"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUdakov, V. V.

AID P - 58

Subject : USSR/Engineering

Card 1/1 Pub. 93 - 1/11

Author : Rudakov, V. V., Engineer

Title : Package stack method of transportation of wall-building materials

Periodical : Sbor. mat. o nov. tekh. v stroi., 8, 1-4, 1954

Abstract : The Azovstal'stroy Trust in Zhdanov, Stalinskaya oblast' has suggested a new method of brick and slake block transportation. The method consists in stacking the material on wooden platforms which are lifted by specially designed fork type grips suspended from cranes and placed on trucks. Photos, diagrams

Institution : None

Submitted : No date

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V., inzhener

Introducing the use of large concrete blocks for foundations and basement walls. Sbor.mat. o nov.tekh. v stroi. 17 no.6: 7-11 '55. (MLRA 8:9)

(Building blocks)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V.

Device for transporting bricks in packets on trays. Rats. i izobr. predl. v strei. no.117:3-6 '55. (MLRA 9:7)
(Bricks--Transportation)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

L 27271-66 EWT(1)/EWT(m)/T JK

ACC NR: AP6016890 SOURCE CODE: UR/0219/66/061/001/0051/0052

56
B

AUTHOR: Rudakov, V.V.; Korotkiy, V.M.—Korotky, V.M.

ORG: Department of Biochemistry/headed by Corresponding member AMN SSSR, Professor I.I. Ivanov/, Military Medical Academy Order of Lenin im. S. M. Kirov, Leningrad (Kafedra biokhimii Voyenno-meditsinskoy ordena Lenina akademii)

TITLE: Effect of ionizing radiation on the nucleic acid content in mithochondria of the rat liver

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 61, no. 1, 1966, 51-52

TOPIC TAGS: radiation biologic effect, ionizing radiation, RNA, rat, liver, DNA, x ray irradiation, electron microscopy, protein

ABSTRACT: Experiments were carried out to determine the effect of ionizing radiation on the ribonucleic acid (RNA) content in the mitochondria of rats' livers two hours after the animals were irradiated with x-rays in doses of 1,500 and 2,000 r. The RUM-3 apparatus was used to irradiate the rats; the mitochondria were isolated by the method of differential centrifugation with 0.25 M saccharose at a temperature of 2-4 degrees. The purity of the fraction obtained was checked with the help of electron microscopy and a qualitative reaction to deoxyribonucleic acid (DNA)

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ACC NR: AP6016890

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with diphenylamine; the nucleic acid content was determined by the A. S. Spirin method, and was calculated on a basis of one protein milligram of the mitochondrial fraction. Two series of experiments were carried out. In the first series the RNA content in the mitochondria of the control animals was established at 20.6± 1.02 micrograms per one protein milligram. In the second series of the experiments the rats were subjected to x-ray irradiation with doses of 1,500 and 2,000 r. The modifications of the RNA content in the mitochondia of the irradiated animals were similar in both cases, and equaled 38.9±5.68 micrograms per one milligram of the mitochondrial protein, an increase of 88.8 percent over that of the control animals. This paper was presented by Active member AMN SSSR I.R. Petrov. [JPRS]

SUB CODE: 06, 20 / SUBM DATE: 16May64 / ORIG REF: 005 / OTH REF: 005

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Viktor Vasil'yevich; ZAVALISHIN, D.A., doktor tekhn. nauk, prof., nauchn. red.

[Design and modeling of automated electric drives] Raschet i modelirovanie avtomatizirovannykh elektroprivodov. Moskva, Nauka, 1965. 135 p. (MIRA 18:12)

1. Chlen-korrespondent AN SSSR (for Zavalishin).

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V. V.

PA 196T48

USSR/Electricity - Electric Drive Sep 51
Motor-Generator Sets

"Forcing of the Starting Processes in a Drive Employing a Generator and a DC Motor," V. V. Rudakov, Cand Tech Sci, Inst of Automatics and Telemech, Acad Sci USSR

"Elektrichestvo" No 9, pp 49-54

Considers the effect of various feedback circuits upon the nature of the transient process in a motor-generator set. Analysis of differential relationships demonstrated the efficiency of using feedbacks with

196T48

USSR/Electricity - Electric Drive Sep 51
(Contd)

nonlinear elements to reduce the time required for the starting process. Submitted 21 Dec 50.

196T48

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

USSR/Electricity - Amplidynes Nov 52

"Effect of Shifting the Transverse-Circuit Brushes on the Transient Process of an Amplidyne," Cand Tech Sci V. V. Rudakov, Leningrad Branch, Inst of Automatics and Telemechanics, Acad Sci USSR

PA 240T62

"Elektrichestvo" No 11, pp 26-29

Demonstrates that shifting the transverse-circuit brushes of a transverse-field amplidyne in direction of armature rotation reduces amplification factor and build-up time, thus raising operating effectiveness of transverse-field system. Also indicates

240T62

possibility that amplidyne emf builds up by means of damped oscillatory process. Research was conducted on amplidyne 2.5-3000 from a Min of Elec Industry plant. Submitted 18 Apr 52.

240T62

RUDAKOV, V. V.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

KHASHCHINSKIY, V.P., professor, RUDAKOV, V.V.; CHAPSKIY, O.U. redaktor; VODOLAGINA, S.D., tekhnicheskiy redaktor

[Electric motors and their use in agriculture] Elektrodvigateli i ikh primenenie v sel'skom khoziaistve. Pod red. V.P. Khashchinskogo. Moskva, Gos.izd-vo selkhoz. lit-ry, 1955. 136 p. (MLRA 8:9)
(Electricity in agriculture)
(Electric motors)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

ANDREYEV, Vladimir Petrovich; SABININ, Yuriy Alekseyevich; RUDAKOV, V.V., redaktor; ZAHRODINA, A.A., tekhnicheskiy redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Principles of electric drive] Osnovy elektroprovoda. Moskva, Gos. energ. izd-vo, 1956. 448 p. (MIRA 10:1)
(Electric driving)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

KOSTENKO, M.P.; KULEBAKIN, V.S.; LARIONOV, A.N.; PETROV, G.N.; NITUSOV, Ye.V.; BOGOYAVLENSKIY, V.N.; RUDAKOV, V.V.; KOLBASNIKOV, M.V.

N.V. Gorokhov; obituary. Elektrichestvo no.1:95 Ja '56.(MLRA 9:3)
(Gorokhov, Nikolai Vladimirovich, 1896-1955)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Viktor Vasil'yevich, kandidat tekhnicheskikh nauk; KOMPANEYETS, Vladimir Yakovlevich, kandidat tekhnicheskikh nauk; PROZOROV, Valentin Alekseyevich, inzhener; MERKUCHEV, Dmitriy Antonovich, inzhener; SHUSTOV, V.A., dotsent, redaktor; FAYNBERG, Ye.F., redaktor; MOLODTSOVA, N.G., tekhnicheskiy redaktor

[Electric machines and automobile and tractor electric equipment] Elektricheskie mashiny i avtotraktornoe elektrooborudovanie. Pod obshchei red. V.A.Shustova i V.V.Rudakova. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957. 302 p. (MLRA 10:6)

(Electric machines)
(Tractors--Electric equipment)
(Automobiles--Electric equipment)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

KOVCHIN, Sergey Aleksandrovich; MERKUCHEV, Dmitriy Antonovich; ~~BUDAKOV,~~ Viktor Vasil'yevich; SHUSTOV, V.A., dotsent, red.; FAYNBERG, Ye.F., red.; MOLODTSOVA, N.G., tekhn.red.

