thermal conditions applied to variable thermophysical characteristics. Inzh.-fiz.zhur. no.10:101-105 O '58. (MIRA 11:11)

1. Industrial'nyy institut imeni V.V.Kuybysheva, g.Kuybyshev.
(Heat--Transmission)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, A. V. and KUDRYASHEV, L. I.

"Study of non-linear problems of non-stationary heat-exchange by the methods of electrical modeling.

Report presented at the 1st All-Union Conference on Heat- and Mass- Exchange, Minsk, BSSR", 5-9 June 1961

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, A. V., Cand. Tech. Sci. (diss) "Investigation of Non-Linear Problems of Non-stationary Heat Conductivity by Methods of Electrical Models," Minsk, 1961, 23 pp. (Acad. of Sci. Belor. SSR, Dept of Engr. Sci.) 200 copies (KL Supp 12-61, 275).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, A. V., and KUDRYASHEV, L. I.

"Investigation of Non-linear Problems of non-stationary Heat Transfer by Electrical Modeling Method."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

S/264/62/000/005/002/002
1008/1208

AUTHOR: Kudryashchev, L. I., Temnikov, A. V. and Veselov, V. P.

TITLE: Investigation of non-linear problems in heat-conduction by means of electric models.

PERIODICAL: Referativnyy zhurnal, vosdushny transport. Svodnyy Tom. v. 5, 1962, 8, abstract 5A45. "Tr. Kuyby, shevsk aviats. in-t.", no. 12, 1961, 13-34

TEXT: The article deals mainly with the development of methods of simulation for the solution by means of electronic models of non-linear problems in heat- conduction and the investigation by these methods of temperature fields in metallic bodies having variable properties.

[Abstracter's note: Complete translation.]

Card 1/1

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

S/196/62/000/010/023/035
E073/E155

AUTHORS: Kudryashev, L.I., and Temnikov, A.V.

TITLE: On a solution of nonlinear problems of nonsteady-state heat-transfer on electric network integrators

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1962, 4, abstract 10 G22. (Tr. Kuybyshevsk. aviats. in-t, no.12, 1961, 41-53)

TEXT: The development of a method of successive intervals is proposed which is applicable to solving nonlinear symmetrical problems of nonsteady-state heat-exchange in a cylinder and a sphere. The method has great importance in simulation on models. The solution of the nonlinear problems of nonsteady-state heat-transfer on electric network integrators is considerably simplified by introducing the function Φ instead of the excess temperature. Solutions carried out on the electric integrator ЭИ-12 (EI-12) confirmed the results obtained by simulating the heat-transfer conditions on the ИПТ-5 (IPT-5) model. 13 references.

Card 1/1 [Abstractor's note: Complete translation.]

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

REZNIKOV, A.N., doktor tekhn.nauk, prof.; TEMNIKOV, A.V., kand.tekhn.nauk, dotsent; LIMONOV, I.P., inzh.

Modeling of stationary thermal fields in a wedge taking into consideration the relationship between heat conductivity and temperature. Vest. mashinostr. 43 no.11:35-38 N '63. (MIRA 17:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

REZNIKOV, A.N., doktor tekhn.nauk, prof.; TEMNIKOV, A.V., kand.tekhn.nauk, dotsent; LIMONOV, I.P., inzh.; DILIGENSKIY, N.V., inzh.

Using the method of electric simulation in evaluating the temperature field of a cutting tool. Vest.mashinostr. 43 no.11:43-46 N '63. (MIRA 17:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

ACC NR: AT6003099 SOURCE CODE: UR/3181/63/000/015/0287/0293

AUTHOR: Veselov, V. P.; Temnikov, A. V.

ORG: None

71
B+1

TITLE: Electronic simulation of heat transfer in a regenerative type heat exchanger

SOURCE: Kuybyshev. Aviatsionnyy institut. Trudy, no. 15, pt. 2, 1963. Doklady kustovoy nauchno-tekhnicheskoy konferentsii po voprosam mekhaniki zhidkosti i gaza (Reports of the Joint scientific-technical conference on problems of the mechanics of liquid and gas), 287-293

TOPIC TAGS: heat transfer, heat exchanger, electronic simulation, partial differential equation

ABSTRACT: The article considers a regenerative type heat exchanger of the most simple type. The mathematical problem of heat transfer in such a regenerator reduces to the solution of the following two partial differential equations:

21, 44, 55

$$\frac{\partial\theta}{\partial\eta} = \theta_f - \theta, \quad (1)$$

$$\frac{\partial\theta_f}{\partial\zeta} = \theta - \theta_f \quad (2)$$

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ACC NR: AT6003099

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with the following boundary and initial conditions:

$$\eta = 0,\ \theta = 0, \tag{3}$$

$$\zeta = 0,\ \theta_f = 1. \tag{4}$$

The solution is sought in the form:

$$\theta = \theta(\zeta, \eta), \tag{5}$$

$$\theta_f = \theta_f(\zeta, -\eta). \tag{6}$$

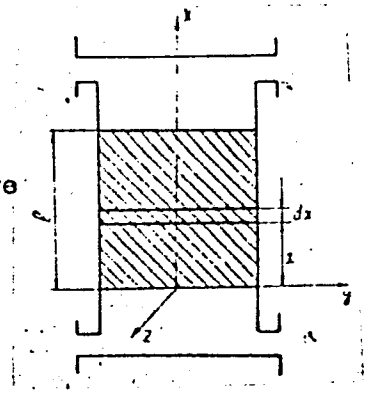

Fig. 1. Plan of a regenerative type heat exchanger.

