S/072/60/000/010/003/004
B021/B058

AUTHORS: Vargin, V. V., Gutorova, L. L.

TITLE: Glasses of the System Na_2O - TiO_2 - SiO_2 as Basis of Enamels for Aluminum

PERIODICAL: Steklo i keramika, 1960, No. 10, pp. 22 - 25

TEXT: The authors worked out lead enamels for aluminum, which met all requirements. Leadless enamels should, however, be preferred because of the deleterious action of lead compounds. V. V. Vargin and M. V. Serebryakova also worked in this field. The present paper deals with further investigations of leadless, thinly liquid silica glasses and the preparation of high-quality industrial enamels for aluminum. Titanium dioxide reduces the viscosity, increases the resistance against water and acid and increases the light refraction and reflection. For their experiments, the authors melted a number of glasses of the composition $Na_2O \cdot 2(SiO_2+TiO_2)$ and with varying TiO_2 content. A. V. Senderovich, Candidate for Diploma, and A. F. Kurbatova, Laboratory Assistant, participated in these

Glasses of the System Na_2O - TiO_2 - SiO_2 as Basis of Enamels for Aluminum

S/072/60/000/010/003/004
B021/B058

experiments. The fusibility was determined by the method of the Chair for Glass of the Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet) (Fig. 1). Glass No. 13 was synthetically produced on the basis of the results. At a temperature of 570°C, it has a good flow on aluminum and has a sufficient resistance against water, acetic acid (4%) and citric acid (10%). The results of the determination of chemical stability and the fusibility of the glasses are shown in Figs. 2 and 3. Enamel compositions for aluminum were worked out on this basis for the practice, and they are tabulated as follows:

Oxide	Percent by weight	Molecular percent
SiO_2	36.6	38.0
TiO_2	24.7	19.3
B_2O_3	4.0	3.5
Na_2O	30.7	30.8
Li_2O	4.0	8.4

The introduction of lithium oxide and boric anhydride in limited

Card 2/3

GUTOROVA, L. L.

PHASE I BOOK EXPLOITATION SOV/6060

Vargin, V. V., Professor, ed.

Emalirovaniye metallicheskikh izdeliy (Enameling of Metal Articles). Moscow, Mashgiz, 1962. 546 p. Errata slip inserted. 7500 copies printed.

Reviewer: A. S. Ragozin, Engineer; Ed.: M. V. Serebryakova, Engineer; Eds. of Publishing House: I. A. Borodulina, A. I. Varkovetskaya, and T. L. Leykina; Tech. Ed.: L. V. Shchetinina; Managing Ed. for Literature on Machinery Manufacture (Leningrad Division, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for specialists in enameling, technical personnel of plants, and personnel of scientific research laboratories and institutes. It can also be used by teachers and students of schools of higher education.

COVERAGE: The book provides a brief discussion on raw materials and processes for melting enamels, describes in detail furnaces for melting enamels,

Card 1/4

and offers some recommendations for selection and calculation of furnaces. A special section [Ch. IV, sect. 8] on heat-resistant coatings is included. A flowsheet is given for centralized production of enamels. The properties and preparation of slips are also comprehensively described. The production of new enameled products such as pipelines, architectural and building materials, and aluminum articles is described. Individual chapters were written both by plant personnel and by technical personnel of scientific research institutes and schools of higher eduction. [See: Table of Contents.] No personalities are mentioned. There are 638 references, mainly Soviet, with many English and some German.

TABLE OF CONTENTS [Abridged]:

8

Enameling of Metal Articles (. . .) SOV/6060

AVAILABLE: Library of Congress
SUBJECT: Metals and Metallurgy
Card 4/4

BN/pw/jk
10-31-62

VARGIN, Vladimir Vladimirovich; GUTOROVA, Lyubov' L'vovna; MAZURIN, Oleg Vsevolodovich; MODIKEL', Yevgeniya Pavlovna; PEVZNER, B.Z., red.

[Steel enameled electroluminescent panels developed by the Leningrad Technological Institute in 1963] Stal'nye emalirovannye elektroliuminestsentnye paneli LTI 1963 goda. Leningrad, 1963. 20 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Zashchita metallov ot korrozii, iznosostoikie antifriktsionnye i dekorativnye pokrytiia, no.8) (MIRA 17:5)

VARGIN, V.V., prof., doktor tekhn. nauk; ANTONOVA, Ye.A., kand. tekhn. nauk; GUTOROVA, L.L., st. nauchn. sotr.; LITVINOVA, Ye.I., kand. tekhn. nauk; LUCHINSKIY, V.V., inzh.; MAZUREK, Yu.V., kand. tekhn. nauk; SENDEROVICH, V.Ya., kand. tekhn. nauk; SEREBRYAKOVA, M.V., st. nauchn. sotr.

[Technology of enamels and the enameling of metals] Tekhnologiia emali i emalirovaniia metallov. Moskva, Stroiizdat, 1965. 315 p. (MIRA 18:5)

POKROVSKAYA, M.P.; KRASKINA, N.A.; GUTOROVA, N.M.; LEVENSON, V.I.; ZHUKOV, V.G.; ALLILUYEV, A.P.

Cytologic study of the process of recovery in animals immunized by Vi antigen and infected by virulent typhoid fever bacilli. Zhur. mikrobiol., epid. i immun. 40 no.9:79-82 S'63. (MIRA 17:5)

1. Iz Moskovskogo instituta epidemiologii i mikrobiologii.

KUVMAN, G.Ya.; PRADKINA, M.D.; GUTOROVA, N.M.

Dried hemolyzed blood as a stimulator of growth of Pasteurella pestis. Zhur.mikrobiol.epid.i immun no.5:82-85 My '55. (MLRA 8:7)

1. Iz laboratorii osobo opasnykh infedtsii (zav.-prof. M.P.Pokrovskaya) Gosudarstvennogo kontrol'nogo instituta imeni Tarasevicha (dir. S.I.Didenko).

(PASTEURELLA PESTIS, culture,
growth stimulation with dried hemolyzed blood)
(BLOOD,
hemolyzed dried blood, stimulation of growth of Pasteurella pestis)

Gutorova, N.M.

KIVMAN, G.Ya.; PRYADKINA, M.D.; GUTOROVA, N.M.

Preparation for the detection and stimulation of growth of Vibrio comma. Zhur. mikrobiol. epid. i immun. no.12:61-66 D '55. (MLRA 9:5)

1. Iz laboratorii Gosudarstvennogo kontrol'nogo instituta syvorotok i vaktsin imeni L.A. Tarasevicha (dir.-S.I. Didenko)

(VIBRIO COMMA, culture,
medium containing Bacillus mesentericus filtrates for detection & stimulation of growth.)

(BACILLUS,
mesentericus, filtrates in culture media for detection & stimulation of growth of Vibrio comma)

(CULTURE MEDIA,
for Vibrio comma, eff. of Bacillus mesentericus filtrates in detection & stimulation of growth)

POKROVSKAYA, M.P.; MAKARENKO, I.G.; KRASKINA, N.A.; BRAUDE, N.I.; PRYADKINA, M.D.; GUTOROVA, N.M.