[Use of electric power in agriculture; laboratory studies] Primenenie elektricheskoi energii v sel'skom khozisistve; laboratorno-prakticheskie raboty. Pod red. V.A. Shustova. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 228 p. (MIRA 12:2)
(Electricity in agriculture)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

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~~9(3), 28(1)~~ 16.9500

SOV/143-59-4-5/20

AUTHOR: Rudakov, V.V., Candidate of Technical Sciences

TITLE: Application of the Frequency Method to Explore Systems with Retarded Regeneration

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1959, Nr 4, pp 29-34 (USSR)

ABSTRACT: In modern systems of automatic control and regulation, retarded regeneration (feed back) is commonly used. The analytical exploration of the processes in such systems is made rather difficult by the fact that in most cases the equations determining such systems are non-linear. The frequency method, which is often used in practice by engineers to explore systems with non-linear elements, cannot be applied here, because there is no simple method to calculate the initial conditions (≠0). Since, however, it is relatively easy to explore the systems with linear elements by applying the frequency method using tables and nomograms, it is natural that attempts were made to develop a similar method for the analysis of non-linear systems, too.

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Application of the Frequency Method to Explore Systems with Retarded Regeneration

This article contains a method, with which systems with retarded regeneration (which are usually nonlinear) can be easily analyzed and which is principally based on using logarithmical frequency characteristics and nomograms. The article then gives a calculation of the functions, which are necessary to set up the frequency characteristics and the nomograms. All equations which are important in this connection are given in the article. It is then shown, how the frequency characteristics and the nomograms are set up from the calculations. First of all, it is explained how the logarithmical characteristic of the function of the initial value of the system is set up. Then a nomogram is set up to evaluate the function of the frequency characteristic. In the end the author gives two examples of nomograms to determine the real frequency characteristic and the initial value of the frequency functions.

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SOV/143-59-4-5/20

Application of the Frequency Method to Explore Systems with Retarded Regeneration

There are 4 graphs, 1 block diagrams and 6 Soviet references.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ulyanova (Lenina) (Leningrad Electrotechnical Institute imeni V.I. Ulyanov (Lenin))

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

Collected Papers (Cont.) SOV/4172

Prozorov, V.A., Ye.M. Smirnov, and V.V. Rudakov. Traction Conditions of Automated A-C Drives 197

The authors investigate traction conditions of a "generator-motor" a-c system in which the squirrel-cage induction motors are supplied from a compensated a-c commutator generator with excitation from the stator. They describe the general structure of a circuit for traction-drive automatic control. From the results of experimental research, they conclude that a-c electric drive systems with compensated commutator generators satisfy operating conditions for electric drives.

AUTOMATED ELECTRIC DRIVES

Smirnov, Ye.M., and L.N. Smirnova. Performance of an Induction Motor Supplied From a Single-Phase--Three-Phase Electromechanical Frequency Modulator 209

The authors study in detail the operation of an induction motor supplied by a modulated three-phase voltage. They conclude that provided the angular brush velocity $\beta\omega$, an electromechanical frequency modulator may be used both as the exciter of a commutator generator and as a variable frequency generator directly supplying an induction motor.

Card 9/13 Sbornik rabot po voprosam elektromekhaniki, vyp. 3: Energeticheskiye sistemy elektromashinostroyeniye, elektricheskaya tyaga, avtomatizirovannyy, elektroprivod avtomaticheskiye i telemekhanicheskiye sistemy, elektrosvarochnoye oborudovaniye. Moscow, Izd-vo AN SSSR 1960. 314p publ. from Inst. elektromekhaniki

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

PHASE I BOOK EXPLOITATION SOV/4706

Akademiya nauk SSSR. Institut elektromekhaniki

Sbornik rabot po voprosam elektromekhaniki, vyp. 4: Elektricheskiye mashiny, elektricheskiy privod, elektricheskaya tyaga na peremennom toke, avtomatizirovannyy elektroprivod teleskopov, avtomaticheskoye regulirovaniye i priborY (Collection of Works on Problems in Electromechanics, No. 4: Electric Machines, Electric Drive, A-C Electric Traction, Automated Electric Drive of Telescopes, Automatic Regulation and Instruments) Moscow, 1960. 282 p. 5,500 copies printed.

Resp. Ed.: V. V. Sidel'nikov; Ed. of Publishing House: I. V. Savorov; Tech. Ed.: M. A. Zamarayeva.

PURPOSE: This collection of works is intended for specialists in electromechanics.

COVERAGE: The collection contains 28 works divided into three sections: 1) Electric Machines, 2) Electric Drive and Electric Traction; 3) Automated Electric Drive, and Automatic Regulation and Instruments. No personalities are mentioned. References accompany most of the articles.

Danilevich, Ya. B. Computation of Leakage From the Tips of the Teeth in Electric Machines 33

Bukhanov, L. A. Special Features of Computation of No-Load Run Characteristics and of Certain Parameters of Standard Turbogenerators 37

Sirotko, V. K., and G. M. Smolin. Computation of Short-Circuit Resistances of Standard Transformers 43

Shakhelyan, Y. Ye., and N. S. Siryy. Problem of Electric Braking of Synchronous Generators 56

Ryzov, G. Y. Improvement in Accuracy of the Experimental Determination of Losses in Synchronous Machines 62

Shabarskiy, N. G. Problem of Designing the Magnetic Circuit of an Electric Machine Made of Nonisotropic Steel 76

Qedin, L. P. Damping Moment of Selsyn Servodrive in an Induction System of Synchro-Mad Transmission With a Commutator Generator 82

ELECTRIC DRIVE. ELECTRIC TRACTION

Zavalishin, D. A., and B. V. Shubalov. Electronic-Ionic Converter of Single-Phase Current at Commercial Frequency into Three-Phase Current, at Variable Frequency for Speed Regulation of Induction Electric Motors 92

Bulakov, Y. V., and V. M. Mamedov. Simulation of Excitation Circuits of D-C Machines in Electrodynamic Simulators of Drive Systems 103

Mamedov, V. M. Distribution of Flux Density in the Air Gap of Multistage Longitudinal-Field Rotating Amplifiers 112

Zakharevich, S. V. General Rules and Methods of Investigating Steady and Transient Conditions in a Circuit of Single-phase Mercury-Arc Rectifier of an Electric Locomotive 122

Zakharevich, S.V., and Y. A. Tikas. Investigation of Transients in the Circuit of a Single-Phase Mercury-Arc Rectifier of an Electric Locomotive During Backfire and Misfiring of Rectifier Tubes 134

Lopkin, V. M. Single-Phase Series Commutator Traction Motor For an Electric Locomotive and Electric-Motor-Car Train 148

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

S/144/60/000/03/017/017
E194/E455

AUTHORS: Vlasova, O.D., Junior Scientific Worker;
Yegorov, B.A., Junior Scientific Worker;
Mamedov, V.M., Junior Scientific Worker and
Rudakov, V.V., Senior Scientific Worker

TITLE: An Electrical Dynamometer for Experimental Work

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1960, Nr 3, pp 162-166 (USSR)

ABSTRACT: The principal requirement of a universal dynamometer for experimental work is that the power system should accurately reproduce the signals applied to it. Fig 1 shows a schematic circuit diagram of a dynamometer developed in the Electro-Mechanics Institute AS USSR. It employs the principle that the emf of the braking machine is equal and opposite to the emf of an amplidyne induced by the mmf of the feed-back winding controlled by the motor speed. On these emf's, which are in equilibrium at any speed, there is superposed a signal which causes the braking machine to operate as a generator so applying a retarding torque to the machine under test. Under steady-state conditions, the current in the armature circuit of the machine is given by Eq (1).