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A mathematical method is presented for solution of these equations on an analog computer. Comparisons of the results of this simulation method with analytical solutions are shown in two figures. It is stated that the proposed method can be used also for investigation of heat transfer in a fixed bed of particle material, blown through by a stream of gas, and for investigation of the temperature of the heat transfer medium in countercurrent flow in a regenerator. The method is claimed to be sufficiently accurate for engineering purposes. Orig. art. has: 19 formulas and 4 figures.

SUB CODE: 20,12/SUBM DATE: 00/ ORIG REF: 008/ OTH REF: 001

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

L 15715-66 EWT(1)/EWP(m)/EWT(m)/ETC(F)/EPF(n)-2/EWG(m)/EWA(d)/EWA(1)/FCC(k)
ACC NR: AT6003101 JD/WW UR/3181/63/000/015/0299/0307

65
63
B+1

AUTHOR: Temnikov, A.V.; Shchibrayev, Ye.V.

ORG: None

TITLE: Use of an electrothermal analogy for study of heat transfer in flow around a body of arbitrary shape

SOURCE: Kuybyshev. Aviatsionnyy institut. Trudy, no.15, pt.2, 1963. Doklady kustovoy nauchno-tekhnicheskoy konferentsii po voprosam mekhaniki zhidkosti i gaza(Reports of the Joint scientific-technical conference on problems of the mechanics of liquid and gas), 299-307

TOPIC TAGS: convective heat transfer, heat conduction, integrated electronic device

ABSTRACT: The method of electrothermal analogy is based on an analogy between the mathematical description of heat conduction processes in solid bodies and processes of the propagation of an electric current in electrically conducting media. Limiting the case to steady state processes, the heat conduction equation for the temperature field can be written in the form:

$$\frac{\partial^2 t}{\partial x^2}+\frac{\partial^2 t}{\partial y^2}+\frac{\partial^2 t}{\partial z^2}=0. \qquad (2)$$

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The boundary condition is written in the form:

$$t_w = t_w(x, y, z). \quad (3)$$

After transformation to a dimensionless form, the authors proceed to a mathematical solution of the problem. It is claimed, on the basis of the results, that the method of electrothermal analogy is applicable to the study of local heat transfer, and that it is simple and sufficiently accurate for engineering purposes. Use of the method is stated to be especially advantageous if there is available an EI-12 electronic integrator, Type EGDA, or other similar machines, for solution of the differential Laplace equations which arise in the problem. Orig. art. has: 20 formulas and 3 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 006/ SOV REF: 000/ OTH REF: 003

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

USSR/Engineering
Remote Control Systems
Telemechanics

Aug 1947

"Remote Control Apparatus, Built on the Principle of Dynamic Compensation," Docent F. Ye. Temnikov, Candidate Tech Sci, MEI imeni V. M. Molotov, 5 pp

"Khim Prom" No 8

In 1934 author helped develop a method of compensating measurements, which enlarged field for solution of problems in automatics and telemechanics. Essentially this system based on fact that cyclic moments are brought into operation by equalizing forces. These moments vary in well-defined order, within

58T42

possible limits of measured values, with no stoppage in operation of input systems. Authors called this, "Method of Dynamic Compensation." Explains basic operation of this control system.

58T42

TEMNIKOV, F. Ye.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.YE. and KHARCHENKO. R.R.

Electric Measurement of Nonelectric Magnitudes. Gos-Energo-Izdat (1948)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, I. Ye.

54

Method of dynamic compensation in automatic and tele-control. TEMNIKOV, F. E., *Elektrichestvo* (No. 3) 8-14 (1948) *In Russian.*—In more usual methods, the quantity to be measured or controlled is balanced against an artificial standard, in some form of null indicator. A function of the difference of these two quantities, derived in the indicator, varies the artificial standard until there is zero output from the indicator. Thus the artificial standard closely follows the measured quantity, and is used to operate distant meters, etc. In order to reduce time lag, a dynamic system is proposed. The artificial voltage has a saw-tooth wave-form, with a max. > the greatest likely value of the measured voltage. On the upward sweep, when the artificial voltage is equal and opposite to the measured, the null indicator gives an impulse. The frequency and relative position of the impulses depends on the magnitude of the quantity being measured. Various methods of integrating one or two quantities simultaneously by this system are discussed. The scheme may be made "acyclic," i.e. the reference voltage max. is not constant. The upward sweep of the reference voltage is stopped when it becomes opposite and equal to the measured voltage, and the cycle is then repeated. Impulses are generated as before. Applications to various control and measuring schemes are given.