Significance of cytochemical investigations in the study of immunological problems. Zhur.mikrobiol.epid. i imun. 30 no.1: 5-11 Ja '58. (MIRA 12:3)

1. Iz Gosudarstvennogo kontrol'nogo instituta meditsinskikh biologicheskikh preparatov imeni Tarasevicha.
(IMMUNITY,
cytochem. aspects (Rus))

[illegible]

"Cytochemical methods of study of the [illegible]."

report submitted at the 13th All-Union Congress of [illegible], [illegible] and Infectionists, 19[illegible].

POKROVSKAYA, M.P.; KAGANOVA, L.S. [deceased]; VZOROV, V.I. [deceased]; KOCHER'YAN, O.N.; GRIBANOVA, K.V.; KOTLYAROVA, R.I.; GUTOROVA, N.M.

Anabiosis as a factor in preserving the useful properties of microorganisms for a prolonged period. Trudy IEMG no.7:70-95'60 (MIRA 16:8)

(CRYPTOBIOSIS) (MICROORGANISMS—DRYING)

POKROVSKAYA, M.P.; KRASKINA, N.A.; GUTOROVA, N.M.; IEVENSON, V.I., ZHUKOV, V.G. ALLILUYEV, A.P.

Cytological study of the process of immunogenesis following administration of the Vi-antigen of typhoid fever bacteria. Report No. 1. Zhur. mikrobiol., epid. i immun. 40 no. 8:9-14 Ag '63. (MIRA 17:9)

1. Iz Moskovskogo instituta epidemiologii i mikrobiologii.

POKROVSKAYA, M.F.; PFASKINA, N.A.; LEVENSON, V.I.; GUSKOVA, N.M.; BRAUDE, N.I.

Morphology and nomenclature of immunologically competent cells of lymphoid tissue. Zhur.mikrobiol., epid. i immun. 42 no.3:8-13 Mr '65. (MIRA 18:6)

1. Moskovskiy institut epidemiologii i mikrobiologii.

GUTOROVA, O.P.

Percentage increases in th' basic heat losses by vertical enclosures for the coastal districts of the Maritime Territory. Sbor. nauch. rab. DVNIIS no.3:66-74 '62.
(MIRA 17:5)

[illegible], A. [illegible], CHUDNOVA, G.P.

Characteristics of the climate of the Maritime Territory and accounting for them in the planning of buildings. Sbor. nauch. rab. DVNIIS no.3:75-86 '62.

LASUNOV, N.A., otv. red.; NOVIKOVA, M.I., red.; GUTOROVA, V.G., red.; ZHILYAYEVA, A.V., red.; KONDRASHOVA, A.M., red.; OKOROKOVA, A.A., red.; USHAKOVA, P.N., red.

[Regulations for the design, installation and safe operation of elevators. Compulsory for all ministries and services] Pravila ustroistva i bezopasnoi ekspluatatsii liftov. Obiazatel'nyi dlia vsekh ministerstv i vedomstv. Moskva, Nedra, 1965. 73 p. (MIRA 18:8)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

ACC NR: AP6029055 SOURCE CODE: UR/0413/66/000/014/0082/0082

INVENTOR: Tursunov, A. V.; Gutorova, V. L.; Kondrashov, A. I.; Pilyushenko, V. L.

ORG: none

TITLE: Structural steel for use at low temperature. Class 40, No. 183946. [announced by the Scientific Research Institute of Ferrous Metallurgy (Nauchno-issledovatel'skiy institut chernoy metallurgii)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 82

TOPIC TAGS: cold brittleness, structural steel, cold resistant steel, silicon containing steel, manganese containing steel, tungsten containing steel

ABSTRACT: This Author Certificate introduces a structural steel for use at low temperature which contains silicon and manganese. In order to decrease the susceptibility to cold brittleness, the steel has following composition: 0.32—0.40% C, 0.17—0.3% Si, 1.00—1.30% Mn, 0.2—0.35% W, up to 0.05% Ti, up to 0.05% Al, up to 0.035% S, and up to 0.035% P. [WW]

SUB CODE: 11/ SUBM DATE: 09Oct64/ATD PRESS: 5008

Card 1/1 UDC: 669.15-194.2

BARANOVA,N.M.; BASS, Yu.B.; BOGDANOVICH, V.V.; VIL'GOS, Ye.F.; GRAZHDANTSEV, I.I.; GRYAZNOV, V.I.; GUTOROVA, Ye.D.; KABRIZON, V.M.; MOLYAVKO, G.I.; MOROKHOVSKAYA, M.S.; NOSOVSKIY, M.F.; ROMODANOVA, M.P.; SOSNOV, A.A.; SHEVCHENKO, Ye.S.; USENKO, I.S.; Prinimali uchastiye: BONDAR', A.G., inzh.-gidrogeolog; SACHENKO-SAKUN, V.M., st. topograf; SHELUKHINA, A.V., st. tekhnik-geolog; STOPIK, M.A., st. tekhnik-geolog; REUTOVSKAYA, E.A., tekhnik; BETEKHTIN, A.G., akademik, glav. red.[deceased]

[Nikopol' manganese-ore basin] Nikopol'skii margantsevo-rudnyi bassein. Moskva, Izd-vo "Nedra," 1964. 534 p. (MIRA 17:6)

1. Institut geologicheskikh nauk AN Ukr.SSR (for Baranova, Molyavko, Romodanova, Usenko). 2. Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo gosudarstvennogo universiteta (for Gryaznov, Nosovskiy). 3. Trest "Dneprogeologiya" (for Bogdanovich, Kabrizon). 4. Trest "Kiyevgeologiya" (for Bass). 5. Trest "Nikopol'-Marganets" (for Vil'gos, Grazhdantsev, Sosnov).

GUTOROVICH, M.S., inzh.

Determination of the optimum size of repair enterprises. Mekh. i elek. sots. sel'khoz. 21 no.4:51-52 '63. (MIRA 16:9)

1. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut remonta i ekspluatatsii mashinno-traktornogo parka.
(Agricultural machinery--Maintenance and repair)

[redacted] Gutorski, K.

Production of chlorophyll [and chlorophyllin] and the industrial applications thereof. Bonifacy Więckawek and Krzysztof Gutorski (Zakład Barwników Spożywczych GIPRiS; Warsaw). *Prace Głównego Inst. Przemysłu Rolnego i Spożywczego* 4, No. 3, 32-9(1954).—The best Polish raw material available for the manuf. of chlorophyll (I) and chlorophyllin (II) is lucerne (alfalfa). It is extd. with petr. ether, the obtained ext. is used for the prepn. of carotene and lipides. Then follows an Me_2CO extn., and extn. with MeOH, from which ext. xanthophyll may be prepd. Finally follows an adsorption on talcum, from which the I is eluted with Et_2O; the residual talcum contains the II and some phytol. Both I and II obtained are sufficiently pure for practical use. Werner Jacobson

POLAND/Chemical Technology. Chemical Products and Their Application. Leather. Fur. Gelatine. Tanning Materials. Industrial Proteins. H-35

Abs Jour: Ref Zhur-Khim., No 2, 1959, 6957.

Author : Gutorski, Krzysztof.
Inst :
Title : Application of Melamine and Resorcin Resins to Finishing Leather.

Orig Pub: Przegl. skorzany, 1957, 12, No 7, Biul. Lab. Kolorystucznego, 1-4.

Abstract: No abstract.