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E194/E455

An Electrical Dynamometer for Experimental Work

Under appropriate conditions the retardation current and torque over the entire speed range depend only on the changes in the amplidyne signals. Consequently, the retardation torque is readily matched to any applied signals. Torque characteristics as shown in Fig 2 and 3 are then constructed for the dynamometer under various conditions. In practice, the characteristics of the amplidyne and of the dynamometer are not identical because of hysteresis in the magnetic circuit and, under certain circumstances, the resulting distortion may be significant. The current in the load circuit is also influenced by the delay due to magnetic inertia in the amplidyne and in the armature circuit of the dynamometer. Eq (2) is then written for the current in the armature circuit and the assessment of practical differences that occur between the ideal and actual retardation currents is demonstrated. In order to reduce the distortion, a negative feed-back of amplidyne voltage is used, as shown in Fig 1. Fig 4 shows a no-load characteristic of an amplidyne type EMU-50 used in the experimental

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E194/E455

An Electrical Dynamometer for Experimental Work

dynamometer equipment with suitable voltage feed-back. It will be seen that the remanent voltage of the amplidyne is reduced to 2 to 3% of the rated voltage. Fig 5 shows an experimental external characteristic of the dynamometer machine, indicating that the accuracy of adjustment is 97 to 98% of the rated voltage. This can still cause an appreciable difference between the actual and ideal load current. Oscillograms showing the change of current in the dynamometer on reproducing constant torque without additional resistance in the armature circuit are given in Fig 6. Trace 6a corresponds to the change of speed from 0 to 1200 rpm which is the rated speed and 6b to sudden application and removal of the control signal. It will be seen that the distortion is quite appreciable under dynamic conditions. In order to reduce the inertia of the armature of the dynamometer, additional resistance is connected in the armature circuit. The resultant improvement in the static characteristics is illustrated by the curves of Fig 7. In order to produce the necessary retardation current when additional resistance

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E194/E455

An Electrical Dynamometer for Experimental Work

is used in the armature circuit, it is necessary to apply a stronger signal, which effectively reduces the amplification factor of the amplidyne. This is undesirable and in order to increase its amplification factor an intermediate electronic amplifier is used with the further advantage that low output signals can be used. Fig 8 shows oscillograms of changes in the emf of the dynamometer machines and amplidyne during acceleration and retardation of the driving motor. The greatest distortion during acceleration is less than 5% of the steady state current, which is fully satisfactory for ordinary experimental work. In order to apply to the shaft of the driving motor a torque proportional to the square of its speed, the transducer consists of a tachogenerator excited by another tachogenerator, as shown in Fig 1. The necessary characteristics of the tacho generators are discussed. It is concluded that the recommended circuit can reproduce with high accuracy the changes in torque applied to its input. Thus, in reproducing constant torque the accuracy is more than 95%

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

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E194/E455

An Electrical Dynamometer for Experimental Work

when the speed changes from zero to 1200 rpm in 0.35 seconds. The laboratory dynamometer operates sufficiently rapidly when additional resistance is connected in the armature circuit; for the case of constant torque, the time of picking up and dropping the load does not exceed 0.07 seconds. Use of the intermediate amplifier makes it possible to alter the speed of operation of the amplidyne wiilst maintaining a high amplification. The apparatus also becomes adaptable to a wide range of transducers. There are 9 figures and 9 Soviet references.

ASSOCIATIONS: Institut elektromekhaniki AN SSSR (Institute of Electromechanics AS USSR)
Nauchno-issledovatel'skiy institut postoyannogo toka (DC Scientific-Research Institute)

SUBMITTED: November 17, 1959

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Viktor Vasil'yevich, kand.tekhn.nauk, starshiy nauchnyy sotrudnik; MAMEDOV, Vladimir Mikhaylovich, nauchnyy sotrudnik

Reproduction of the electromechanical parameters of electric drive systems under laboratory conditions by means of universal braking devices. Izv. vys. ucheb. zav.; elektromekh. 3 no.12:124-129 '60. (MIRA 14:5)

1. Institut elektromekhaniki Akademii nauk SSSR.
(Electric driving)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V., kand.tekhn.nauk; YEGOROV, B.A., inzh.; KONRADI, L.G., inzh.

Electrodynamic model for investigating ionic excitation systems used in electric drives. Elektrichestvo no.6: 88-90 Je '60. (MIRA 13:7)

1. Institut elektromekhaniki AN SSSR (for Rudakov, Yegorov).
2. Leningradskiy proizvodstvenno-ekspluatatsionnyy otdel instituta "Tyazhpromelektroproyekt" (for Konradi).
(Electric driving--Electromechanical analogies)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V., inzh.; MAMEDOV, V.M., inzh.; YEGOROV, B.A., inzh.; VLASOVA, O.D., inzh.

Electrodynamic model for studying the automatic control systems of electric drives. Vest. elektroprom. 31 no.9:55-60 S '60. (MIRA 15:5)

(Electric driving--Electromechanical analogies)
(Automatic control)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

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PHASE I BOOK EXPLOITATION SOV/5533

Akademiya nauk SSSR. Institut elektromekhaniki.

Spetsial'nyye voprosy avtomatizirovannogo elektroprivoda (Special Problems of the Automatic Electric Drive) Moscow, Izd-vo AN SSSR, 1961. 248 p. Errata slip inserted. 6,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut elektromekhaniki.

Eds. (Title page): D. A. Zavalishin, Corresponding Member, Academy of Sciences USSR, and V. V. Rudakov, Candidate of Technical Sciences; Ed. of Publishing House: N. V. Travin; Tech. Ed.: R. A. Arons.

