GRIGOR'YEVICH, Vasiliy Prokhorovich, doktor tekhn. nauk, prof.;

KARLOV, G.I., kand. tekhn. nauk, retsenzent; TOKAR', V.M.,

red.izd-va; GARNUKHINA, L.A., tekhn. red.

[Effect of the procedure for joining sheet-metal parts on their strength and durability] Vliianie tekhnologii vypolneniia soedinenii listovykh detalei na ikh prochnost' i vynoslivost'. Moskva, Oborongiz, 1963. 207 p. (MIRA 16:5) (Machine shop practice)

AID P - 1160

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 13/31

Author

Grigor'yevskiy, I. I., Foreman

Title

Prevention against damage of reflector lamps

Periodical

Energetik, 11, 21-22, N 1954

Abstract

The author briefly describes the arrangement to prevent damage to lamps in an installation for drying bakelite

insulation on generator sheet steel. One drawing.

Institution:

None

Submitted : No date

ORIGOR YEVSELY, V.M.; NANDEL', O.Ye.

Observations of the lunar eclipse of March 24, 1959. Astron.
tsir. no.201:6-7 Ap '59. (NIRA 13:2)

1.Odesskaya astronomicheskaya observatoriya.
(Eclipses, Innar--1959)

YAKUBTSINER, N.M., kandidat teknicheskikh nauk; GRIGOR'YEYTKH, G.F., inzhener.

Effectiveness of sinter cooling in a pot cooler. Metallurg no.11:24 N '56.

1. Starshiy nauchnyy sotrhudnik Leningradskogo politekhnicheskego instituta(for Takubtsiner) .2. Nachal'nik aglomeratsionnogo tsekha Cherepovetskogo metallurgicheskogo zavoda (for Origor'yesykh)

(Cherepovets—Sintering)

SOV/130-58-6-4/20

AUTHORS: Levin, L.Ya., Yakubtsiner, N.M., Sholeninov, V.M. and

.Grigor yevykh, G.F.

Use of Pyrite Cinders in the Production of High-basicity Fluxed Sinter (Primeneniye piritnykh ogarkov v proizvodstve TITLE:

oflyusovannogo aglorerata povyshenroy osnovnosti)

PERIODICAL: Metallurg, 1958, Nr 6, pp 5 - 10 (USSR).

ABSTRACT: A shortage of concentrates at the Cherepovets' Metallurgical Works led to the use from the end of 1956 of pyrite cinder. Memioning this, the authors go on to describe the development of sintering methods enabling a high proportion of this material to be used in the production of sinter with a basicity range of 1 - 1.2. The sinter plant at the works has three 75 m² machines and sinters a relatively high SiO₂ mix (Table 1). The pyrite cinders available from the Dorogomilovsk and Shchel'kovsk Works contain 0.3-0.4% Cu and 0.35-0.45% Zn, the sulphur content of both varying widely. Because of the paucity of published data and lack of experience in the USSR, on the sintering of pyrite cinders, experiments were first carried out on a 0.11 m2 sinter box (Figure 2) with the participation of P.T. Krasavina, A.S. Bulatnikova and A.G. Zelitser. Card 1/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

SOV/130-58-6-4/20 Use of Pyrite Cinders in the Production of High-basicity Fluxed Sinter

Coke and limestone were 3-0 mm, cinders, concentrates and flue-dust were screened through a 5 mm screen and returns were 12-0 mm. The results showed (Figure 3) that with a mix containing 10-30% cinders accurate control of carbon (to 4.5 and 3.5-4.0% in the box and on the full scale, respectively), was obtained. A further series of tests were made with mixes containing 33% cinder showing sinter sulphur increasing with increasing CaO-content, but this effect could be minimized by raising the carbon content of the mix. Sintering speed increased as the basicity was raised to 0.8 but was unaffected by further increases. With increasing returns, from 25 to 35% sintering rate, permeability and sinter strength increased and sulphur decreased (Figure 5). Tests with 0-40% cinders in the ore part of the mix showed that a satisfactory sinter was obtained with 20-25% cinder without appreciable slowing of sintering. Bed depths of 200, 225, 250 and 275 mm were tested (Figure 7) with 25% cinders and a basicity of 1.2: maximal sulphur was obtained with the shallowest bed, the best de-sulphurization being obtained with a bed depth of

use of Pyrite Cinders in the Production of High-basicity Fluxed

225 mm, while sintering speed decreased when the depth exceeded 250 mm. The authors' conclusion is that 250 mm is the optimal bed depth. Results of full-scale experiments (Figure 8) at the Cherepovets' Works on the whole confirmed the box experiments. The main conditions for maximal desulphurization during sintering were found to be: bcd-depth 240-250 mm instead of 275, carbon content of the mix 4.5 - 4.8 instead of 3.5-4% (with 20-25% cinders); good permeability, secured by 30-35% returns and an artificial hearth layer. The lower iron content of the sinter with cinders was found to have no effect on the coke rate (700 kg/t pig) or the coefficient of utilisation of useful volume (0.73). There

ASSOCIATION: Cherepovetskiy metallurgicheskiy zavod (Cherepovets Metallurgical Works) and Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute)

Card 3/3

1. Sintering furnaces - Equipment

2. Pyrites - Applications

3. Sintering furnaces - Operation

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

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SOV/133-60-3-1/24

AUTHORS:

Yakubtsiner, N. M., Nevmerzhitskiy, Ye. V.,

Grigor'yevykh, G. F.

TITLE:

The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

PERIODICAL:

Stal', 1960, Nr 3, pp 193-203 (USSR)

ABSTRACT:

This is a description of a successful production of

increased basicity sinter at the Cherepovets Metallurgical Plant(Cherepovetskiy metallurgicheskiy zavod). The

described sintering plant is equipped with 3 sintering machines which were put into operation in June 1955 and April and December 1956, respectively (see Fig. 1). In the first few months the plant produced nonfluxed sinter, or sinter with the degree of basicity (CaO: SiO2) not higher than 0.5; but since the end of

1955 the plant has been producing sinter of 1.15-1.20 basicity. Working on such sinter, the plant's blast furnaces had better results (regarding coke consumption)

Card 1/6

The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

78176 **SO**7/133-60-3-1/24

than other furnaces in the USSR. Described are: characteristics of raw materials and their preparation for sintering; Olenogorsk (not identified) beneficiated ore; pyrite cinders; limestone; coke fines and other admixtures, as well as the work of sintering plant and the quality of sinter; operation of the equipment and technical-economical characteristics of the sintering plant work. The cost of sinter, considerably lowered since 1956, (125-127 rubles/ton) and processing (about 15 rubles/ton) is still expensive compared with Southern plants (48-55 rubles/ton for sintering; 8-10 rubles for processing. This is explained by: (a) higher cost of Olenogorsk beneficiated ore (107 rubles/ton) as against that of Krivoy Rog beneficiated ore (30 rubles/ton); (b) high power cost due to unfinished construction of the plant and overequipment of sintering plant with electrical machinery; (c) expensive repairs of new equipment (ring type coolers of sinter, conveying of sinter into blast furnace shop, etc.) and purchase

Card 2/6

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

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CIA-RDP86-00513R00051681

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of rolled shapes from the outside. Proposed measures for lowering the cont of sinter are: (1) decreasing power consumption by eliminating excess power electrical motors, introducing automation, reducing idle time to a minimum; (*) improving quality of repairs, with corresponding extension of time between repairs; (5) prolonging the life of marts by making them from manganese steed (good matter) and heat resisting east from (fire grates, etc.), applying heat treatment, etc.; (4) increasing the amount of relatively cheap scale in the charge; (5) increasing sinter production and the productivity or labor by 1-1/6. The above measures will lower the roll of linter (3.5-4 rubles/ton) and therepovets count from (7-5 cubles/ton).

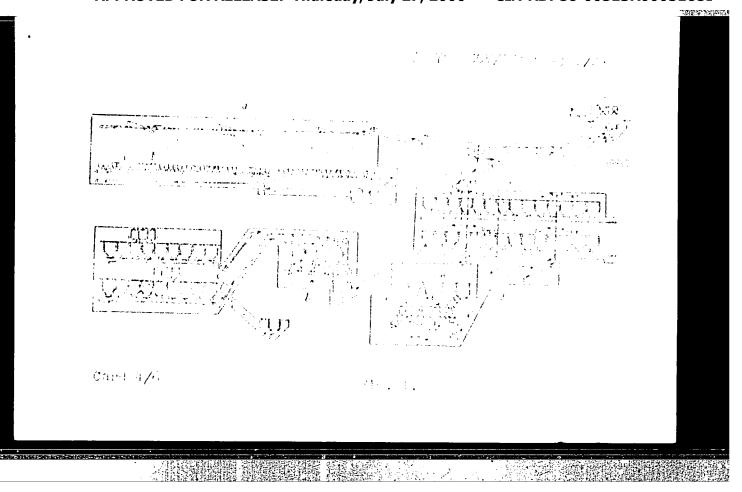
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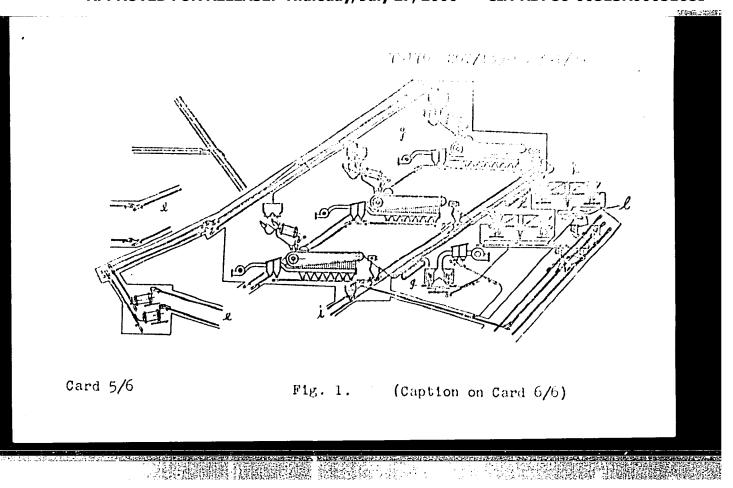
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Card 5/6

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

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"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

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The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

78176 SOV/135-60-3-1/24

Fig. 1. Schematic diagram of equipment at the Cherepovets sintering plant. (a) Ground type, roofed storehouse of beneficiated ore; (b) coke crushing building; (c) conveyors into charge building; (d) limestone crushing building; (e) conveyors into sintering building; (f) car dumper; (g) sintering building; (h) three-ring type sinter coolers (the third cooler is equipped with cooling blower and battery cyclones); (i) conveyors into primary mixing building; (f) conveyors from coke crushing building; (k) charge building; (l) plate transporters.

