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S/126/60/009/01/009/031  
E111/E191

AUTHOR: Zotov, T.D.

TITLE: Temperature Dependence of Changes in Electrical  
Resistance of Magnetite Single Crystals in a Magnetic  
Field at Low Temperatures

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol 9, Nr 1,  
pp 48-52 (USSR)

ABSTRACT: The author carried out the work described to supplement  
the meagre published information on the influence of  
temperature on the electrical resistivity changes in a  
magnetic field in the low-temperature magnetic  
transformation range of magnetite. Single crystals,  
previously subjected to cooling below the low-temperature  
transformation in a magnetic field, were studied in the  
temperature range 78-213 °K. The Kosoy-Brod magnetite  
crystals were shown to be of almost stoichiometric  
composition (main impurity 0.01-0.3% Ti), and without  
static lattice distortion. Two rods 1.33 mm in diameter  
and 7.0 and 6.0 mm long were cut from a regular crystal  
with their axes in the [100] direction and leads were  
spark-welded on. Temperature was measured with a copper-

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S/126/60/009/01/009/031  
E111/E191Temperature Dependence of Changes in Electrical Resistance of  
Magnetite Single Crystals in a Magnetic Field at Low Temperatures

constantan couple. Before the test the specimen was cooled to liquid-nitrogen temperature in a longitudinal or transverse field of 10 000 Oe or without a field, and then demagnetized. Electrical resistivity measurements were effected during heating at 2 °C per hour in a 20 000 Oe field. Fig 1 shows the relative change in resistivity (continuous line) and the resistivity in a longitudinal field as functions of temperature for a specimen cooled without a magnetic field. The corresponding relative-change curve for the specimen cooled in a longitudinal field is shown in Fig 2. Figs 3 and 4 show the relative-change curves with a transverse field for specimens cooled in a transverse field and without a field, respectively. All the curves of relative change in resistivity show minima at 111.5 and 95 °K. The author attributes these effects to preferential scattering of conduction electrons by fluctuations of different types and discusses some reported related effects (Refs 10, 11 and 12). X

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2/3

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E111/E191

Temperature Dependence of Changes in Electrical Resistance of  
Magnetite Single Crystals in a Magnetic Field at Low Temperatures

There are 4 figures and 12 references, of which 6 are  
Soviet and 6 English.

ASSOCIATION: Institut fiziki metallov AN SSSR  
(Institute of Physics of Metals, Acad. Sci. USSR)

SUBMITTED: August 16, 1959

Card 3/3

L 1717-66 EPF(c)/EWT(m)/EWP(b)/T/EWP(w)/EWP(t) IJP(c) JN/JG

ACCESSION NR: AP5021944

UR/0126/65/020/002/0308/0309  
539.292:538.134

50  
49  
13

AUTHOR: Samokhvalov, A. A.; Bamburov, V. G.; Volkenshtejn, N. V.; Zetov, T. D.;  
Ivakin, A. A.; Morozov, Yu. N.; Simonova, M. I.

TITLE: Magnetic properties of  $\text{Eu}_3\text{O}_4$

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 2, 1965, 308-309

TOPIC TAGS: magnetization, saturation magnetization, temperature dependence,  
Curie temperature, Weiss-Forrer method, magnetic moment, europium compound

ABSTRACT: To elucidate the magnetic properties of  $\text{Eu}_3\text{O}_4$  the authors measured the temperature dependence of magnetization in the presence of different magnetizing fields at temperatures of upward of 1.65°K and thus determined for the first time the principal magnetic characteristics of  $\text{Eu}_3\text{O}_4$ : saturation magnetization  $\sigma_s$  and Curie temperature  $T_C$ . The measurements were performed with the aid of a pendulum magnetometer. The external magnetic field in the measurements reached 10,000 oe, which sufficed to bring the specimen to magnetic saturation. Through extrapolation from the set of curves  $\sigma(H, T)$  to  $H = 0$  the saturation magnetization  $\sigma_s$  was found

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ACCESSION NR: AP5021944

to be  $89.4 \text{ gauss} \cdot \text{cm}^3/\text{g}$ . From the same curves, using the Weiss-Fischer method of lines of equal magnetization, the authors found the Curie temperature, which proved to be  $7.0^\circ\text{K}$ . With its relatively large magnetic moment and low Curie point, this oxide appears a suitable means of verifying the spin-wave theory. Verification of this theory showed that the linear  $T^2$ -dependence of saturation magnetization exists throughout a broad temperature range (from  $1.65$  to  $4.6^\circ\text{K}$ ) ( $0.6 \text{ T}_c$ ). The same dependence is also observed for a number of uncompensated antiferromagnetics and for certain rare earths. Orig. art. has: 1 figure.

ASSOCIATION: Institut fiziki metallyov AM SSSR (Institute of Metal Physics, AM SSSR)

SUBMITTED: 20Oct64

ENCL: 01

SUB CODES: IC, EM

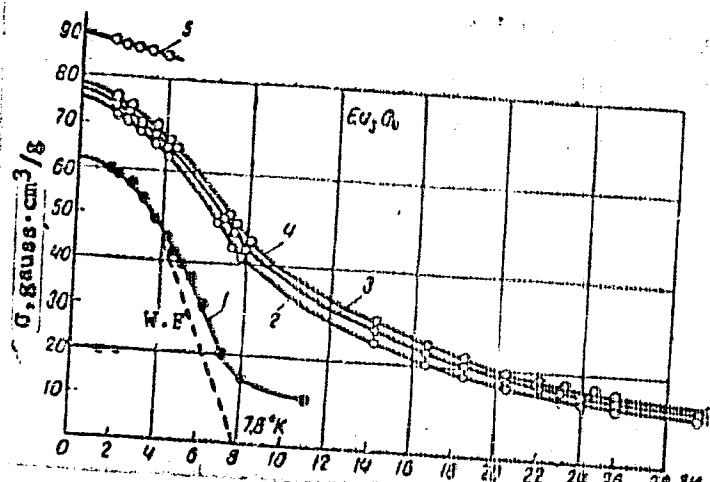
NO REF Sov: 000

OTHER: 004

Card 2/3

L 1717-66

ACCESSION NR: AP5021944



ENCLOSURE: 01

Temperature dependence of  
 $\text{Eu}_3\text{O}_4$  in the presence of  
different fields:

- 1 - H = 0; 2 - H = 15,200  
oe; 3 - H = 17,300 oe;  
4 - H = 10,400 oe; 5 - H =  
cm; broken line denotes the  
magnetization curve plotted  
by the Weiss-Forre method

Card 3/3

L 07101-67 EWT d)/EWT(m)/EWP(t)/ETI IJP(c) JD, AM

ACC NR: AP6029113

SOURCE CODE: UR/0048/66/030/006/0979/0980

AUTHOR: Volkenshteyn, N.V.; Zotov, T.D.

ORG: Institute of Metal Physics, Academy of Sciences, SSSR (Institut fiziki metallov  
Akademii nauk SSSR)

TITLE: Investigation of the temperature dependence of the spontaneous magnetization  
of a magnetite single crystal at low temperatures [Report, All-Union Conference on the  
Physics of Ferro- and Antiferromagnetism held 2-7 July 1965 in Sverdlovsk]

SOURCE: AN SSSR, Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 979-980

TOPIC TAGS: spontaneous magnetization, ferrite, single crystal, temperature depen-  
dence, low temperature effect, spin wave theory

ABSTRACT: The authors have employed a pendulum magnetometer of the type described by  
Domenikali (Rev. Sci. Instrum., 21, 327 (1950)) to measure the spontaneous magneti-  
zation of a natural magnetite single crystal at temperatures from 4.2 to 50° K. The  
19.3 kOe external magnetic field was more than adequate to insure saturation of the  
spherical specimen. The main impurity of the specimen was 0.1 to 0.3% titanium, and  
x-ray studies down to liquid nitrogen temperatures revealed no static lattice de-  
formations. The specimen was cooled through the 111° K transition temperature in an  
external magnetic field parallel to [100] and the measurements were made with the  
field in that direction. The spontaneous magnetization M(T) at temperature T was