PURPOSE: This book is intended for technical personnel engaged in designing or operating regulated and automated electric drives for machines and mechanisms. It may also be useful to students in advanced courses working on term and degree projects.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

COVERAGE: The book discusses the principles of operation and the methods of computation of regulated drives with a-c and d-c motors. Special attention is paid to problems related to the frequency method of induction motor control, which the authors consider the most promising. Recommendations regarding the use of a-c commutator motors and induction motors with special winding and improved starting characteristics are made. A considerable part of the book is devoted to problems of design and calculation of the control circuits for automated d-c drives, and to methods of investigating dynamic characteristics of d-c drive systems by means of electronic and electrodynamic models. Recent developments in regulated d-c drives and modern methods of analyzing and synthesizing automated d-c systems, based on investigations carried out by the Institut elektromekhaniki AN SSSR (Institute of Electromechanics AS USSR), are discussed in detail. The book was written by the following persons: A. A. Dartau (Chs. II and III), D. A. Zavalishin (Introduction, sections 1, 4, 5, and 6 of Ch. I, and Ch. II); S. V. Korotkov (Ch. VI, sec. 3);

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Special Problems of (Cont.) SOV/5533

I. I. Laptev (sections 4 and 5 of Ch. V); O. V. Popov (Ch. IV; sections 2, 4, and 5 of Ch. V, and sec. 3 of Ch. VI,); V. A. Prozorov (sections 1, 2, and 3 of Ch. I.); V. V. Rudakov (Introduction, sec. 1 of Ch. V, sections 1 and 4 of Ch. VI); V. V. Semenov (sec. 3 of Ch. V); Ye. M. Smirnov (sec. 2 of Ch. VI); E. F. Stepura (sec. 3 of Ch. V); A. V. Fateyev (Introduction). There are 69 references: 59 Soviet, 7 German, 2 English, and 1 French.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Viktor Vasil'yevich; KOVCHIN, S.A., kand. tekhn. nauk, red.; SOBOLEVA, Ye.M., tekhn. red.

[Amplidynes in automatic control systems] Elektromashinnye usiliteli v sistemakh avtomatiki. Moskva, Gos. energ.izd-vo, 1961. 375 p. (MIRA 14:12)

(Rotating amplifiers) (Automatic control)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

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32065
S/024/61/000/006/017/019
E192/E382

9,2530 (1068,1147,1067)

AUTHOR: Rudakov, V.V. (Leningrad)

TITLE: Transfer functions of a transverse-field electric rotating amplifier when operating in series with auxiliary amplifiers

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika. no. 6, 1961, 121 - 128

TEXT: A transverse-field rotating amplifier can be provided with an auxiliary amplifier and a strong negative feedback, in order to reduce distortion of its characteristics caused by the hysteresis of the magnetic drive. A general equivalent circuit of a rotating amplifier with a strong linearizing negative feedback is shown in Fig. 1. If it is assumed that the brush-contact resistances are constant, the magnetic material is not saturated and the parameters of the amplifier are constant, the transfer function of the system when operating with an active load can be expressed as:

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Transfer functions of S/024/61/000/006/017/019
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$$W_{\text{в.ву}} = \frac{W_{\text{ву}} W_{\text{в0}} W_{\text{н}}'}{1 + W_{\text{в0}} W_{\text{н}}' W_{\text{ос-н}} + W_{\text{в0}} \frac{W_{\text{н}}'}{W_{\text{н}}} W_{\text{ос-и}}} \qquad (1.1),$$

where $W_{\text{ву}}$ is the transfer function of the auxiliary amplifier,

$W_{\text{в0}}$ is the transfer function of the rotating amplifier when short-circuited

$$W_{\text{в0}}(p) = \frac{k_{\text{в0}}}{\frac{p^2}{\nu_c^2} p + \frac{h_0}{\nu_0} 2p + 1} = \frac{\frac{c_{e1} c_{e2}}{r_1 r_2 (1 + \alpha_2)}}{\frac{T_{1\Sigma} T_2}{(1 + \alpha_2)} p^2 + \left(\frac{T_{1\Sigma} + T_2}{1 + \alpha_2}\right) p + 1} \qquad (1.2),$$

$W_{\text{ос-н}}$ is the transfer function of the feedback path of the rotating amplifier:

$$W_{\text{ос-н}}(p) = r_1 k_{3-1} (1 - \varepsilon) \left[\left(T_{1\Sigma} + \frac{T_{\text{н}}'}{(1 - \varepsilon)}\right) p + 1\right] \qquad (1.3),$$

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E192/E382

Transfer functions of

W_H is the transfer function of the load

W_H is the transfer function of the load taking into account the internal potential drop in the rotating amplifier, and

$W_{oc\ u}$ is a strong negative voltage feedback

The above equations are used to derive the transfer function for a rotating amplifier, preceded by a two-stage push-pull vacuum-tube amplifier, in which the first stage is based on a double triode operating in class A and the second stage is built of two power pentodes operating in class AB_1. It is shown that the equivalent circuit for this case is in the form shown in Fig 26. The figure gives the transfer function of the system from which it is seen that due to large internal resistances of the vacuum tubes it is sufficient to take into account only the time constant of the transverse circuit of the rotating amplifier. Consequently the amplifier is "transformed" from a second-order oscillatory system into an aperiodic system of the first order. Such a "modification" of the system is very useful in that it increases the accuracy and the speed of the system. If the rotating

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V. (Leningrad)

Transfer functions of a transverse-field amplidyne. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.1:79-88 Ja-F '62. (MIRA 15:3)

(Rotating amplifiers)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

KOVCHIN, S.A., kand. tekhn.nauk, dots.; LUR'YE, A.B., kand. tekhn. nauk, dots.; PROZOROV, V.A., kand. tekhn. nauk; RUDAKOV, V.V., kand. tekhn. nauk, dots.; SHUSTOV, V.A., kand. tekhn. nauk, retsenzent; DARTAU, A.A., kand. tekhn. nauk, red.; ONISHCHENKO, R.N., red.izd-va; SPERANSKAYA, O.V., tekhn. red.

[Automation of agricultural machines and units] Avtomatizatsiia sel'skokhoziaistvennykh mashin.i ustanovok. Moskva, Mashgiz, 1963. 358 p. (MIRA 16:8)
(Agricultural machinery) (Automatic control)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

SABININ, Yu.A., otv. red.; NIKOLAYEV, P.V., red.; RUDAKOV, V.V., red.; MYASNIKOV, V.A., red.; KULIKOV, S.N., red.

[Automated electric drives; servo systems, control, and converter devices] Avtomatizirovannyi elektroprivod; sledjashchie sistemy, upravlenie i preobrazovatel'nye ustroistva. Moskva, Nauka, 1965. 172 p. (MIRA 18:5)

1. Leningrad. Institut elektromekhaniki.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

PELISHENKO, I.A.; RUDAKOV, V.V.

Effect of certain biochemical preparations on the survival of irradiated animals and on the bactericidal properties of the blood serum. Zhur. mikrobiol. epid. i immun. 31 no.7:43-47 Jl '60. (MIRA 13:9)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii im. Kirova.
(RADIATION SICKNESS) (PROPERDIN)
(MARRON TRANSPLANTATION)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

PELISHENKO, I.A.; RUDAKOV, V.V.

Effect of hydrogen peroxide on survival of rats and catalase activity during the action of ionizing radiation. Med. rad. 5 no.9:87 S '60. (MIRA 13:12)

(HYDROGEN PEROXIDE) (CATALASE)
(RADIATION—PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

Rudakov V.V.

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AUTHORS: Pelishenko, I.A. and Rudakov, V.V.

