"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, Georgiy Fedorovich; MATVEYEV, S.A., inzh., red.; KOMAR'KOVA, L.M., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Geodesy in construction] Geodeziia v stroitel'stve. Moskva, Izd-vo geodez.lit-ry, 1958. 323 p. (MIRA 12:8)
(Surveying) (Civil engineering)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

BRONSHTEYN, Grigoriy Savel'yevich; GRECHISHK[illegible] [illegible]dimir Uvarovich; GLOTOV, G.F., dotsent, retsenzent; SOKOLOV, Ya.A., retsenzent; LEVCHUK, G.P., dotsent, red.; KHROMCHENKO, F.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Plotting geodetic networks for construction surveys] Razbivka stroitel'noi geodezicheskoi setki. Moskva, Izd-vo geodez.lit-ry, 1960. 71 p. (MIRA 14:2)

(Surveying)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, G. F.

KUZNETSOV, Sergey Mikhaylovich; CHUSTUZHIN, S.A., inzh.-geodezist, retsenzent; KLIMOV, O.D., kand.tekhn.nauk, retsenzent; MURAV'YEV, M.S., dotsent, retsenzent; LEVCHUK, G.P., dotsent, kand.tekhn.nauk, retsenzent; LEBEDEV, N.N., dotsent, retsenzent; GLOTOV, G.F., dotsent, retsenzent; GRIGOR'YEV, V.M., inzh.-geodezist, retsenzent; PIMENOV, A.F., inzh.-geodezist, retsenzent; BELIKOV, Ye.F., dotsent, red.; KHROMCHENKO, F.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Geodetic operations in the design and construction of hydraulic structures] Geodezicheskie raboty pri proektirovanii i stroitel'stve gidrotekhnicheskikh sooruzhenii. Moskva, Izd-vo geod.lit-ry, 1960. 173 p. (MIRA 13:9)
(Hydraulic engineering) (Surveying)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

BELIKOV, Yevgeniy Fedorovich, dotsent; VORONIN, Viktor Aleksandrovich, inzh.; GLOTOV, Georgiy Fedorovich, dotsent; ZELENKOV, Yuriy Vladimirovich, inzh.; IVANOV, Leonid Fedorovich, inzh.; KORENEV, Gleb Sergeyevich, inzh. [deceased]; MASLENNIKOV, Anatoliy Stepanovich, inzh.; SIROTKIN, Mikhail Pavlovich, dotsent; ULITIN, Andrey Il'ich, inzh.; URUSOV, Nikita Yur'yevich, inzh.; FLOROVSKIY, Yuriy Sergeyevich, inzh.; SHAKHIDZHANYAN, Grand Aleksandrovich, inzh.; EGLIT, Vitaliy Ivanovich, inzh.; VASIL'YEVA, V.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Guidebook on principles of engineering geodesy used in planning and building hydroelectric power stations] Spravochnoe rukovodstvo po inzhenerno-geodezicheskim izyskaniiam pri proektirovanii i stroitel'stve gidroelektrostantsii. Pod obshchei red. E.F.Belikova. Moskva, Izd-vo geodez.lit-ry, 1960. 447 p. (MIRA 13:11)
(Hydroelectric power stations) (Geodesy)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, G.F., dotsent, kand.tekhn.nauk

Vertical control in canal construction. Izv. vys. ucheb. zav.; geod. i aerof. no.3:53-63 '61. (MIRA 14:10)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii.

(Canals)
(Leveling)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

FARENBRUKH, N.K.; GLOTOV, G.F., nauchnyy red.; VDOVENKO, Z.I., red. izd-va; GORDEYEV, P.A., red. izd-va; OSENKO, L.M., tekhn. red.; MIKHEYEVA, A.A., tekhn. red.

[Geodesy in construction] Geodeziia v stroitel'stve. Moskva, Gosstroiizdat, 1962. 251 p. (MIRA 15:7)
(Surveying) (Building)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SIROTKIN, Mikhail Pavlovich; BELIKOV, Ye.F., retsenzent; FLOKOVSKIY, Yu.S., retsenzent; GLOTOV, G.F., red.; VASIL'YEVA, V.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Handbook on geodesy for builders] Spravochnik po geodezii dlia stroitelei. Moskva, Geodezizdat, 1962. 279 p. (MIRA 15:9)
(Surveying) (Building)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, G.F.; BEZTSENNYY, F.Kh., prof., retsenzent; NESTEROV, A.F., dots., retsenzent; KONDRAT'YEVA, T.A., red.

[Preliminary operations, planning and construction of engineering installations] Izyskanie, proektirovanie i stroitel'stvo inzhenernykh sooruzhenii. Moskva, Vysshaia shkola. Sec.3. 1964. 197 p. (MIRA 17:12)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, G.F., dotsent, kand. tekhn. nauk

Calculating the capacity of a water reservoir using parabolic curves. Izv.vys.ucheb.zav.: geod. i aerof. no.1:19-27 '64. (MIRA 17:12)

1. Moskovskiy institut inzhenerov geodezii, aerofotosyemki i kartografii.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

9(3) [illegible]

AUTHORS: [illegible], V.I., and Glotov, I.A.

TITLE: Trigger Circuits Using the p-n Junction Capacitance (Triggernyye ustroystva s ispol'zovaniyem yemkosti p-n perekhoda)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - radiotekhnika, 1959, Vol 2, Nr 1, pp [illegible] (USSR)

ABSTRACT: The authors investigated the application of the p-n transition capacitance of semiconductor junction transistors and diodes in a non-linear LC circuit for designing trigger circuits. They base their investigation on the work conducted at the Kafedra teoreticheskikh osnov radiotekhniki MAI (Chair of Theoretical Principles of Radio Engineering of MAI) [Ref 1]. The authors explain the functioning principle of such a trigger circuit, as shown in figure 2. Further, they analyze the selection of the operating conditions and the operation speed. In figure 4, they show various possible circuit arrangements, and in figure 5, they present an experimental

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SOV/142-2-1-5/22

Trigger Circuits Using the p-n **Junction** Capacitance

circuit with a P6V transistor and a D2V point-contact diode. The authors arrive at the conclusion that the experimental data confirm the principal theories explained in this paper. The trigger circuits suggested, have a number of advantages over triggers, built in the conventional way with vacuum tubes or transistors. The circuitry of triggers based on the p-n **junction** capacitance, is very simple compared to transistorized trigger circuits. In addition, they are less affected by temperature changes, since temperature has little influence on the p=n transition capacitance. The speed of changing the circuit from one stable state into the other one may be higher than with triggers containing P6 transistors. It is to be expected that these trigger circuits will find application in electronic computers and other electronic devices.