M. B.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Cons. Tech. Sci.

Moscow Energetics Inst. im. Molotov

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F. YE., DOCENT

P A 15/49T42

USSR/Electricity
Circuits, Voltage Multiplier
Instruments, Measuring

Aug 48

"Multiple Measuring System," Docent F. Ye. Temnikov, Cand Tech Sci, Moscow Power Eng Inst imeni Molotov, 2½ pp

"Elektrichestvo" No 8

Continuation of work previously described (47T28). Describes structure and characteristics of various multiplier circuits.

[redacted]

15/49T42

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye., kand. tekhn. nauk, dots.

Electrography. Trudy MEI no.13:84-88 '53. (MIRA 11:4)

1. Moskovskiy energeticheskiy institut im. V.M. Molotova, Kafedra avtomatiki i telemekhaniki.

(Recording instruments)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye., kand. tekhn. nauk, dots.; KOSINSKIY, A.B., inzh.

Electronic servo chain in the system of an automatic potentiometer. Trudy MEI no.13:174-179 '53. (MIRA 11:4)

1. Moskovskiy energeticheskiy institut im. V.M. Molotova, Kafedra avtomatiki i telemekhaniki.

(Servomechanisms) (Potentiometer)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.E.

2

7-9-54 LL

B. T. R.
V. 3 No. 3
Mar., 1954
Electronics

3266* Remote Control. (Russian.) F. E. Temnikov. *Nauka i Zhizn*, v. 20, no. 7, July 1953, p. 29-32 + 1 plate.
Presents a general discussion on automation and telemetering.
Diagrams, photographs.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

KLEMENT'YEV, S.D.; KADER, Ya.M., redaktor; TEMNIKOV, F.Ye. kandidat tekhnicheskikh nauk, dotsent, konsultant. SOLOMONIK, R.L., tekhnicheskiy redaktor

[Remote control of machines and mechanisms] Upravlenie mashinami i mekhanizmami na rasstoianii. Moskva, Voen. izd-vo Ministerstva oborony SSSR, 1954. 159 p.
(Remote control) (MLRA 7:8)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye.; SOTSKOV, B.S., kandidat tekhnicheskikh nauk, retsenzent; KASATKIN, A.S., professor, redaktor; MODEL', B.I., tekhnicheskiy redaktor.

[Automatic recording instruments] Avtomaticheskie registrituiushchie pribory. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 370 p.
(Recording instruments) (MLRA 8:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

KLEMENT'YEV, Sergey Dmitriyevich; TEMNIKOV, F.Ye.; KUZNETSOVA, Ye.B., redaktor; MURASHOVA, N.Ya., ~~tekhnicheskiy redaktor~~.

[Automatic control and telemechanics] Avtomatika i telemekhanika. Pod red. F.E.Temnikova. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1955. 291 p. (MLRA 8:4)

(Automatic control) (Remote control)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye.

Telemechanics and instrument making. Priborostroenie no.2:3-11 F '56. (MLRA 9:8)

(Telemetering)
(Information storage and retrieval systems)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye., kandidat tekhnicheskikh nauk, dotsent; ALEKSEYEV, S.V., kandidat tekhnicheskikh nauk.

Two-point variant of the new "control rapport" telemetering system. Trudy MEI no.18:182-189 '56. (MLRA 10:1)

1. Kafedra avtomatiki i telemekhaniki. (Telemetering)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

ALEKSANDROV, A.G., dots; ARONOVICH, I.S., inzh.; BABIKOV, M.A., doktor tekhn.nauk; BATUSOV, S.V., kand.tekhn.nauk; BEL'KIND, L.D., doktor tekhn.nauk; VENIKOV, V.A., doktor tekhn.nauk; VESELOVSKIY, O.N., kand.tekhn.nauk; GOLOVAN, A.T., doktor tekhn.nauk; GOLUBTSOVA, V.A., doktor tekhn.nauk; GREYNER, L.K., inzh.; GRUDINSKIY, P.G., prof.; GUSEV, S.A., inzh.; DMOKHOVSKAYA, L.F., kand.tekhn.nauk; DROZDOV, N.G., doktor tekhn.nauk; IVANOV, A.P., doktor tekhn.nauk [deceased]; KAGANOV, I.L., doktor tekhn.nauk; KEHBER, L.L., inzh.; KOCHENOVA, A.I., kand.tekhn.nauk.; LARIONOV, A.N.; MINOV, D.K., doktor tekhn.nauk; NETUSHIL, A.V., doktor tekhn.nauk; NIKULIN, N.V., kand.tekhn.nauk; NILENDER, R.A., prof.; PANTYUSHIN, V.S., prof.; PASYNKOV, V.V., doktor tekhn.nauk; PETROV, G.N., doktor tekhn.nauk; POLIVANOV, K.M., doktor tekhn.nauk; PRIVEZENTSEV, V.A., doktor tekhn.nauk; RADUNSKIY, L.D., inzh.; RENNE, V.T., doktor tekhn.nauk; SVENCHANSKIY, A.D., doktor tekhn.nauk; SOLOV'YEV, I.I., doktor tekhn.nauk; STUPEL' F.A. kand.tekhn.nauk; TALITSKIY, A.V., prof.; TEMNIKOV, F.Ye., kand.tekhn. nauk; FEDOROV, L.I., inzh.; FEDOSEYEV, A.M., doktor tekhn.nauk; KHOLYAVSKIY, G.B., inzh.; CHECHET, Yu.S., doktor tekhn.nauk; SHNEYBERG, Ya.A., kand.tekhn.nauk; SHUMILOVSKIY, N.N., doktor tekhn.nauk; ANTIK, I.B., red.; MEDVEDEV, L.Ya., tekhn.red.