TITLE: The Effects of Some Biochemical Preparations on the Survival of Irradiated Animals and on the Bactericidal Properties of Their Blood Serum

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, No 7, pp 43 - 47

TEXT: Work by E.Ya. Grayevskiy, N.I. Shapiro, A.V. Lebedinskiy, V.L. Troitskiy and M.A. Tumanyan has shown that both properdin and bone marrow preparations have a good effect on the survival of animals irradiated with ionizing radiation. The present authors set out to study the effects of joint administration of these preparations and their effect on the bactericidal properties of the irradiated animal's blood serum, as compared to the effect of antibiotics. The experiments were performed on white mice irradiated with a dose of 750 r. Properdin, bone marrow or a combination of both were injected 2-5 days after irradiation. Combined administration of properdin and bone marrow proved more effective than simple properdin administration and increased the survival rate by 25%. The effect on the

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

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The Effects of Some Biochemical Preparations on the Survival of Irradiated Animals and on the Bactericidal Properties of Their Blood Serum

bactericidal properties of the blood sera of white rats was determined by irradiating the rats with a dose of 650 r and testing the resistance of the serum to a strain of Escherichia coli. Irradiation led to a deterioration in the serum's bactericidal properties. Penicillin and streptomycin led to some improvement in the bactericidal properties of the serum, but a still greater improvement was effected by penicillin and streptomycin administered jointly with properdin and bone marrow. There are 2 tables and 12 references: 3 Soviet, 8 English and 1 German

ASSOCIATION: Voyenno-meditsinskaya ordena Lenin akademiya imeni Kirova (Lenin Order Military Medical Academy imeni Kirov)

SUBMITTED: July 14, 1959

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V.

Effect of radioactive phosphorus on oxidative processes of the organism [with summary in English]. Med.rad. 3 no.3:21-25 My-Je '58 (MIRA 11:7)

1. Iz kafedry biokhimii (nach. - chlen-korrespondent AMN SSSR prof. G.Ye. Vladimirov) Voyenno-meditsinskoy ordena Lenina akademii S.M. Kirova.

(PHOSPHORUS, radioactive,
eff. on tissue resp. (Rus))
(METABOLISM, TISSUE, effect of radiation,
tissue resp. reactions to radiophosphorus (Rus))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

PELISHENKO, I.A.; RUDAKOV, V.V.

Changes in various blood coagulation factors in radiation sickness and after the administration of a spleen preparation to irradiated animals. Med.rad. 4 no.7:20-26 Jl '59. (MIRA 12:9)

1. Iz kafedry biologicheskoy khimii (nach. - chlen-korrespondent AMN SSSR prof.G.Ye.Vladimirov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(RADIATION INJURY exper.)
(BLOOD COAGULATION radiation eff.)
(SPLEEN extracts)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

PELISHENKO, I.A.; RUDAKOV, V.V.; ZAREMBSKIY, R.A.

Possibility of repeated use of zymosan to obtain the serum protein properdin. Lab.delo 5 no.5:23-25 S-O '59. (MIRA 12:12)

1. Iz kafedry biokhimii (nach. - prof. G.Ye. Vladimirov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.
(ZYMOSAN) (PROPERDIN)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

PROZOROV, V.A.; SMIRNOV, Ye.M.; RUDAKOV, V.V.

Traction characteristics of an automatically controlled a.c. electric drive. Sbor.rab.po vop.elektromekh. no.3:197-208 '60. (MIRA 13:8)

(Electric railway motors)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

GRUZOV, V.L.; MAMEDOV, V.M.; RUDAKOV, V.V.

Use of servo correctors in amplidyne automatic control systems. Sbor.rab.po vop.elektromekh. no.7:147-157 '62. (MIRA 16:1)

(Rotating amplifiers) (Automatic control)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

S/196/63/000/002/022/026
E194/E155

AUTHOR: Rudakov, V.V.

TITLE: The use of amplidynes in installations for physical modeling of d.c. controlled electrical drives

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.2, 1963, 1, abstract 2 K 6. (Dokl. 4-y Mezhvuz. konferentsii po primeneniyu fiz. i matem. modelirovaniya v razlichn. otraslyakh tekhn. Sb.4. (Reports of the 4th Intercollegiate Conference on the Application of physical and mathematical Modeling to Various Branches of Technology. Collection 4). Moscow, 1962, 195-208)

TEXT: The use is considered of amplidynes in dynamic models of automatic d.c. generator-motor systems, to reproduce electromagnetic and electro-mechanical dynamic parameters of the main machines and mechanical load parameters on the model motor shaft. In the dynamic model, amplidynes are used as main elements of inertialess d.c. power amplifiers. Since a cross-field amplidyne is a second-order oscillatory link, it forms the basis of an inertialess link when connected in cascade with an electronic

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amplifier. The absence of inertia in the amplidyne-electronic amplifier link is achieved by internal feedback of the amplification cascade of the electronic amplifier, and flexible negative feedback according to the e.m.f. on the amplidyne output covering the entire link. To reproduce the parameters of the d.c. machine field circuit on the model, the amplidyne is introduced into the circuit as a machine reactance. It is shown that with a critical degree of compensation of the amplidyne change in the circuit time-constant does not alter the steady-state parameters of the circuit. Investigations on a dynamic model of a metallurgical drive showed that with an amplidyne type ЭМУ-50 (EMU-50) the field circuit time-constant can be varied in the ratio 1:40. The static load and mechanical inertia parameters of the drive may be reproduced by a cross-field amplidyne with two sets of high-resistance differential control windings supplied through two electronic amplifiers. In adjusting the amplidynes in conditions of critical compensation and tachometric circuit feedback, the nature of the load torque of the machine is fully determined by the nature of the change and magnitude of the master voltage, provided there is total compensation of the e.m.f. of rotation of the retarding machine.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

The use of amplidynes in ... S/196/63/000/002/022/026
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An expression is derived for the electromechanical time-constant of the driving motor which shows that it may be varied widely by altering the dynamic current signal applied to the loading equipment. Experimental investigations of the loading equipment on machines type ПН-28 (PN-28) and EMU-50 demonstrated its satisfactory operation. The electromechanical time-constant was varied in the range (0.5-2) T_M by the machine braking installation and there was no distortion of the electromechanical transient processes. Measurements on an electro-dynamic model with cross-field amplidyne during investigation of an automatic driving system for a blooming mill of 5450 kW when compared with the results of full-scale tests showed that differences in speed changes and in duration of transient processes on the model and on the full-scale equipment did not exceed 5%. Schematic electrical and structural diagrams are given of the units which represent the field circuit and drive load.
4 references.

[Abstractor's note: Complete translation.]

Card 3/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

BURDIN, Viktor Fedorovich; RUDAKOV, Viktor Vasil'yevich; NOVIKOVA, Galina Ivanovna; LYUSTIBERG, V.F., inzh., ved. red.; SOSNOVSKIY, A.A., inzh., red.; SOROKINA, T.M., tekhn. red.

[Device for measuring step-wise changes in capacitance]Izmeritel' skachkoobraznykh izmenenii emkosti. Chetyrekhkanal'nyi kommutator k elektronnym ostsillografam. [By]V.V.Rudakov i G.I.Novikova. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 15 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 36. No.P-58-78/13) (MIRA 16:3)
(Electric capacitance--Measurement)
(Cathode ray oscillograph) (Commutation (Electricity))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Viktor Vasil'yevich, kand. tekhn. nauk; USTYUZHANIN, Gennadiy Anatol'yevich, inzh.; SHTEYNBOK, G.Yu., inzh., ved. red.; SHVETSOV, G.V., tekhn. red.