Card 6/6

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

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TREKALO, S.K.; YAKURTSINER, N.M.; ANDRONOV, V.N.; GRIGOR'YEVYKH, G.F.;
KAYLOV, V.D.; SHUR, A.B.; v rabote prinimali uchastiye:
NEVMERZHITSKIY, Ye.V.; SHOLENINOV, V.M.; VITOVSKIY, V.M.;
GRINBERG, D.L.; GUTMAN, E.Ye.; YEGOROV, N.D.

Open-hearth furnace operations with classified sinter. Stal' 20 no. 12:1063-1070 D '60. (MIRA 13:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Cherepovetskiy metallyrgicheskiy zavod.

(Blast furnaces) (Sintering)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

L 1311-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) LJP(c) JD/JG ACCESSION NR: AR5014397 UR/0058/65/000/004 SOURCE: Ref. zh. Fizika, Abs. 4D242	
AUTHOR: Ignat'yeva, M. I.; Melik-Gaykazyan, I. Ya.; Grigoruk, L. V TITLE: Effect of lead impurity on the concentration of F-centers i phosphor crystals 91,74,45 CITED SOURCE: Sb. Spektroskopiya. M., Nauka, 1964, 176-178	#4,55 alkali halide
TOPIC TAGS: crystal phosphor, color center, alkali halide, sodium opotassium chloride, potassium bromide	1
TRANSLATION: The authors study the effect of Pb-content on the number (n_F) in NaCl-Pb, KCl-Pb and KBr-Pb crystal phosphors. The Pb-content termined which corresponds to the maximum number of F -centers. The in n_F as the activator concentration is increased is d s to embedding purity into the fundamental lattice structure at conce trations less which increases the concentration of V - and then F -centers. The reduced absorption with a further increase in Pb-content is associated	max) is de- initial growth g of the im- than C
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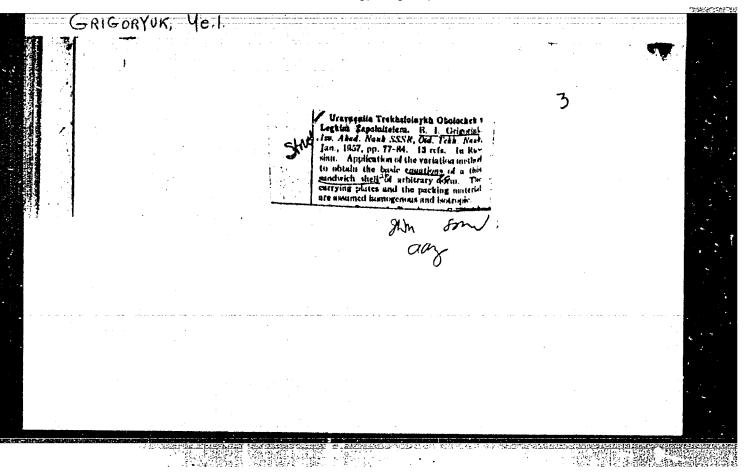
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GRICORYUK, V.F.

Business accounting by shifts in the railroad stations. Zhel. dor. transp. 45 no.11:72-73 N '63. (MIRA16:12)

1. Starshiy normirovshchik st. Belogorsk Zabaykal'skoy dorogi.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(



CHEL'TSOVA, M.A.; PETROV, A.D.; GRIGOS, V.I.

Synthesis and properties of di- and triphenyl alkanes. Report No.4: Selective hydrogenation of di- and triphenyl alkanes over PtO₂. Isv. AN SSSR. Otd. khim. nauk no.2:294-301 F '61. (MIRA 14:2)

1. Institut organicheskoy khimii im.N.D.Zelinskogo AN SSSR. (Hydrogenation) (Platinum oxide)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

POVAROV, L.S.; GRIGOS, V.I.; MIKHAYLOV, B.M.

· 生活性學學學學 · 中央教育主持教育 · 中央社会

Reactions of benzylideneaniline with some unsaturated compounds. Izv. AN SSSR. Ser. khim. no.11:2039-2041 N *63. (MIRA 17:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

POVAROV, L.S.; GRIGOS, V.I.; KARAKHANOV, R.A.; MIKHAYLOV, B.M.

Reactions of dihydropyran and 2-methyldihydrofuran with some Schiff bases. Izv.AN SSSR. Ser.khim. no.1:179-181 Ja '64.

(MIRA 17:4)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

MIKHAYLOV, B.M.; FOVAROV, L.S.; GRIGOS, V.I.; KARAKHANOV, R.A.

Reactions of dihydrosylvan with Schiff bases. Izv. AN SSSR. Ser. khim. no.9:1693-1695 S 164. (MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

SHAPIRO, A.B.; ROZANTSEV, E.G.; POVAROV, L.S.; GRIGOS, V.I.

New stable free radical 4-methyl-2-spirocyclohexyl-3,4; 3',2'-tetrahydrofurano-1,2,3,4-tetrahydroquinoline-oxyl. Izv.AN SSSR.

Ser.khim. no.9:1725 S '64. (MIRA 17:10)

1. Institut khimicheskoy fiziki AN SSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

FOVAROV, L.S.; GRIGOS, V.1.; KARAKHANOV, R.A.: MIKHAYLOV, B.M.

Reactions of halogen-containing Schiff's bases with unsaturated ethers. Izv. AN SSSR Ser. khim. no.2:365-367 '65.

(MIRA 18:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

EWT(m)/EPF(c)/EWP(j) ACCESSION NR: AP5017964 UR/0062/65/000/006/1102/1104 547.831+547.024 AUTHOR: Shapiro, A. B.; Rozantsev, E. G.; Povarov, L. S.; Grigos, V. I. TITLE: Paramagnetic derivatives in the hydrogenated quinoline series SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 6, 1965, 1102-1104 TOPIC TAGS: quinoline derivative, free radical spectrum electron spin resonance, ESR ABSTRACT: The following stable radical from the hydrogenated quinoline series was obtained for the first time: 6-methoxy-4-methy1-2-spirocyclohexy1-3,4; 3',2'tetrahydrofuran-1,2,3,4-tetrahydroquinolin-1-oxyl (IV). It was synthesized by catalytic oxidation of the corresponding amine (II): 11,01 (1) R = 11Card (111) 表定日 1/3 (II) R = OCH, (IV) R = OCH,

L 59597-65 ACCESSION NR: AP5017964

The hyperfine structure of the ESR spectrum of this radical consists of 6 lines. Such a decrease in the number of lines upon replacement of hydrogen in the para-position by a methoxy group agrees with modern concepts of the interaction of an unpaired electron with protons of the benzene ring. Radical (III) was reduced to the initial amine and to the corresponding hydroxylamine (V):

The synthetic procedure employed is described. "In conclusion, the authors express their appreciation to A. A. Medzhidov for participating in the evaluation of the spectroscopic part of this work." Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR); Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR)

Card 2/3

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POVAROV, L S.; GRIGGE, V.I.; CHECTAROVSKIY, C.M.; INKHATION, B.M.