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L 07101-67

ACC NR: AP6029113

found to be well represented by the formula  $M(T)/M(0) = 1 - \alpha T^n$  with  $n = 3/2$  and  $\alpha = 3.5 \times 10^{-5} \text{ deg}^{-3/2}$ , which does not conflict with the spin wave theory of the spontaneous magnetization of ferrites. The experimental data exclude the possibility that  $n = 2$  in the above formula. The authors thank A.P. Pronina for assisting with the work. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 20 DATE SUBM: 00 ORIG. REF: 008 OTH REF: 003

Card 2/2 *fh*

L 06425-6? EMT(d)/EMT(1)/EMT(M)/EMT(W) UNP(10) UNP(11) UNP(12) UNP(13) UNP(14) UNP(15) UNP(16) UNP(17) UNP(18) UNP(19) UNP(20) UNP(21) UNP(22) UNP(23) UNP(24) UNP(25) UNP(26) UNP(27) UNP(28) UNP(29) UNP(30) UNP(31) UNP(32) UNP(33) UNP(34) UNP(35) UNP(36) UNP(37) UNP(38) UNP(39) UNP(40) UNP(41) UNP(42) UNP(43) UNP(44) UNP(45) UNP(46) UNP(47) UNP(48) UNP(49) UNP(50) UNP(51) UNP(52) UNP(53) UNP(54) UNP(55) UNP(56) UNP(57) UNP(58) UNP(59) UNP(60) UNP(61) UNP(62) UNP(63) UNP(64) UNP(65) UNP(66) UNP(67) UNP(68) UNP(69) UNP(70) UNP(71) UNP(72) UNP(73) UNP(74) UNP(75) UNP(76) UNP(77) UNP(78) UNP(79) UNP(80) UNP(81) UNP(82) UNP(83) UNP(84) UNP(85) UNP(86) UNP(87) UNP(88) UNP(89) UNP(90) UNP(91) UNP(92) UNP(93) UNP(94) UNP(95) UNP(96) UNP(97) UNP(98) UNP(99) UNP(100)

ACC NR: AP6026700

SOURCE CODE: UR/0181/66/008/008/2450/2454  
44BAUTHOR: Samokhvalov, A. A.; Bamburov, V. G.; Volkenshteyn, N. V.; Zotova, T. D.;  
Ivakin, A. A.; Morozov, Yu. N.; Simonova, M. I.ORG: Institute of Metal Physics, AN SSSR, Sverdlovsk (Institut fiziki metallov  
AN SSSR)

TITLE: Magnetic properties of EuO at low temperatures

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2450-2454

TOPIC TAGS: europium compound, spontaneous magnetization, magnetic susceptibility

ABSTRACT: EuO was prepared by the solid-state reaction  $\text{Eu}_2\text{O}_3 + \text{C} \rightarrow 2\text{EuO} + \text{CO}$ , and its magnetization curves were plotted for 4.2, 20.4 and 82°K. The temperature dependence of spontaneous magnetization was measured at 1.7°K and above, and was analyzed from the standpoint of the spin-wave theory. At 4.2 and 20°K, the magnetization reaches saturation in fields slightly above 4000 Oe. The paramagnetic Curie point and the effective magnetic moment, both determined from the temperature dependence of the magnetic susceptibility, were found to be 75°K and 7.3  $\mu_B$  respectively. The exchange integral  $I$  was calculated from the low-temperature range ( $T < T_c/2$ ) and found to be equal to 0.394k. It is shown that when the term with  $T^{5/2}$  is taken into account in Bloch's law, the range of applicability of Bloch's law expands, but the value of coefficient  $C_1$  at  $T^{5/2}$ , determined experimentally and giving the best agreement with the experi-

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L 06426700

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ACC NR. AP6026700

mental spontaneous magnetization curve, differs markedly from the calculated value.  
Orig. art. has: 4 figures, 1 table and 3 formulas.

SUB CODE: 20/ SUBM DATE: 10Nov65/ ORIG REF: 002/ OTH REF: 005

Card 2/2 fhp

ACC NR: AP6029118

SOURCE CODE: UR/0048/80/030/006/0984/0989

AUTHOR: Amokhvalov, A.A.; Ivakin, A.A.; Morozov, Yu.N.; Simonova, M.I.; Bamburov, V.G.  
Volkenshteyn, N.V.; Zotov, T.D.

ORG: none

TITLE: Magnetic, high frequency, and electric properties of some oxide compounds of  
divalent europium (Report, All-Union Conference on the Physics of Ferro- and Anti-  
ferromagnetism held 2-7 July 1963 in Sverdlovsk) <sup>4</sup> <sup>7</sup> <sup>3</sup> <sup>B</sup>

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 984-989

TOPIC TAGS: ferromagnetism, dielectric constant, dielectric loss, magnetization,  
temperature dependence, europium compound, oxide, aluminate, silicate, ELECTRIC  
PROPERTY, MAGNETIC PROPERTY <sup>7</sup>

ABSTRACT: The authors have synthesized EuO, Eu<sub>3</sub>O<sub>4</sub>, Eu<sub>3</sub>Al<sub>2</sub>O<sub>6</sub>, EuAl<sub>2</sub>O<sub>4</sub>, Eu<sub>2</sub>SiO<sub>4</sub>, and  
two series of solid solutions containing EuO and CaO, or EuO, CaO, and Eu<sub>2</sub>O<sub>3</sub>, and have  
investigated their magnetic and electric properties. The investigation was undertaken  
because the high magnetization of divalent europium compounds make them of interest in  
connection with technical applications and the simple crystal structure of EuO makes  
it a suitable material with which to compare the predictions of theories of ferro-  
magnetism. The magnetization measurements were made with a Domenikali type pendulum  
magnetometer in fields up to 10 kOe and at temperatures down to 1.6° K. The ferro-  
and paramagnetic resonance of EuO was investigated at 9 and 35.7 kHz down to 4.2° K,

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ACC NR: AP6029115

and of the other materials, at room temperature. The dc electrical properties of the materials were investigated and their ultrahigh frequency complex dielectric constants were measured with a resonant cavity technique. Some of the measurement results are presented graphically and others are discussed briefly. The saturation magnetization of EuO, extrapolated to infinite field and 0° K, was found to be 232 Gs cm<sup>3</sup>/g. The saturation magnetization of Eu<sub>3</sub>O<sub>4</sub> was approximately one-third that of EuO, indicating that the ferromagnetic properties of Eu<sub>3</sub>O<sub>4</sub> are due to the divalent Eu ion. The low temperature spontaneous magnetization of EuO was a linear function of T<sup>3/2</sup>, and not of T<sup>2</sup>, whereas that of Eu<sub>3</sub>O<sub>4</sub> and of the solid solutions containing it was a linear function of T<sup>2</sup>, and not of T<sup>3/2</sup>. The aluminates and silicate had a g factor (determined by paramagnetic resonance) of 2, as did EuO, and their spontaneous magnetizations followed the T<sup>3/2</sup> law. The ultrahigh frequency conductivity of EuO was found to be approximately 5 × 10<sup>-3</sup> ohm<sup>-1</sup> cm<sup>-1</sup>, which is some six orders of magnitude higher than the dc conductivity. It is suggested that the same ultrahigh frequency dielectric loss mechanism is active in EuO as in the 3d transition metals. Other results than those listed above are presented. The authors thank S.V. Vonsovskiy for his interest and advice. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 20 SUBM DATE: 00 ORIG. REF: 001 OTH REF: 006

Card 2/2 ecp

ZOTOV, T.D.

Specific electric resistance of natural magnetite single crystals.  
Kristallografiia 9 no.6:929-930 N-D '64. (MIRA 18:2)

1. Institut fiziki metallov AN SSSR.

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
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CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

ZOTOV, V.; SHEREMET, A.

Production and finance. Fin. SSSR 37 no.7:53-61 Jl '63.  
(MIRA 16:8)  
(Moscow Province--Industrial management) (Moscow Province--Finance)

MIKOYAN, A; PODGORNYI, N.; ZOTOV, V.; PAVLOV, D.; DUDIN, Yu.; KOROLEV, D.;  
MASTEROV, N.; NEVSKIY, Ye.; KLEMENCHUK, A.; ARSENT'YEV, V.; GAVRILOV, A.;  
PARSHIKOV, M.; ZHARSKIY, A.; SOKOLOVSKIY, V.

