CIA-RDP86-00513R00051681

GRIGOR'YEV Juli. (Velikiye Luki) Differentiation of embryonic skeletal muscles in vitro [with summary in English]. Arkh.pat. 20 no.4:56-66 '58. (MIRA 11:5) 1. Iz patologoanatomicheskogo otdeleniya (sav. L.M. Grigor'yev) Velikolukskoy oblastnoy bol'nitsy (glavnyy vrach-zasluzhennyy vrach Latviyskoy SSE A.K. Glushkov) (MUSCLES, embryology growth & differentiation of explanted embryonic skeletal musc. (Rus)

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(RIGOR'ITAY, Lett. (Valitige Luki, ul. Karla Libknehhta, d. 3, kv. 9)
Secondary differentiation of explanted skeletal nuscles. Arkh.
anat.gist. 1 embr. 35 no.6:101-103 N-D '58. (NIRA 12:1)
1. Patologoanatomicheskoye otdeleniye Velikolukskoy oblastnoy bol-
nitay (glavnay vrach D.F. Martynov).
(MUSGLES, physiol.
gecondary differentiation of explanted skeletal mac.
(Rus))
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GRIGCR'YEV, L. N.

GRIGGR'YEV, L. N.: "Heat evolution in the boiling of binary mixtures." Min Higher Education USCR. Kazan' Chemicotechnological Inst. Tashkent, 1956 (Dissertation for the Degree of Candidate in Technical Sciences)

So: Knizhnaya Letopis', No. 18, 1956

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CONTRACTOR OF THE OWNER

	57-2-20/32
AUTHORS:	Grigor'yev, L. N., Usmanov, A. G.
TITLE:	Emission of Heat in the Boiling of Binary Mixtures (Teploot- dacha pri kipenii binarnykh suest;)
PERIODICAL:	Zhurnal Tekhnicheskoy Fiziki, 1950, Vol. 20, Mr 2, pp. 325-332, (USSR)
A BSTRACT :	The dependence of the coefficients of dissipation of heat on the composition of the mixture is investigated here and an at- tempt is made to determine the mechanism of the process in the boiling of the mixtures. At first the influence upon the mecha- nism of the process of stean-generation in the boiling of bi- nary mixtures is investigated and it is shown that the data existing in publications are very contradictory. For this rea- son the investigation of the process of heat emission was per- formed during the boiling of some binary mixtures. The tests were made on a large scale at natural convection under atmos- spheric pressure. Two apparatus were erected, a large one with windows in which a visual observation and the photographing of
Card 1/3	the boiling process of the mixture of ethyl alcohol and water

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57-2-20/32

Emission of Heat in the Boiling of Binary Mixtures

took place, and a small apparatus in which the fundamental tests on the emission of heat during the boiling of the mixtures were made. The two apparatus did not differ in their mode of operation. Based on the tests the following was found: 1.) The mechanism of the boiling process of binary mixtures considerably differs from that of one-substance liquids. 2.) The composition of the boiling mixture influences the process of heat emission during boiling. This influence takes effect in the dependence of the value of the radius of curvature at the smallest nodule of unevenness, which acts as center of stean-generation, on the concentration of the boiling mixture. 3.) An equation (7) is derived here for the determination of the radius of curvature of the smallest nodule of unevenness acting as center of steam generation in the boiling of binary mixtures of liquids. This equation was confirmed in a qualitative respect. 4.) The coefficients of heat emission in the boiling of binary mixtures are considerably smaller than those of pure components of which the mixture consist. At a certain concentration of the mix ture a well marked minimum of the function $\alpha = f(x_1)$ is observed. x_1 --Mol-concentration according to the component with lower boil-

Card 2/3

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Emission of	Heat in the Boiling of Birary Mixtures	
	ing point index "1" refers to the liquid advice by G. H. Krushilin, Correspondin USSR. There are B figures, and B referen Slavic.	H to ter of the AS
SUBMITTED:	December 13, 1956	
AVAILABLE:	Library of Congress	
	1. Binary compounds-Heat emission	
Card 3/3		

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2.4,5200 AUTHORS:	Grigor'yev, L. N., Usmanov, A. G.	s/170/59/002/11/019/024 B014/B014
TITLE:	Heat Exchange in Boiling Azeotropic M	ixtures
PERIODICAL:	Inzhenerno-fizicheskiy zhurnal, 1959,	Vol 2, Nr 11, pp 114-118 (USSR)
ABSTRACT :	Formula (1) which represents the depe vature o, of the smallest elevations	ndence of the radius of cur- acting as evaporation centers
Card 1/2	upon the composition of the boiling m authors in an earlier paper (Ref 1) f ing binary, azeotropic mixtures. In t studied the effect of the complex B i presented in equation (3). The effect heat-exchange coefficient depends on signs of the factors of B represented The sign of the left-hand expression of sitive according to the composition of Storonkin, the sign of the right-hand ed from formula (5). This sign is sho in evaporation heat of the two compor major part of the non-azeotropic mixt the last-mentioned expression has a r ure 1 further indicates that the sign denoted by B has a positive sign for	ixture, was derived by the for the heat exchange in boil- the present paper, the authors in equation (1), which is re- is of the quantity B on the the respective sign, and the in (4) are studied separately. of (4) may be negative or po- of the mixture. According to d expression of (4) is obtain- bown to depend on the difference ments of the mixture. For the tures studied by the authors megative sign (Table 1). Fig- n of the differential expression