Card : 1/1

GUTORTSOV, V.Ye., (Vinnitsa, ul. Chkalova d.15/2); KUCHERENKO, A.Ye., kand. med. nauk

Methodology of the development of movements in the shoulder joint. Ortop., travm. i protez. 26 no.7:71-72 Jl '65. (MIRA 18:7)

1. Iz Vinnitskogo oblastnogo gospitalya invalidov Otechestvennoy voyny (nachal'nik - N.K.Onikiyenko).

GUTOV, N.G.; AKATOV, M.A.

Work experience of the Moscow mechanized factory-laundry no.6.
Gor.khoz.Mosk.29 no.10:32-36 O '55. (MLRA 9:2)
(Moscow--Laundries, Public)

GUTOV, N.G.; SHPARBER, Yu.A.

Using synthetic washing powders in a laundry. Masl. -zhir.prom.23 no.1:23-24 '57. (MLRA 10:1)

1. Moskovskaya fabrika-prachechnaya no.6.
(Washing powders)

GUTOV, N.G.; SHPARBER, Yu.A., tekhnolog

New synthetic soapless cleansing agents. Gor.khoz.Mosk. 31 no.5:29 My '57. (MIRA 12:3)

1. Direktor fabriki-pracheshnoy No. 6.
(Washing powders)

GUTOV, N.G., tekhnolog; SHPARBER, Yu.A.

Mechanized ironing of laundry. Gor. khoz. Mosk. 32 no.2:32-33 F '58.
(MIRA 11:1)

1. Moskovskaya fabrika-pracheshnaya no.6. 2. Direktor Moskovskoy fabriki-pracheshnoy no.6 (for Gutov).
(Laundry)

GUTOV, N.; PISHCHIK, A.

The laundry is transferred in containers. Zhil.-kom. khoz. 11 no.12:29 D '61. (MIRA 16:11)

1. Direktor 6-y fabriki-prachechnoy, Moskva.

LYUBARSKIY, G.E.; GUTOV, P.P.; BYCHKOV, I.F.

Specification of standards for toothed and worm gears is needed.
Standartizatsiia 27 no.12:53 D '63. (MIRA 17:4)

GUTOVA, L.N.

Stratigraphy of Jurassic sediments in the Irkutsk Coal Basin. Trudy Inst. zem. kory SO AN SSSR no.15:92-99 '63
(MIRA 17:3)

[illegible], Svetozar

Specialization of production, and labor productivity in the textile industry and especially in the knitwear manufacture. Tekstil ind Beograd 12 no.12:687-688 '64.

1. Technical Director, "TIK" Knitwear Factory, Titograd.

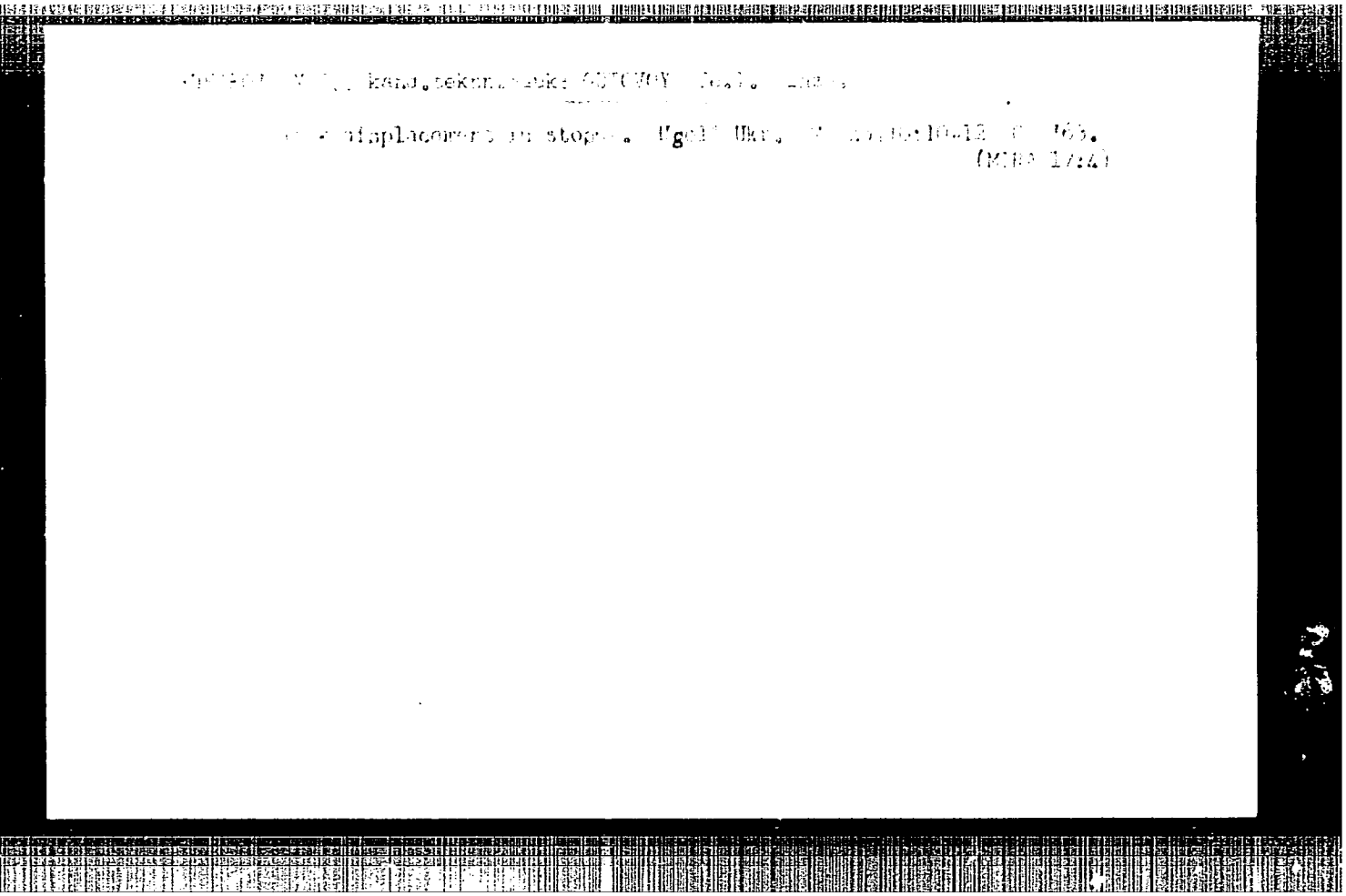
UTEYEV, A.F., polkovnik med.sluzhby; POLTORATSKIY, R.P., podpolkovnik med.sluzhby; GUTOVICH, S.P., vrach

Consequences of a closed trauma of the brain; a preliminary report. Sbor.nauch.trud.Kiev.okruzh.voen.gosp. no.4:357-360 '62. (MIRA 16:5)

(BRAIN--WOUNDS AND INJURIES)

GUTOVSKIY, Nikolay Nikolayevich; [illegible], A.S., prof., red.; PAVLIL'CHENKO, G.F., red.

[Comprehensive laboratory manual on the zoology of the vertebrates; anatomical part] Bol'shoi praktikum po zoologii pozvonochnykh; anatomicheskaia chast'. Moskva, Izd-vo Mosk. univ. Pt.2. no.2. 1964. 45 p.
(MIRA 18:8)



MEREZHINSKIY, M.F.; GUTOVSKAYA, A.V.