[The history of power engineering in the U.S.S.R. in three volumes] Istoriia energeticheskoi tekhniki SSSR v trekh tomakh. Moskva, Gos. energ. izd-vo.

(Continued on next card)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

ALEKSANDROV, A.G.--(continued) Card 2.

Vol.2. [Electric engineering] Elektrotekhnika. Avtorskii kollektiv toma: Aleksandrov i dr. 1957. 727 p. (MIRA 11:2)

1. Moscow. Moskovskiy energeticheskiy institut. 2. Chlen-korrespondent AN SSSR (for Larionov)
(Electric engineering)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye.

Control center equipment (Control centers of automatic production). Priborostroenie no.4:1-6 Ap '57. (MLRA 10:5)
(Automatic control)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

KLEMENT'YEV, Sergey Dmitriyevich [deceased]. Prinimal uchastiye: KIRILLOV, K.K., inzh., ~~TEMNIKOV, F.Ye.~~, kand.tekhn.nauk, red.; MIKHALKEVICH, T.V., red.; GOLOVKO, B.N., tekhn.red.

[Telemechanics] Teleavtomatika. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR. Vol.2. [Homemade radio equipment for remote control] Samodel'naia radiotelemekhanicheskaia apparatura. Pod.red. F.E.Temnikova. 1958. 255 p. (MIRA 12:5)
(Remote control) (Radio--Equipment and supplies)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

28(1)

AUTHOR: Temnikov, Fedor Yevgen'yevich, Candidate of Technical Sciences, Docent at the Chair for Automation, Telemechanics and Computing Machines of the Mocsow Power Engineering Institute

SOV/161-58-2-10/30

TITLE: Introduction Into the Theory of Scanning Systems (Vvedeniye v teoriyu razvertyvayushchikh sistem)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 2, pp 75 - 84 (USSR)

ABSTRACT: A review of the theory of the scanning systems is given. The appendix contains a chronological survey from 1922 to 1957 of the development of the dynamic compensation method and of the scanning systems in the automation and telemechanics. There is to be discriminated passive scanning for solving pure commutation problems and active scanning for dealing with problems of quantitative determination. The active scanning is subdivided into a series of methods. The most important of them are indicated. The author proposed, at different times, new variations of automatic and telemechanical devices. In a

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general way he also formulated methods for the transformation by scanning and methods for dynamic compensation that were used as bases for the mentioned devices. At the present, all these methods are well known both within the USSR and abroad. The foreign electrical scanning systems of the compensation type (Ref 19) were developed 10 years later and some of them (Refs 19,29) were an exact copy of the Soviet inventions. The author states that the great possibilities of the method mainly depend on the independence and the periodicity of the scanning functions. The generalized operator of the scanning transformation is formulated in a new form giving 6 possible ways of transformation: elementary, multiplicated, digital, mathematical, inversion and conjugate, and adaptation transformation. There are 48 references, 32 of which are Soviet.

ASSOCIATION: Kafedra avtomatiki, telemekhaniki i matematicheskikh mashin Moskovskogo energeticheskogo instituta (Chair for Automation, Telemechanics and Computing Machines of the Moscow Power Engineering Institute)

SUBMITTED: April 23, 1958

Card 2/2

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F. Ye.: Doc Tech Sci (diss) -- "The theory of expanding systems (Investigation of the basic properties of expanding systems of the compensation type and of their possible applications in automatics, telemechanics, and measuring and computer technology)". Moscow, 1959. 30 pp (Min Higher Educ USSR, Moscow Order of Lenin Power Engineering Inst), 150 copies (KL, No 15, 1959, 115)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

SOV/119-59-3-3/15

9(0), 9(6)

AUTHOR: Temnikov, F. Ye., Candidate of Technical Sciences

TITLE: Radioelectronics in Modern Apparatus Manufacture (Radioelektronika v sovremennom priborostroyenii)

PERIODICAL: Priborostroyeniye, 1959, Nr 3, pp 6-10 (USSR)

ABSTRACT: The author divides the history of apparatus manufacture into three main periods, which are characterized by the application of predominantly mechanical, electrical and radioelectronic means. The first section of this survey deals with the revolutionary position gained by radioelectronics. The development of electronics provided elements principally different from those offered by an electrical or mechanical technique. The advance of electronics and of the related technique of contactless magnetic elements lead to new concepts concerning the nature of information, the structure and the properties of automatic devices as a whole, and the respective elements. An outstanding feature of this development is the transition from a continuous to a discrete circuitry. The development of impulse- and digital technique and of coding is outlined. The revolutionary importance of radioelectronics was clearly expressed by the "targets for the development of