Reactions of anils with vinylbatyl sulfide. Inv. AN SSCR.Ser.khim. no.10:1891-1893 *65. (MIRA 18:10)

1. Institut organicheskov khimii im. N.D.Zelinskogo AN SSCR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

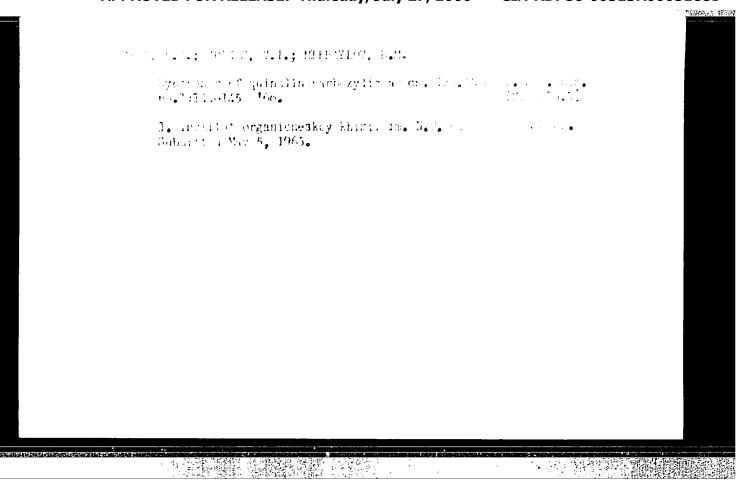
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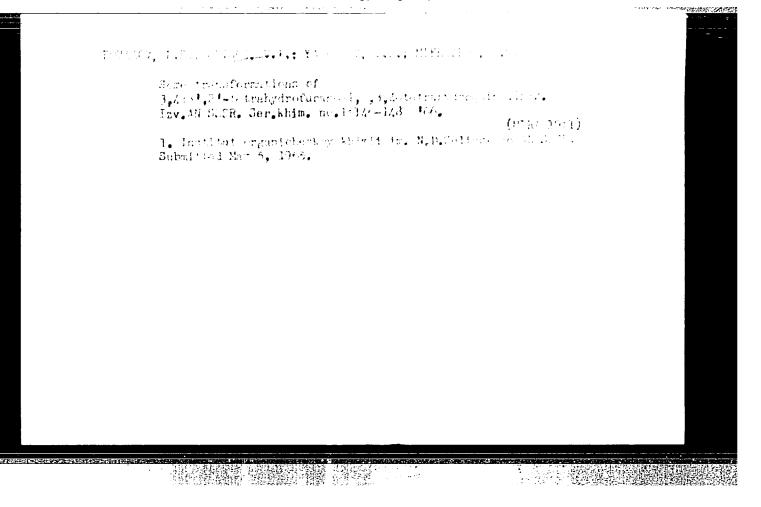
GRIGOS, V.I.; POVAROV, L.S.; MIKHAYLOV, B.M.

Reactions of Shiff bases with vinyl alkyl ethers. Izv. AN SSSR. Ser.khim. no.12:2163-2172 65.

(MIRA 18:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Submitted July 7, 1965.





GRIGOVICH, I.N.

Use of Noble's operation. Khirurgiia 40 no.3:70-74 Mr '64. (MIRA 17:9)

1. Kafedra obshchey khirurgii (zav.- doktor med. nauk F.M. Danovich) Petrozavodskogo universiteta i Kandalakshskaya gorodskaya bol'nitsa (glavnyy vrach L.P. Mutovina).

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Open dislocation of the hip joint in a child. Vest. Anir. 92
no.6:93 Je '64. (MRA 18:5

1. Iz khirurgicheskogo otdeleniya (zav. - N.B. Manetina) zheleznodorozhnoy bol'nitsy (nachal'nik - M.D. Vishnevskaya) st. Petrozavodsk.
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APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

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KOBO, Khuan [Blasco Cobo, Juan]; GRIGULEVICH, I.R., kand. ist. nauk, red.; BOENEVA, N.P., red.; RAKITH; I.T., tekhn. red.

[Our friend Cuba] Drug nash Kuba. Pod nauchn. red.
I.R.Grigulevicha. Moskva, Izd-vo "Znanie," 1963. 47 p.
(Novoe v zhizni, nauke, tekhnike. XII Seriia: Geologiia
i geografiia, no.22) (MIRA 17:1)

"Indeytsy Latinskoy Ameriki i ikh rol'v natsional'no-esvebelitel'noy bor'te."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CI

CIA-RDP86-00513R00051681

GONIONSKIY, S.A., otv. red.; CRIGULEVICH, I.R., red.; YEFIMOV, A.V., red.; GORNOV, M.F., red.; RUDENKO, V.T., red.

[Chile; its politics, economy, culture] Chili; politika, ekonomika, kul'tura. Moskva, Nauka, 1965. 353 p.
(MIRA 18:9)
1. Akademiya nauk SSSR. Institut Latinskoy Ameriki.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

CAMPINITY ON U

Category : USSR / Radio Physics. Concration and Conversion of

I-4

Radio-Frequency Oscillations

Abs Jour : Pof Jour - Fizika No 3, 1957, No 7272

Author : Grigulovich, V.I.

Title : Now Method for Frequency Multiplication and Quartz Crystal Sta-

bilization of Short and Unit Waves

: Elektrosvyaz', 1956, .io 6, 14-18 Orig Pub

Abstract : Description of a frequency-multiplication method, based on the use of the spectrum of periodically-discontinuous oscillations,

Unlike radio pulses obtained by modulation, the processes contra ring during intermittent oscillation is under certain conditions periodic for any ratio of Prequency and ..., where is the selfexcitation frequency of the generator and, the frequency of the control voltage that interrupts periodically the oscillations of the generator. If k = 2, the amplitude of the component k = 1independent of the number k of the harmonic (the maximum of the spectral function shifts relative to). The multiplicity factor

is varied over a wide range by the retuning of the generator of frequency . A multiplication circuit is shown and described for

Card : 1/2 - 21 -

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

Category: USSR / Radio Physics. Generation and Conversion of Radio-Frequency Oscillations

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Abs Jour : Ref Zhur - Fizika Mo 3, 1957, Mo 7272

a short-wave multi-channel quartz-crystal system. Similar circuits can be recommended for use all the way to the decimeter band. See also Referat Zhurnal Fizika, 1954, 1821.

- 22 -

Card : 2/2

9(9) APPRQVED FOR:RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051

TITLE:

The Problem of the Fluctuational Character of Steady-State Oscillations in an Electronic Magnetron Oscillator (K voprosu o flyuktuatsionnom kharaktere ustanovleniya kolebaniy v elektronnom avtogeneratore)

PERIODICAL:

Izvestiya vyschikh uchebnykh zavedeniy - radiotekhnika, 1959, Vol 2, Nr 1, pp 65-70 (USSR)

ABSTRACT:

The author investigates the general case of a statistical oscillation build-up process in a self-oscillator in the presence of external excitation and transient switching processes. The presence of the latter reduces the oscillation build-up time in a self-oscillator and decreases its dispersion which increases the threshold possibilities of pulsed systems from the point of view of minimum pulse duration and internal noise. The author shows that the reduction of build-up time

Card 1/3

The Problem of the Fluctuational Character of Steady-State Oscillations in an Electronic Magnetron Oscillator

$$\ddot{c}(f_0) = \frac{c}{2} + \frac{1}{2} \ln h^2 - \frac{1}{2} \text{ Ei } (-h^2)$$

and the magnitude of its dispersion do not depend on the dynamic forces of a system, but are determined by the excitation-to-fluctuation ratio

$$h^2 = \frac{s^2}{2a^2}$$

and the regenerated circuit time constant. The statistical characteristics of the build-up time may be used for determining the spectrums of signals and noises. Further, they may be used for calculating spectrum generators, superregenerators, pulse-modulated radio lines and similar systems. The author expresses his gratitude to Doctor of Physico-Mathematical Sciences. Professor M.D.

Card 2/3

The Problem of the Fluctuational Character of Steady-State Oscillations in an Electronic Magnetron Oscillator

Khaskird for valuable advice, and to Docent I. Ye. Sredniy for his remarks concerning this investiga-tion. There are 1 graph and 11 references, 1 of which is American and 10 Soviet.

ASSOCIATION: Kafedra televideniya Odesskogo elektrotekhnicheskogo instituta svyazi (Chair of Television of the Odes-

sa Electrical Engineering Institute of Communications)

SUBMITTED: May 30, 1958

Card 3/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

06356

9 (2), 24 (7)

SOV/142-2-4-9/26

AUTHOR:

Grigulevich, V.I.

TITLE:

The Fluctuation Character of the Spectrum of an Elec-

tronic Self-Oscillator for Pulse Operation

PERIODICAL: Izvestiya vysshiki uchebnykh zavedeniy. Radiotekhnika.

1959, Vol 2, Nr 4, pp 446-453 (USSR)

ABSTRACT:

The author investigates the influence of fluctuations of the initial oscillation generating conditions in a pulse self-oscillator on its output spectrum. The time characteristics of statistical processes for establishing amplitudes and phases of self-oscillators by accounting the fluctuation influence were investigated by I.S. Gonorovskiy /Ref 37, V.I. Grigulevich /Ref 57 and others. A number of papers deal with the influence of fluctuations on the spectrum of a self-oscillator under steady-state operating conditions, I.S. Gonorov-skiy /Ref 1/. I.L. Bernshteyn /Ref 2/. The author used data from his paper /Ref 5/ for this study. He investigates the spectrum of the statistical realization of

Card 1/4

06356 SOV/142-2-4-9/26

The Fluctuation Character of the Spectrum of an Electronic Master-Oscillator for Pulse Operation

> a single pulse; some results of preliminary calculations; the calculation of spectrum components of a radio pulse random process; the spectrum of the envelope of a radio pulse random process; and finally, a calculation of internal noises in a pulse oscillator. For some pulse systems, a certain time characteristic of the pulse envelope must be maintained. The conclusions and the quantitative characteristics presented in this paper are of interest for pulse frequency multipliers of superregenerators and radio lines with pulse modulations. According to the results of I.S. Gonorovskiy's paper /Ref 17, it is easily determined that $\mu(\omega) = 10^{-6} + 10^{-7}$ for a master-oscillator in steady-state operation, and that $h = 10^3 + 10^4$, according to the formula