Dependence of the carbonic anhydrase activity in vissue on the quality of diet. Vop.pit. 16 no.1:65-69 Ja-F '57. (MLRA 10:3)

1. Iz kafedry biokhimii Minskogo meditsinskogo instituta.
(HYDRASES, metab.
carbonic anhydrase tissular activity, eff. of diet quality in guinea pigs & mice (Rus))
(DIETS, exper.
eff. of diet quality on tissular carbonic anhydrase activity in guinea pigs & mice (Rus))

GUTOVSKAYA, A.V.

ABRAMOVA, N.M.; ANISIMOVA, V.F.; GUTOVSKAYA, A.V.; KIBUAKOV, A.V.; URAZAYEVA, Z.V.

Role of dynamic cardiac nerves in the trophic regulation of the myocardium [with summary in English]. Biul.eksp.biol. i med. 44 no.7:50-54 Jl '57. (MIRA 10:12)

1. Iz kafedry normal'noy fiziologii (zav. - chlen-korrespondent AMN SSSR prof. A.V.Kibyakov) Kazanskogo gosudarstvennogomeditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR prof. S.Ye.Severinym.

(MYOCARDIUM, metabolism,
eff. of stimulation of autonomic innervation of heart (Rus))
(AUTONOMIC NERVOUS SYSTEM, physiology,
eff. of stimulation of dynamic nerves of heart on myocardial metab. (Rus))

ABRAMOVA, N.M., ANISIMOVA, V.F., GUTOVSKAYA, A.V., KIBYAKOV, A.V., URAZAYEVA, Z.V.

Trophic changes in the myocardium in chronotropic effect. Biul.eksp. biol. i med. 45 no.6:22-25 Je '58 (MIRA 11:8)

1. Iz kafedry normal'noy fiziologii (zav. - chlen-korrespondent AMN SSSR A.V. Kibyakov) Kazanskogo meditsinskogo instituta. Predstavlena deystvitel'nym chelnom AMN SSSR S.Ye. Severinym.

(HEART, physiology
eff. of rhythm changes, trophic aspects (Rus))

GUTOVSKAYA, A.V., Cand Biol Sci -- (diss) "~~Relation of the~~ Activity of carbon anhydrase ~~to~~ certain factors of ~~feeding~~ nutrition in the development of biochemical changes due to trauma." Kazan', 1959, 15 pp (Min of Agr USSR. Kazan' State Vet Inst im I.E. Bauman) 150 copies (KL, 26-59, 125)

GUTOVSKAYA, A. V., MEREZHINSKY, M. F., and ANISIMOVA, V. E.(USSR)

"Biochemical Aspects of Adaptation of the Animal Body."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

[illegible], V.I.; [illegible], N.G.; Vladimirova, L.F.; [illegible], A.V.

Data on biochemical studies on the administration of paranitrophenyl ester of dibutylphosphinic acid to experimental animals. Nauch. trudy Kaz. gos. med. inst. 14:77-78 '64. (MIRA 18:9)

1. Kafedra biokhimii (zav. - dotsent L.F.Vladimirova) Kazanskogo meditsinskogo instituta.

GUTOVSKAYA, M.S.

Rationalizers of the "Krasnogvardeets" Plant. Med.prom. no.4:12-13 O-D '55. (MIRA 9:12)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogvardeyets."
(DRUG INDUSTRY
in Russia, contributions to progress)

GUTOVSKAYA, Z. P.

Rapid Method for the Control of a Solid Case-Hardening Agent. Z. P. Gutovskaya. (*Zavod. Lapa Laboratoriya*, 1950, 16, (11), 1308–1309). [In Russian]. A brief account is given of a rapid method for the determination of carbon dioxide and moisture in solid case-hardening agents. — S. W.

GUTOVSKIY, B.P.

Grouping of shops in hardware plants. Prom. stroi. 40 no.7:14-16 '62. (MIRA 15:7)

1. Giprometiz.
(Factories—Design and construction) (Hardware)

YUKHVETS, Izrail' Abramovich; GUTOVSKIY, [illegible]

[Drawing] Volochil'noe proizvodstvo. Moskva, Metallurgiia. Pt.1. Izd.2., perer. 1965. 374 p. (MIRA 18:3)

1. Gosudarstvennyy institut po proyektirovaniyu metizykh zavodov (for Gutovskiy).

GORENSHTEYN, B.V., kand.tekhn.nauk; CHINENKOV, Yu.V., kand.tekhn.nauk; ABOVSKIY, V.P., inzh.; GUTOVSKIY, E.V., inzh.; NOVIKOV, V.S., inzh.; PESHKIN, I.G., inzh.

Use of long cylindrical precast prestressed concrete shells. Prom. stroi. 40 [i.e. 41] no.4:13-17 Ap '63. (MIRA 16:3)
(Roofs, Shell)

GUTOVSKIY, I. G.

USSR/Electricity - Conductors G-4

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12239

Author : Gutovskiy, I.G., Selisskiy, Ya.P.

Inst :

Title : Anomaly of Electric Resistance in the Fe_3Si Alloy.

Orig Pub : Fiz. metallov i metallovedeniye, 1956, 2, No 2, 375-376

Abstract : Measurement was made of the electric resistivity (R) of an alloy Fe_3Si at high temperatures (T) to determine the temperature region of the disordering of this alloy. As the critical temperature of ordering was approached, there should have appeared, in connection with the reduced degree of order, an additional resistance with a break on the R vs. T curve at the critical point. Measurements have shown a strictly linear course of the R vs. T curve up to 600°, where a sharp break in the curve was observed and a subsequent slight reduction in the electric resistivity as the temperature was increased to

Card 1/2

GUTOVSKIY, I. G.

20-2-18/50

AUTHOR: Gutovskiy, I. G.

TITLE: On the Theory of the Photoelectric Fluxmeter (K teorii fotoelektricheskogo flyuksmetra)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 2, pp. 229 - 231 (USSR)

ABSTRACT: On the basis of the methods of the theory of automatic control and by means of operation computation the present paper explains the most important bases of the theory of the fluxmeter and mentions a new method for the estimation of the operating accuracy of devices of the type of photoelectric compensators. The method is used instead of the method of frequency phase characteristics and is much more simple. All photoelectric fluxmeters can be represented by means of a block scheme. In principle, these devices do not differ from operation amplifiers, and apart from differences of constructional shape, they are of exactly the same nature. The fluxmeter is characterized by the following parts : 1.) A reflecting galvanometer, 2.) Photoelement bridge, 3.) Direct current amplifier, 4.) Differentiating part. The transmission function of these elements and the transmission function of the closed system are given. Also for the work function of a perfect integrator an expression is given.

Card 1/2

SOV/115-60-1-22/28

AUTHOR: Gutovskiy, I. G.

TITLE: Photoelectric Fluxmeters

PERIODICAL: Izmeritel'naya tekhnika, 1960, Nr 1, pp 54-59 (USSR)

ABSTRACT: The article contains general design information on different photoelectric fluxmeters recently developed in the USSR and other countries (USA, Britain, France, Japan, Germany). Comparisons are made between different designs. It is stated that a new Soviet-designed fluxmeter is at present under development /Ref. 3, A. N. Kasperovich and Ref. 19, S. G. Rabinovich and A. N. Tkachenko/. Soviet designs of Ye. I. Surikova, S. P. Kapitsa and R. R. Kharchenko are discussed. There are 4 diagrams, 1 set of graphs and 19 references, of which 9 are Soviet, 8 English, 1 Japanese and 1 German.