Vladimir Evdokimovich Chalyi; obituary. Kons.i ov.prom. 17 no.12:  
48 D '62. (MIRA 15:12)  
(Chalyi, Vladimir Evdokimovich, 1905-1962)

ZOTOV, V.

For further progress in the meat industry. Min.Ind. SSSR 31  
no.6:1-3 '60.  
(MIRA 13:12)

1. Zamestritel' predsedatelya Gosplanu SSSR.  
(Meat industry)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

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ZOTOV, V.

CIA-RDP86-00513R002065510005-7

CIA-RDP86-00513R002065510005-7"

Irkutsk Veterinary Research Station. Trudy VIEN 23:374-375 '59.  
(MIRA 13:10)  
(Irkutsk--Veterinary research)

ZOTOV, V., starshiy nauchnyy sotrudnik

Felt that is not made of wool. Prom.koop. 14 no.8:20 Ag '60.  
(MIRA 13:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut shersti,  
Moskva.

(Felt)

ZOTOV, V.

Manufacture of consumers' goods in the seven-year plan.  
Sov.torg. 33 no.3:3-13 Mr '60. (MIRA 13:6)

1. Zamestitel' predsedatelya Gosplana SSSR.  
(Russia--Manufactures) (Food industry)

ZOTOV, V.

Seven-year plan for the meat industry. Mias. ind. SSSR 29 no.6;  
1-4 '58.  
(MIRA 11:12)

1.Zamestititel' predsedatelya Gosplana SSSR.  
(Meat industry)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"

LYASHENKO, V., ZOTOV, V., IVANOV, V., and ANDREYEV, V.

"Corrosion Resistance of Certain Materials in Sodium and Lithium."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

ZOTOV, V.

A "chicken war." Vnesh. torg. 43 no.1:24-25 '64.  
(MIRA 17:2)

ZOTOV, V.; YERSHOVA, I., red.; IVANOV, N., tekhn. red.

[Guide to the K.E.Tsiolkovskii Residence Museum]  
Putevoditel' po domu-muzeiu K.E.Tsiolkovskogo. Kaluga,  
Kaluzhskoe knizhnoe izd-vo, 1961. 81 p. (MIRA 17:3)

1. Kaluga. Dom-muzei K.E.Tsiolkovskogo.

KOSTYGIN, A.; NOVIKOV, V.; MURAV'YEVA, N.; ZOTOV, V.; AKIMOV, I.;  
SPORYSHEV, V.; KOLOSOVA, V.; CHESNOKOV, N.; NEFEDOVA, O.;  
BOGAYEVA, A.; PIKOVSKIY, G.; KARMANOV, M.; SIYTAM, Ye.;  
KHODAKOVA, S.; KUSHNER, P.; BLYAKHMAN, I.; BASSIAS, L.;  
KINESHEMTSEVA, A.; REZNIKOV, M.; KALININ, S.; MILANOVA, D.;  
VENGEROVA, R.; AGROSKINA, M.; RATNER, B.; NARODETSKIY, B.;  
MARKOVA, L.; GOLUBENKOVA, N.; TSEKHANSKAYA, S.; TERENT'YEVA, N.;  
NESTEROVA, S.; AKSENOK, S.

D.M.Khazan-Andreeva; obituary. Tekst.prom. 21 no.12:90 D '61.  
(MIRA 15:2)  
(Khazan-Andreeva, Dora Moiseevna, 1894-1961)

ZOTOV, V.

Fight for high quality and greater quantity. Min. ind. SSSR 29  
no.1:1-5 '58. (MIRA 11:3)

1. Ministr SSSR, samestitel' predsedatelya Gosplana SSSR.  
(Meat industry)

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APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7"

AMSTISLAVSKIY, D.M.; KOVALEVSKIY, S.Ye.; ZOTOV, V.A.

Automatic temperature measurement in control heating flues of coke ovens. Koks i khim. no.1:35-39 '58.  
(MIRA 11t2)

1. Zhdanovskiy koksokhimicheskiy zavod.  
(Coke ovens) (Pyrometers and pyrometry)

AVIROM, S.M., kand. tekhn.nauk, nauchn. sotr.; GLOTSER, L.I., kand. tekhn.nauk, nauchn. sotr.; CORELIK, S.A., kand. tekhn. nauk, nauchn. sotr.; LEYTES, I.G., kand. tekhn. nauk, nauchn. sotr.; PLATONOVA, Ye.I., nauchn. sotr.; KERJNOVA, M.V., kand. tekhn. nauk, nauchn. sotr.; Prinyali uchastiyet ZOTCV, V.A., nauchn. sotr.; FILATOVA, M.V., nauchn. sotr.; NIKITIN, G.N., nauchn. sotr.; ROMASHOV, A.I.; GODINER, F.Ye., red.

[Recovery and use of secondary wool in consumers' goods] Pechchenie i primenenie vtorichnoi shersti v izdeliiakh narodnogo potrebleniia. [By] S.M. Avirom i dr. Moskva, Izd-vo "Legkaia industriia," 1964. 260 p. (NIRA 17:5)

1. Nachal'nik pryadil'nogo tsekha Pushkinskoy fabriki No.13  
(for Romashov).

ZOTOV V.A.

68-1-9/22

AUTHORS: Amstislavskiy, D.M., Kovalevskiy, S.Ye., and Zotov, V.A.

TITLE: Experimental Automation of Measuring Temperatures in the Control Heating Flues of Coke Ovens (Opyt avtomatizatsii izmereniya temperatur v kontrol'nykh otopitel'nykh kanalakh koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, no.1, pp. 35 - 39 (USSR)

ABSTRACT: Experiments on the application of stationary recording pyrometers for measuring temperatures in the coke oven control heating flues carried out on the Zhdanov Coke Oven Works are described. The diagram of the installation is shown in Fig.1. Radiation pyrometers enclosed in water-cooled jackets (Fig.2) were placed in specially made shafts on the top of the battery over the 4th control flue on the coke and pusher sides on every 10th oven. The optical part of pyrometers was kept clean by a stream of air. The recording equipment was placed in the control room. Examples of records obtained are given in Figs. 3-6 and Tables 1-4. Causes of the variation of the temperature in the control flue during the coking period are discussed: before pushing the temperature reaches maximum, after the oven is pushed and recharged, the temperature falls to a minimum and rises again to a maximum, then falls again on charging the neighbouring oven, reaches the second minimum

Card1/2

68-1-9/22

Experimental Automation of Measuring Temperatures in the Control  
Heating Flues of Coke Ovens.

(higher than the first minimum) and rises again to a maximum before the oven is pushed (Fig.6,1- descending stream, 2 - ascending stream). The results obtained indicated that an automatic measuring of temperatures in the control flues is possible. There are 4 tables and 6 figures.

ASSOCIATION: Zhdanov: Coke Oven Works (Zhdanovskiy koksokhimicheskiy  
*zavod*)

AVAILABLE: Library of Congress

Card 2/2

CA

Preparation of analytical solutions of tanning extracts from large quantities of the solid extract. V. A. Zolotov and S. S. Martynova. Akademiko-Chirnaya Press. U. S. S. R. 12, No. 4, 55 (1939); Chem. Zentral. 1939, II, 2004.—In dissolving 100-200 g. of tanning ext. and dilut-

to 0.5 to 1 l., the soln. becomes turbid owing to the pectin of phloraphenes. It is recommended to dissolve 81 g. of the ext. in 3 vol. of hot water and to boil the mixt. on a water bath for 15 min. to complete solution. 1) transfer to a 2-l. measuring flask cooling on the water bath to 21°, to fill to the mark with cold water, to mix thoroughly, to transfer 100 cc. to a second flask and to dil. with boiling water to 2 l. The turbidity is thus eliminated. A. A. Bochtingk

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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CA

## STAFF AND PERSONNEL WITH

29

Rapid determination of the moisture content in dry tanning extracts. V. A. Zolotov. *Koshevenno-Obshchaya Prom.*, S. S. R., 18, No. 11, 31-5 (1939). An ext. sample derived from the "Kestner" ext. app. is cooled to room temp., cut into shavings and weighed on an analytical balance. The  $H_2O$  content is then carried out in a Dean and Stark app. with xylene or gasoline as solvent.