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Radioelectronics in Modern Apparatus Manufacture

Soviet economy from 1959 to 1965". The automated production of the near future is visualized as proceeding by perfect technological systems which are controlled by central radio-electronic machines. The second section gives a short report on radioelectronic elements. From 1948 to 1957 Soviet radio-electronic production increased eighteen times. In 1957 alone 450 new products were introduced. The production of electronic-, thermionic- and semiconductor elements will almost double from one year to another. The growing importance of semi-conductor- and magnetic elements is underlined. The following two sections contain a report on radio engineering and television engineering methods. The last section is concerned with the application of radiotelemechanics, the use of which spreads rapidly in the USSR. Radiotelemechanics consists in the application of radio channels for transmitting the values of measurable quantities, control signals, and signals indicating the state or the position of objects. Such methods can also be used successfully in industries. Radiotelemechanics as applied to moving objects has been developed to a high degree of perfection. In this connection reference is made to the sputniks and space rockets. The radio communication

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Radioelectronics in Modern Apparatus Manufacture

with the space rocket operated satisfactorily up to a distance of about 500,000 km, that is 25 times the longest radio transmission distance on the earth. The composition of the ionosphere, for example, was determined by means of a radiofrequency mass spectrometer. The electrostatic fluxmeters which were installed in the satellites to measure electrostatic fields are also mentioned. There are 4 figures and 43 Soviet references.

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PHASE I BOOK EXPLOITATION SOV/4577

Temnikov, Fedor Yevgen'yevich

Avtomaticheskiye registriruyushchiye pribory (Automatic Recording Instruments) 2nd ed., rev. and enl. Moscow, Mashgiz, 1960. 459 p. 11,000 copies printed.

Reviewer: R.R. Kharchenko, Doctor of Technical Sciences, Professor; Ed.: A.V. Lebedev, Candidate of Technical Sciences; Managing Ed. for Literature on Machine Building and Instrument Construction (Mashgiz): N.V. Pokrovskiy, Engineer; Ed. of Publishing House: G.F. Polyakov; Tech. Ed.: V.D. El'kind.

PURPOSE: The book is intended for scientists, engineers, and technicians engaged in developing, designing, and using recording instruments. It can also be used by students studying related courses in schools of higher education.

COVERAGE: The book treats the fundamentals of modern automatic recording technique and concepts of the information theory. The methods of symbolic expression of the information supplied by recording instruments and its subsidiary synthesis are discussed. Instruments with direct, tracing, and scanning conversion are described, and digital recording instruments and assemblies are listed.

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Automatic Recording Instruments

Part I of the second edition has been written anew, and essential additions were introduced into Part II. A Polish translation was made by Stefan Lebson and Czeslaw Belkowski under the supervision of F. Findejson and M. Mazur. No personalities are mentioned. There are 60 references, all Soviet.

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PART I. THEORY OF AUTOMATIC RECORDING

Ch. I. Information 7
1. General considerations 7
2. Redistribution of information 9
3. Criteria of parameter readings 13
4. Criteria of time readings 17
5. Criteria of space readings 20
6. Numerical expression of information 21
7. Variety of binary codes 26

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, Fedor Yevgen'yevich, for Doc of Tech Sci on the basis of dissertation defended 24 Apr 59 in Council of the Moscow Order of Lenin Power Engineering Institute, entitled: "Theory of Evolving Systems."

(BMVISSO USSR, 2-61, 31)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye.

Telemechanics and centralized control of technological processes. Priborostroenie no.1:8-10 Ja '62. (MIRA 15:1)
(Remote control)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye.

General principles for the construction of a MEI "TSentrotekhnika"-type centralized regulation and control system. Trudy MEI no.44: 7-46 '62. (MIRA 16:5)

(Automatic control) (Information theory)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, Fedor Yevgen'yevich; SHENBROT, I.M., red.; BUL'DYAYEV, N.A., tekhn. red.

[Theory of scanning systems] Teoriia razvertyvaiushchikh sistem. Moskva, Gosenergoizdat, 1963. 167 p. (MIRA 16:6)
(Pulse techniques (Electronics))
(Electronic apparatus and appliances) (Electronics)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

IVANOV, Yu.V.; TEMNIKOV, F.Ye.

Logical-information reliability systems. Priborostroenie no.6: 18-22 Je '63. (MIRA 16:8)

(Electronic data processing)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye.; CHIN TSZIN'-SHAN [Ch'in Chin-shang] (Kitayskaya Narodnaya Respublika)

Reliability of information circuits. Priborostroenie no.6:28-31 Je '63. (MIRA 16:8)

(Electric circuits)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye.; SLAVINSKIY, V.L.

Digital representation of measured magnitudes in case of a zonal control. Izm. tekh. no.6:30-33 Je '63. (MIRA 16:8)

(Electronic instruments)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.E.