Card 1/1

3444

S/103/60/021/010/007/010
B012/B063

9,6000 (1012, 1024, 1099)

AUTHOR: Gutovskiy, I. G. (Moscow)

TITLE: The Problem of the Most Rational Selection of the Circuit of a Photoelectric Fluxmeter

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol. 21, No. 10, pp. 1401-1409

TEXT: The present paper deals with the theory of photoelectric fluxmeters which are integrating amplifiers with photoelectro-optic amplification. The author further develops the method described by him in Ref. 4, which is based on operational calculus (Ref. 5). The block diagram of the photoelectric fluxmeter agrees with the previously developed basic circuit diagram of integrating amplifiers (Ref. 6). The circuit diagram of an integrator with a derivative negative feedback connected in series is shown in Fig. 1. Most of the published circuit diagrams of photoelectric fluxmeters correspond to this integrator. The basic circuit diagram of such photoelectric fluxmeters is shown in Fig. 2. It is described in Refs. 3 and 7. Fig. 3 shows an integrating amplifier which

Card 1/3

The Problem of the Most Rational Selection of the Circuit of a Photoelectric Fluxmeter

is the prototype of the photoelectric fluxmeter without feedback, suggested by S. P. Kapitsa (Ref. 10). The circuit diagram shown in Fig. 2, which is usually supplemented by a positive feedback (Fig. 4), forms the basis of the present work. For the theory explained here the author assumes that all elements act directionally, and that there are no amplitude distortions and loads. He studies photoelectric fluxmeters without feedback, with a feedback connected in series, and the effect of disturbances and distortions. The conditions for stability in the most general case of a circuit with combined feedback were established according to Mikhaylov (Ref. 13). On the basis of the above-described theory the author draws the following conclusions. 1) A photoelectric fluxmeter with a derivative negative feedback connected in series is the simplest type, which is also sufficiently accurate and has the shortest response time. 2) The type with combined feedback, including a strong positive feedback, guarantees a considerable reduction of creep, but can be used only if the non-linear distortions in the amplifier circuit are sufficiently small. 3) In the theory of photoelectric fluxmeters it is advisable to employ besides frequency methods also the method in which the principal errors are expressed by integrals and derivatives of the initial quantity. This method

Card 2/3

81474

The Problem of the Most Rational Selection of the Circuit of a Photoelectric Fluxmeter

S/103/60/021/010/007/010
B012/B063

can be used to analyze the operation of the instrument, to calculate it, and to take into account the errors involved. It may be also used for analyzing the operation of other integrators. S. P. Kapitsa, R. R. Kharchenko, S. G. Rabinovich, and M. I. Levin are thanked for their assistance in the present work. There are 5 figures, 1 table, and 13 references: 11 Soviet, 1 US, and 1 Dutch.

SUBMITTED: March 10, 1960

Card 3/3

GUTOVSKIY, I.G.

Phototube bridge. Izm.tekh. no.4:30-34 '61. (MIRA 14:3)
(Bridge circuits)

GUTOVSKIY, M.V.; DEKATOV, V.N.

Designing the main electric networks for modern multimotor airplanes. Nauch. dokl. vys. shkoly; energ. no.2:39-44 '58. (MIRA 11:11)
(Electricity in aeronautics)

SOV/119-59-4-10/18

8(3)

AUTHORS: Gutovskiy, M. V., Engineer, Kamenskiy, A. V., Engineer

TITLE: Determination of the Characteristic Constants of Airplane Wiring for Alternating Current (Opredeleniye elektricheskikh parametrov samoletnykh provodov peremennogo toka)

PERIODICAL: Priborostroyeniye, 1959, Nr 4, pp 20-21 (USSR)

ABSTRACT: An analytical determination of the characteristic constants of a.c. wiring is rendered difficult by the influence of the airplane fuselage upon the active and the reactive resistance of the a.c. wiring. It is most expedient to add corrections to the values of the active and reactive resistances, which were derived under the assumption of an ideally conducting fuselage. These corrections should be determined by experiments with model airplanes. Such measurements can be carried out according to a bridge method, or even more accurately, by a compensation method. This article treats of compensation measurements which are a means of determining accurately the characteristic constants of a.c. mains and tap lines in an airplane. The measuring instrument was fed from an airplane generator

SGS-7,5 (voltage 120, frequency 400 cy) driven by an asynchronous motor. Ailerons with trims were taken as the structural element of the airplane. The wire under investigation had a length of 1 - 2 m, and its position with respect to the fuselage could be changed. The active and the reactive resistances of the wire were measured by comparing the voltage drop in the wire and in the metal fuselage of the airplane with the voltage drop at the control resistances. The authors carried out numerous measurements of the active and the reactive resistance of the airplane wires BPVL, both of single wires and of several (2 - 5) which were either connected in series or parallel. During these measurements the fuselage conducted a current or the neutral conductor was insulated. From the information gained by these experiments it can be readily seen that: 1) the active resistance r and the inductive resistance x of airplane wires is influenced by the type of fuselage, by the clearance between the wire and the fuselage and by the method of installation, either single, branched or

stranded. In the practical design of a.c. wiring in airplanes r and x must be computed according to the following formulas: $r = r_p + \Delta r$; $x = x_p + \Delta x$, where r_p and x_p denote the values of the active and the reactive resistances, respectively, of the wire computed under the assumption of an ideally conducting fuselage, and Δr and Δx the corrections to the active and reactive resistance, respectively, which are to be determined for each type of airplane according to the method discussed in this paper. There is 1 figure.

Card 3/3

PHASE I BOOK EXPLOITATION SOV/5887

Gutovskiy, Mikhail Vasil'yevich

Posobiye po proyektirovaniyu i raschetu elementov i sistem aviatsionnogo elektrooborudovaniya. vyp. 1: Samoletnyye elektroseti (Manual on the Designing and Calculation of Aircraft Electrical-Equipment Elements and Systems. no. 1: Aircraft Power-Supply Networks) Moscow, Oborongiz, 1961. 136 p. 6000 copies printed.

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

Ed. (Title page): Yu. A. Popov, Professor; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: A. Ya. Novik; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for students at aeronautical institutes and for engineers engaged in the field of aircraft electrical equipment and automatic devices.

Card 1/4

SOV/5887

Manual on the Designing (Cont.)

COVERAGE: The following problems connected with the designing of electrical equipment for airplanes are discussed: basic principles in the selection of the type of current and voltage; the method of transmission and distribution of electric power; and methods of calculating the heat generation and voltage loss in a-c and d-c electrical networks. The author thanks V. V. Andreyev and V. N. Bekatov, Candidates of Technical Sciences. There are 6 references, all Soviet.