[Electronic amplifier with a multiplying device for servo drive systems]Elektronnyi usilitel' s mnozhitel'nym ustroistvom dlia sistem slediashchego privoda. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 23 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 42. No.P-58-69/7) (MIRA 16:3)

(Amplifiers, Electron-tube) (Servomechanicsms)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V., kand. tekhn. nauk; RUDAKOVA, N.N.; ASHKENAZI, E.L., red.; AKSEL'ROD, I.Sh., tekhn. red.

[International electrotechnical dictionary; group 35: Electromechanical devices and their applications] Mezhdunarodnyi elektrotekhnicheskii slovar'; gruppa 35: Elektromekhanicheskie ustroistva i ikh primenenie. Moskva, Glav. red. inostr. nauchno-tekhn. slovarei Fizmatgiza, 1963. 69 p. (MIRA 16:8)

1. International Electrotechnical Commission.
(Electric engineering—Dictionaries)
(Dictionaries, Polyglot)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V.

Construction of static characteristics of amplidyne automatic control systems. Izv. vys. ucheb. zav.; elektromekh. 4 no.10:82-90 '61. (MIRA 14:11)
(Automatic control)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V. (Leningrad)

Transfer functions of an amplidyne operating in a stage with auxiliary amplifiers. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.6:121-128 N-D '61. (MIRA 14:12)
(Rotating amplifiers)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V., BOROVIKOVA, O.N., PELISHENKO, I.A., (USSR)

"Effect of Bone Marrow Heterotransplants of Biochemical Processes in Haemopoietic Organs in Acute Radiation Sickness."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug 1961.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

S/196/61/000/009/042/052
E194/E155

AUTHORS: Mamedov, V.M., and Rudakov, V.V.

TITLE: Modelling the field circuits of d.c. machines in electro-dynamic models of drive systems

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.9, 1961, 8, abstract 9K 68. (Vestn. elektroprom-sti, no.3, 1961, 50-55)

TEXT: In the Institut elektromekhaniki AN SSSR (Institute of Electro-Mechanics, AS USSR) an electrical machine variator is used in modelling processes in field circuits. This ensures increase in the leakage inductance of the field circuit, which consists of a generator installation with an e.m.f. proportional to the differential coefficient of change of current in the circuit whose dynamic parameters are to be altered. The generator element of the equipment is a standard amplidyne with cross-field excitation controlled by an electronic amplifier unit, whose input is connected through a differential transformer to the circuit of the controlled parameter. To stabilise the amplidyne and reduce the time constant of its cross-circuit the variator circuit contains

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Modelling the field circuits of ... S/196/61/000/009/042/052
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a so-called follow-up regulator. The article describes the structural circuit of the variator which, with an additional control device, ensures that operating conditions are close to the ideal. No-load curves are given for the first and second stages of amplification taken with an amplidyne type ЭМУ-50-3000 (EMU-50-3000), intended for an inductance variator system. Experimental study of an installation with a machine inductance variator and an amplidyne type EMU-50-3000 indicates that it satisfies the requirements of modelling the field circuit of large generator-motor sets on low-power machine models. 8 illustrations.

[Abstractor's note: Complete translation.]

Card 2/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

S/144/61/000/010/004/004
D053/D112

16.8000

AUTHOR: Rudakov, V. V., Candidate of Technical Sciences, Senior Scientific Worker (see Association)

TITLE: Plotting static characteristics in electromechanical automation systems

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, No. 10, 1961, 82-90

TEXT: The author gives calculation and plotting methods for the static characteristics of d-c drives in electromechanical automation systems. The calculation and plotting of static characteristics makes it possible to determine all tight feedbacks for given characteristics of the electric drive. In particular, the following cases are discussed: (1) linear elements with nonlinear parallel feedbacks; (2) linear elements with nonlinear series feedbacks; (3) a drive system with delayed current and voltage feedbacks; and (4) determination of feedback factors. Examples of plotting and calculation

VB

Card 1/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

Plotting static characteristics ... S/144/61/000/010/001/004
D053/D112

ation formulas are given. In conclusion, it is stated that the parameters of the master signal circuit and the tight feedback circuits can be determined by plotting the static characteristics of the drive. Moreover, in this method it is also possible to consider the machine hysteresis, when plotting static characteristics of the system. There are 8 figures and 1 Soviet references.

ASSOCIATION: Institut elektromekhaniki AN SSSR (Institute of Electromechanics [illegible] Engineering [illegible] AS USSR) [illegible]

SUBMITTED: February 7, 1961 (initially)
March 28, 1961 (after revision)

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

KUDRYAVTSEV, V. V.

AID P - 1353

Subject : USSR/Chemistry

Card 1/1 Pub. 78 - 16/30

Authors : Chertkov, Ya. B., Zrelov, V. N. and Rudakov, V. V.

Title : Heat of combustion of hydrocarbons

Periodical : Neft. khoz., v.32, #12, 53-57, D 1954

Abstract : Variations in the heat of combustion of hydrocarbons of paraffin, naphthene and aromatic types are discussed from the point of view of obtaining maximum heat value. Heats of combustion per unit of weight and per unit of volume are related to density and molecular structure (ring and chain types). 5 charts and 3 Russian references (1948-53)

Institution: None

Submitted : No date

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.V.

4

1451. CALORIFIC VALUE OF HYDROCARBON MIXTURES OF DIFFERENT CHEMICAL STRUCTURE. Chertkov, Ya.B., Zrelov, V.N. and Rudakov, V.V. (Nov. Neft. Tekh., Neftepereerab. (Nova Petrol. Tech., Treatment, Moscow), 1956, (2), 11-14; abstr. in Ref. Zh. Khim. [illegible]).

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is necessary to start with naphthene hydrocarbons.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.Ye. [Rudakov, V.IE.]

New confirmations of some regularities in tree transpiration. Ukr. bot. zhur. 22 no.5:31-37 '65. (MIRA 18:10)

1. Upravleniye glavnogo arkhitektora g. Yalty.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

Meteorological Abst.
Vol. 4 No. 3
March 1953
Climatology and
Bioclimatology

551.583:581.056

Rudakov, V. L. Metod obrabotki godichnykh kolets derev'ev dlia vyiavleniia vliianiia kolebanii klimata na ikh tolshchinu. [Method of treatment of annual tree rings for explaining the influence of climatic variations on their thickness.] *Akademiia Nauk SSSR, Doklady, Novaia Seriia*, 84(1):169-171, 1952. DLC—The author presents a method for eliminating nonclimatic influences and the effect of unequal growth of trees upon annual tree rings. This method consists of introducing a correction factor, $M = a/b \times 100$, where a = amount of annual growth obtained by measuring rings, and b = magnitude of calculated running growth for the number of years, included by the formula, relative to the year of formation of the annual ring. The application of this procedure is illustrated and analyzed. *Subject Headings:* 1. Dendrochronology 2. Climatic effects 3. U.S.S.R.—*L.L.D.*

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

HUDAKOV, V.Ye.