A. A. Bechtling

## ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

29

Determination of moisture in solid tanning extracts.  
V. A. Zotov. Kozhevno-Charkov Press. S. S. R.  
19, No. 1, 26-7 (1940); cf. C. A. 34, 7051. --A review  
of known methods. A. A. Bochting.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

26

CA

Rapid barite method for the determination of tannin  
I. V. A. Zetkov. *Khimicheskaya Promst. SSSR*, No.  
K-19, No. 9-10, 24-30(1960). The volumetric barite  
method is recommended to replace the All-Union method  
with hide powder. This will eliminate the use of filter  
paper and hide powder. There will be an excess of re-  
agents combining with the tannin and consequently tan-  
nin will be ppt. from analytical solution. Moreover, in this  
case pure reagents are used, which is not the case with hide  
powder. The barite numbers deduced by the volumetric  
method coincide with those obtained with Mohr's salt  
A. A. Bochillock 6

ABSTRACT METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

ASEYEV, Georgiy Mikhaylovich; ZOTOV, Veniamin Alekseyevich;  
KUKOLEVSKIY, G.M., red.; ROMANOVA, Z.A., tekhn. red.

[Medical control of the physical education of students]  
Vrachebnyi kontrol' za fizicheskim vospitaniem studentov.  
Moskva, Medgiz, 1963. 193 p. (MIRA 16:7)  
(SPORTS MEDICINE) (COLLEGE SPORTS)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7  
"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"  
YESPUTIN, Leonid Sergeyevich; BUSHIN, V.P., retsenzent; ZOTOV, V.A.,  
retsenzent; MEDVEDEV, P.I., retsenzent; EYZERMAN, V.L.,  
retsenzent; REGEL'SON, L.M., kand. tekhn. nauk, dots.,  
red.; DOZORISEVA, Ch.I., red.

[Elements of antenna and wave-guide systems] Elementy  
antennno-volnovodnykh ustroistv. Moskva, Izd-vo Mosk. univ.,  
1964. 102 p.  
(MIRA 17:11)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

I.Z.; KASPAROVA, S.A.; KONOROVA, Ye.V.; KOPSHITSER,  
V.A., rec.

[Exercise therapy in the psychiatric hospital] Lechetsnaya  
fizicheskaya kultura v psichiatricheskoi bol'niitse. Mo-  
skva, Meditsina, 1965. 235 p.  
(MIRA 18:8)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"

CHERNOV, I.S.; POYARKOV, A.A.; ZOTOV, V.A., kand. veter. nauk (Smolenskaya oblast'); KRYUCHKOV, I.I., starsh'y veterinarnyy vrach

Prophylaxis of dictyocaulosis in cattle; a selection of articles.  
Veterinariia 41 no 4:45-48 (Ap '65). (MIRA 18:6)

1. Upravleniya veterinarii Ministerstva zdrav'skogo khozyaystva RSFSR (for Chernov).
2. Nachal'stik veterinarnogo otdela Smolenskoy oblasti (for Poyarkov).
3. Zavednyutichiy Rabotnik veterinarnoy laboratorii Kalininskoy oblasti (for Kryuchkov).

Moscow Veterinary Academy, Min Higher Education USSR

ZOTOV, V. A.- "An experiment in curing ruminant agricultural animals of the basic helminthoses under the conditions of the enlarged kolkhoz in Moscow Oblast." Moscow Veterinary Academy, Min Higher Education USSR. Moscow, 1956.  
(Dissertation for the Degree of Candidate in Veterinary Sciences)

SO: Knizhnaya Letopis' No. 20, 1956

ZOTOV, V.A.

USSR

Classification of packing devices. Standartizatsiya  
26 no.9:17-21 S '62. (MIRA 15:9)  
(Packing (Mechanical engineering))

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"

ZOTOV, V.A., inzh.

Investigation of helical ring sealings. Vest.mashinoftr. 44  
no.1:7-12 Ja '64. (MIRA 17:4)

KUNIN, Samuil Karpovich; ZOTOV, V.A., redaktor; PVTROVA, M.D., tekhnicheskiy redaktor

[Problems of pre-school hygiene] Voprosy doshkolnoi gigieny. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniya RSFSR, 1954. 212 p.  
(MLRA 8:5)  
(Children--Care and hygiene)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

KAZAKOV, B.N., kandidat veterinarnykh nauk; ZOTOV, V.A., aspirant.  
Болгария

Intramuscular carbon tetrachloride injections in fascioliasis  
in sheep. Veterinaria 32 no.8:50-52 Ag '55. (MLRA 8:10)

1. Nadterechnaya rayvetlechbnitsa, Greznenskoy oblasti.  
(VETERINARY MATERIA MEDICA AND PHARMACY)

ZOTOV, V. A.

Tanning

Efficient method of extracting tanbark material. Leg. prom. 12 No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.



BC

B - 2 - 10

Books, publications, etc., received by Campbell  
Library, V. A. Hospital, Detroit, from 1939.  
No. 11, 34-10. The H<sub>2</sub>O content is conveniently  
determined by Dorn and Stark's method.

APPENDIX METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION

SEARCHED

INDEXED

SERIALIZED

FILED

SEARCHED

INDEXED

SERIALIZED

FILED

SEARCHED

INDEXED

SERIALIZED

FILED

SEARCHED

INDEXED

SERIALIZED

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1572

**Preservation of oak extract.** M. I. Karpenko and V. A. Zotov, *Lezhys Prom.* 11, No. 6, 43(1951) - Satisfactory preservatives in open storage are 2% *d*-naphthol, 0.5% HgI<sub>2</sub>, and 1% chloramine by wt. of the liquid ext. The HgI<sub>2</sub> is mixed with an equal amt. of KI before adding. Preservation with *p*-dichlorobenzene, Na<sub>2</sub>SO<sub>4</sub>, chloroform, formalin, xylene, and DDT proved unsatisfactory. In air-tight containers, satisfactory preservatives are *d*-naphthol 0.2%, HgI<sub>2</sub> 0.1, Na<sub>2</sub>SO<sub>4</sub> 1, HClO 0.3, and chloramine 1% by wt. of liquid ext.

B. Z. Kamich

L 21795-66 ELT(1)/EMA(h)  
ACC NR: AP6002873

SOURCE CODE: UR/0286/65/000/024/0035/0035

AUTHOR: Zotov, V. A.

ORG: none

TITLE: A method for automatic frequency trim of superhigh frequency oscillators (resonators). Class 21, No. 176954

SOURCE: Byulleten' izobreteniy i tovarknykh znakov, no. 24, 1965, 35

TOPIC TAGS: oscillator, superhigh frequency, frequency selection, automatic frequency control

ABSTRACT: This Author Certificate presents a method for automatic fine tuning of the frequency of oscillators (resonators) of the superhigh frequency range with the use of a periodically retuned frequency selection device. This design eliminates the automatic fine tuning high frequency standard from the circuit. The automatic frequency trim is accomplished by setting and maintaining a constant time intervals between the successive selections of the frequency selection device. The selections are retuned with a constant average rate. The automatic fine tuning is also accomplished by setting and maintaining the harmonics of the stabilized

Card 1/2

VDC: 621.316.726.1

L 21786-66  
ACC NR: AP6002873

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oscillator (resonator). The frequency of the stabilized oscillator (resonator) is changed by altering the magnitude of the fixed time interval with a constant rate of retuning of the frequency selection device. The frequency can also be changed by altering the tuning rate of the frequency selection device with a constant value of the fixed time interval.

SUB CODE: 09 / SUBM DATE: 27Nov64

Card 2/2 VLR

ZOTOV, V.A.

Effect of the physicomechanical properties of shrub stems  
on their cutting. Nauch. trudy AKKH no.32:205-216 '64.