TABLE OF CONTENTS:

Card 2/4

30874
S/143/61/000/004/001/005
D223/D301

26.2190

AUTHORS: Gutovskiy, M.V., Engineer, and Kamenskiy, A.V., Candidate of Technical Sciences, Docent

TITLE: On calculating short-circuit currents of 3-phase electrical systems in aircraft

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Energetyka, no. 4, 1961, 12 - 17

TEXT: For the design of an installation of 400 Kc/s the a.c. network analyzer must be used. Preliminary graphical and analytical work is given. The system has a neutral isolator. The short circuit may affect 2 or 3 phases with equal likelihood. As line impedance is negligible, all generators may be replaced by one. Suggestions are given for the evaluating, by a simplified method, the main parameters: Generator voltage, wire resistance, skin effect and inductance. The s.c. currents are calculated by the method of symmetrical components for all possible cases: ABC 3 phases s.c., AB, BC, CA, 2 phases s.c. AO, BO, CO 1 phase s.c. The influence

Card 1/2

S/143/61/000/008/001/005
D203/D305

AUTHOR: Gutovskiy, M.V., Engineer

TITLE: Temperature field of discharge of electric ignition systems

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, 4, no. 8, 1961, 37-46

TEXT: The author mentions a mathematical analysis by Ya. V. Zel'-dovich, who attempted to derive the dependence of the velocity re-action of an ignited mixture on temperature. The problem is limi-ted to determining a link between the quantity of heat Q_{min}, and δ, the width of the flame in the form

$$Q_{min} = \text{const}\gamma c(\tau_f - \tau_0)\delta^3 \quad (1)$$

Card 1/

20571
S/143/61/000/008/001/005
D203/D305

Temperature field of ...

$$\delta = \frac{\lambda}{\gamma c}\,\omega$$

where

ω being the velocity of the front of the flame. The author concludes from new investigations first that the flame is capable of spreading the energy of the heat, i.e. the energy of electrical discharge and the chemical energy of fuel are such that there is the required distribution of temperature in the spherical heat wave and second, that there is available a minimum time of existence of the initial ignition source. The requirements are: 1) That the output of heat of electrical discharge (the ratio between the generated and dissipated heat) must effectively ignite the mixture. 2) That it be sufficient and necessary for the electrical ignition of the fuel to raise the temperature τ^* of the volume v^* and to maintain this temperature during the time t^*, not less

Card 2/ 10

Temperature field of ...

than the time of induction [Abstractor's note: Time determined by time constant of circuit]. 3) That the igniting efficiency of the electrical discharge is finally determined by the characteristics of the temperature field $\tau(x,y,z,t)$. The form and size Φ, the energy Q, the frequency F of the temperature field are analyzed by the author and a general differential equation is derived by him based on Fourier's theory:

$$\gamma c \frac{d}{dt}\tau(x,y,z,t) = \operatorname{div}\left\{\lambda\left[\operatorname{grad}\tau(x,y,z,t)\right]\right\} + \Psi(x,y,z,t) \qquad (2)$$

The author states that this equation can only be solved for particular cases. A series of simplifications are assumed: 1) The parameters of the burning space do not depend on the coordinates, and are referred to a constant temperature τ_{β}^{*} equalizing the temperature in the process of heating. 2) The initial ignition is effected by the energy of electrical discharge; the distributed chemical energy of the initial source of inflammation is neglected.

Card 3/10

Temperature field of ...

3) That the electrical ignition of the static combustible space, embraces the fluid fuels. In this case Eq. (2) is written as

$$\frac{\partial}{\partial t}\tau(x,y,z,t) = a\left[\frac{\partial^2}{\partial x^2}\tau(x,y,z,t) + \frac{\partial^2}{\partial y^2}\tau(x,y,z,t) + \frac{\partial}{\partial z^2}\tau(x,y,z,t)\right] \quad (3)$$

where $a = \frac{\lambda}{\gamma c}$ - the coefficient of the heat transfer. The temperature field $\tau(x,y,z,t)$ of the single electrical discharge is first examined, and then the temperature field $\tau(x,y,z,t)$ for a series of electrical discharge. The author states that this problem cannot be solved analytically, and gives a graphical, analytical solution. The temperature field of the single discharge is found analytically and the field $\tau(x,y,z,t)$ of a series is found as a sum of the single discharges, located in the same space, but shifted in time on the value of the slit. In order to establish the temperature field of a given single electric discharge, the knowledge of the

Card 4/ 10

Temperature field of ....

parameters Q, γ, c, λ, a is required. The values of the fuel space parameters γ, c, λ, a are taken as constant and are referred to the mean temperature τ_b^* of the equalizing of warming. The latter values differ with the energy and should be taken separately. The author suggests the following method of consecutive approximations: 1) The partial equalizing temperature $\tau_B(k)$ is found for an isothermic surface of the k-th order (S_k = constant). The values of $\tau_B(k)$ are selected arbitrarily, and γ_k', c_k', λ_k' are calculated, and the function $\tau(t)$ is established as in Fig. 2. The surface S_k is limited by the curve $\tau(t)$ for $\rho = \rho k$ and the time interval Δt_k is then determined. The calculated equalizing temperature is found from

$$\tau_{B(k)} = \frac{S_k}{\Delta t_k} \qquad (28)$$

Card 5/10

Temperature field of ...

Should the calculated $\tau_B(k)$ not coincide with $\tau'_B(k)$ the whole calculation is repeated; 2) The equalizing temperature of the process τ^*_B is determined as a mean value from

$$t_B^* = \frac{1}{n} \sum_{k=1}^{n} \tau_{B(k)} \qquad (29)$$

A method of establishing the temperature field of discharge of electrical ignition systems is then examined. The analytical meaning of $\tau(x,y,z,t)$ of the single electric discharge is found; the final values of $\tau(x,y,z,t)$ for the single discharges can be taken from the author's paper (Ref. 4: O. temperaturnom pole electricheskogo razryada prednaznachennogo dlya vosplameneniya khimicheskikh topliv Tr. VVIA, 1959). 2) A nomogram of the temperature field of electric discharge is established for a given form and method of heat generation (Fig. 6). 3) The value of Q of the effective thermal energy

Card 6/ 10

28571
S/143/61/000/008/001/005
D203/D305

Temperature field of ...

is found for a single electric discharge, as by the author previously with V.I. Ivanov (Ref. 5: Kalorimetrirvaniye energii elektricheskogo razryada kak istochnika vosplamenenija maloinertsionnym preobrazovatelem. Izv. vuzov. SSR, Elektromekhanika, no. 3, 1959). 4) The equalizing temperature is found and reference is made to the thermo-physical parameters γ, c, λ, a of the fuel. 5) A family of curves $\tau(t)$ is established for Q=1 for some selected isothermic surfaces. 6) The temperature field of an electric system is found graphically by superposing values of τ(, y, z,t) of single discharges, referred to the common space but shifted in time on the value of the slit. There are 6 figures and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Morgan John David, Principles of ignition, London, 1944.

ASSOCIATION: Moskovskiy aviatsionny institut imeni S. Ordzhonikidze (Moscow Aviation Institute imeni S. Ordzhonikidze)

Card 7/ 10

20571
S/143/61/000/008/001/005
D203/D305

Temperature field of ...