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Heat Exchange	in Boiling Azeotropic Mixtures	68771 S/170/59/00 2/11/019/024 B014/B014
	mixtures. Therefore, complex B has	
	have a maximum and, consequently, a minimum which depends on the comp These theoretical considerations we results (Ref 1). Results of experim tropic mixtures are graphically sho hand expression of (4) had a posit: mixtures. The left-hand expression the three mixtures, which means the and after attaining the bend point, the fact that the heat-exchange com has a maximum and a minimum (Figs 2 bles, and 4 Soviet references.	position of the boiling mixture. Bre confirmed by experimental ments performed on three azeo- own in figures 2-4. The right- ive sign for two of the three of (4) had a maximum or minimum for all of at it had reversed signs before . It is thus possible to explain efficient of azeotropic mixtures
ASSOCIATION:	Khimiko-tekhnologicheskiy institut (Institute of Chemical Technology i	im. S. M. Kirova, g. Kazan' Imeni S. M. Kirov, City of Kazan')
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GRIGOR YEV, L.N.; USMANOV, A.G.

Conditions of similarity for heat transfer during boiling of binary mixtures. Trudy KKHTI no.26:32-41 '59. (MIRA 15:5) (Heat-Transmission) (Ebullition)

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CIA-RDP86-00513R00051681

S/862/62/002/000/013/029 A059/A126

AUTHOR: Grigor'yev, L.N.

TITLE:

Investigation of the heat transfer in boiling binary mixtures

SOURCE:

Teplo- i massoperenos. t. 2: Teplo- i massoperenos pri fazovykh i khimicheskikh prevrashcheniyakh.' Ed. by A.V. Lykov and B.M. Smol'skiy. Minsk, Izd-vo AN BSSR, 1962.. 120 - 127

TEXT: In this paper, the mechanism of heat transfer in boiling binary mixtures is investigated, and an attempt is made to establish experimentally the dependence of the coefficient of heat transfer in boiling liquids on the composition of the mixture. For the radius of curvature of the least prominence, of the surface roughness acting as a steam-forming center, the earlier formula:

$$P_0 = \frac{2e}{\Delta p} = \frac{2e}{p'\Delta t}$$

is used, where σ is the coefficient of surface tension, p[†] the derivative of saturation pressure with respect to the saturation temperature which is determined from the Clapeyron-Clausius equation:

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Investigation of the heat transfer in

 $p' = \left(\frac{dp}{dt}\right)_{*} = \frac{r \, \boldsymbol{\gamma}^{(1)} \, \boldsymbol{\gamma}^{(2)}}{AT_{*} \left(\boldsymbol{\gamma}^{(1)} - \boldsymbol{\gamma}^{(2)}\right)} \, .$

where $\Delta t = t_w - t_g$, is the overheating of the wall as compared to the boiling point, r is the heat of evaporation, $\gamma^{(1)}$ and $\gamma^{(2)}$ are the specific gravities of the liquid and the vapor, respectively, and T_g is the absolute saturation temperature, in K. The equation:

$$\rho_0 = 2\sigma \left/ \left[\frac{\gamma_i^{(2)} - \gamma_i^{(1)}}{u^{(2)} - u^{(1)}} + \frac{x^{(2)} - x^{(1)}}{u^{(2)} - u^{(1)}} \left(\frac{\partial^3 \varphi}{dx^2} \right)_{\rho T} \frac{dx}{dT} \right] \Delta t$$
(5)

was finally obtained, where v is the molar volume, η the molar entropy, x the molar concentrations of the low-boiling component, and φ the molar thermodynamic Gibbs potential; the index (2) refers to vapor, and the index (1) to liquid. The sign before the second fraction in equation (5) depends on the sign of the difference of the heats of evaporation of the low-boiling and the high-boiling component in the mixture. Thus, the mechanism of heat transfer in boiling mixtures differs from that in pure liquids. The variation of the vapor pressure when two different liquids are mixed leads to a variation of steam formation in

Card 2/4

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S/862/62/002/000/013/029 A059/A126