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SOV/142-2-1-5/22

Trigger Circuits Using the p-n Junction Capacitance

There are 3 circuit diagrams, 3 graphs, 1 oscillogram and 5 references, 1 of which is American and 4 Soviet.

ASSOCIATION: Kafedra teoreticheskikh osnov radiotekhniki Moskovskogo ordena Lenina aviatsionnogo instituta imeni Sergo Ordzhonikidze (Chair of Theoretical Principles of Radio Engineering of the Moscow Order of Lenin Aviation Institute imeni Sergo Ordzhonikidze)

SUBMITTED: May 16, 1958 (initially)
June 16, 1958 (after revision)

Card 3/3

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, I.A.

PHASE I BOOK EXPLOITATION SOV/5194

Moscow. Aviatsionnyy institut im. Sergo Ordzhonikidze

Primeneniye poluprovodnikovykh priborov v aviatsionnykh radiotekhnicheskikh ustroystvakh; sbornik statey (Use of Semiconductor Devices in Aviation Radio-Engineering Installations; Collection of Articles) Moscow, Oborongiz, 1960. 100 p. (Series: Its: Trudy, vyp. 128) 7,650 copies printed.

Sponsoring Agencies: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR; Moskovskiy ordena Lenina aviatsionnyy institut imeni Sergo Ordzhonikidze.

Ed. (Title page): I. S. Gonorovskiy, Doctor of Technical Sciences, Professor; Managing Ed.: A. S. Zaymovskaya, Engineer; Ed. (Inside book): S. I. Bumshteyn, Engineer; Tech. Ed.: L. A. Garmukhina.

PURPOSE: This collection of articles is intended for scientific and technical personnel concerned with the utilization of semiconductor devices in radio engineering.

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

Use of Semiconductor Devices (Cont.) SOV/5194

COVERAGE: The book contains articles describing investigations carried out at the Moskovskiy aviatsionnyy institut (Moscow Aviation Institute). Problems in utilizing p-n junction capacitance of semiconductor devices in such areas of radio engineering as parametric amplification, frequency modulation, and pulse techniques are discussed. Kipp-relay circuits with an electronic control of duration and the problem of obtaining $\alpha > 1$ for junction transistors are examined. A review is given of Soviet and non-Soviet literature on the utilization of p-n junction capacitance. No personalities are mentioned. References accompany most articles.

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Samoylenko, V. I., [Candidate of Technical Sciences]. Concerning the Capacitance of a P-N Junction 5

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

Sidorov, Yu. I. [Engineer]. Modern Semiconductor Variable Capacitors 19

Demin, V. P. [Engineer]. Concerning the Natural Oscillations in a Circuit With P-N Junction Capacitance 28

Samoylenko, V. I. Effect of a Semiconductor Voltage Limiter on the Properties of an Oscillatory Circuit 38

Glotov, I. A. [Engineer]. Trigger Phenomena in an LC-Circuit With a Nonlinear Capacitance of P-N Junction 46

Samoylenko, V. I., and A. M. Shestopalov [Engineer]. Some Problems of Parametric Amplification With the Use of P-N Junction Capacitance 64

Petrov, A. A. [Engineer]. Concerning the Problem of Switching Into a Master Oscillator Circuit a Semiconductor Element Controlling Its Frequency 74

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S/535/60/000/128/004/008
E036/E135

AUTHOR: Glotov, I.A., Engineer

TITLE: Switching Phenomena in an LC Circuit With a Non-linear p—n Junction Capacitance

PERIODICAL: Moscow. Aviatsionnyy institut. Trudy, No.128, Moscow, 1960. Primeneniye poluprovodnikovykh priborov v aviatsionnykh radiotekhnicheskikh ustroystvakh: sbornik statey, pp. 46-63

TEXT: Earlier articles (Refs. 1 and 4) have shown the superiority of p—n junction capacitances as reactance controlling elements. This article is a development of an earlier article by the present author and V.I. Samoylenko (Ref.4), and considers the behaviour of non-linear LC circuits with positive feedback as a function of applied voltage and circuit parameters. The principle of the circuit can be understood from Fig.1 which shows the basic diagram of an LC circuit with non-linear p—n junction capacitance. A constant bias voltage E_0 and a sinusoidal voltage (e) of frequency $f_0 = \omega_0/2\pi$ are applied to a series resonant circuit. The capacitance of the junction C. D acts simultaneously as the

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Switching Phenomena in an LC Circuit With a Non-linear p—n Junction Capacitance

capacitance and the feedback diode. R_H is the detector load and C the feedback element. A change of the voltage E_o changes the capacitance and hence the resonant frequency of the circuit as well as the voltage appearing across the capacitance due to e. This voltage is detected by the diode itself and gives rise to a constant voltage on the load, E_H. The circuit is then analysed on the assumption that the non-linear capacitance only changes within narrow limits and that the Q of the circuit is fairly high. The junction capacitance is assumed to be given by the Shockley formula $C_K = C_{KO} \{\varphi_K/(E + \varphi_K)\}^{1/2}$ where E is the applied bias and φ_K the contact potential of the junction. C_{KO} is the capacitance at zero bias. The action of the circuit depends on the fact that the voltage across the junction is a function of both the bias voltage E_0 and the voltage across the detector load which in turn depends on the transmission coefficient of the diode. Assuming that the ratio of the load resistance to detector input resistance is large, the circuit is analysed graphically and shown

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Switching Phenomena in an LC Circuit With a Non-linear p—n Junction Capacitance

to be capable of bistable operation. The analysis is supported by experimental results using the collector junction of a transistor. The approximate nature of the switching characteristic is seen in Fig.6 in which the theoretical detector voltage E_{Π} (y axis) is plotted as a function of the bias voltage E_0. It is seen that a step-like change in the detector voltage occurs at particular values of E_0 which depends on the direction in which the change is made. The region between these two voltages is the "triggering region". The experimental results confirm the features of Fig 6 and are plotted with frequency as a parameter in the range 11.5 to 13 Mc/s. With increasing frequency the triggering region is displaced in the direction of higher voltages (E_0) and lower detector voltage (E_{Π}) the latter can become negative. The amplitude of the alternating voltage was 1.1 volts. The behaviour is discussed semi-qualitatively at some length. Triggering, characterized as before by the step-like change in E_{Π}, is obtained also by changing the frequency ω_0 as

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Switching Phenomena in an LC Circuit With a Non-linear p—n Junction Capacitance

experimental curves demonstrate. The bias voltage E_0 is used as a parameter in this case ($-\beta V < E_0 < 3V$). In a further set of curves the triggering is effected by varying the amplitude of the alternating voltage. It is claimed that practical circuits, in computers for example, based on this phenomenon would be advantageous where space and weight must be kept low. There are 12 figures and 7 references: 5 Soviet and 2 English.