Theory of reading adaptations. Trudy MEI 52:5-16 '63.

Spatial and complex adaptations. Ibid.:17-30

(MIRA 18:9)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

DOLOTOV, V.G.; TEMNIKOV, F.Ye.

Adaptability and reliability of an automatic control center. Trudy MEI 52:81-84 '63. (MIRA 18:9)

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L 17[illegible] PDS
ACCESSION NR: AP3004279 S/0119/63/000/007/0001/0002

AUTHOR: Afonin, V. A.; Temnikov, F. Ye.

53
49

TITLE: Pneumatic multiple scheme

SOURCE: Priborostroyeniye, no. 7, 1963, 1-2

TOPIC TAGS: industrial automation

ABSTRACT: A new electropneumatic scheme for multiple supervision or control of industrial processes is described. It is based on standardized 0.2-1 kg/cm^2 pneumatic primary elements that measure the various process parameters simultaneously; they are connected to balance-type saw-toothed-pressure-fed detectors. The detector contacts are connected to an electronic contactless sequence switch. A train of time pulses appears in the switch output line. A simplified functional diagram, a time-pulse diagram, a connection diagram of a stepped-saw-tooth voltage generator, a scheme of the pneumatic balance detector and its

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ACCESSION NR: AP3004279

appearance are supplied. Orig. art. has: 5 figures.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power-Engineering Institute)

SUBMITTED: 00 DATE ACQ: 08Aug63 ENCL: 00

SUB CODE: IE NO REF SOV: 002 OTHER: 000

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, F.Ye., doktor tekhn.nauk, prof.

Information. Izv. vys. uchob. zav.; elektromekh. 6 no.11:1277 '63. (MIRA 17:4)

1. Moskovskiy energeticheskiy institut.

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TIMMIKOV, F.Ye.; CHIN TSZIN'-SHAN [Ch'in Chin-shan]

Structure of information networks. Trudy MSI 52:69-80 '63. (MIRA 18:9)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

DYSSA, O.F.; TEMNIKOV, F.Ye.

Statistical representation of mass information in control and regulating centers. Trudy MEI 52:205-213 '63. (MIRA 18:9)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

SAPOZHNIKOV, Rostislav Alekseyevich; BESSONOV, Aleksandr Andreyevich; SHOLOMITSKIY, Adrian Grigor'yevich; TEMNIKOV, F.Ye., prof., retsenzent; TIKOFEYEV, V.A., prof., retsenzent; SVECHINSKIY, V.B., retsenzent; IVANOV, A.Z., retsenzent; KHRUSTALEVA, N.I., red.

[Reliability of automatic control systems] Nadezhnost' avtomaticheskikh upravliaiushchikh sistem. Moskva, Vysshaia shkola, 1964. 263 p. (MIRA 17:12)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

EYGENBROT, Viktor Moiseyevich; TREMIAKOV, F.Ye., retsenzent;
SHIFETIN, L.I., red.

[Use of electron-beam tubes in multiple-point control]
Primenenie elektronno-luchevykh trubok dlia mnogo-
tochechnogo kontrolia. Moskva, Energiia, 1965. 94 p.
(Biblioteka po avtomatike, no.135 p. (MIRA 18:5)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

KATYS, Georgiy Petrovich; TEMNIKOV, F.Ye., doktor tekhn. nauk, retsenzent; STREL'NIKOV, Yu.V., inzh., red.; PETROV, B.N., akad. red.

[Information scanning systems] Informatsionnye skanirui-iushchie sistemy. Pod red. B.N.Petrova. Moskva, Mashino-stroenie, 1965. 447 p. (MIRA 18:12)

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L 23555-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6002944 (A) SOURCE CODE: UR/0286/65/000/024/0107/0107

AUTHORS: Temnikov, F. Ye.; Dyssa, O. F.

ORG: none

TITLE: Method for automatic centralized control of processes described by a great number of parameters. Class 42, No. 177174

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 107

TOPIC TAGS: automatic regulation, automatic control design

ABSTRACT: This Author Certificate presents a method for automatic centralized control of processes described by a great number of parameters. The method includes the operations of comparison with the settings, normalization, and indication. To facilitate the observation for the character of the occurring process, the group control characteristics in the form of the instantaneous static distribution of the deviations of the parameters from the norm are formed for which the measured parameters are compared with the settings. The deviations are normalized, and the obtained results are summed according to sign and magnitude

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ACC NR: AP6002944

of the discrete scale of deviations. The results of the summation are stored and fed to an indicator. The behavior of the monitored process is judged from the form of the obtained characteristics.

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L 23554-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6002945 (A) SOURCE CODE: UR/0286/65/000/024/0107/0107

AUTHORS: Temnikov, F. Ye.; Dyssa, O. F.