Selecting the optimum shape of the cutting edge in support-  
less cutting. Ibid.:217-224 (MIRA 19:1)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7

AKHMEDBABAYEV, M.Kh.; ARIFDZHANOV, F.A.; BELOUSOV, N.A.; BELYAKOV, S.P.;  
ZOTOV, V.G.; ISAYEVA, Z.D.; MAKHMUDOV, I.A.; ISHCHELENKO, F.S.;  
KRASIL'NIKOV, Ya.A.; NIKOL'SKIY, I.P.; NETSETSKIY, A.M.;  
PERGAT, F.F.; PAVLOVSKAYA, M.D.; SAMSONOV, L.S.; POLIZHAYEV,  
A.I.; SMIRNOV, F.Ye.; SABININ, M.N.; SHUTYAYEV, N.A.; CHIZHIK,  
V.I.; KARPENKO, P.M.; IMEROV, A.I.

Mikhail Aleksandrovich Nenetskii; obituary. Veterinariia 37  
no.10:94 O '90. (MIRA 15:4)  
(Nenetskii, Mikhail Aleksandrovich, 1899-1960)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

BURAKOV, Ye.B., inzh.; ZOTOV, V.G., inzh.; NESTEROV, A.A., inzh.;  
SHAMKAY, B.V., kand.tekhn.nauk

Magnetic-transistor amplifier for a thermal e.m.f. to d.c. converter.  
Izv. LETI no.45:194-200 '61. (MIRA 16.5)  
(Electric current converters) (Telemetering)

39213  
S/263/62/000/007/012/014  
I007/I207

*PL. 14-2C*

AUTHOR: Burakov, E. B., Zotov, V. G., Nesterov, A. A. and Shamray, B. V.  
TITLE: Magnetic semiconductor amplifier for the conversion of thermoelectromotive force into d.c. voltage  
PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 7, 1962, 49, abstract 32.7.318. "Izv. Leningr. elektrotekhn. in-ta", no. 45, 1961, 194-200

TEXT: Description is given of a magnetic semiconductor amplifier for conversion of thermoelectromotive force into d.c. voltage according to the a.c. amplifying method. The amplifier consists of three components—modulator, a.c. amplifier and rectifier. The modulator is a magnetic voltage amplifier with a double-frequency output, permitting separate adjustment of modulus and phase in the a.c. windings, and hence equalization of odd (uneven) harmonics. The modulator is fed from a semiconductor RC-generator of 8.5 kcs. At an input voltage of about 4 to 5 Mv, the amplifier has satisfactory linear characteristics. The output resistance is 70 ohms, the sensitivity 10 microvolts and the voltage amplification 4000 volts. The amplifier is designed for a load of 4000 ohms.

[Abstracter's note: Complete translation.]

Card 1/1

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"

ZOTOV, V.D., starshiy operator blyuminka.

New flowsheet for rolling on blooming mills. Metallurg 3 no.12;37-38  
D '58.  
(MIRA 11:12)

1.Zavod "Krasnyy Oktyabr".  
(Rolling mills)

AUTHOR: Zotov, V.D.

SOV/130-58-12-17/21

TITLE: New Rolling Schedule for a Blooming Mill (Novaya skhema prokatki na blyuminge)

PERIODICAL: Metallurg, 1958, Nr 12, pp 37-38 (USSR)

ABSTRACT: The author states that his shift have increased blooming-mill productivity by 8% since 1955 by adopting a new schedule, which he outlines. A three-man crew is used and their work and that of the mill has been organized so as to reduce idle time, one of the innovations being proposed by the author. He considers that reserves of productivity remain.

ASSOCIATION: "Krasnyy Oktyabr" works

Card 1/1

APPROVED FOR RELEASE: Thursday, September 26, 2002 : CIA-RDP86O051R002065510007 /  
2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 : CIA-RDP86O051R002065510007 /

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

ZOTOV, Vasiliy Fedorovich; YARTSEV, N., red.; KUZNETSOVA, A., tekhn.  
red.

[Lamochkin's brigade assembles houses] Montazh vodet brigada  
Lamochkina. Moskva, Mosk. rabochii, 1961, 26 p. (MIRA 15:3)  
(Building)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

PROSHLYAKOV, A.I.; ZHELEZNYKH, V.I.; BYCHEVSKIY, B.V.; ZOTOV, V.F.;  
LYAMIN, N.I.; IVANOV, D.S.; BLAGOSLAVOV, B.V.; TIRANOV, N.P.  
PANKOV, M.A.; OGORODNIKOV, V.A.; FILOGENKO-BORODICH, M.M.;  
IL'YASEVICH, S.A.; RABINOVICH, I.M.; OLISOV, B.A.; DAVYDOV,  
S.S.; ZIMIN, D.D.; SHPERK, B.F.; USKOV, V.N.; BUZNIK, P.K.

Boris Aleksandrovich Olivetskii; obituary. Voen.-inzh.zhur.  
101 no.12:42 D '57. (MIRA 10:12)  
(Olivetskii, Boris Aleksandrovich, 1896-1957)

ZOTOV, V.G., Veterinarnyy vrach

From the practices in the use of biogenic stimulators. Veterinariia  
38 no.3+29 Mr '61  
(MIRA 18:1)

1. Uzbekskaya respublikanskaya veterinarnaya laboratoriya.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7

~~ZOTON~~ APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510005-7"

~~ZOTON~~ APPROVED FOR RELEASE: Thursday, September 26, 2002 (Veterinary Surgeon, Veterinary Laboratory of the Republic, Uzbek SSR).

"Experience in the utilization of biogenic stimulants."

Veterinariya, Vol. 38, No. 3, 1961, p. 29.

ZOTOV, V.I.

Interaction of monoammines of aluminum bromide and iodide with  
certain metals. Ukr.khim.zhur. 19 no.5:473-478 '53. (MLRA 8:2)

1. Kiyevskiy politekhnicheskiy institut, laboratoriya neorganicheskoy khimii.  
(Aluminum halides) (Ammines)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

ZOTOV, V.I., inzh.; YAKOBSON, G.I., inzh.

Concerning the construction of the boiler chassis within the framework  
of the boiler plant. Elek. sta. 32 no.2:87-89 F '61.

(MIRA 16:7)

(Boilers)

UDOVENKO, V.V.; ZOTOV, V.I.

Interaction of mercury (II) halides with monoethanolamine halohydrates.  
Izv.vys.ucheb.zav.;khim.i khim.tekh. 6 no.4:543-545 '63.(MIRA 17:2)

l. Kiyevskiy politekhnicheskiy institut .Kafedra obshchey i neorganicheskoy khimii.

ZOTOV, V.I., inzh.

Effect of transverse nonsymmetry on the threshold of the static  
stability of a simple electrical system. Izv. vys. ucheb. zav.;  
energ. 9 no.1:1-8 Ja '66. (MIRA 19:1)

1. Dal'nevostochnyy politekhnicheskiy institut imeni V.V. Kuyby-  
sheva. Predstavlena kafedroy elektricheskikh sistem. Submitted  
November 26, 1964.

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065510005-7"

Chernov, I. A., *Zhurnal Tekhnicheskoy Kibernetiki*, No. 4, 1985.

Effect of nonlinearity and intermediate load factors on the stability  
of intersystem couplings. Elektronika svyazi, No. 5(77), May 1985.  
(MLPA 0806)

I. Moscow Institute of Radio Electronics.

3152 ZOTOV, V. I. AND ASTAKHOV, A. I.

Zanimatel'naya Khmiya. Kiev, "Molodiv." 1954. 135. (5) s.s. ill. 23 sm.  
30.000 Ekz. 3 R. 20K. Vpier.- Na ukr. Yaz. (54-56722) 54-542.

ZOTOV, V. I.

5391. Zotov, V. I. Parkticheskiye raboty i uprazhneniya po obshchey khimii.  
(Ucheb. posobiye dlya vyssh. ucheb. zavedeniy Ukr. SSR) Pod red. Yu. K. Delimars-  
kogo. Kiyev, "Rad. shkola", 1954. 264 s. s ill. 23 sm. 5 ekz. 6r. 70 k. V.  
per.---Na ukr. yaz. (55-659) 54 (076.5)

SO: Knizhnaya Letopis', Vol. 1, 1955

ZOTOV, V.I.

I.V.

Zotov, V.I., Zubkov, A.P., and Chishevskiy (Mil. Vet. Lab No 413)

"Portable Unit 'VL-413' for Determination of Sulfur Dioxide in Gas Chambers,"

SO: Veterinariya, Vol 20, No 2, 1943.