Ref.6: W. Shockley: "Theory of electronic semiconductors" (Russian translation), Moscow 1953.
Ref.7: F. Dill, H. Depain: "Semiconductor capacitance amplifier", Conv. Rec., IRE, 1956, pt. III.

Card 4/5

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SAMOYLENKO, V.I.; GLOTOV, I.A.

Trigger effects in a circuit containing a nonlinear p-n junction with presence of d.c. feedback. Trudy MAI no.149:74-91 '62. (MIRA 15:12)

(Pulse circuits)

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SAMOYLENKO, V.I.; GLOTOV, I.A.

Stationary conditions in two-stage network of a parametron using the capacitance of a p-n junction. Trudy MAI no.149:92-113 '62. (MIRA 15:12)

(Parametric amplifiers) (Electronic computers)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, I. A.

Relaxation oscillations in a LC-circuit with a nonlinear p-n junction capacitance. Trudy MAI no.150:62-71 '62. (MIRA 15:10)

(Electric networks)

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

Action of metastable atoms on the current strength of the non-self-supporting discharge in neon. I. I. Glotov (Physikal. Z. Sowjetunion, 1937, 12, 235—255).—5×10^{-4}% of A in Ne increases the current strength (i) in a discharge at 50 v. by 17%. i increases with % of A to a max. at 1% of A, and then decreases. i decreases on illuminating the discharge with Ne light, the effect increasing with % of A to a max. at 10^{-3}% of A, and then decreasing to 0 at 0·2—0·3% of A. Results are interpreted as collisions of the second kind. R. S. B.

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

Measurements of the ionization coefficient α in pure neon and in neon-argon mixtures I. I. Glotov. *J. Exptl. Theoret. Phys.* (U. S. S. R.) 7, 1143-8, *Physik. Z. Sowjetunion* 12, No. 3, 256-68(1937) in German. Exptl. data on α, p for pure Ne confirm those of Townsend and McCallum (C. A. 23, 1549) and those calculated by Druyvesteyn (C. A. 30, 2839). Up to 10% argon does not affect the value of α, coeff. of ionization; while 10% almost triples, and 10% argon quintuples the value of α. E. H. Rathmann

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Coefficient of volume ionisation for pure neon and neon-argon mixtures. I. I. GLOTOV (Physikal. Z. Sowjetunion, 1938, 13, 84—102; cf. A., 1938, I, 165).—The theoretical vol. ionisation coeffs. (α) for pure Ne and Ne–A mixtures are in qual. accord with experiments. The addition of $<5 \times 10^{-4}$% of A to Ne scarcely changes α, but additions $>5 \times 10^{-4}$% increase it many times, owing to increased ionisation of admixed atoms by metastable Ne atoms. When the [A] is >0·3% energy losses of electrons cause a decrease in the most probable electron velocity and hence a decrease of α. The results are applied to interpretation of observations on the Townsend discharge. J. W. S.

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C. A.

Conditions influencing the kindling potential in glow-discharge neon lamps with a cesium cathode. I. I. Glotov (Moscow State Univ.). *Zhur. Tekh. Fiz.* 17, 1881-90 (1947). The potential V, at which the discharge strikes, is lower the higher the thermoelectronic current used in the forming of the cathode. V depends further on the thickness of the oxide film on the cathode; it is at a min. with the cathode heated 8-15 min. at 350° under 1.5 mm. of O. Higher forming temp. lowers V. In terms of the pressure of Ne in the tube, V is min. in the pressure range 15-25 mm. Addn. of 0.6% Ar to the Ne results in a lowering of V by 20%. N. Thor.

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The influence of a layer of poorly conducting material covering a precipitator electrode on phenomena in an electrostatic filter A Vlasova, I. Glotov, and N Kaptsov (Moscow State Univ.) *Zhur. Tekh. Fiz.* 17, 1371-80 (1947) Such layers raise the potential everywhere within the precipitator but especially near the wire The potential distribution curve is higher, the greater the resistance of the layer on the cylinder For kyanite and paraffin there is a layer thickness for which the potential distribution curve lies below that given by clean electrodes When the discharge current passes through a poorly conducting layer, a surface charge accumulates, raising the surface potential This increase varies directly with layer thickness and current

Cyrus Feldman

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, I.N.

Mountainous taiga regions of the Kuznetsk Ala-Tau and the Salair Ridge and some problems of commercially important animals. Izv. Novosib.otd.Geog.ob-va SSSR no.1:69-74 '57. (MIRA 12:4)
(Kemerovo Province--Fur-Bearing animals)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, I.N.

Murine rodents of the flood plain in the upper reaches of the Ob' River. Trudy Biol. inst. Sib. otd. AN SSSR no.7:235-240 '61. (MIRA 15:3)

(OB' VALLEY--RODENTIA)

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, I.N.

Plow furrows in the ecologic and faunistic investigation of murine rodents and shrews. Vop. ekol. 4:98-99 '62. (MIRA 15:11)

1. Biologicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.
(Siberia--Rodentia) (Siberia--Shrews) (Zoological research)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, M.

Pedagogical guidance in the agricultural training of students. Politekh. obuch. no.1:48-52 Ja '57. (MIRA 10:4)

1. Iz opyta raboty Krasnosel'skoy sredney shkoly Oparinskogo rayona Kirovskoy oblasti.

(Agriculture--Study and teaching)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

ACC NR: AP7007734 SOURCE CODE: UR/0219/67/063/002/0050/0052

AUTHOR: Genkin, A. M. (Professor; Head); Glotov, N. A.

ORG: Department of Biological Chemistry. /Head-Prof. A.M. Genkin/, Sverdlovsk Medical Institute (Kafedra biologicheskoy khimii Sverdlovskogo meditsinskogo instituta).