ORG: none

TITLE: Device for automatic centralized control of processes described by a great number of parameters. Class 42, No. 177175

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 107

TOPIC TAGS: This Author Certificate presents a device for automatic centralized control of processes described by a great number of parameters. The device contains distributing and storage circuits and indication units. For visualization of the group control characteristics, the device contains a decoder, sign distributors of the signals, storage counters, voltage dividers, and output light indicator controlled by the dividers (see Fig. 1). The sources of the input signals are connected to the controlling inputs of the decoder. The decoder outputs are connected through the sign distributors of the signals to the storage counters whose outputs are connected to the controlling voltage dividers. The divider outputs are connected to the sections of the light

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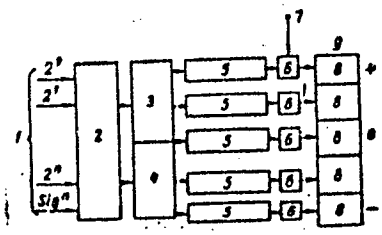

Fig. 1. 1 - decoder inputs; 2 - decoder; 3 and 4 - sign distributor of the signals; 5 - counters; 6 - voltage divider; 7 - divider reference voltage input; 8 - section inputs of light indicator; 9 - light indicator.

indicator, whose brightness is determined by the character of the group control characteristics. Orig. art. has: 1 diagram.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

ACC NR: AT6009445 SOURCE CODE: UR/0000/65/000/000/0077/0084

AUTHOR: Simonov, P. V.; Temnikov, F. Ye.

ORG: none

TITLE: Adaptive bioelectronic systems of perception, training and control

SOURCE: AN SSSR. Nauchnyy sovet po kompleksnoy probleme Kibernetika. Bionika (Bionics). Moscow, Izd-vo Nauka, 1965, 77-84

TOPIC TAGS: bionics, adaptive control, adaptive pattern recognition

ABSTRACT: The authors study adaptive bioelectronic systems of perception, training and control. One of the first attempts to study involuntary changes in the electric activity of the brain resulted in the design of automatic narcosis apparatus. Trigger stimulation was developed for the diagnosis of brain damage and mental illness. The behavior of a system based on the cutaneo galvanic reflex is studied. Data obtained in the study of the cutaneo galvanic response can also be applied to the analysis of the electrical activity displacements of the brain. A signal with a significant content value evokes a strong cutaneo galvanic reflex in a subject. I. S. Ivanov and V. Bortnik developed a system in which the change of transparencies in a projector was automatically controlled by the onset and duration of the cutaneo galvanic reaction. The problem of arbitrary bioelectric control is considered. The primary problem which has to be solved for these systems is that adaptive characteristics must be added.

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ACC NR: AT6009445

Present automatic analysis methods of bioelectric processes with respect to their statistical characteristics can be used to solve this problem. The possible fields of application for adaptive bioelectric systems are discussed. Orig. art. has: 6 figures.

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Card 2/2 BLG

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

ACC NR: AP6021429 SOURCE CODE: UR/0413/66/000/011/0029/0029

INVENTORS: Temnikov, F. Ye.; Slavinskiy, V. L.

ORG: none

TITLE: A method for shaping the electric pulses of a variable repetition frequency as a function of the magnitudes of the two master direct current voltages. Class 21, No. 182192

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 29

TOPIC TAGS: pulse shaper, sweep generator, frequency control

ABSTRACT: This Author Certificate presents a method for shaping the electric pulses of a variable repetition frequency as a function of the magnitudes of the two master direct current voltages. This is done by controlling the amplitude of the output sweep voltage of the integrator, the steepness of which depends on the control voltage. The design simplifies the shaping process. The first master voltage is integrated, and the amplitude of the output sweep voltage of this integrated first master voltage is compared with the second control voltage. At the moment when these voltages are equal, a discharge of the integrator sweep to zero is produced (see Fig. 1). When this is achieved, a new cycle starts up. During the discharge, the output pulses are shaped. The lengths of the output pulses are equal to the discharge time, and the repetition period of the output pulses is equal to the sweep cycle.

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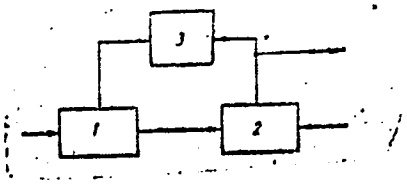
ACC NR: AP6021429

Fig. 1. 1 - integrator; 2 - zero-unit of the two comparison operations; 3 - discharge switch



Orig. art. has: 1 figure.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

ACC NR: AP6021430 SOURCE CODE: UR/0413/66/000/011/0029/0030

INVENTORS: Temnikov, F. Ye.; Slavinskiy, V. L.

ORG: none

TITLE: Pulse generator with controllable repetition frequency. Class 21, No. 182193

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 29-30

TOPIC TAGS: pulse generator, pulse shaper

ABSTRACT: This Author Certificate presents a pulse generator with controllable repetition frequency, containing an integrator and a cutoff switch. The slope of the integrator output voltage depends on the magnitude of the controlling voltage supplied at the input. The switch shorts the integrator output at the moment a command signal is supplied to it. To increase the accuracy of controlling the output frequency from two controlling dc voltages, the generator has a null unit with two comparison operations. One input of the null unit is connected to the integrator output, and the other to the source of the second controlling voltage. The output of the null unit is connected to the cutoff switch and serves as the generator output (see Fig. 1).