 $\mu(\omega) = \frac{1}{h^2} \frac{\Delta F}{F_{ij}}$

Card 2/4

06356 SOV/142-2-4-9/26

The Fluctuation Character of the Spectrum of an Electronic Master-Oscillator for Fulse Operation

where \triangle r- pass bandwidth of the channel. The author concludes that noises in the spectrum of a pulse mester-oscillator are determined principally by fluctuations of the initial conditions of generating oscillations, and chiefly by fluctuations of the initial phase, increasing the density of the continuous spectrum by $2(\beta \gamma_0)^2$ times compared to the spectrum of the envelope

 $2(\beta \tau_0)^2 > 1$ $\mathbf{W}_{\mathsf{H}} (\Omega)$

The author mentions in a note I.L. Bernshteyn's_critique of the papers of Hamilton, Knipp, Kuper Ref 107 and Pound Ref 11 for their interpretation of the statistical character of processes in a self-oscillator. The publication of this paper was recommended by the Department of Radio Wave Propagation of the Odesskiy elektrotekhnicheskiy institut svyazi (Odessa Electri-

Card 3/4

06356 SOV/142-2-4-9/26

The Fluctuation Character of the Spectrum of an Electronic Master-Oscillator for Pulse Operation

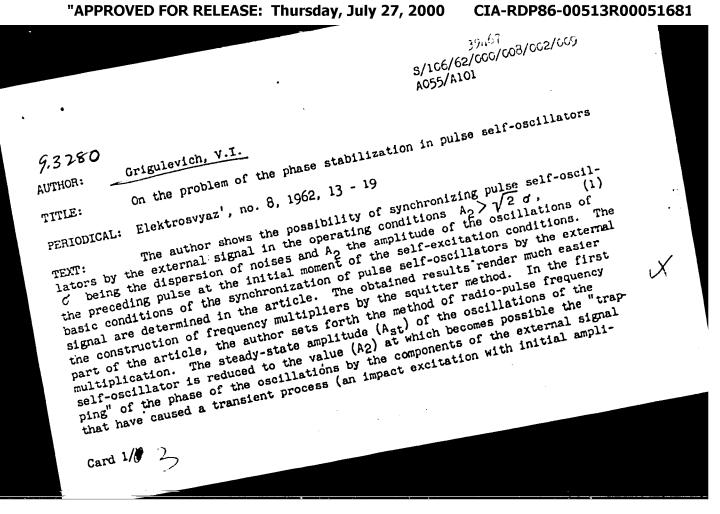
cal Engineering Institute of Communications). There are 3 diagrams and 11 references, 8 of which are Soviet and 3 American.

SUBMITTED: January 5, 1959

Card 4/4

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

GRIGULEVICH, V. I., Cand Tech Sci -- (disc) "Radio-impulse multiplier of frequencies. (Generator of spectra)." Moscow, 1960. 16 pp; (Ministry of Higher and Secondary Specialist Education RSFSK, Moscow Order of Lenin Aviation Inst im Sergo Ordenonikhidze);160 copies; price not given; bibliography at end of text (22 entries); (KL, 27-60, 152)



S/106/62/000/c08/c02/009 A055/A101

On the problem of the phase stabilization in ...

tude A_y) in the self-oscillator circuit. Owing to the positive feedback, the already stabilized oscillations increase then again up to the value A_{st} . The process is repeated periodically at the frequency of the synchronizing signal $\Omega = \frac{2\pi}{T}$. As a result, the output oscillation of the self-oscillator becomes a strictly periodical sequence of radio pulses with a period equal to T (Fig. 1). After a brief description of the properties of this frequency multiplication method, the author determines the self-oscillator synchronization conditions. Ao, φ_0 and φ_0 being, respectively, the initial amplitude and phase of the oscillation, and the natural frequency of the self-oscillator, the author writes:

 $^{-\beta_2}_{A_2 = A_{st}}^{(T-t_2)},$ (2)

(where β_2 is the damped circuit decrement, independent of the number k of the pulse), and

 $J = 2\pi \left(\frac{\omega_0}{\Omega} - N \right), \qquad (3)$

where ψ (see Fig. 2) is the variation of the phase of the oscillation in the pulse, and N is the multiplicity factor, also independent of k. The author de-

Card 2/6 3

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

On the problem of the phase stabilization in

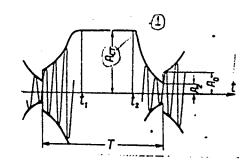
S/106/62/000/008/602/009 A055/A101

duces next a set of expressions for the oscillations in the k-th pulse. The full synchronization of the self-oscillator takes place if there exists the limit

independent of k. This can be satisfied only if $|\eta| \sin \sqrt{|\xi|} = 1$. (12) At the end of the article, the author discusses the assumptions made by him and shows that the synchronization condition (12) holds in spite of these assumptions. There are 2 figures.

SUBMITTED: January 8, 1962

Figure 1: (1) A_{st}



X

Card 3/6 3

40487

9,2586

S/106/62/000/009/002/003 A055/A101

AUTHOR:

Grigulevich, V.I.

TITLE:

Synchronization of self-pulsed oscillators in linear operating

conditions

PERIODICAL: Elektrosvyaz', no. 9, 1962, 26 - 32

TEXT: This work is a continuation of the author's previous article ["K voprosu stabilizatsii fazy v impul'snykh avtogeneratorakh" (On the problem of phase stabilization in self-pulsed oscillators), Elektrosvyaz', no. 8, 1962] where he dealt with the synchronization conditions of self-pulsed oscillators in "self-oscillating" or "honlinear" operation. Analogous formulae are now deduced for oscillators in "linear" or "amplification" operating conditions. The amplitude A_2 of residual oscillations before the achievement of synchronization depends here on the number k of the pulse: A_2 , $k = A_0$, $k-1 \propto 100$, where $\alpha > 0$ is a factor taking into account the variation of the oscillation amplitude in the pulse sequence period $T = \frac{2\pi}{2}$, i.e., $\alpha = 0$ (1) be-Card 1/3

S/106/62/000/009/002/003 A055/A101

Synchronization of self-pulsed oscillators

ing the envelope of the pulse. The synchronization conditions are determined by the following conditions:

$$\lim_{k \to \infty} A_0, \qquad (6) \qquad \lim_{k \to \infty} \varphi_0, \qquad (7)$$

The general synchronization condition, which does not depend on the relationship between ω_0 and Ω is: $\alpha<1$. (8) For a given relationship between ω_0 and Ω , synchronization takes place if the following system of equations can be solved for A0 and φ_0 :

$$\sin \varphi_0 = \frac{A_0}{A_y} \alpha \sin \theta$$

$$A_0^2 = A_y^2 + A_0^2 \alpha^2 + 2 A_0 A_y \alpha \cos (\varphi_0 + \theta)$$
(9)

Synchronization conditions (3) and (9) hold for any $A_y>0$. (14) They hold for any general assumption, with one restriction: superposition of excitation and residual oscillations should be possible in the range of initial

Card 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

Synchronization of self-pulsed oscillators

8/106/62/000/009/002/003 A055/A101

amplitude values. Several formulae for checking the fulfillment of the synchronization conditions in practical frequency multiplier circuits are reproduced in the second part of the article. The results obtained both in this article and in the previous one facilitate the design of pulsed frequency-multipliers. Thanks are expressed to I.I. Shumlyanskiy and L.P. Kramarenko. There are 2 figures.



SUBMITTED: January 8, 1962

Card 3/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

ACCESSION NR: AP4029221

S/0106/64/000/004/0019/0026

AUTHOR: Grigulevich, V. I.; Lobodzinskiy, V. A.

TITLE: Some optimum relations in the limitation of AM oscillations

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SOURCE: Elektrosvyaz', no. 4, 1964, 19-26

TOPIC TAGS: frequency multiplication, AM, AM limitation, AM suppression, radio pulse frequency multiplication

ABSTRACT: A method of evaluating the efficiency of AM suppression by limiters is suggested. The suppression is mainly intended for obtaining monochromatic oscillations from the spectrum of a radio-pulse frequency multiplier (V. I. Grigulevich, Elektrosvyaz', 1956, no. 6). The system consists of a quartz oscillator, a frequency multiplier, a preselector, a limiter, and a filter; the preselector converts the pulsed oscillations of the frequency multiplier into AM continuous oscillations. The nature and position of the extremum points in the

Card 1/2

ACCESSION NR: AP4029221

output wave differ from those at the limiter input: the modulation frequency is doubled which was experimentally corroborated. The modulation factor at the output is found to be equal to: $m' \approx \frac{1}{12} v_0^2 m^3$; the efficiency of the amplitude limiter is $\kappa_{c\rho} = \frac{1}{12} v_0^2 m$ where $\eta = \frac{U_n}{U_m} \approx \cos \theta$. The case of limiting under frequency-multiplication conditions is also considered. Orig. art. has: 4 figures and 37 formulas.

ASSOCIATION: none

SUBMITTED: 09Jun63

DATE ACQ: 28Apr64

ENGL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

GRIGULEVICH, V.I.; LOBODZINSKIY, V.A.

Spurious phase modulation in the limiting of An oscillations.
Elektrosviaz' 18 no.8:73-76 Ag '64. (MRA 17:8)

GRIGULIS, J.

High frequency electromagnetic method for controlling the properties of surface covers of details. In Russian. p. 29.

LATVIIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

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PHASE I DOCK EXTLOSTATION SOV/5291	Soveshchaniyo po komplekancy mekhanizatsii i avtematizatsii tekhno- logicheskikh protpessov v mashinostroyenii. 24, Moscow, 1955	Avromatizatelys mishinostroitelinykh protessaov, t. III: Obrabcika rezaniyem i obshchiye voprosy avromatizateli (Automation of Machine-Balloling Processes. W. 3: Metal Cutting and deneral Automation Problems) Moscow, Izdrvo AN SSSR, 1950, 296 p. (Series: Ite: Trudy, t. 3) 4,700 copies printed.	Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya Komisalya po tekinologii mashinostroyeniya.	Resp. Ed.: V. I. Dikushin, Acadesician; Ed. of Publishing House: V. A. Koboy; Tech. Ed.: I. P. Kur'nin.	PURPOSE: This collection of articles is intended for technical personnal concerned with the automation of the machine industry	COVERAGE: This is Volume III of the transactions of the Second Conference on the Full Mechanization and Automation of Annuac-turing Processes in the Machine Industry, held September 25-29, 1956. The transactions have been published in three volumes. Volume I dails with the hot pressoriting of metals, and volume II, with the actual pressoriting of machines. The present volume dails with the automation of machines. The present bardening, and with general problems encountered in automation. The transactions on the automation of metal-mentaling processes were unbished under the supervision of F. 3. Desi-	yanck and A. M. Karatygin, and those on the automation of work hardening processes, under the supervision of E. A. Satel' and M. O. Takobson. No personalities are sentioned. There are no references.	o). Experience of the SKB-6 (Special Design Designing and Matering Automatic Produc- ions	hines	Neklyudov, G. I. Automatic Machining of Parts Used in Matchmaking		Automation of Machine-Puliding Processes (Cont.) 304/3291	Yaknbson, M. O. Automated Production of Gears and Splined Shafts	Kpahkin, L. N. Automation of Manufacturing Processes based on Wolary Transfer Machines	I Tuols for Automated Production	Derbisher, A. V. Automation of Munifacturing Processes at the 1 0PZ [lst State Fearing Plant]	Sokolov, Ye. P. Experience in the Operation of Semiauto- matic Mydraulic Copying Exchines	Vasil'yev, V. S. Automatic Ralancing Machines	Kuritayna, A. D. New Alvanced Processes for the Mass Fro-	Gard 4/7	
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Automation of Machin-Tailding Irax-secs (Cont.) SOV/5. Filthin, V. P. Securing Stability in Notion of Parts Dur Contestess Grinding. Zolotykh, B. M. Frasen State of and Prospects for Electro-spaint Machining of Metals and Methods for Its Automation for Machining and Ariticle Localids Delemony, Ye. S. Automation of the Process for Grinding Baring Rings Dashchenko, A. I. Investigating the Process for Grinding Baring Rings Dashchenko, A. I. Investigating the Process for Grinding Baring Rings Dashchenko, A. I. Investigating the Process for Grinding Baring Rings Dashchenko, A. I. Investigating the Carbuising Process Garinkov, V. T. Controlling the Carbuising Process Gard 5/7 Automation of Machine-Dailding Processes (Cont.) SOV/52 Misolematy, A. P. Units for Quenching and Tempering by High-Prequency Heating in Automatic Froduction lines Interprises Part III. GENERAL PROBLEMS IN AUTOMATION Right-Prequency Heating in Automatic Froduction in Processes in Machine Pailding Part III. GENERAL Processes (Cont.) SOV/53 Misonravov, A. A. (Meademician). Objectives of Automation in Machine Pailding Mutomatic Systems Automatics Systems Automatics of Peterning. Effectiveness of Automation and Mathods of Deterning. Yemel'yanov, A. D. Basic Principles of Deterning the Machine Library of Congress Walladel: Library of Congress Walladel: Library of Congress
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S/194/61/000/008/018/092 D201/D304

AUTHOR:

Grigulis, Yu.K.

TITLE:

Automatic thickness control of surface films

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 17, abstract 8 Vl41 (Avtomatiz. mashinostroit. protsessov, v. 3, M., AN SSSR, 1960, 222-

226)

TEXT: The method of measuring the force required to tear off a permanent magnet from the investigated surface is used to determine the thickness of anti-corrosion films coating a ferromagnetic backing. A rod with a magn. tip is placed inside a coil with a.c. Under the effect of magnetic field produced by the coil, the rod is torn off from the object surface. The magnitude of current determines the thickness of coating. The sensitivity of the instrument is controlled by the initial position of the coil with respect to the rod. The wear of the rod tip is prevented by a rolled-in

Card 1/2

Automatic thickness control...

S/194/61/000/008/018/092 D201/D304

steel pellet 1 mm dia. The effect of the thickness of the object is eliminated by using an armoo ion bench. The instrument was designed at the Laboratory of Sciences of Machines of the AS Latvian SSR, the automatic version by the B30 (VEF) factory. The instrument may be used for measuring the thickness of a cemented or anodized coating, also for measuring nickel or chromium coating. 4 figures. 3 references. [Abstracter's note: Complete translation]

Card 2/2

S/193/61/000/001/008/008 A005/A001

AUTHORS:

1

Grigulis, Yu.K., Fastritskiy, V.S.

TITLE:

The Universal Device VII -3M (UP-3M) for Checking the Thicknesses

of Coverings and Properties of Surface Layers

PERIODICAL:

Byul. tekhn.-ekon. inform., 1961, No. 1, pp. 42-44

TEXT: The Laboratoriya avtomatizatsii proizvodstvennykh protsessov (Laboratory for Automation of Production Processes) of the Institut mashinovdeniya AN Latviyskoy SSR (Institute of Science of Machines at the Academy of Sciences of the Latviyskaya SSR) developed a high-frequency device UP-3M for measuring the thick-Latviyskaya SSR) developed a high-frequency device UP-3M for measuring the thicknesses of arbitrary coverings on arbitrary base materials under the condition that their electrical conductivities or the magnetic permeabilities differ by at least a few percent. The high sensitivity of the device permits also the measurement of surface layer properties of components or their coatings over a very wide range: the electric conductivity, the magnetic permeability, the homogeneity degree of the chemical composition and the thermal treatment, the porceity, the surface fineness, the presence and magnitude of surface cracks, the amplitudes and frequencies of the vibrations of mechanical components. The operation principle of the device

Card 1/4

自然問題問題 医细胞腺 動物 经特别。

S/193/61/000/001/008/008 A005/A001

The Universal Device $\sqrt{\Pi} - 3 \, M$ (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

is as follows: a high-frequency electromagnetic flux of an emitter induces in the surface layer of the component eddy currents causing energy losses and an electromagnetic counter-flux; the magnitude of losses and electromagnetic counter-flux depends on the electromagnetic properties of the surface layer or on the distance between the emitter and the component. The device consists of the following units: supply with electronic stabilizer, h.f. generator, measuring device with emitter, amplifier, and indicator. The supply unit includes the transformer, two semiconductor bridge rectifiers, the electronic atabilizer made up of valves and a stabilivolt; the filament voltage is stabilized by a barreter. The generator has two circuits with electron coupling (so called Schembel generator with series connection of the circuits) having high frequency stability within wide limits independent of the load variability. The measuring unit is a T-shaped overlapping bridge whose responsive element is the special transducer in the form of a coil placed in a specially shaped ferrite concentrator. The bridge is adjustable by a capacitance selector, a variable capacitor, resistance selector, and potentiometer. The bridge input voltage is 1.4-1.6 v independent of the balancing degree. The bridge

Card 2/4

S/193/61/000/001/008/008 A005/A001

The Universal Device Π -3M (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

output voltage is fed into the resonance amplifier input through a resistance, a potentiometer, and a separation capacitor. The resonance amplifier permits the separation of the fundamental harmonic. The resistance serves for the widening of the pass band. The amplification factor of the amplifier is 100. The indicator unit consists of the detector and the d.c. amplifier with a microammeter in its anode circuit. The measurement can be carried out by both methods of unbalance and two parameters. In the former case, the device is balanced and tuned with the transducer on the standard basis. For measuring different coverings on steel and nonmagnetic metals or the thicknesses of different foils applied to a nonconductive base, calibration graphs are added to the device; if the electromagnetic properties of the base and covering materials differ sharply, it is convenient to perform the measurement with the transducer removed from the component by a few millimeters. The measuring method of two parameters is based on the possibility of direct fixing of the changes of the active and induced transducer resistance, if the transducer is contacted with specimens of different materials, with different covering or different finish degree; for these measurements special diagrams must be plotted. This method makes it possible to measure simultaneously two parameters Card 3/4

通過程 医静脉

S/193/61/000/001/008/008 A005/A001

The Universal Device \11-311(UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

of a covering or a surface layer, for instance, electric conductivity and magnetic permeability, or the thickness of the covering or the surface layer and its electric conductivity. The sensitivity of the device to variations of the environmental temperature is a disadvantage, which requires additional balancing at an environmental temperature exceeding 40° C, whereby the sensitivity of the device does not change. Moreover, when using manganese-zinc ferrites for the transducer concentrator, the transducer parameters become generally better, and the influence of the environmental temperature considerably decreases. The manufacture of a lot of 500 pieces of the device UP-3M is included into the plan for 1961 according to the resolution of the Nauchno-tekhnicheskiy komitet i sovnarkhoz Latviyskoy SSR (Scientific-Technical Committee and Sovnarkhoz of the Latviyskaya SSR). There is

Card 4/4

GRIGULIS, Yu. [Grigulis, J.]; KHUBAYEVA, Z.