TITLE: Effect of glutamic acid on the respiration and oxidative phosphorylation of liver mitochondria under normal and hypoxic conditions

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 63, no. 2, 1967, 50-52

TOPIC TAGS: biologic respiration, biologic metabolism, oxidative phosphorylation, hypoxia, mitochondria, glutamic acid, rat, drug effect, oxygen

ABSTRACT: Since aerobic enzymes are confined to mitochondria, it seemed desirable to investigate the effect of glutamic acid on the intensity of respiration and oxidative phosphorylation in liver mitochondria under normal and hypoxic conditions. Tests were conducted on 41 male white rats weighing 170—230 g. Experimental animals were given subcutaneous

UDC: 615.739.64-092:[612.26+616.262:612.398.145.1]:612.353.014.21

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1 mg/g injections of sodium glutamate while control animals were given an equal dose of neutral solution. One group of rats (control and experimental animals) was decapitated three hr after injection while a second group was exposed to an altitude of 7000—8000 m for two hr in a pressure chamber. These animals had been exposed to hypoxia one hr after injection. Mitochondria were separated by differential centrifugation at a temperature of 0—5°C. Results of the experiment are shown in Tables 1 and 2. Thus far the mechanism of the stimulating effect of glutamic acid is not clear. If the oxidation of alphaketoglutaric acid occurs via enzymes on the inner surface of mitochondrial membranes, then the permeability of these membranes to a number of metabolites could have

Table 1. Effect of glutamic acid on the respiration and oxidative phosphorylation of liver mitochondria

Oxygen and phosphorus consumption (microatoms/1mgN$_2$/hr)	Normal		Hypoxia	
	Control (10)	Experimental (10)	Control (10)	Experimental (10)
Oxygen.	9.87±0.61	10.95±0.63	10.12±0.45	12.11±0.43
Phosphorus. . .	33.40±1.82	36.72±1.82	32.59±2.16	36.61±1.88
P:O	3.39±0.11	3.37±0.09	3.22±0.12	3.02±0.09

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AP7007734

Table 2. Effect of glutamic acid on the optical density of mitochondria separated from the livers of rats exposed to hypoxia (mean data; % of original extinction).

Time (min) from the moment of mitochrondia separation	Control (10)	Experimental (3)
0	100	100
10	95	99
20	91	93
30	90	90
40	88	82
50	85	83
60	85	85

a spontaneous effect on the intensity of respiration. Finally, injected glutamic acid could in one manner or another affect the activity of respiratory enzymes. These and other suppositions require further experimental confirmation. Orig. art. has: 2 tables. [CD]

SUB CODE: 06/ SUBM DATE: 21Jun65/ ORIG REF: 010/ OTH REF: 002/
ATD PRESS: 5117

Card 3/3

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.G. (Tyumen')

Scientific organization of work in a section. Zhel. dor. transp. 47 no.9:62-64 S '65. (MIRA 18:9)

1. Nachal'nik Tyumenskogo otdeleniya Sverdlovskoy dorogi.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SILIN, K.S.; GLOTOV, N.M.; GRETSOV, A.P.; KARPINSKIY, V.I.; PROKHOROV, A.D.; YEVGRAFOV, G.K., prof., red.; ZELEVICH, P.M., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Precast reinforced concrete tube foundations] Fundamenty opor mostov iz sbornykh zhelezobetonnykh obolochek. Pod red. G.K. Evgrafova. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 198 p. (MIRA 12:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Yevgrafov).

(Bridges--Foundations and piers)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.M., inzh.

Making thin-walled reinforced concrete large-diameter shells. Transp. stroi. 8 no.1:8-11 Ja '58. (MIRA 12:12)
(Yangtze River--Bridges, Concrete)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SILIN, K.S.; GLOTOV, N.M., starshiynauchnyy sotrudnik

Deeply laid foundations made of precast reinforced concrete shells. Transp.stroi. 9 no.1:18-25 Ja '59. (MIRA 12:2)

1. Rukovditel' otdeleniya iskusstvennykh sooruzheniy TSentral'nogo nauchno-issledovatel'skogo instituta stroitel'stva.
(Bridges--Foundations and piers)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

BEREZANTSEV, Vsevolod Glebovich, doktor tekhn. nauk, prof.; KSENOFONTOV, Aleksandr Ivanovich, kand. tekhn. nauk, dots.; PLATONOV, Yevgeniy Vladimirovich, prof.; SIDOROV, Nikolay Nikolayevich, kand. tekhn. nauk, dots.; YAROSHENKO, Vsevolod Aleksandrovich, kand. tekhn.nauk, dots.; GOL'DSHTEYN, M.N., doktor tekhn. nauk, prof., retsenzent; TERLETSKIY, V.P., inzh., retsenzent; LAPIDUS, L.S., inzh., retsenzent; ZHEREBTSOV, I.V., inzh., retsenzent; GLOTOV, N.M., inzh., retsenzent; SILIN, K.S., inzh.,retsenzent; SURODEYEV, V.P., inzh., red.; KHITROV, P.A., tekhn. red.

[Soil mechanics and foundation engineering] Mekhanika gruntov, osnovaniia i fundamenty. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 339 p. (MIRA 14:8)

(Soil mechanics) (Foundations)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N. M., Cand Tech Sci -- "Study of the solidity of rock formations." Mos, 1961. (Min of Railroad Transport USSR. Mos Inst of Engineers of Railroad Transport im I. V. Stalin) (KL, 3-61, 242)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SILIN, K.S.; GLOTOV, N.M., starshiy nauchnyy sotrudnik

Foundations of reinforced concrete shells. Avt. dor. 24 no.3:15-18 Mr '61. (MIRA 14:5)

1. Rukovoditel' otdela iskusstvennykh sooruzheniy Vsesoyuznogo nauchno-issledovatel'skogo instituta transportnogo stroitel'stva Mintrasstroya SSSR (for Silin).
(Bridges—Foundations and piers)
(Reinforced concrete construction)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.M., inzh.

Interrelations of the limits of strength of rock subject to displacement and to compression. Trudy TSNIIS no.45:158-160 '62. (MIRA 15:9)

(Rocks)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.M., inzh.

Device for determining the strength of rock and concrete subject to displacement. Trudy TSNIIS no.45:161-163 '62. (MIRA 15:9)

(Rocks--Testing) (Concrete--Testing)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

ALEKSEYEV, V.V., inzh.; GLOTOV, N.M., inzh.

Manufacture and sinking of reinforced concrete shells.
Transp. stroi. 12 no.1:12-15 Ja '62. (MIRA 17:2)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.M., kand.tekh.nauk

Evaluation of the strength of rock in the foundations of structures. Trudy TSNIIS no.47:200-212 '63. (MIRA 16:5)
(Rocks--Testing)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.M., kand. tekhn.nauk

Classification of rocks which serve as foundations of structures. Trudy TSNIIS no.47:213-216 '63. (MIRA 16:5)
(Rocks--Classification and nomenclature)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.M., kand. tekhn. nauk

Studies of the Central Communications Research Institute on carrying out the norms for planning and the methods of constructing footings for supports. Trudy TSNIIS no.56:5-13 '65. (MIRA 18:5)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.M., kand. tekhn. nauk

Effect of the size of the bit breaking rock on the magnitude of the destructive pressure. Trudy TSNIIS no.56:171-175 '65.

Study of the forces of resistance of the longitudinal shear of a column embedded in rock. Ibid.:176-184.