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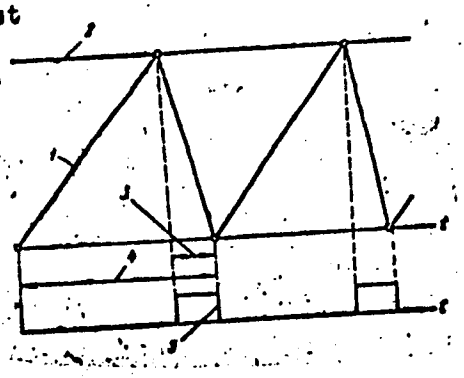
Fig. 1. 1 - integrator output sweep voltage from first controlling voltage; 2 - second controlling voltage; 3 - cutoff time; 4 - sweep cycle; 5 - output pulses



Orig. art. has: 1 diagram.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

SPASSKIY, A.A.; TEMNIKOV, I.A.

Concerning N.D. Sobolev's article "Neuvite; a new vein rock." Izv.AN SSSR. Ser.geol. 26 no.11:113-114 N '61. (MIRA 14:10) (Minerals)

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1. TEMNIKOV, L. A.

2. USSR (600)

3. Horse Breeding

4. Artificial insemination in herd horse breeding.
Konevodstvo, No. 10 - 1952.

9. Monthly List of Russian Acessions, Library of Congress, February, 1953. Unclassified

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TIMOSHENKO, V.V.; MARTYNISHKIN, A.M.; TSUKANOV, V.P.; GANGO, Ya.V.; SHIKOV, I.P.; NIKONOV, A.V.; POSTNIKOV, V.P.; KOROLEV, G.D.; ARTAMONOV, A.M.; TEMNIKOV, S.N.; KABLUKOVSKIY, A.F.; MAKHOV, A.Kh.; KOTIKOV, A.Kh.; ZHAMENSKIY, B.A.; ZUYEV, T.I.; POZDNYAKOV, A.P.; BALASHOV, S.A.; YEMOCHKIN, I.P.

New design of electrode holders for electric-arc smelting furnaces. Prom. energ. 15 no.8:13-14 Ag '60. (MIRA 15:1)
(Electric furnaces)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

BUTSIK, Yu.V.; TEMNIKOV, V.F.

Certain problems in the prospecting of deep horizons in the Donets Basin. Razved. i okh. nedr. 30 no.5:17-22 My '64. (MIRA 17:10)

1. Trest "Artemgeologiya."

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S/004/62/000/002/002/004
D228/D301

AUTHOR: Temnikov, Yu.

TITLE: The subdued foe

PERIODICAL: Znaniye-sila, no. 2, 1962, 10-12

TEXT: The author first describes some current measures for preventing the cavitation of turbine components and propellers used in ships and hydro-electric stations, etc. It is explained how this cavitation is caused by the micro-explosive effects of bubbles which are, in turn, due to the change in the aggregation state of water. At a specially created laboratory in the Ural'skiy politekhnicheskiy institut (Urals Polytechnic Institute) I.N. Bogachev and his colleagues have been conducting cavitation experiments to obviate the effects of this costly phenomenon; their apparatus consisted of a special explosive-erosion stand, on which rotary discs actuated water jets at a speed of 78 m/sec onto the specimens under test. The salient feature emerging from their work was the fact that, unlike the usual types of nickel and chrome steel, a special

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The subdued foe

austenite chrome-manganese steel is highly resistant to the action of explosive cavitation bubbles. The problem posed by the high production costs of the steel was overcome by coating ordinary steel with it, the necessary welding process being developed by R. Mints, V. Litvinov, and Yu. Veksler. The anti-cavitation laboratory is now co-coperating with the Institut elektrosvarki imeni Akademika Patona (Institute of Electrowelding imeni Academician Paton) on appraising the new durable material. Turning to cavitation in diesel and internal-combustion engines, the author mentions the reasons which led I.N. Bogachev to conclude that the engine parts in contact with water should be coated with a thin layer of a special shock-absorber. The requisite material was developed with the assistance of Chemist I.A. Kakovskiy and consists of sodium diethyldithiocarbamate to which certain quantities of normal foam-generators are also added. This emulsoid was successfully tested under the rigorous conditions of the Karakum deserts and the Caspian Sea. In conclusion it is noted that problems arising through the cavitation of other materials-resins, plastics, glass, concrete, gasoline, acids, and organic chemicals still have to be solved.

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TAMNIKOV, Yu.I.

Structural and geological characteristics of rare-metal granitoid deposits. Sov.geol. 8 no.10:127-131 O '65. (MIRA 18:12)

1. Chitinskoye geologicheskoye upravleniye.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220013-5

TEMNIKOV, Yu.I.; TUNIN, B.N.

Prospecting indications of rare-metal deposits of granitoids. Razved. i okh. nedr 31 no.2:12-15 F '65. (MIRA 18:3)

1. TSentral'naya ekspeditsiya Chitinskogo geologicheskogo upravleniya.

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