L 08082-67 EWT(1) TT/AT  
ACC N# AP7001674SOURCE CODE: UR/0143/66/000/008/0001/0009  
*18*  
*G*

AUTHOR: Zotov, V. I. (Engineer)

ORG: Far Eastern Polytechnical Institute im. V. V. Kuybyshev (Dal'nevostochnyy  
politekhnicheskikh institut)TITLE: Influence of automatic control of excitation on static stability of an  
electrical system in an asymmetrical operating mode

SOURCE: IVUZ. Energetika, no. 8, 1966, 1-9

TOPIC TAGS: automatic control technology, electric generator

ABSTRACT: An attempt to investigate the influence of an asymmetrical operating  
mode on the stability limit of a system of automatic control of generator ex-  
citation. The work analyzes a simple system -- a generator operating through  
a passive quadrupole into conductors of unchanging voltage. The system is  
assumed ideally stabilized. It is determined that if the generator is equip-  
ped with automatic excitation control of current deviations, the determination  
of the transmitted power limit in an asymmetrical operating mode using only the  
direct sequence components can lead to a considerable error. The appearance of  
an asymmetrical operating mode with this type of generator is equivalent to an  
increase in the amplification coefficient depending on the degree and type of  
asymmetry. Orig. art. has: 5 figures, 20 formulas and 1 table. [JPRS: 38,490]

SUB CODE: 13, 09 / SUBM DATE: 01Mar65 / ORIG RFF: 006

UDC: 621.310.016.351

Card 1/1 plw

0924

1442

**Vladziyevskiy, A.P.**, doktor tekhn. nauk; **Zotov, V.K.**; **Zuzanov, G.I.**; **Perepeli-Tsey, P.G.**; **Sviridenko, S.Kh.**; **Shchegol'kova, L.I.**; **Borushmoi, I.V.**, red.; **Kogan, F.L.**, tekhn. red.

[Machine-tool industry in Italy; survey] Stankostroenie Italii; obzor. Moskva, Tsentr. in-t nauchno-tekhn. informatsii mashinostroeniia, 1961. 172 p.  
(MIRA 14:9)

(Italy--Machine-tool industry)

GOLOVANOV, Yu.N.; BREZHNEVA, N.Ye.; OZIRANER, S.N.; YEREMIN, A.A.; ZOTOV, V.L.

Mechanism underlying high-temperature volatilization of ruthenium  
coprecipitated with various substances. Atom. energ. 15 no.3;  
219-223 S '63.  
(MIRA 16:10)

(Ruthenium) (Evaporation)

GOLOVANOV, Yu.N.; BREZHNEVA, N.Yb.; OZIRANER, S.N.; YEREMIN, A.A.; ZOTOV, V.L.

Dependence of the chemical stability and crystallization power of  
melted glass on its composition and the conditions of its preparation.  
Atom. energ. 15 no.2:130-138 Ag '63. (MIRA 16:8)  
(Glass manufacture--Chemistry)

SMIRNOVA, V.F., inzh.; ZOTOV, V.L., inzh.; Prinimali uchastiye: BELYAYEV,  
N.N.; OCHKASOVA, Z.P., inzh.

Coating of headwear with a nap finishing by means of the  
electrostatic method. Nauch.-issel. trudy TSNIIShersti  
no.17:124-126 '62. (MIRA 17:12)

1. Rukovoditel' laboratorii avtomatizatsii TSentral'nogo  
nauchno-issledovatel'skogo instituta sherstyanoy promyshlennosti  
(for Belyayev).

AUTHOR: Golovanov, Yu. N.; Krasovskiy, A. I.; Zotov, V. L.; Kuz'min, V. P.

TITLE: Deposition of tungsten from the vapor-tgas phase

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, n. 8, 1965, 1966, 1967

TOPIC TAGS: metal vapor deposition, tungsten fluoride, tungsten

ABSTRACT: Investigations carried out by the authors for several years established the following: the reduction of WF<sub>6</sub> to metallic tungsten takes place at 300°C or above. At lower temperatures, i.e., tetra-, tri-, and di-

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GOLOVANOV, Yu.N.; KRASOVSKIY, A.I.; ZOTOV, V.L.; KUZ'MIN, V.P.

Tungsten precipitation from the vapor-gas phase.  
Zhur.neorg.khim. 10 no.8:1948-1950 Ag '65.

(MIRA 19:1)

1. Submitted December 19, 1964.

TITOV, V.A.; ZOTOV, V.L.; MEDVEDEVA, S.F.

Corrosion and protection of the equipment of chemical plants.  
Khim.prom. no.4:286-288 Ap '61. (MIRA 14:4)

1. Moskovskiy institut stali imeni I.V.Stalina.

(Chemical engineering - Equipment and supplies)  
(Corrosion and anticorrosives)

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18.8300

1138 1208 1454

S/064/61/000/004/003/003  
B110/B207

AUTHORS: Titov, V. A., Zotov, V. L., Medvedeva, S. F.

TITLE: Corrosion and the protection of the equipment of chemical factories

PERIODICAL: Khimicheskaya promyshlennost', no. 4, 1961, 64-66

TEXT: Subject of the present study is the selection of a corrosion-proof metal for reaction vessels of melamine production at 250°C and 120 atm, and the rectification columns for the separation of hydrochloric acid and methanol (15.3% HCl; 22.8% H<sub>2</sub>O and 61.9% CH<sub>3</sub>OH). Cr-3 (St-3)

vessels must be replaced after 1.5-2 months, since in melamine production their upper parts are affected by corrosion-active water-, ammonia- and hydrogen sulfide vapors. Zinc U-2 (Ts-2), cadmium (99.78% Cd), aluminum A-0 (A-0), Cr-3 (St-3), steel 1X18H9T (1Kh18N9T) samples as well as of the nickel alloy ЭИ-461 (EI-461) castalloy, of the type "B" ("V") were suspended on fluoroplast threads in the circular space between the body of the reaction vessel and the melamine cartridge. Zinc showed the least

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Corrosion and the protection ...

stability, followed by cadmium with a corrosion of  $127 \text{ g/m}^2$  in 107 hr, (Fig.). Aluminum was very stable (approximately  $5 \text{ g/m}^2$  in 207 hr, depth index 0.09 mm/year), its stability is due to the good protective properties of its oxide layer, stainless steel 1Kh18N9T (depth index in 207 hr = 0.2 mm/year). ЭИ-461 (EI-461) were less stable (depth index in 207 hr = 0.87/year and St-3,  $70 \text{ g/m}^2$  in 100 hr. It is suggested to line the St-3 reaction vessel with a  $\leq 3$  mm thick layer of 1Kh18N9T stainless steel. The following alloys were tested with respect to their suitability for rectification columns: the titanium alloys: BT-1 (VT-1); BT-3 (VT-3); BT-5 (VT-5); BT-10 (VT-10); the following titanium- and niobium alloys: TH-3 (TN-3), TH-27 (TN-27), TH-50 (TN-50), TH-75 (TN-75); sheet lead, the alloys ЭИ-461 (EI-461) and ЭИ-943 (EI-943). Tantalum and niobium as well as their above alloys showed only a weight increase of 0.001 g after a 100 hr test in the boiling mixture of hydrochloric acid and methanol. The protective films were closely connected with the metal surface. Tantalum develops probably a  $\text{Ta}_2\text{O}_5$  protective film. After rolling cold hardened tantalum corrodes at a

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rate of  $0.062 \text{ g/m}^2 \cdot \text{hr}$ ; 1.25 hr in vacuum of  $10^{-4} \text{ mm Hg}$  at  $1200^\circ\text{C}$ , tempered tantalum corroded at a rate of  $0.010 \text{ g/m}^2 \cdot \text{hr}$ . Corrosion (100 hr) was increased from  $0.033 \text{ g/m}^2 \cdot \text{hr}$  to  $0.040 \text{ g/m}^2 \cdot \text{hr}$  owing to inhomogeneities at the welding points. With respect to corrosion stability, the following order is maintained (Fig. 2): titanium alloy 3T-1Д (VT-1D), (corrosion rate:  $4.2 \text{ g/m}^2 \cdot \text{hr}$ ). A reduction of corrosion after some time could be hardly noticed. Since boiling, chemically aggressive media do not only electrochemically dissolve the metal, but destroy it due to erosion, there must be added a special protective substance to the metal with the exception of Ta, Nb and their alloys. 0.01; 0.02; 0.03, and 0.04 mole  $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$  were added per 1 l as protective agent since the addition of semi-noble metals leads to the precipitation of metal islands, microvapor formation, and anodic surface passivation. An addition of 0.02 mole/l reduced the corrosion rate of 3T-1Д (VT-1D) titanium alloy by the 17-fold to  $0.247 \text{ g/m}^2 \cdot \text{hr}$ . The electroprotecting method is therefore also convenient for other metals. TN-75 can be recommended for

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Corrosion and the protection ...

column lining as the cheapest among the extremely stable niobium- and tantalum alloys: TN-3, TN-27, TN-50, TN-75. There are 3 figures and 1 table.