(MIRA 18:5)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

POPOV, O.A., inzh.; GLOTOV, N.M., kand.tekhn.nauk; ZAVRIYEV, K.S., kand.tekhn.nauk; SHPIRO, G.S., kand.tekhn.nauk

Concerning the revision of the chapter "Pile foundations from consolidating piles" of the Construction Norms and Regulations. Transp.stroi. 15 no.10:46-47 O '65.

(MIRA 18:12)

1. Gosudarstvennyy ordena Trudovogo Krasnogo Znameni proyektno-izyskatel'skiy institut po proyektirovaniyu bol'shikh mostov (for Popov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva Ministerstva transportnogo stroitel'stva (for Zavriyev). 3. Vsesoyuznyy zaochnyy politekhnicheskiy institut (for Shpiro).

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.P., zasluzhennyy vrach RSFSR

Theoretical and practical conference of physicians of certain Caucasian and Crimean sanatoriums. Vop. kur., fizioter. i lech. fiz. kul't. 27 no.1:92-93 '62. (MIRA 15:5)

(SANATORIUMS) (MEDICINE--CONGRESSES)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, N.V.

Methodology of recording and evaluation of the frequency dynamics of developmental defects in man. Vest. AMN SSSR 20 no.9:22-25 '65. (MIRA 18:11)

1. Institut meditsinskoy radiologii AMN SSSR, Obninsk.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

L 14156-66
ACC NR: AP6001312 SOURCE CODE: UR/0248/65/000/009/0022/0025

AUTHOR: Glotov, N. V.

ORG: Institute of Medical Radiology, AMN SSSR, Obninsk (Institut meditsinskoy radiologii AMN SSSR)

TITLE: Methods for calculating and evaluating the dynamics of the frequency of developmental defects in man

SOURCE: AMN SSSR. Vestnik, no. 9, 1965, 22-25

TOPIC TAGS: human genetics, pathology, epidemiology

ABSTRACT: The author discusses three factors that must be taken into consideration when analyzing possible changes in the incidence of developmental defects in a given population: migration of peoples, ambiguity of diagnosis, and the state of medical statistics in each survey. A review of the literature on increase in frequency of defects with time, citing three possible findings is presented. No statistically significant differences can be seen in some years in the rates of defect incidence. The differences between the individual frequencies are statistically significant

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L 14156-66

ACC NR: AP6001312

but there are no regular changes with time. There is a statistically significant and systematic change in frequency with time. Other complicating factors are steady improvement in diagnosis during the past 50 years, possible change in the genetic structure of a population owing to general progress in medicine with resultant sharp drop in mortality (especially infant mortality) and reduction of the influence of natural selection, and the fact that 50 years represent only about two generations so that random variations are inherently likely.

SUB CODE: 06/ SUBM DATE: 05Jun65/ ORIG REF: 003/ OTH REF: 011

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APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

BOCHKOV, N.P.; GLOTOV, N.V.

Seminar on problems of theoretical biology. Med rad. 10 no.11: 92-94 N '65. (MIRA 19:1)

1. Otdel obshchey radiobiologii i radiatsionnoy genetiki (zav. - N.V. Timofeyev-Resovskiy) Instituta meditsinskoy radiologii AMN SSSR, Obninsk.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, O.K.

Determining velocities from several cephalal axes. Geofiz. razv. no.14:3-17 '63. (MIRA 17:3)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

[illegible], [illegible].

"Additional Applications of the Differential Hodograph [illegible] Harvey. [illegible] Promsl. Geofizika, [illegible], 1954, [illegible]

Reconstruction of incomplete hodographs, in particular the determination of the time to and the combination of refracted waves, [illegible] on extrapolation of of the differential hodographs, assuming that the boundary velocity remains the same over the whole area. ([illegible], No 1[illegible], 1955)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, O.K.

Computing refraction at the intermediate separation line while interpreting data on refracted and reflected wave hodographs. Prikl. geofiz. no.16:114-129 '57. (MLRA 10:8)
(Seismic waves) (Hodograph)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

BOGDANOV, Aleksey Ivanovich; GLOTOV, O.K., red.; KUZ'MINA, N.N., vedushchiy red.; GANINA, L.V., tekhn.red.

[Interpretation of seismic hodographs] Interpretatsiia seismicheskikh godografov. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 288 p. (MIRA 13:4)
(Seismic prospecting)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

S/552/60/000/027/003/008
H000/H000

AUTHOR: Glotov, O. K.

TITLE: Determination of reflecting horizons by the midpoint method

SOURCE: Prikladnaya geofizika (sbornik statey), no. 27, 1960, 35-49

TEXT: The midpoint method for determining the position of reflecting horizons, which affords several ways of improving the accuracy of the reflected wave method, and which is especially suitable for gently sloping reflecting horizons, is discussed. The new method eliminates the difficulty of tracing reflected waves near the shot point, encountered with the commonly used t_0 method of determining horizons, by first finding the depth of the reflecting surface under one of the shot points. This can be found if the depth of this surface at another shot point, and the reflected wave travel time difference from cross time-distance curves for a point midway between the shot points, are known. It is shown that errors due to deviation of the seismic ray from the vertical when determining depth differences by the midpoint method can be disregarded, provided the propagation velocity in the covering complex is constant. Serious distortions of the

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Determination of reflecting horizons (Cont.) S/552/60/000/027/003/003
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cross section can result from failure to consider vertical and horizontal gradients and zones of low velocities. The author discusses practical methods for determining horizons for cases of constant velocity and for cases where velocity changes linearly in a horizontal direction. There are 10 figures.

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

KAZAKOV, Aleksey Tikhonovich; GLOTOV, O.K., red.; USHAKOVA, A.F., red. red.; POLOSTNA, A.S., tekhn. red.

[Blasting methods and techniques in seismic prospecting] Metodika i tekhnika vzryvnykh rabot pri seismorazvedke. Moskva, Gos. nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1961. 217 p. (MIRA 14:12)

(Seismic prospecting) (Blasting)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, O.K.

Possibility of using the reflection method of seismic probing for prospecting in uplifted zones and large, gently sloping, platform-type structures. Razved.i prom.geofiz. no.43:13-27 '62. (MIRA 15:8)

(Seismic prospecting)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

KAZAKOV, Aleksey Tikhonovich; GLOTOV, O.K., red.; KUZ'MINA, N.N., ved. red.; VORONOVA, V.V., tekhn. red.