Effect of the properties of galvanic platings on the

measurement of their thickness by using high-frequency electromagnetic instruments. Izv. AN Latv. SSR no.10:33-40 163. (MIRA 17:1)

1. Institut avtomatiki i mekhaniki AN Latviyskoy SSR.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

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L 60225-65 EWT(1)/EWT(m)/EWP(i)/T/EWP			P(c)	
ACCESSION NR: AT5013580	UR/2584/64/0	00/017/0195/0	1214 23 22 B+/	
AUTHOR: Grigulis, Yu. K.	۵۱			
TITLE: Studying the laminate semicon electromagnetic field	•		ļ-	
SOURCE: AN LatSSR. Institut energe i ikh primeneniye v elektrotekhnike, 3				
i ikh primeneniye v elektroteknike, 3 vypryamitel'nyye elementy i ikh prime electrical engineering, 3. Controlled	NANIVA LAPITHECHIC	TCTOID WHA		
use), 195-214		/	. 1	e 2
TOPIC TAGS: semiconductor materia				
ABSTRACT: The theoretical principle parameters of semiconductor structur propagation of a h-f electromagnetic				
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L 60225-65

ACCESSION NR: AT5013580

placed on the lay-on sensor transducers (primary elements) as they measure only a narrow local spot. The sensor's electromagnetic field distribution is calculated assuming that no field diversion occurs in the penetration process, and the case can be regarded as a planar problem. Also, the case of the wave propagation normally to the surface, with an allowance for wave phenomena and attenuation, is examined. Formulas for the characteristic resistance of a laminate structure are developed. A simplified calculation is possible in these two particular cases: (1) When quasi-stationary conditions prevail, and the field in the laminate structure can be studied by stationary methods (dielectrics); (2) When the field penetrates normally to the surface of the material (metals, semiconductors). Theoretical and experimental curves of the R and X components of the characteristic impedance of steel and brass plated with Al, Ag, Sn, Cu, Zn, Pb, Ni are compared; the experimental values were measured by Soviet-made PPM-4 and UP-1 (and improved PPM-6 and UP-3M) h-f sensors. It is recommended that the semiconductor structures be studied in a wide frequency band; at shf, the study can be based on the absorption of electromagnetic energy and the wave field

Card 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

L 60225-65
ACCESSION NR: AT5013580

phenomena; at hf, on the phase relations of the penetrating field and the components of the complex dielectric constant. Orig. art. has: 6 figures, 36 formulas, and 1 table.

ASSOCIATION:Institut energetiki AN Latviyskoy SSR (Institute of Power Engineering, AN Latvian SSR)

SUBMITTED: 00 ENGL: 00 SUB CODE: EC

NO REF SOV: 009 OTHER: 002

L 60227-65 EWT(1)/T/EWA(h) Pz-6/Peb IJP(c) AT
ACCESSION NR: AT5013581 UR/2584/64/000/017/0215/0227

AUTHOR: Grigulis, Yu. K.; Aboltyn', E. E.

TITLE: Measuring the resistivity and surface-layer thickness in semiconductor structures by an electromagnetic shf field

SOURCE: AN LatSSR. Institut energetiki. Trudy, no. 17, 1964. Poluprovodniki i ikh primeneniye v elektrotekhnike, 3. Upravlyayemyye poluprovodnikovyye vypryamitel'nyye elementy i ikh primeneniye (Semiconductors and their use in electrical engineering, 3. Controlled semiconductor rectifying elements and their use), 215-227

TOPIC TAGS: semiconductor material, semiconductor resistivity, semiconductor structure

ABSTRACT: The results of a theoretical and experimental study of the physical characteristics of semiconductor laminate structures are reported. The physical phenomena of penetration of a shf field, from lay-on sources, into a semi-conductor having dielectric but no magnetic loss are theoretically considered. The effect of tg & and surface-layer thickness in the R and X components of the

Cord 1/2

L 60227-65

ACCESSION NR: AT5013581

characteristic impedance are calculated (curves shown); two particular cases are analyzed: (1) The field undergoes a complete attenuation in the surface layer; (2) The field penetrates the surface layer and dissipates in the base without reflection. Formulas are derived for determining the characteristic-impedance coefficients for structures containing semiconductor, metallic, and dielectric layers. An experimental outfit comprised a waveguide with a plunger on one end and the test specimen placed in touch with the other end. By measuring the traveling-wave ratio and noting the plunger position at minimum indicator reading, the specimen characteristics were determined. With a slot shf radiator, a 0.5x2-mm surface specimen accessible on one side only was successfully tested at 10 40 cps. Orig. art. has: 5 figures and 19 formulas.

ASSOCIATION: Institut energetiki AN Latviyskoy SSR (Institute of Power Engineering, AN Latvian SSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 008

OTHER: 001

Card 2/2

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IJP(e) L 20621-66 EVI(1)/T/EVA(h) SOURCE CODE: UR/0371/66/000/001/0034/0041 ACC NR. AP6010263 AUTHOR: Grigulis, Yu. K .- Grigulis, J.; Aboltin'sh, E. E. - Aboltins, E. ORG: Power Engineering Institute, AN LatvSSR (Institut energetiki AN Laty SSR) TITLE: Measurement of the electrophysical properties of a semiconductor with a slit field source Seriya fizicheskikh i tekhnicheskikh SOURCE: AN LatSSR. Izvestiya. nauk, no. 1, 1966, 34-41 TOPIC TAGS: semiconducting material, resonant cavity, resonator, electronic measurement ABSTRACT: A contactless method was used to measure the thickness and specific resistance of semiconducting materials by exposing them to a uhf field acting through a slit in a resonator. By considering the field parameters in the resonator for the case in which one of its walls is made of semiconductor material, the general dependence of Q on the specific resistance of the material p was found. The dependence of Q on p was then found for the case in which the semiconductor fills a slit in one of the resonator walls. All computations were made for a single resonator type with dimensions a = 1 = 2b = 20 mm and the TE_{101} mode **Card** 1/2

L 20621-66

ACC NR: AP6010263

of oscillation at a frequency of 10¹⁰ cps. An analysis of the theoretical relationships and experimental results has indicated that the slit should preferably be located in the end wall of the resonator, perpendicular to the current force lines (TE₁₀ wave). The sensitivity of measurements was found to depend on the length of the slit and is inversely proportional to it. The width of the slit has little effect on sensitivity. A slit 8—15 mm long and 0.5 mm wide can be used in measurements without the necessity of signal amplification. The specific resistance of semiconductors in the range of 0.01—10 ohm·cm can be measured by slit field sources with an accuracy of ±10%. Orig. art.

[JR]

SUB CODE: 09/ SUBM DATE: 23Apr65/ ORIG REF: 006/ OTH REF: 002 ATD PRESS:4224

Cord 2/2 12K

BELYUKAS, K.K.[Beliukas, K.], akademik, red.; GRIGYALIS, A.A.
[Grigelis, A.], kand. geol.-miner. nauk, red.; GUDELIS,
V.K., kand. geol.-miner. nauk, red.; KISNERYUS, Yu.L.
[Kisnerius, J.], kand. geol.-miner. nauk, red.;
KARATAYUTE-TALIMAA, V.N.[Karatajute-Talimaa, V.], kand.
biol. nauk, red.

[Problems of geology in Lithuania] Voprosy geologii Litvy. Pod red. A.A. Grigialisa i V.N. Karataiute-Talimaa. Vil'nius, 1963. 623 p. (MIRA 16:11)

Lietuvos TSR Mokslu Akademija, Vilna, Geologijos ir geografijos institutas.
 AN Litovskoy SSR (for Belyukas).
 (Lithuania--Geology)

CRIGYALIS, A.A. [Grigelis, A.], kand. geol.-min. nauk, ety. red.;

VONSAVICHYUS, V.P. [Vonsavicius, V.], red., GUDYALIS,

V.K. [Gudelis, V.], red.; DALINKEVICHYUS, I.A.

[Dalinkevicius, J.], red.; KAZAKOVA, V.A., red.;

KISNERYUS, Yu.L. [Kisnerius, J.], red.; CHEPULITE, V.A.

[Copulyte, V.], red.; ASSOVSKIY, A.N., glav. red.

[Study of the geology of the U.S.S.R.] Geologicheskaia izuchennost' SSSR. Glav. red. A.N.Assovskii i dr. Vil'nius, AN Litovskoi SSR. Vol.43.[Lithuanian S.S.R.; the period of 1800-1955] Litovskaia SSR; period 1800-1955. No.1. [Published works] Fechatnye raboty. 1962. 257 p. (MIRA 17:8)

1. Institut geologii i geografii AN Litovskoy SSR (for Grigyalis).

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GARUNKSHTENE, S.S.[Gerunkstiene, S.]; CRIGYALLS, A.A.[Grigelis, A.],
kand. geo.-miner. nauk; VONSAVICHTUS, V.P.[Vonsavicius, V.],
red.; CAYCALAS, A.I.[Gaigelas, A.], red.; DALINKEVICHTUS,
I.A.[Dalinkevicius, J.], red.; KAZAKOVA, V.A., red.;
KISNEHYUS, Yu.L.[Kisnerius, J.], red.; CHEPULITE, V.A.
[Cepulyte, V.]., red.