Possibility of reestablishing the rate of fluctuations of river currents on the basis of annual tree rings, as exemplified by the Volga River. Izv.AN SSSR Ser.geog. no.4:101-103 Jl-Ag '53. (MLRA 6:8)

1. Upravleniye Gidrometsluzhby Moldavskoy SSR. (Tree rings) (Rivers)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

1. RUDAKOV, V.YE.

2. USSR (600)

4. Humidity

7. Problem of the internal moisture cycle, Les i step' 5 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.Ye.

Letter to the editor. Izv.Vses.geog.ob-va 89 no.1:88-90 Ja-F '57.
(MLRA 10:3)

(Tree rings)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

COUNTRY :
CATEGORY : Forestry. General

ABS. JOUR. : RZhBiol., No. 14 1959, No. 63163

AUTHOR : Budkov, N. Ye.
INST. : All-Union Geographical Society
TITLE : [illegible]

ORIG. PUB. : Izv. Vses. geogr. o-va, 1957, 89, No. 1, 89-90

ABSTRACT : There is a discussion of a review by E. D. Zaykov, which appeared in the journal "Meteorology and Hydrology", 1954, No. 2. It is pointed out that the critical comments of E. D. Zaykov in relation to the work of the author were mainly a result of ignorance of the voluminous literature on the problem of the influence of climatic and hydrologic factors on the width of annual rings in trees.

Card: 1/1

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.Ye.

Method of studying the effect of climatic fluctuations on the width of tree rings. Bot.zhur. 43 no.12:1708-1712 D '58. (MIRA 11:12)

1. Yaltinskaya gidrometeorologicheskaya stantsiya.
(Tree rings) (Vegetation and climate)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V. Ye.

Annual accretion of trees as an indicator of river drainage fluctuation. Izv. Vses. geog. ob-va 96 no.6:498-501 N-D '64 (MIRA 18:1)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V.Ye.

Pines in the Buzuluk Forest as indicators of precipitation fluctuation. Izv. Vses. geog. ob-va 93 no.6:527-531 N-D '61. (MIRA 15:1)

(Buzuluk Pine Forest--Tree rings)
(Buzuluk Pine Forest--Precipitation)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, V. Ye.

Growth rate of trees and climatic elements. Dokl. AN SSSR 137 no.4:984-985 Ap '61. (MIRA 14:3)

1. Predstavleno akademikom V. I. Sukachevym.
(Tree rings)(Vegetation and climate)(Kuybyshev Province--Pine)
(Orenburg Province--Pine)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUBAKOV, Ya. D.

23175 montazh i naladka gidrodinamicheskogo pegulirovaniya sistemy VTI. elektr. stants 11, 1949, No. 7, c. 51-52.

SO: LETOPIS' NO. 31, 1949

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, YA. D.

"Installation and Adjustment of Hydrodynamic Regulation of the VTI Systems," Elek. Stan., No. 7, 1949.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ya.D., inzh.; SHEVCHENKO, Ye.M., inzh.; MARTYNOV, A.V.

Use of the scavenging slime of clarifying agents for neutralizing the acid waters of chemical desalting systems. Elek. sta. 32 no.12:59-60 D '61. (MIRA 15:1)

(Feed-water purification)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

BUDAKOV, Ya. D., inzh.; MARTYNOV, A. V., inzh.; KUZNETSOVA, V. V., inzh

Admixture of caustic magnesite in burning mazut. Elek.sta. 32 no.9: 29-31 S '61. (MIRA 14:10)
(Boilers—Incrustations)
(Petroleum as fuel)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ya.D., inzhener.

Using a regulator of the acceleration of DKO-195 and AP-25-1 turbines in the control system for AK-25-2 turbines. Elek.sta. 27 no.5:55-58 My '56. (MLRA 9:8)
(Turbines)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ya.D., inzhener.

Connecting condensers at the steam inlets to permit their cleaning during operation. Elek.sta. 24 no.4:56-57 Ap '53. (MLRA 6:5)
(Condensers (Steam))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

VALEYEV, A.M.; GOLEV, Yu.D.; GOLEVA, Z.N.; GOLOVKO, R.Ye.; ZAV'YALOVA, B.A.; ZARETSKIY, B.A.; ZVEREV, Ye.A.; LIPINSKIY, F.A.; MANGUSHEV, I.Kh.; MEYZLER, M.Kh.; MUTOVKIN, V.A.; RUDAKOV, Ya.D.; RUKOVANOV, B.P.; KHASANOV, G.M.; ESTRIN, Z.I.; ZUDIN, B.A., red.; BORUNOV, N.I., tekhn. red.

[Adjustment and operation of equipment in the Novo-Ufimskii Heat and Electric Power Plant] Naladka i ekspluatatsiia oborudovaniia na Novo-Ufimskoi TETs. Moskva, Gos. energ. izd-vo, 1961. 175 p. (MIRA 14:9)
(Bashkiria—Electric power plants)
(Bashkiria—Heating from central stations)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

KOFMAN, L.M., inzh.; RUDAKOV, Ya.D., inzh.; MARTYNOV, A.V., inzh.; FISHER, N.A., inzh.; KUZNETSOV, V.N., inzh.

Use of recirculation of gases for increasing steam superheating and its regulation in fuel oil operated boilers. Elek. sta. 33 no.6:14-17 Je '62. (MIRA 15:7)

(Boilers)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

[illegible], V.[illegible], kand. tekhn. nauk; [illegible], Yu.P., retsenzent

[Precision calculations in designing piston compressors] Tochnostnye raschety pri proektirovanii porshnevykh kompressorov. Moskva, Mashinostroenie, 1965. 222 p. (MIRA 18:1)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

Z/019/63/020/002/002/006
E073/E335

AUTHORS: Kofman, L.M., ~~Rudakov, Y.D.,~~ Martynov, A.V., Fisher, N.A. et al

TITLE: Increase in the steam super-heating temperature and its regulation in a fuel oil-fired boiler by recirculating the flue gases

PERIODICAL: Energetika a elektrotechnika. Přehled technické a hospodářské literatury, v. 20, no. 2, 1963, 63, abstract E63-823 (Elektricheskiy stantsii, 33, no. 6, 1962, 14 - 17)

TEXT: Describes the adaptation of a boiler, originally intended for burning hard coal, to take fuel oil. A higher temperature of superheated steam, and its requisite regulation were achieved by recirculating flue gases drawn from behind the "additional" surfaces back to the hearth. Measurements on the reconstructed boiler (with various degrees of recirculation) confirmed the effectiveness of the adaptation. Three figures, one table.
[Abstracter's note: complete translation.]

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ya.D., inzh.; MARTYNOV, A.V., inzh.; KUZNETSOVA, V.V., inzh.

Fuel oil department of a thermal electric power plant. Energetik 11 no.4:11-13 Ap '63. (MIRA 16:3)
(Electric power plants)
(Petroleum as fuel)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ye.