PRESENTED: by the Kafedra aviatsionnogo elektroobonidovaniya (Department of Aircraft Electrical Equipment)

SUBMITTED: September 16, 1960

Card 8/10

PHASE I BOOK EXPLOITATION SOV/6015

Gutovskiy, Mikhail Vasil'yevich, and Vladislav Fedorovich Korshunov

Posobiye po proyektirovaniyu i raschetu elementov i sistem aviatsionnogo elektrooborudovaniya. vyp. 2: Silovyye elektromagnity i kontaktory (Manual for the Calculation and Design of Components and Systems of Aircraft Electric Equipment. v. 2: Power Electromagnets and Contactors) Moscow, Oborongiz, 1962. 164 p. Errata slip inserted. 3400 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy ordena Lenina aviatsionnyy institut im. Sergo Ordzhonikidze.

Ed. (Title page): Yu. A. Popov, Professor; Reviewers: V. V. Andreyev, Candidate of Technical Sciences, and A. V. Kamenskiy, Candidate of Technical Sciences; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: V. I. Oreshkina; Managing Ed.: A. S. Zaymovskaya, Engineer.

Card 1/

Manual for the Calculation (Cont.) SOV/6015

PURPOSE: This book is intended as a textbook for students at schools of higher technical education who are taking course and graduate project work, and may also be useful to engineers and technicians working in electroautomation and in the electromechanical field.

COVERAGE: Fundamentals are given for the calculation of magnetic systems, time parameters of electromagnets, magnetic-force systems of contactors, and thermal capacities of coils. Also included are recommendations for the optimum design of power electromagnets, descriptions of typical constructions of electromagnetic mechanisms, reference material on calculation and design, and some design examples. Attention is given to the outstanding features of electromagnetic devices, which play an important part in the process of automation of electric aircraft equipment. No personalities are mentioned. There are 13 references, all Soviet (including 1 translation from English).

TABLE OF CONTENTS [Abridged]:

Card 2/*

GUTOVSKIY, Mikhail Vasil'yevich; KORSHUNOV, Vladislav Fedorovich; ANDREYEV, V.V., kand. tekhn. nauk, retsenzent; KAMENSKIY, A.V., retsenzent; GRIGORASH, K.I., red.izd-va; ORESHKINA, V.I., tekhn. red.

[Manual on the calculation and design of aeronaticla electrical equipment components and systems] Posobie po proektirovaniiu i raschetu elementov i sistem aviatsionnogo elektrooborudovaniia. Pod red. IU.A.Popova. Moskva, Oborongiz. No.2. [Power electromagnets and contactors] Silovye elektromagnity i kontaktory. 1962. 164 p. (MIRA 15:7)

(Airplanes--Electric equipment)

GUTOVSKIY, M.V., kand.tekhn.nauk

Designing main electric circuits of an airplane considering parallel performance of generators. Trudy MAI no.145:19-40 '62. (MIRA 15:9)

(Airplanes--Electric equipment)

40592

S/535/62/000/145/001/002
IG11/I211

26.2152

AUTHORS: Gutovskiy, M. V., Candidate of Technical Sciences, and Popov, Yu. A., Professor

TITLE: Frequency discharge repetition in electric ignition systems

SOURCE: Moscow. Aviatsionnyy institut. Trudy, no. 145, 1962. Voprosy elektroavtomatiki i elektrooborudovaniya samoleta, 60-77

TEXT: The duration of the discharge is neglected and thus the charging time alone must be calculated to find the discharge repetition rate. Two types of charging circuits are analyzed. In both of them the discharge gap is connected across the operating capacitor which is charged by the secondary of a transformer through a half-cycle rectifier. The primary of the transformer is fed by a chopped d.c. voltage in the first type and by an a. c. voltage in the second. The circuit of the first type is analyzed by a linear differential equation, and it is shown that the charging time is contained implicitly in the equation derived. For practical purposes a calculation based on energy relations is suggested. An equation for the charging time is derived, assuming equal capacitor energy increments in each charging pulse. This equation is used in a numerical example. The charging time in the circuit of the second type is calculated by the method of S.S. Khukhrikov [Priblizhennyy chislennyy metod rascheta perekhodnykh protsessov v lineynykh i neulineynykh sistemakh (an approximate

Card 1/2

numerical method for the calculation of transients in linear and nonlinear systems). Trudy MAI, number 66, 1956]. This is based on the equation

$$x[(m+1)\tau] = (-1)^m \frac{1}{m!\tau^{m+1}} \left[\frac{d^m X_{(p)}}{d_p{}^m} \right]_{p=1/\tau} \tag{31}$$

where $X(p)$ is the transform of $x(t)$ and p is the transform operator. Thus the nonlinearities of the transformer iron core and rectifier can be accounted for when using the recurrent formulas that are derived. A numerical example where the nonlinear characteristics are given graphically is solved. The possibility of a graph-analytic solution is shown. Results after 45 applications of the recurrent formulas are plotted. The case of a full cycle bridge rectifier is dealt with. The methods discussed enable one to find more accurately the discharge repetition rate in the two circuits. There are 7 figures.

Card 2/2

IVANOV, V.I., kand. tekhn. nauk; GUTOVSKIY, M.V., kand. tekhn. nauk

Integrating differential capacitive transducer. Izv. vys. ucheb. zav.; energ. 7 no.2:30-36 F '64. (MIRA 17:3)

1. Moskovskiy ordena Lenina aviatsionnyy institut.

USSR/Zooparasitology - Parasitic Worms. G

Abs Jour : Ref Zhur Biol., No 1, 1959, 1013

Author : Gutovskiy, V.I.

Inst : Kazakh Scientific Research Veterinary Institute

Title : Dynamics of Infection of Sheep with Helminthiasis in Northern Kazakhstan Region

Orig Pub : Tr. Kazakhsk., n.-i. vet. in-ta, 1957, 9, 502-509

Abstract : No abstract.

Card 1/1

GUTOVSKIY, V.I.

Effectiveness of the vermifuge treatment of dogs. Veterinariia 42 no.9:44-45 S '65. (MIRA 18:11)

1. Glavnyy veterinarnyy vrach TSelinnogo krayevogo upravleniya sel'skogo khozyaystva.

GUTOVSKIY, V.N., inzhener.

Modernizing the 100-35 dredging pump. Mekh.stroi. 14 no.3:26-27 Mr '57. (MLRA 10:4)
(Dredging machinery)

30(1) SOV/98-59-9-5/29

AUTHOR: Gutovskiy, V.N., Engineer

TITLE: New Equipment for Clearing Forests in Large Reservoir Innundation Areas

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 9, pp 12-17 (USSR)

ABSTRACT: To solve the problem of cutting and removal of trees in the future Nizhneobskaya (Lower Ob') GES reservoir which will comprise a total of 8,741,000 hectares, including 3,344,000 hectares of forests (Tab 1), the "Gidroproyekt" Institute which is preparing the project for this power plant, in cooperation with the "Giproles-prom" Institute has designed a machine for cutting trees (Fig 1 and 2) named the "PLK-2" floating logging combine. The designed combine consists of a pontoon with a movable head part for cutting trees under water surface at a depth up to 8 m under the pontoon bottom. To ensure the cutting as low as possible, position of the head part is controlled by the

Card 1/3

New Equipment for Clearing Forests in Large Reservoir Innundation Areas

"Ekholograf" (a sounding device). The combine has a capacity of 170 cu m/8 hr, a total length of 80 m, it is 7 m high (from the bottom of the pontoon to the deck) including 1 m draught and has a width of 20 m which is at the same time, the width of the head part and forest clearing track, respectively. The combine has 8 parallel processing sets which start at the head part by 8 chain saws, each installed between a pair of wedge-shaped tools (which controls approach of trees to the saws). After cutting, a tree is further transported by a system of screw- and rolling conveyors to the deck to be further disintegrated: lumbers are sorted and bunched by a "TsNIILesosplav" mechanism to be used in the cellulose industry and branches and tops are used as fuel in a 3,000-kw thermal power plant type "DKVr-10-39-440" which supplies power to the combine. The combine is designed to be limitedly self-propelled (during the operation process) but

New Equipment for Clearing Forests in Large Reservoir Innundation Areas

has to be towed when it changes place of operation. In the "Gidroproyekt" a model processing set was made, equipped with a TsNIIME K-5 electric chain saw, and coordination of operation was checked. There are 2 tables and 2 diagrams.