[Study of the geology of the U.S.S.R.] Geologicheskaia izu-
chennost' SSSR. Vil'nius, Mintis. Vol.43. No.1. 1964. 244 p.

(MI.4 18:10)
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力與**對於影響器等於**當等

ORIGYALIS, A.I. [Grygolis, A.]

Dynamics of Ilyodrilus hammoniensis Mich. and Psummoryotes barbatus (Grube) (Oligochaeta) in various biotopes of Lake Disna. Vop. ekol. 5:42 '62. (MIRA 16:6)

1. Institut zeologii i parazitologii, Vil'nyus. (Disna, Lako--Oligochaeta)

PROKOPOVICH, Arkadiy Yefimovich; GRIUOR*YEV, I.G., inzh., retsenzent;
KORSOV, L.A., inzh., red.; EMINOVA; G.V.; tekhn.red.

[Machinery industry in 1959-1965] Stankostroenie v 1959-1965 gg.
Moskva, Gos.nsuchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.

152 p. (Sovotskoe mashinostroenie v 1959-1965 gg.).

(Machinery industry)

(Machinery industry)

nigonyer I.E.

11-58-6-8/13

AUTHORS:

Rubinshteyn, M.M.; Crigor'yev, I.G.; Gel'man, O.Ya.; Khutsaidze, A.L.; Chikvaldze, B.G.

TITLE:

On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method (K metodike polucheniya monomineral'nykh fraktsiy dlya opredeleniya absolutnogo vozrasta gornykh porod argonovym me todom)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr 6, pp 95-100 (USSR)

ABSTRACT:

The Argon method of determining the absolute age of rocks is the most convenient for wide scale use in geological research. Not all potassium containing minerals can be used for this purpose. The best mineral is mica - and especially muscovite, biotite and glauconite mica. For the purposes of obtaining monomineral fractions of these minerals in large quantities (necessary for mass age determination), the author constructed 2 separators of which descriptions are given.

There are 2 photos, 2 figures, and 6 references, 4 of which

Card 1/2

are Soviet and 2 American.

11-58-6-8/13

On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method

ASSOCIATION: Geologicheskiy institut AN GruzSSR, Tbilisi (Geologic In-

stitute of the AS of the Georgian SSR, Tbilisi)

SUBMITTED: July 15, 1957

AVAILABLE: Library of Congress

Card 2/2 1. Geology 2. Rock-Determination

GRIGORYEV, I. G.

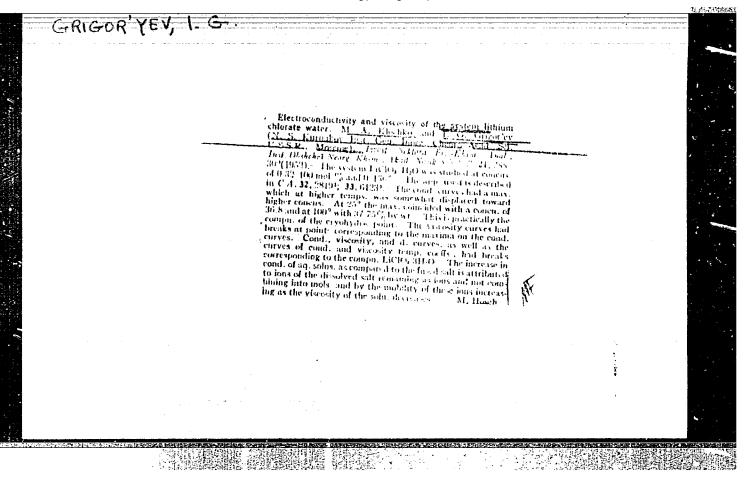
Cand Chem Sci

Dissertation: "Electric Conductivity and Viscosity of the Systems Formed of Lithium Chlorate with Water and of Lithium Nitrate with Water, Methyl Alcohol and Water-Dioxone Mixture." 7/6/50

Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR

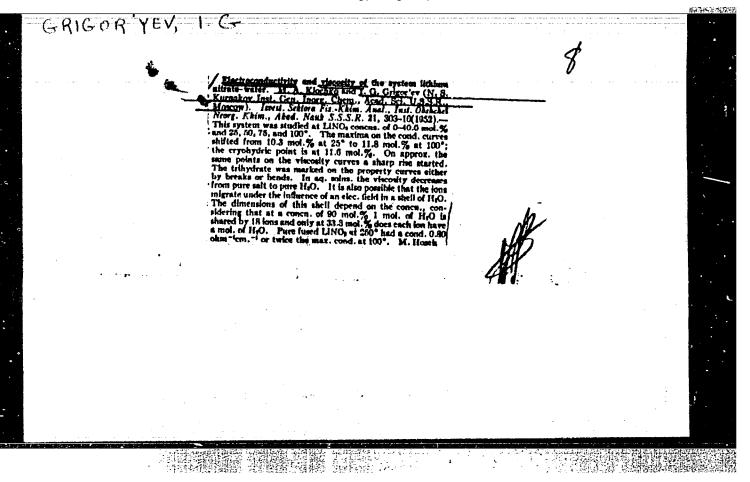
SO Vecheryaya Moskva

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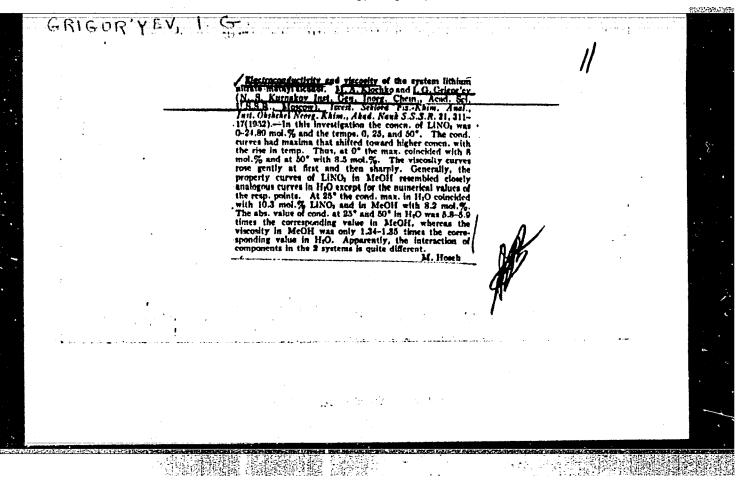
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GRIGOR'YEV, I.G

Prejection of lithoun altrate solutions in equimolatular adduces of water and diagram. M. A. Khelko and I. G. Chem. (N. S. Kernakov Int. Gen. Inter. Chem. (1994). Chem. (

cond. polytherm for 5.81 mol. % LiNO, had a beed at a point close-by, where layer sepa, began. The cond, polytherm for 11.39 mol. % LiNO, which compa, is encirely within the leyer sepa, zone, had no berds and rose absorpty within the leyer sepa, zone, that no berds and rose absorpty with temp. The cond, was dett, in the lower Leyer which contained practically all of the LiNO. Cond, isotherms had bends on the boundary of the layer typn. onc. Then enterlay the layer sepa, zone the cond, troe sharoly and disposed upon entergency from its. The viscosity and discurves behaved in an analogous manner. For comparative coachs, of LiNO, at 2.5° in H-9, Me 3H, and H-9-discance (1:1) the rap, dian for cond. (x), viscosity (s), and temp. criff. of cond. (a) and of viscosity (s) are: for 8.91 mol. % LiNO, in H-0 x = 0.109 mbn/cm., γ = 1.43°, centipoise, γ = 1.43°, s = 1.43°, and a = 1.790, and a /β = 0.31°. Pos 8.81 mol. % LiNO, in H-0-discance x = 0.00485, γ = 2.704, α=10.1340.

β = μ = 1.2105, and α/β = 0.31°. Qualitatively, the declease in coad, can be expanded by a decrease in the dielect const. and a decrease in dispose moments of the 3 soldents.

27751 s/058/61/000/007/042**/**086 A001/A101

11.4100 AUTHORS:

Rubinshteyn, M.M., Grigor'yev, I.G., Uznadze, E.D., Gel'man, O.Ya.,

Lashkhi, B.A.

TITLE:

Spectrophotometrical determination of alkali metals in ammonia-oxy-

PERIODICAL:

Referativnyy zhurnal. Fizika, no. 7, 1961, 175, abstract 70149 . ("Soobshch. AN GruzSSR", 1960, v. 24, no. 6, 683 - 690)

2000年間開發起去

The authors describe a flame-photometrical device designed for de-TEXT: termination of Na, K, Li and Rb in solutions. The NH3-02 flame was used for spectrum excitation. The measurement of spectral line intensities was conducted with a photoelectrical device which consisted of an JM -2 (UM-2) monochromator, a photocell, a d-c amplifier, and a microamperemeter. The nature of an effect which arose at the simultaneous determination of alkali elements was investigated, and methods of taking it into account are proposed. In particular, tables are calculated for correcting the results of joint determinations of Na and K.

[Abstracter's note: Complete translation]

M. Britske

Card 1/1

GRIGOR'YEV, Ivan Grigor'yavich; ZULIN, Vladimir Vasil'yevich;

PETROPOL'SKAYA, N.Ye., red.; DURASOVA, V.M., tekhn. red.