Cooperation of the European socialist countries in developing the material and technical base for agriculture. Vop. ekon. no.11:147-153 N '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

BADIR'YAN, G.G., prof.; VASIL'YEV, N.V., prof.; KUTOV, G.G., prof.; RUDAKOVA, Ye.A., prof.; BRAGINSKIY, B.I., doktor ekon.nauk; GUMEROV, M.N., dots.; ROMANCHENKO, A.V., doktor ekon. nauk; ABRAMOV, V.A., dots.; ALTAYSKIY, I.P., kand. ekon. nauk; GAVRILOV, V.I., dots.; RAFIKOV, M.M., kand.ekon. nauk; VINOKUR, R.D., dots.; RUSAKOV, G.K., dots.; LAVRENT'YEV, V.N., dots.; GORELIK, L.Ya., red.; PONOMAREVA, A.A., tekhn. red.

[Economics, organization and planning of agricultural production] Ekonomika, organizatsiia i planirovanie sel'skokhozialstvennogo proizvodstva. Moskva, Ekonomizdat, 1963. 607 p. (MIRA 16:11)

(Agriculture--Economic aspects)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

L 44005-66 EWT(m)/EWP(t)/T/ETI/EWP(k) IJP(c) JD/HW

ACC NR: AP6029871 SOURCE CODE: UR/0413/66/000/015/0022/0022

INVENTOR: Voronov, F. D.; Filatov, A. D.; Gun, S. B.; Selivanov, N. M.; Nosov, V. D.; Savel'yev, G. V.; Goncharov, F. I.; Plotnikov, P. I.; Roshkov, S. A.; Kustobayev, G. G.; Polushkin, V. P.; Arkhipov, V. M.; Uziyenko, A. M.; Kolov, M. I.; Kozhevnikov, V. P.; Shapiro, B. S.; Kalugin, V. F.; Grudev, P. I.; Aksenov, B. N.; Khomyachkov, A. P.; Rudakov, Ye. A.; Kuzema, I. D.; Gomzhin, V. V.; Poydyshev, B. N.; Shternov, M. M.

ORG: none

58
B

TITLE: Method of making high-strength steel plates by pack rolling. Class 7, No. 184232

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22

TOPIC TAGS: high strength steel, high strength steel plate, high strength steel sheet, steel plate rolling, steel sheet rolling

ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength steel plates and sheets up to 10 mm thick and up to 3500 mm wide in a carbon steel envelope. The method includes cleaning, coating, making of the pack, heating, rolling and subsequent heat treatment. To ensure an accurate thickness of the plates

UDC: 621.771.23

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L 44005-66

ACC NR: AP6029871

or sheets regardless of their location in the pack, the thickness of the envelope must be at least 0.6 of the total initial thickness of the high-strength plates of the pack. [ND]

SUB CODE: 13/ SUBM DATE: 18Jun64/ ATD PRESS: 5070

Card 2/2 blg

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

LAZAROV, Kiril, prof.; PAVPEROV, V.P.[translator]; RUDAKOV, Ye.V. [translator]; SHABUNINA, V.I.[translator]; ALEKSEYEV, I.G., red.; GRUSHIN, A.V., tekhn. red.

[Economic development of the Bulgarian People's Republic] Ekonomicheskoe razvitie Narodnoi Respubliki Bolgarii. Moskva, Izd-vo inostr. lit-ry, 1963. 277 p. (MIRA 17:2)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

GAVRILOV, Anatoliy Nikolayevich, doktor tekhn. nauk, prof.;
USHAKOV, Nikolay Nikolayevich, kand. tekhn. nauk, dots.;
TSVETKOV, Nikolay Mikhaylovich, kand. tekhn. nauk, dots.;
RUDAKOV, Ye.A., kand. tekhn. nauk, dots., retsenzent;
BEYZEL'MAN, R.D., inzh., red.; STEPANOVA, A.A., red.izd-va;
GRESHKINA, V.I., tekhn. red.

[Technology of airplane electric equipment] Tekhnologiia aviatsionnogo elektrooborudovaniia. Moskva, Oborongiz, 1963. 523 p. (MIRA 16:12)
1. Moskovskiy energeticheskiy institut im. Molotova (for Rudakov).
(Electric equipment industry)
(Airplanes--Electric equipment)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ye.P.

Studying agricultural technology. Fiz. v shkole 15 no.4:77-80 Jl-Ag'55. (MLRA 8:10)

1. Oblastnaya stantsiya yunykh naturalistov, Omsk
(Agricultural machinery--Study and teaching)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Yevgeniy Alekseyevich, aspirant.

Determining the dimensions of transformers with minimum weight. Nauch. dokl. vys. shkoly; elektromekh. i avtom no.2:115-120 '58. (MIRA 12:1)

1.Kafedra elektrooborudovaniya samoletov i avtomashin Moskovskogo energeticheskogo instituta.
(Electric transformers)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

8(3)

AUTHOR: Rudakov, Yevgeniy Alekseyevich, Aspirant at the Chair for Electrical Supply of Aircrafts and Motor Cars of the Moscow Power Engineering Institute

SOV/161-58-2-14/30

TITLE: Determination of the Dimensions of a Minimum Weight Transformer (Opredeleniye razmerov transformatora minimal'nogo vesa)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 2, pp 115 - 120 (USSR)

ABSTRACT: The method suggested herein permits the determination of the parameters of minimum weight transformers in given material types, specific loads of the active materials, and the space factors that are guaranteed by the technological possibilities of production. This method may be used for calculating the chief geometrical dimensions of transformers up to about 10 kVA as are used in aircrafts. The method of calculation follows. All electric and weight parameters of the transformer are expressed by the geometrical dimensions of the transformer. For the simplification of the calculation all geometrical dimensions are expressed by relative values, i.e. in relation with the dimension A, where A= the side

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

Determination of the Dimensions of a Minimum Weight Transformer SOV/161-58-2-14/30

of the square iron section. The rod section area should possibly be of square shape, for the purpose of reducing the transformer weight. The results obtained by this method were checked by experiments and satisfying agreement was achieved. Finally, a three-phase transformer is calculated as an example. There are 1 figure and 1 table.

ASSOCIATION: Kafedra ESA Moskovskogo energeticheskogo instituta (Chair for Electrical Supply of Aircrafts and Motor Cars of the Moscow Power Engineering Institute)

SUBMITTED: April 16, 1958

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ye.S.; TRET'YAKOV, V.P.

Henry's coefficients for tertiary butyl chloride in ethyl, n-butyl, and n-hexyl alcohols. Izv. SO AN SSSR no.7 Ser. khim nauk no.2:137-138 '64 (MIRA 18:1)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, Ye.S.

Concept of a free energy of intermolecular interaction. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:115-124 '63. (MIRA 16:8)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

(Molecular dynamics) (Liquids)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

RUDAKOV, [illegible]; SPLITSKAYA, N.D., VASSERMAN, T.V.

Intermolecular reactions and azeotropy in binary solutions. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:3-13 '65. (MIRA 18:8)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR i Novosibirskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2

TRET'YAKOV, V.P.; RUDAKOV, Ye.S.

Free energies of intermolecular reactions in liquids. Izv. SO AN SSSR no.7 Ser.khim.nauk no.2:67-73 '63. (MIRA 16:10)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910014-2"