[Methods and equipment for blasting operations in seismic prospecting] Metodika i tekhnika vzryvnykh rabot pri seismorazvedke. Izd.2., perer. i dop. Moskva, Gostoptekhizdat, 1963. 282 p. (MIRA 16:10)
(Seismic prospecting) (Blasting)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

BELEVTSOV, G.A.; KRASAVTSEV, N.I.; MISHCHENKO, N.M.; SOLDATKIN, A.I.; SHARKEVICH, L.D.; Prinimali uchastiye: FROLOV, S.Ya.; SHESTOPALOV, I.I.; PECHNIKOVA, Z.A.; STOLBUNSKIY, L.Z.; USOV, V.T.; GLOTOV, P.L.; VOLKOVA, A.Ya.; ALDOKHINA, V.P.; VOLOSHIN, Yu.T.; SHUMAKOV, I.S.; ZAPOROZHETS, N.P.; SHAPOSHNIKOV, V.P.; GONCHAROVA, M.Ya.

Investigation of blast furnace smelting using natural gas. Stal' 22 no.6:483-486 Je '62. (MIRA 16:7)

(Blast furnaces--Equipment and supplies)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

AUTHOR: Glotov, S.T. [illegible]

TITLE: Obtaining Building Materials as By-products when Working Sands by Dredging or Hydraulic Mining (Poputnaya dobycha stroitel'nykh materialov pri [illegible] mestorozhdeniy [illegible])

PERIODICAL: Tsvetnyye metally, 1959, Nr [illegible], pp [illegible] (USSR)

ABSTRACT: Although gold-, platinum- [illegible] containing and other mineral sands are worked in large quantities by dredging and hydraulic mining, nothing has been organised for the utilisation of their considerable ([illegible]%) content of natural sand and gravel, which [illegible] needed for building. Since the [illegible] industry in the USSR, the Sovnarkhoz (economic council) of the Sverdlovskiy ekonomicheskiy administrativnyy rayon (Sverdlovsk Economic Administrative Region) has become interested in this question. The [illegible] institut have shown that such utilisation of by-products from available local deposits would supply requirements of several industrial regions. [illegible] deposits close to consumers [illegible] sand and gravel could be obtained annually at [illegible]%,

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S[illegible]

Obtaining Building Materials as [illegible] Sands by Dredging or Hydraulic Mining

respectively, below that of [illegible]. The Institute in 1958 carried out the necessary design and planning work, and the author gives details of a scheme for a 210-ℓ dredger working a deposit with a comparatively low [illegible] yield of 40-45% of -100 + 0,[illegible] mm. Fig 1 shows the dredging scheme, with the dredger operating at an average rate of 160 m³/hour for 15 hours a day for [illegible] days a year. Little reconstructional work would be needed: Fig 2 shows the proposed flowsheet. A type [illegible] soil pump rated at 600 m³/hour would be [illegible]. Laboratory tests have shown that the [illegible] obtained conform to GOST [illegible] and GOST [illegible], respectively. The author gives cost estimates for this and also for a 150-ℓ dredger. As an [illegible] by-production of sand and gravel during [illegible] the author discusses plans drawn up for a [illegible] installation with [illegible] of [illegible]00 000 m³. The scheme is the same in principle [illegible] for dredging but is simpler to [illegible]. [illegible] points out that

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SOV/[illegible]

Obtaining Building Materials as By-products from Working Sands by Dredging or Hydraulic Mining

the by-production of valuable materials may make relatively poor precious-metal deposits worth working and could lead to great savings in building costs. Work in this direction was to start in the Sverdlovsk region in the Spring of 1959.

Card 3/3 There are 2 figures.

ASSOCIATION: Unipromed'

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, Vasyl'

[On virgin lands of Altai Territory] Na altaiskii tsilyni. L'viv, Knyzhkovo-zhurnal'ne vyd-vo, 1955. (MIRA 9:12)
(Altai Territory--Agriculture)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

1. GLOTOV V.A., DUDA G.R., SUKHANOV A.F.

2. USSR (600)

7. "Microflora of the Air in the Clinics of the Omsk Medical Institute imeni M.I. Kalinin", Trudy Omskogo Med. In-ta im. M.I.Kalinina (Works of the Omsk Medical Institute imeni M.I. Kalinin), No 6, 1951, pp 103-111.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.A.; USACHEVA, Ye.M.

Late results of treatment without bouginage in burns of the esophagus. Vest. oto-rin. 25 no.2:65-67 Mr-Ap '63. (MIRA 17:1)

1. Iz kafedry bolezney ukha, nosa i gorla (zav. - prof. Ye.I. Yaroslavskiy) Omskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SOV/110-59-7-14/19

AUTHORS: Glotov, V.G. (Engineer) and Pronin, L.A. (Engineer)

TITLE: Concerning the Shape of the Hysteresis Loop of Ferrite Cores for Memory Devices (O forme petli gisterezisa ferritovykh serdechnikov dlya zapominayushchikh ustroystv)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 7, pp 64-67 (USSR)

ABSTRACT: Recently, small memory-devices have usually been made with ferrite cores having a rectangular hysteresis loop. This article considers the relationship between hysteresis loop shape and chemical composition of ferrite cores of the system MgO - MnO - Fe_2O_3. First the shape of the hysteresis loop is explained in terms of the domain theory of magnetisation, citing work published in English. Two possible cases of re-magnetisation of ferrite cores are considered with reference to Fig 2: if H_n is greater than zero, reduction from B_m to B_r results only from rotation of domains to the crystallographically-preferred direction of magnetisation. If H_w is greater than H_n (Fig 2a), i.e. if movement of domain boundaries is still difficult with a field H_n, then the value of H_w determines H_c and the steep sides

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SOV/110-59-7-14/19

Concerning the Shape of the Hysteresis Loop of Ferrite Cores for Memory Devices

of the hysteresis loop are sloping. If H_n is less than H_n (Fib 2b), i.e. re-magnetisation is determined only by the field intensity necessary to create domains of reverse magnetisation, then the hysteresis loop is near to the ideal rectangular shape. In this case the value of H_n determines H_c and it may be called the start field H_s. Secondly, if H_n is less than 0 (Fig 2v) then the reduction from B_m to B_r results not only from rotation of domains to the direction of easy magnetisation but also from the creation of domains of reverse magnetisation, even when H_m is greater than 0. In this case movement of the boundaries is difficult and the loop cannot be rectangular. In actual Mg - Mn ferrites suitable for operation in memory devices, the hysteresis loop shape is apparently close to the case H_m greater than 0, which corresponds to the fulfilment of the condition given by expression (1). Reduction of the grain size L, although favourable, is possible only within limits, because it causes an increase in the value of H_c. In order to satisfy expression (1) ferrites of the system

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Concerning the Shape of the Hysteresis Loop of Ferrite Cores for Memory Devices

$MgO - MnO - Fe_2O_3$ should be chosen for which the ratio of the density of surface energy on the domain boundaries to the saturation at magnetisation is high. Further, it may be shown that to obtain ferrite cores with a rectangular loop and also a dense uniform and single-phase material the condition given by expression (2) must be fulfilled. For practical purposes this corresponds to fulfilment of the requirement given by expression (3). Obviously the less the ratio of B_m/H_c, the more the shape of the hysteresis loop approaches to rectangular. Ferrites were investigated with compositions in regions I and II of the system $MgO - MnO - Fe_2O_3$. As indicated in Fig 3, the composition in region I was

$MnO/Fe_2O_3 \approx 0.7$; $MgO \approx 32 - 36$ mol %.