Card 3/3

SHKUNDIN, Boris Markovich; GUTOVSKIY, V.N., red.; BORUNOV, N.I., tekhn.red.

[Suction dredges] Zemlesosy i zemlesosnye snariady. Moskva, Gos.energ.izd-vo, 1961. 335 p. (MIRA 14:6)
(Dredging machinery)

GUTOVSKIY, Vladimir Nikolayevich; DANOVSKIY, N.F., nauchnyy red.; IVANOV, S.M., red.; SAVCHENKO, Ye.V., tekhn.red.

[Improving technological production processes] Sovershenstvovanie tekhnologii proizvodstva. Moskva, Izd-vo "Znanie," 1961. 38 p. (Narodnyi universitet kul'tury: Tekhniko-ekonomicheskii fakul'tet, no.11). (MIRA 14:12)

(Industry--Technological innovations)

GUTOVSKIY, Vladimir Nikolayevich; LANINA, L.I., red.; RAKITIN, I.T., tekhn. red.

[Contribution of science to power engineering]Nauka - energetike. Moskva, Izd-vo "Znanie," 1962. 38 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.23) (MIRA 15:12)

(Power engineering) (Electric power production)

GUTOVSKIY, Vladimir Nikolayevich; MOSKATOV, Karl Arnol'dovich, kand.tekhn.nauk; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Allies and rivals of metals] Soiuzniki i soperniki metallov. Moskva, Izd-vo "Znanie," 1963. 46 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.10) (MIRA 16:7)
(Metals, Substitutes for)

YUFIN , A.P., red.; GUTOVSKIY, V.N., red.; BAREKYAN, A.Sh., red.; FRIDKIN, L.M., tekhn. red.

[Motion of alluvium and hydraulic transport] Dvizhenie nanosov i gidravlicheskii transport. Moskva, Gosenergoizdat, 1963. 197 p. (MIRA 16:7)
(Silt) (Hydraulic conveying)

GUTOVSKIY, Ye. V.

GUTOVSKIY, Ye. V.: "Investigation of the agitating hydrodynamic force acting on the buckets of the working wheel of an axial hydraulic turbine". Leningrad, 1955. Min Higher Education USSR. Leningrad Polytechnic Inst imeni M. I. Kalinin. (Dissertations for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

SOV/124-58-8-9028

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 103 (USSR)

AUTHOR: Gutovskiy, Ye.V.

TITLE: A Particular Case of Using Electrical Methods to Measure the Static Pressure in a Stationary Liquid Flow (Chastnyy sluchay izmereniya elektricheskimi metodami staticheskogo davleniya v statsionarnom potoke zhidkosti)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1956, Nr 187, pp 36-43

ABSTRACT: The author describes briefly the design of a sensor element intended for measuring electrically the static pressures in a flow of water, and he gives a short account of experimental investigations that have been made of the working of this element. A small-size induction-type pressure transducer is installed either in a chamber built especially for it or directly in the inlet section of the sensor element, the latter being constructed in the form of a lens-shaped capsule. The sensor element is able to travel rapidly within the flow along a path that will keep the principal plane of its capsule approximately parallel to the direction of the flow velocity at any point on the path. The sensor element with the pressure transducer carried

Card 1/2

A Particular Case of Using Electrical Methods (cont.)

directly in its capsule is free of inertia, but inasmuch as it has in its measuring bridge only one magnetic system it is not able to compensate for changes in temperature. The presence in the sensor's intake portion of a column of water extending up to the pressure-transducer membrane introduces an element of inertia, and thereby increases the error in measurements made at elevated flow velocities. The author states that at the Hydraulic-machinery Laboratory of the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnic Institute) a sensor element equipped with an induction-type pressure transducer has been used to measure the static-pressure field in a stationary flow.

N.A. Preobrazhenskiy

GUTOVSKIY, Ye.V.

Turbulent hydrodynamic forces acting on the blades of axial hydraulic turbines. Trudy LPI no.193:24-37 '58. (MIRA 12:2)

(Hydraulic turbines--Blades)

[redacted]

Analyzing transient processes in axial-flow hydraulic turbines by static characteristics. Trudy LPI no.215:82-100 '61.
(MIRA 14:11)

(Hydraulic turbines)

GUTOVSKIY, Ye.V., kand. tekhn. nauk, dotsent

Calculation of the change in the number of rotations of the rotor of a hydraulic turbine-generator unit. Energomashinostroenie 9 no.3:6-9 Mr'63. (MIRA 17:5)

GUTOVSKIY, Ye.V., kand. tekhn. nauk, dotsent

Calculation of hydraulic axial force acting on the rotor of a hydraulic unit in nonsteady operation. Energomashinostroenie 10 no.4:12-14 Ap '64. (MIRA 17:6)

ETINBERG, I.E.; GUTOVSKIY, Ye.V., kand. tekhn. nauk, retsenzent;
EDEL', Yu.U., doktor tekhn. nauk, red.

[Theory and design of the blading of adjustable-blade hydraulic turbines] Teoriia i raschet protochnoi chasti povorotnolopastnykh gidroturbin. Moskva, Mashinostroenie, 1965. 349 p. (MIRA 18:5)

GUTOVSKIY, Ye.V.; LAMM, V.Yu.; LAMM, T.M.

Nomogram for calculating relative pressure changes in transient processes in hydraulic turbines. Trudy LPI no.246:13-17 '65. (MIRA 18:6)

[redacted], Ye.V.

Analysis of the control modes of hydraulic turbines. Trudy LPI no.246:18-24 '65. (MIRA 18:6)

GUTOWIEC, Aleksy

Universal weld gauge. Przegl spaw 15 no. 7:162 Jl '63.

1. Krajowe Zaklady Konstrukcji Stalowych, Starosielce.

GUTOWSKA-GRZEGORCZYK, Grazyna; KALCZAK, Miroslaw

A case of Weber-Christian syndrome with articular manifestations in an 8-year-old girl. Reumatologia (Warsz.) 3 no.3:303-305 '65.

1. Z Kliniki Pediatrii Studium Doskonalenia Lekarzy AM i Instytutu Reumatologicznego w Warszawie (Kierownik: prof. dr. med. E. Wilkoszewski) i z Zakladu Anatomii Patologicznej Instytutu Reumatologicznego w Warszawie (Kierownik: doc. dr. med. E. Maldyk; Dyrektor Instytutu Reumatologicznego: dr. med. W. Brühl).

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Group of physiology of subsection of veterinary medicine of I. scientific congress in Poland. Med. wet. 6 no.11:699-701 Nov 50. (CLML 20:6)