ASSOCIATION: Moskovskiy institut stali im. I. V. Stalina (Moscow Steel Institute im. I. V. Stalin)

Legend to the Table:

- a) Titanium alloy;  
b) chemical composition in %.

a) Сплав: титана	б) Химический состав, %									
	Ti	C	Si	Cr	Fe	Al	H <sub>2</sub>	N <sub>2</sub>	C <sub>2</sub>	W
BT-1	99,671	—	0,03	—	0,12	—	0,015	0,024	0,14	—
BT-3	92,49	0,03	0,09	2,54	0,2	4,6	0,01	0,02	0,02	—
BT-5	93,58	0,05	—	—	0,17	5,0	—	—	—	1,2
BT-10	97,795	0,005	—	—	0,5	—	—	0,02	0,08	1,6

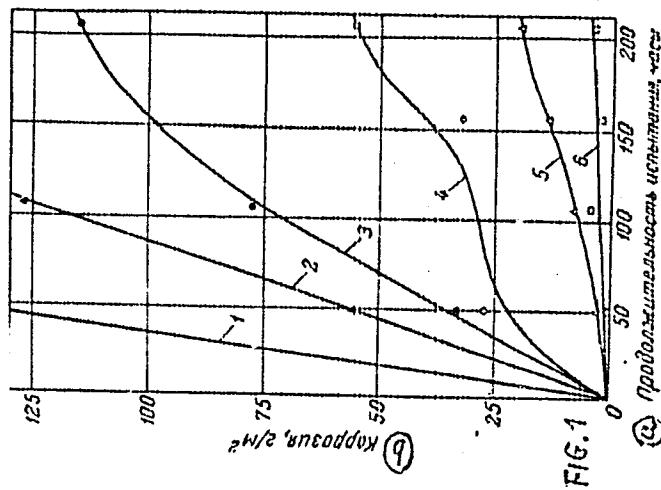
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Corrosion and the protection ...

Legend to Fig. 1: Corrosion rate of various materials under the conditions of melamine production. 1) Zinc (Ts-2); 2) cadmium; 3) St-3; 4) EI-461; 5) 1Kh18N9T; 6) aluminum (A-O); a) time of experiment in hr; b) corrosion g/m<sup>2</sup>.



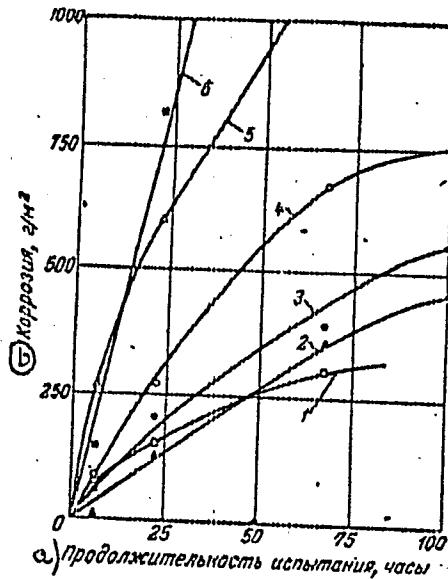
Card 5/6

Corrosion and the protection ...

Legend to Fig. 2: Corrosion rate of various materials in boiling HCl- and  $\text{CH}_3$  mixture.

- 1) VT-1D; 2) EI-943;  
3) VT-5; 4) VT-1;  
5) Pb; 6) VT-3; a) time of experiment, hr; b) corrosion  $\text{g}/\text{m}^2$ .

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CIA-RDP86-00513R002065510005-7"

GUSEVA, V.A.; ZOTOV, V.P.; KLEBANOV, M.K.; TSLAF, M.Ya.

Analog control systems for drilling machines. Mashinostroitel'  
no.7:6-8 Jl '63. (MIRA 16:9)  
(Drilling and boring machinery--Numerical control)

GOLOVANOV, Yu.N.; BREZHNEVA, N.Ye.; OZIRANER, S.N.; VEREMIN, A.A.;  
ZOTOV, V.L.

Mechanism underlying the volatilization of cesium coprecipitated  
with double nickel and potassium ferricyanide at high temperatures.  
Atom. energ. 15 no.3:261-262 S '63. (MIRA 16:10)

(Ferrocyanides) (Cesium)

1.1280420

Experiments on the

series A 37

Radio-<sup>40</sup>

Uranium-235

50/0135

Author: V. V. Kudryavtsev, Yu. N. Sosulin, V. I. Tikhonov, L. R. Lebedeva, A. V.

TITLE: The evidence of the chemical reactivity and oxygen-lightening capacity of  
aluminum oxide by an analytical method

SOURCE: Atomnaya energiya, v. 15, no. 2, 1963, 130-136

TOPIC TAGS: fission product, plutonium waste disposal, radionuclide-isotope diffe-  
rentiation, aluminum oxide, aluminum plasma treatment, borohydride, glass melting,  
radioactive waste disposal, plutonium separation, plutonium recovery, plutonium recycling,  
radioactive waste treatment, plutonium separation, plutonium recycling, plutonium recovery,

Abstract: The authors have conducted experiments on the chemical reactivity and oxygen-lightening capacity of aluminum oxide by an analytical method. The results of these experiments show that the chemical reactivity and oxygen-lightening capacity of aluminum oxide are determined by its surface area. The authors have shown that the chemical reactivity and oxygen-lightening capacity of aluminum oxide are determined by its surface area. The authors have shown that the chemical reactivity and oxygen-lightening capacity of aluminum oxide are determined by its surface area.

- L 17693-63

ACCESSION NR: AP5005221

purpose a powdered model composition (powder) consisting of  $\text{Fe}(\text{OH})_3$ ,  $\text{Na}_2\text{U}_2\text{O}_7$ , and  $\text{Na}_2\text{ZrO}_3$ , with a ratio of  $\text{Fe}_2\text{O}_3/\text{Na}_2\text{U}_2\text{O}_7/\text{Na}_2\text{ZrO}_3 = 1/2/1$ , was used in certain ratios with glass-forming additives, such as sand and soda, for preparation of a series of glass compositions. The glass was melted by the powder method in neutral, reducing, or oxidizing atmospheres of various metals. The temperature of the medium was 1500, and the melting time, 1 hr. The optimum melting temperature, time, and powder-to-additive ratio depend on the ability of heavy-metal oxides to form glass with the additives. This ability depends on the viscosity of the melt which in turn depends on the  $\text{U}_2\text{O}_7$  and  $\text{Na}_2\text{O}$  content. It was found that a suitable additive ratio is 1/2, a melting temperature of 1500°C, and melting time of 1 hr.

The viscosity of the melt depends on the concentration of  $\text{U}_2\text{O}_7$  and  $\text{Na}_2\text{O}$ . The viscosity of the melt increases with increasing concentration of  $\text{U}_2\text{O}_7$  and decreases with increasing concentration of  $\text{Na}_2\text{O}$ .