That in region II was

$MnO/Fe_2O_3 \approx 1$; $MgO \approx 14 - 18$ mol %.

Compositions of type I have higher magnetic anisotropy than those of composition II. Therefore, the density of surface energy of the domain boundary is greater for I

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Concerning the Shape of the Hysteresis Loop of Ferrite Cores for Memory Devices

than for II. In practice, with identical treatment, H_c for type I is 1.5 - 2 times higher than for type II and the magnetisation at saturation for I is usually lower than for II. If a ferrite core is to have H_c = 1.3 - 1.5 either composition is eligible. The characteristics of the two types of core are compared in a Table and it will be seen that the ratio B_r/B_m is fairly great for both, so that H_m is greater than zero. The curvature of the vertical sides of the loop is governed by the ratio B_m/H_c, which for cores I = 1 150 and for cores II = 1 620. Therefore the value of H_m is greater for compositions I than for II and accordingly compositions in region I should be chosen in the case considered. Curvature of the vertical sides of the hysteresis loop was determined under impulse conditions from the rate of rise of interference voltage on changing the magnetic field intensity by 5 - 10% (see Fig 4). It will be seen from Fig 4 that for cores type I the change in interference voltage is

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Concerning the Shape of the Hysteresis Loop of Ferrite Cores for Memory Devices

sharper than for cores type II, because the sides of the hysteresis loop for cores I are the more curved There are 4 figures, 1 table and 4 references, of which 3 are English and 1 Soviet.

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.G., inzh.; DOLKAR", V.M.

Pulsed imagnetic polarity reversal of ferrites with rectangular hysteresis loops. Vest.elektroprom. 31 no.3:19-25 Mr '60. (MIRA 13:6)

(Ferrates)

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9,2130 (1001, 1155, 1331)

88643

S/110/61/000/001/011/023
E073/E455

AUTHOR: Glotov, V.G., Engineer

TITLE: Influence of the Porosity on the Properties of Ferrite Cores

PERIODICAL: Vestnik elektropromyshlennosti, 1961, No.1, pp.34-38

TEXT: According to data in the literature, the optimum dimensions for small cores are: internal diameter d, 0.7 to 0.8 mm; external diameter D, 1.2 to 1.3 mm; the height is usually 0.4 to 0.5 mm so as to obtain a sufficiently high output signal U_s (50 to 70 mV). For ferrite cores used as memories, the most important parameter is the steepness of the rectangular hysteresis loop, which depends on the chemical composition of the cores and the manufacturing process. For obtaining MgMn ferrites with a rectangular hysteresis loop, the following condition has to be fulfilled:

$$A\sigma_w > LJ_s^2$$

where σ_w is the density of the surface energy of the domain walls,
L is the average diameter of the material,

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Influence of the Porosity on the Properties of Ferrite Cores

J_s is the saturation magnetization,
A a constant depending on the shape, dimensions and location of the boundaries of reverse magnetization.

Of these, σ and J_s depend on the chemical composition and L depends on the manufacturing process. To obtain an improved steepness of the hysteresis loop, the structure has to be of sufficiently fine grain, which also improves the mechanical strength. The magnitude L can be influenced by the degree of porosity. It was established experimentally that the additional porosity caused by the burning-out of the binder during the sintering process plays an important role. The shape of the hysteresis loop is evaluated by determining the change in the signal-to-noise ratio U_s/U_n when the field potential increases by 10%. The greatest drop in the signal-to-noise ratio was obtained for a core with the optimum percentage of binder, whilst for equal cores containing an increased or reduced percentage of the binder the drop in the U_s/U_n was small. The determined dependence of the increase in the noise-to-signal ratio (U_n/U_s) as a function of the

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Influence of the Porosity on the Properties of Ferrite Cores

percentage of the binder resulting from a 10% increase of the field potential is plotted in Fig.4; it is obvious that the shape of the hysteresis loop depends to a great extent on the additional porosity. M.Bal'shin (Ref.3) attributed this to the fact that pressing eliminates most large porosities, whilst the sintering process eliminates small porosities. The fresh pores caused by the binder burning out will however be large: when the sintering temperatures are high, the pores remaining after pressing become insignificant and the porosity caused by the binder will control grain growth. The pressing can be effected either by maintaining constant the pressure of the press, obtaining thereby press links of differing height but of uniform density; alternatively, the ultimate distance between the punch and the die can be maintained constant, when press links of equal height but of differing density will be obtained. The author considers the first process preferable, since by this method variance of the properties will only occur along the height of the cores and not in the radial direction. In mass-produced ferrite cores it frequently happens

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Influence of the Porosity on the Properties of Ferrite Cores

that cores produced under strictly identical manufacturing conditions will differ as regards H_c. According to L.Blackman (Trans.Brit.Ceram.Soc., V.56, 1957, No.11) this is mainly due to differing reactivities of the material. It is, however, likely that the statistical distribution of cathions in the spinel lattice during annealing at high temperature also has a certain influence. Usually, the tolerance as regards H_c values is very small and it is necessary to "correct" batches in which the deviations are not too wide. The results show that such correction is possible. If H_c is too high, additional holding at the sintering temperature is recommended: if it is too low, it is necessary to reduce the sintering temperature. In these operations a satisfactory sharpness of the hysteresis loop can be maintained only if the material whose H_c is too low has a porosity a little higher than that of the optimum. In cores with too low H_c values and a satisfactory hysteresis loop and optimum porosity, the desired higher H_c values can be obtained by reducing the firing temperature as a result of redistribution of the

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Influence of the Porosity on the Properties of Ferrite Cores

cathions provided the material contains sufficient quantities of MgO. There are 4 figures and 5 references: 1 Soviet and 4 non-Soviet.

SUBMITTED: April 18, 1960

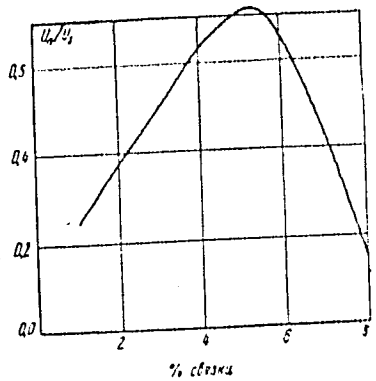

Рис. 4. Зависимость $U_н/U_1$ от связки при напряженности поля $H_m + 0,1H_m$.