[Electrical conductivity as a means for analyzing gaseous and liquid systems] Elektroprovednost' kak metod analiza gazovykh i zhidkikh sistem. Kurbyshev, Kurbyshevskoe knishnoe izd-vo, (MIRA 16:3)

1961. 21 p. (Electric conductivity) (Electrochemistry)

B/081/62/000/017/041/102 B162/B101

AUTHOR:

Grigor'yev, I. G.

一个学师 生學

TITLE

Multichannel installation for the purposes of flame photometry

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1962, 143, abstract 17E10 (Soobshoh. AN GruzSSR, v. 27, no. 3, 1961, 299 - 305)

TEXT: The installation consists of a spectral apparatus with a scanning device and an electronic section, which includes an oscilloscope, a system selecting and distributing electric pulses along the corresponding measuring channels, and the sources of supply. The optical section is assembled on the basis of the MCN-51 (ISP-51).spectrograph. The scanning of the spectrum is effected by the oscillation of an autocollimation mirror with a frequency of 50 cps. A photomultiplier is used as a radiation receiver. After amplification and transformation the signal is directed on to an oscilloscope, on the screen of which the spectrum investigated is observed. For the exact measurement of the intensity of each line, the pulses are distributed along the corresponding channels. The apparatus described permits the simultaneous measuring of five lines, besides, it is possible to determine the quantities of Na, L, and K in solutions, starting from a Card 1/2

Multichannel installation for the	S/081/62/000/017/041/102 B162/B101	
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Card 2/2	·	<u> </u>

RUBINSHTEYN, M.M.; GRIGOR'YEV, I.G.; UZNADZE, E.D.; GEL'MAN, O.Ya.

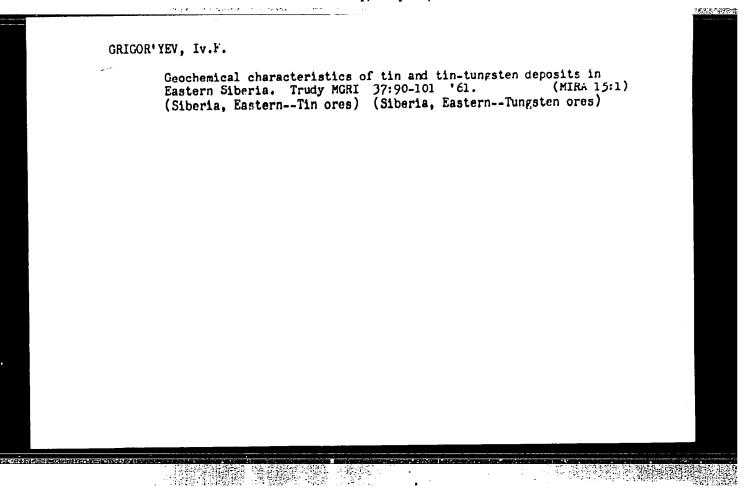
Photometric determination of potassium and sodium in ammoniaoxygen flame. Biul.Kom.po opr.abs.vozr.gool.form. no.4:109-113
'6l. (Geological time)
(Potassium) (Sodium)

工程計劃配 在原制用性 计定义

Maltichannel system for recording spectra in flame photometry. Zav. lab. 28 no.9:1139-1141 '62. (MIRA 16:6) 1. Geologicheskiy institut AN Grusinskoy SSR. (Flame photometry)

Operating experience with a multichannel spectrophotemetric apparatus for recording radiations from alkaline elements in flame. Scob. AN Gruz. SSR 29 no.1:17-23 J1 '62. 1. Geologicheskiy institut AN Gruzinekov SSR, Tbilisi. Submitted February 12, 1961.

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PHASE I BOOK EXPLOITATION

807/4126

Grigor'yev, Ivan Ivanovich, Boris Grigor'yevich Diatroptov, and Nadezhda Ivanovna Plyshevskaya

Prepodavaniye teoreticheskoy mekhaniki v tekhnikume (The Teaching of Theoretical Mechanics in Tekhnikums) Moscow, Proftekhizdat, 1960. 243 p. 4,000 cepies printed.

Scientific Ed.: G.M. Karovskiy; Ed.: N.V. Kobrinskaya; Tech. Ed.: V.I. Sushkevich

PURPOSE: This book is recommended as a training manual for teachers at special secondary technical schools by the Training and Methods Direction for Special Secondary Institutions of the Ministry of Special Technical Colleges and Secondary Education in the USSE.

COVERAGE: The book discusses a number of general problems in the teaching of mechanics and also special methods of presentation (under the conditions of a tekhnikum) of individual topics. The limited size of this manual does not permit consideration of special methods for all topics of the course; therefore, the topics selected were those most difficult to teach. The topics treated are

Card 1/4

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The Teaching of Theoretical Nechanics in Tekhnikums

807/4128

statics, which gives the students ability and skill in solving problems for systems in equilibrium, including the foundations of graphical statics; kinematics, which discusses various types of motion and examples of their application in engineering; dynamics, in which only the most essential problems are singled out; and elements of the theory of machanisms and machines, which is quite thoroughly covered. No personalities are mentioned. There are 60 references:

TABLE OF CONTENTS:

Introduction

CENTRAL PART

Aims, problems, and special features of teaching theoretical mechanics with elementary theory of mechanisms and machines at tekhnikums
 Planning the teaching process
 Presentation of new material

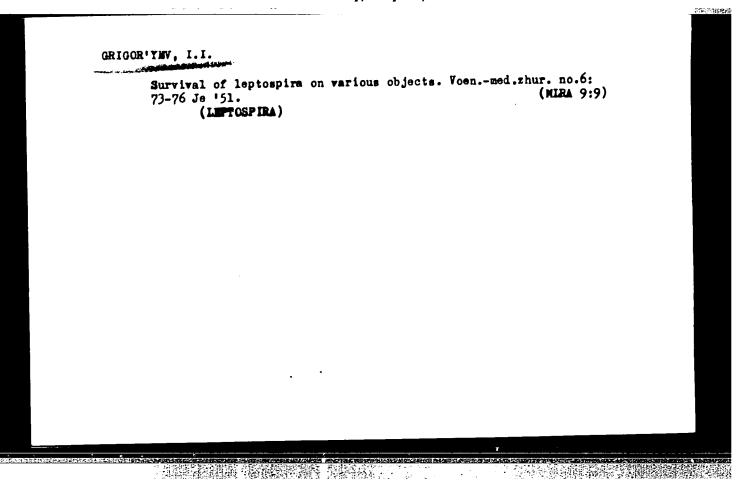
3. Presentation of new material
4. Impressing the material on the students' memory
5. Written tests on mechanics
27

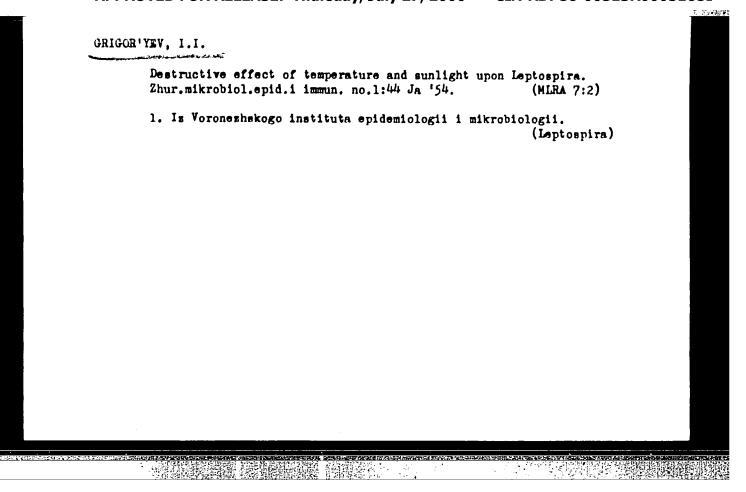
Card 2/4

SKLYUYEV, P.V.; GRIGOR'YEV, I.I.

Vacuum treatment of steel for seamless-forged steam turbine rotors. Metalloved. 1 term. obr. met. no. 6:34-36 Je '64. (MIRA 17:7)

1. Uraliskiy zavod tyazhelogo mashinostroyeniya imeni Sergo Ordzonikidze.





"APPROVED FOR RELEASE: Thursday, July 27, 2000 1883年8月1日 1983年 - 1983

CIA-RDP86-00513R00051681

T

GRIGOR'YEV 1.1.

USSR/Huran and Aniual Physiology. Action of Physical Agents.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37013.

Author : Grigoriev, I.I.

Inst

: Susceptibility to Leptospirosis of Rats Subjected to

X-Ray Irradiation. Title

Orig Pub: Vrachebn. delo. 1957, No 3, 267-270.

Abstract: Rats, (224) were injected intraperitoneally with 5 ml of Leptospira (L) culture of the 2 (Zhukov) or 5 (Kondratiev) serotype; 4 hours to 14 days after a single general irradiation with 400-550 r, a lowering of resistance to this infection, as compared with control animals, was noted. The highest mortality (37%) was noted in rats irradiated with 550 r and infected with L of the 5 serotype, the lowest mortality

: 1/2 Card

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ORIGOR'YEV, I.I., kand.med.nauk; SHIKHOVA, N.M., dobsent; KURAMSHINA, M.G., kand.biol.nauk

Elimination of streptococci in rheumatic fever. Vrach.delo no.6:585-587 Je 159. (MIRA 12:12)

1. Sochinskiy nauchno-issledovatel skiy institut revmatizma.
(RHEUMATIC FEVER) (STREPTOCOCCUS)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810