Experiments were conducted in order to decrease the melting temperature by replacing  $\text{SiO}_2$  with fluxes such as  $\text{B}_2\text{O}_3$  (as boric acid). A decrease of 1500°C in melting temperature was achieved. Attempts to enhance the chemical durability of the glass by introducing  $\text{Al}_2\text{O}_3$  failed. Thus the optimum conditions for

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L 1753-6)  
ACCESSION NR: AP3005221

manufacturing the required glass could be summarized as follows: melting temperature, 1050°C; melting time, 3-6 hr; ratio of powder to additive, 1.85; and composition of the additive, 77%  $\text{Na}_2\text{O}$ , 12%  $\text{Na}_2\text{SiO}_3$ , and 1.0%  $\text{P}_2\text{O}_5$ . The resulting glass contained 52%  $\text{SiO}_2$ , 10%  $\text{Na}_2\text{O}$ , and 34%  $\text{P}_2\text{O}_5$ . The chemical durability of this glass was compared, through testing with the previously mentioned media, with the durability of glass used for manufacturing chemical-resistant laboratory glassware.

The results of the comparison indicate that the modified, better in its durability, additive, had no adverse effect on the melting time, which can be explained by the fact that the melting point of the additive is higher than that of the glass. The additive content can be increased without any significant change in the melting point. The durability of the modified glass is enhanced by crystallization. Crystallization alone, however, does not increase the durability of the crystallized phase because it does not contain the  $\text{Na}_2\text{O}/\text{P}_2\text{O}_5$ . The chemical durability of the crystallized glass is lower than that of the original glass. Addition of the additive will not decrease the durability of the glass because of increased crystallization. (See fig. 3a, b, c, d, Figures and Tables.)

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CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

ZOTOV, V.L.

Using cavitation-effect machinery for making reprocessed fibers.  
Tekst.prom. 20 no.10:17-18 0'60. (MIRA 13:11)  
(Textile fibers) (Textile machinery)

ZOTOV, V.L., starshiy nauchnyy sotrudnik

Hydraulic method of scutching fibrous materials. Tekst.prom. no.2:23-24  
F '63. (MIRA 16:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherystyany  
promyshlennosti (TSNIIShersti).  
(Rags) (Textile industry--Hydraulic equipment)

GEL'MAN, A.S.; GRINEVICH, G.P., prof.; GRINEVICH, G.G.; ZOTOV, V.P.; KOMAROV, G.V.; PAVLOV, S.M.; FIRMOV, A.V.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; YEFIFANOV, S.F., red.; ONUFRYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; KROMOSHCH, I.L., inzh., red.; NAUMOVA, G.D., tekhn. red.

[Handbook on loading, unloading, and conveying operations in construction] Sptavochnik po pogruzochno-razgruzochnym i transportnym rabotam na stroitel'stve. Pod red. G.P. Grinevicha. Moskva, Gostroiizdat, 1962. 376 p. (MIRA 15:9)  
(Material handling) (Building materials)

ZOTOV, VAP

USSR, Engineering  
Welding Machines  
Aluminum Welds

Nov 48

"Accumulated Energy Welding," V. P. Zotov, Cand Tech.  
Sci, Ind Inst imeni Kuybyshev, 3 pp

"Elektrichestvo" No 11

Results of theoretical and experimental investigation  
conducted to clarify number of problems arising  
in connection with operation of welding machines  
which work on principle of accumulated energy. This  
method, which consists of using either the energy of  
a charged condenser or a magnetic field, is used  
mainly in welding aluminum and light alloys.

27/49T53

Electrical Engineering Abstracts  
May 1954  
Electric Waves and Oscillations

1680. Energy diagram of magnetically coupled circuits. V. P. Kraus. Elektrotechnik, 1953, No. 11, 61-64. In Russian.

When magnetically coupled circuits are analyzed theoretically by the well-known differential equations, great difficulties are encountered if a variable resistance is contained in at least one of the circuits. In such a case the investigation is best carried out by means of an energy diagram which is very simple to plot from the curve  $I_1 \times M_1$  in rectangular co-ordinates. This curve may be derived from current oscillograms, or directly obtained by a single-beam oscillograph to the Y-plates of which a voltage proportional to  $I_1$  is applied, whereas a voltage proportional to  $I_2$  is fed to the X-plates. The position of any point of the curve fully determines the energy content of the main flux as well as leakage fluxes, in other words, of the fluxes linking with the inductances of one and of both circuits, respectively, and also the energy exchanges between the circuits. A numerical example shows the application of the energy diagram to electromagnetic welding. B. P. KRAUS

SOV/112-57-9-18581

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 67 (USSR)

AUTHOR: Koz'minykh, D. V., Zотов, V. P.

TITLE: Electric Braking of Hydroelectric Generators for Increased Stability  
(Elektricheskoye tormozheniye gidrogeneratorov s tsel'yu povysheniya  
ustoychivosti raboty)

PERIODICAL: Sb. nauch. tr. Kuybyshevsk. industr. in-t, 1956, Vol 1, Nr 6,  
pp 87-89

ABSTRACT: A system of artificial electric braking of hydroelectric generators is considered. If the three-phase stator winding and the excitation winding of a synchronous generator are made of two parallel branches placed at the double pole pitch apart, then two independent electrical systems will be formed in the generator and their currents will be superimposed. If the currents in both parallel branches of the rotor are equal, the generator will operate under normal conditions. If the current in one of the excitation branches decreases and the other correspondingly increases, difference EMFs will be introduced in the

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CIA-RDP86-00513R002065510005-7  
CIA-RDP86-00513R002065510005-7"

ZOTOV, V.P., dotsent.

"Electric machines." P.S. Sergeev. Reviewed by V.P. Zотов.  
Elektrichestvo no.2:95-96 '56.  
(MLRA 9:5)

1. Kuybyshevskiy industrial'nyy institut imeni Kuybysheva.  
(Electric machinery) (Sergeev, Petr Sergeevich, 1898-)

SOKOLOV, K.M.; YEVSTAFYEV, S.V.; ROSTOTSKIY, V.K.; STANKOVSKIY, A.P.;  
VARENIX, Ye.I.; ONUFRIYEV, I.A.; SVESHNIKOV, I.P.; UZHOV, B.S.;  
BAUMAN, V.A.; BARSOV, I.P.; BASHINSKIY, S.V.; BOYKO, A.G.; VALUTSKIY,  
I.I.; ZAPOL'SKIY, V.P.; ZOTOV, V.P.; IVANOV, V.A.; KAZARIKOV, V.M.;  
LEVI, S.S.; MALOLETKOV, Ye.K.; MERBNIKOV, A.S.; MIKROPOL'SKAYA, N.K.;  
OSIPOV, L.G.; PEREL'MAN, L.M.; PETROV, G.D.; PETROV, N.M.; POLYAKOV,  
V.I.; VATSSLAVSKAYA, L.Ya.; VAKHRAMEYEV, S.A.; VENZHITSKIY, A.M.;  
VLASOV, P.A.; VOL'FSON, A.V.; VOSHCHININ, A.I.; DZHUNKOVSKIY, N.N.;  
DOMBROVSKIY, N.G.; YEPIFANOV, S.P.; YEFREMENKO, V.P.; ZELICHENOK, G.G.;  
ZIMIN, P.A.; POPOVA, N.T.; ROGOVSKIY, L.V.; RUBROV, A.S.; SAPRYKIN, V.A.;  
SOVALOV, I.G.; SOSHKIN, A.V.; STARUKHIN, N.M.; SURSHNYAN, G.S.; TOLORAYA,  
D.F.; TROITSKIY, Kh.L.; TUSHNYAKOV, M.D.; FROLOV, P.T.; TSIRKUNOV, I.P.

Andrei Vladimirovich Konorov; obituary. Mekh. stroi. 16 no.1:32 Ja  
'59.

(MIRA 12:1)

(Konorov, Andrei Vladimirovich, 1890-1958)

ZOTOV, V.P., kand.tekhn.nauk

Calculating a parabolic interpolator. Mashinostroenie no.2:82-83  
Mr-Ap '62.  
(MIRA 15:4)

1. Kuybyshevskiy industrial'nyy institut.  
(Interpolation)

ZOTOV, V.P., inzh.; NEKRASOV, K.S., nauchnyy red.; TABUNINA, M.A., red.  
izd-va; OSENKO, L.M., tekhn. red.

[Rigging operations at the construction site] Takelazhnye raboty na  
stroitel'noi ploschadke. Moskva, Gos. izd-vo lit-ry po stroit.,  
arkhit., i stroit. materialam, 1961. 178 p. (MIRA 14:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organiza-  
tsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva.  
(Hoisting machinery) (Materials handling)