Fig.4.

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S/194/61/000/009/015/053
D222/D302

9,7140

AUTHOR: Glotov, V.G.

TITLE: The influence of porosity on the properties of ferrite cores

PERIODICAL: Referacivnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1961, 31, abstract 9 B227 (Vestn. elektropromsti, no. 1, 1961, 34-38)

TEXT: Small MgMn ferrite cores are used in storage units of large capacity. In order to ensure a rectangular hysteresis loop a sufficiently micro-granular structure is necessary which also improves the mechanical strength of the cores. It is established experimentally that in the synthesis of ferrites the additional porosity arising during sintering because of the burning out of the organic binding material, added to the powder before pressing is of great importance. With small porosity recrystallization during sintering is not hindered and the average diameter of the

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grains increases, while the rectangularity deteriorates. On the other hand very high porosity reduces the rectangularity, because it increases the possibility for the formation of inversely magnetized domains during remagnetization. Best rectangularity of the hysteresis loop is obtained with an optimal porosity for the given binding material. If the sintering temperature is sufficiently high porosity becomes negligible, and the grain size growth is controlled by the additional porosity induced by the binding material. The negligible influence exerted by the change in porosity during pressing, at the temperature where the powder particles begin to increase, and the final grain size are explained by the fact that the magnitude of the contact surface is little dependent on the pressing pressure before recrystallization begins. Therefore, difference in porosity in the pressed specimens do not influence noticeably the rectangularity of the hysteresis loop. 4 figures. 5 references. [Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.G., inzh.

Impulse remagnetization of ferrites with rectangular hysteresis loops. Vest. elektrop. 33 no.11:60-62 N '62 (MIRA 15:11)
(Ferrates)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, Vasiliy Ivanovich [Hlotov, Vasil']; DEMCHUK, M., red.;
NEDOVIZ, S., tekhred.

[Come to see the "Ukraina" Collective Farm] Priizdit' u kolhosp "Ukraina." L'viv, Knyzhkovo-zhurnal'ne vyd-vo, 1959. 25 p. (MIRA 13:2)
(Collective farms)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, Vasiliy Ivanovich[Hlotov, V.I.]; SVARNYK, I.[Svarnyk, I.], red.; NEDOVIZ, S., tekhn. red.

[Secretary of a district party committee; sketches]Sekretar raikomu; narysy. L'viv, Knyzhkovo-zhurnal'ne vyd-vo, 1961. 58 p. (MIRA 15:12)

(Sokal' District--Rural conditions)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V. K.

"Investigation of the Dynamics of a Longitudinal Launching." Cand Tech Sci, Leningrad Ship Building Inst, Leningrad, 1955. (KL, No 14, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SOV/124-58-5-5401

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 64 (USSR)

AUTHOR: Glotov, V.K.

TITLE: ~~Allowing~~ for the Curvature of the Flanks of a Vessel in Calculations of its Draft (Uchet nepryamobortnosti v raschetakh posadki korablya)

PERIODICAL: Tr. Leningr. korablestroit. in-ta, 1956, Nr 18, pp 141-152

ABSTRACT: Examination is made of one of the possible methods of calculating the draft of a vessel when allowance is made for the curvature of its flanks. Draft calculations made for various types of vessels by this method are included.

A.M. Rozenfel'd

1. Ships--Design 2. Mathematics--Applications

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.K., kandidat tehnicheskikh nauk.

Calculating ordinates of the center of buoyancy for variable draft by Matrosov's method. Sudostroenie 23 no.4:10 Ap '57. (MLRA 10:5)
(Naval architecture--Tables, calculations, etc.)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.K., kandidat tekhnicheskikh nauk.

Corrections to the metacentric formula considering the frame shape. Sudostroenie 23 no.7:11-14 Jl '57. (MLRA 10:8)
(Stability of ships)
(Naval architecture--Tables, calculations, etc.)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.K.

Experimental facts about resistances and associated inertia during heaving and pitching. Trudy LKI no.23:17-20 '59. (MIRA 15:5)

1. Kafedra teorii korablya Leningradskogo korablestroitel'nogo instituta.

(Ships--Hydrodynamic impact)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

SEMENOV-TYAN-SHANSKIY, Vladimir Veniaminovich. Prinimal uchastiye GLOTOV, V.K., kand.tekhn.nauk; FIRSOV, G.A., nauchnyy red.; OSVENSKAYA, A.A., red.; FRUMKIN, P.S., tekhn.red.

[Statics and dynamics of ships; buoyancy, stability, and launching theories] Statika i dinamika korablia; teoriia plavuchesti, ostoichivosti i spuska. Izd.2., perer. i dop. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1960. 576 p. (MIRA 14:2)

1. Kafedra teorii korablya Leningradskogo korablestroitel'nogo instituta (for Glotov).
(Naval architecture)
(Ships--Launching)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.K.; ZHEN' KE [Jen K'o]

Rational procedures for processing records of the rolling of models. Trudy LKI no.31:5-9 '60. (MIRA 15:2)

1. Kafedra teorii korablya Leningradskogo korablestroitel'nogo instituta.

(Ship models) (Stability of ships)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.L.; GORODETSKOV, A.P., inzh., retsenzent; KOSTYUKOVSKIY, M.A., inzh., red.; VOROB'YEVA, L.V., tekhn. red.

[Engineering inspection and equipment of a.c. locomotives] Opyt tekhnicheskogo osmotra i ekipirovki elektrovozov peremennogo toka. Moskva, Izd-vo "Transport," 1964. 37 p. (MIRA 17:3)

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"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.N.; GEYNE, Ye.I.

Method of preparing ceruleum, a pigment for art painting.
Lakokras.mat. i ikh prim. no.2:18-20 '61. (MIRA 14:4)
(Pigments)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.N.

Preparing red madder dyes. Lakokras. mat. i ikh prim. no.2: 35-39 '61. (MIRA 15:3)

(Madder) (Dyes and dyeing)

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9"

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515410015-9

GLOTOV, V.N.; Prinimali uchastiye: VLADIMIROVICH, M.T.; IVANNIKOV, A.Ye.; KIRZHER, N.A.; SOSIPATROV, V.A.; ZHELEZKOVA, M.I.

Microcrushing of pigments and fillers with the "Microatomizer" apparatus. Lakokras.mat.i ikh prim. no.6:57-60 '62. (MIRA 16:1)
(Paint industry--Equipment and supplies)

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