Investigation of the heat transfer in

boiling by which, in turn, heat transfer is influenced. Three fundamental groups of mixtures of liquids soluble in each other were found to exist, namely: 1) those which do not form azeotropes for which $\lambda_1 - \lambda_2 < 0$; 2) azeotropes for which $\lambda_1 - \lambda_2 < 0$; and 3) azeotropes for which $\lambda_1 - \lambda_2 > 0$ (λ_1 and λ_2 being the partial molar heats of transition of the first and the second components, respectively, from the first phase into the second. The critical equation:

$$\frac{a d_{0}}{\lambda} = f\left(\frac{v}{a}; \frac{q d_{0}}{r a \gamma^{(2)}}; \frac{r}{c_{p} T_{s}}; \frac{q + q_{\mu}}{q}; \left[1 + \frac{(x^{(2)} - x^{(1)})^{2}}{x^{(2)}(1 - x^{(2)})}\right]\right),$$
(16)

obtained in an earlier paper by the author is given, where d_0 is the diameter of the separating bubble, λ the coefficient of heat conduction of the boiling liquid, r the heat of evaporation of the mixture, q_h the amount of heat used up to evaporate the mixture, ν the coefficient of kinematic viscosity, and a the tem-

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

GRIGOR'YEV, L. N.; KHAYRULLIN, I. Kh.; USMANOV, A. G.

"Experimental investigation of critical heat flows with boiling binary mixture."

paper submitted for 2nd All-Union Conf on Heat and Mass Transfer, Minsk, 4-12 May 1964.

Chemical-Technical Inst, Kazan'.

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

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CRIGVOR'YEV, L. P,

"Investigation of Heat Transfer at Boiling of Binary Mixtures."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

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<u> </u>	
	SOV/124-58-5-6248
Translation	from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 164(USSR)
AUTHORS:	Prigorovskiy, N.I., Bortkevich, V.I., Grigor'yey, L.Ya.
TITLE:	A Method of Stress and Force Investigation of Components of Impact-type Mechanisms (Metodika issledovaniya naprya- zheniy i usiliy v detalyakh mekhanizmov udarnogo deystviya)
PERIODICA	L: V sb.: Izmereniye napryazheniy i usiliy v detalyakh mashin. Moscow, Mashgiz, 1955, pp 188-213
ABSTRAC .	A description of measuring, amplifying, and recording devices is given for measuring impact parameters as applied to the investigation of an electric hammer. The recording was per- formed on an oscillograph with a mechanical tape-transport attachment with speeds of up to 10m/sec and filmed cinema- tographically. Test results for an OMG-10-type hammer are given. N.P. Rayevskiy
Card 1/1	 Power hammersStresses 2. Power hammersImpact shock Power hammersTesting equipment 4. Motion picture photography Applications

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ALEKSANDROV, B.F., inzh.; BALYKOV, V.M., inzh.; BARANOVSKIY, P.I., inzh.; BOOUTSKIY, N.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent; VAVILOV, V.V., inzh.; VOLOTKOVSKIY, S.A., prof., doktor tekhn.nauk; GRIGOR'YEV, L.Yn., inzh.; ORIDIN, A.D., inzh.; ZARMAN, L.N., inzh.; KOVALEV, P.F., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk, dotsent; KUSNITSYN, G.I., inzh.; LATYSHEV, A.F., inzh.; LEYBOV, R.M., doktor tekhn.nauk, prof.; LEYTES, Z.M., inzh.; LISITSYN, A.A., inzh.; LOKHANIN, K.A., inzh.; LYUBIMOV, B.N., inzh.; MASHKEVICH, K.S., inzh.; MALKHAS'YAN, R.V.; MILOSERDIN, M.M., inzh.; MITNIK, V.B., kand.tekhn.nauk; MIKHKYEV, Yu.A., inzh.; PARAMONOV, V.I., inzh.; HOMANOVSKIY, Yu.G., inzh.; RUBINOVICH, Ye.Ye., inzh.; SAMOYLYUK, N.D., kand.tekhn.nauk; SMEKHOV, V.K., inzh.; SMOLDY-REV, A.Ye., kand.tekhn.nauk; SNAGIN, V.T., inzh.; SNAGOVSKIY, Ye.S., kand.tekhn.nauk: FEYGIN, L.M., inzh.; FRENKEL', B.B., inzh.; FURMAN, A.A., inzh.; KHORIN, V.N., dotsent, kand.tekhn.nauk; CHET-VEROV, B.M., inzh.; CHUGUNIKHIN, S.I., inzh.; SHELKOVNIKOV, V.N., inzh.; SHIRYAYEV, B.M., inzh.; SHISHKIN, N.F., kand.tekhn.nauk; SHPIL'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk; SHTOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV, A.M., glavnyy red.; TOPCHIYEV, A.V., otv.red.toma; LIVSHITS, I.I., zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.; MOROZOV, R.N., red.; OZERNOY, H.I., red.; SPIVAKOVSKIY, A.O., red.; FAYBISOVICH, I.L., red.; ARKHANGEL'SKIY, A.S., inzh., red.; (Continued on next card)

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ALEKSANDROV, B.F. --- (continued) Card 2.

BELYAY3V, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GON-CHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn. nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotment, kand. tekhn.nauk, red.; MARTINOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNYY, P.L., inzh., red.; SAL'-TSEVICH, L.A., kand.tekhn.nauk, red.; SPERAMTOV, A.V., kand.tekhn. nauk, red.; SHSTL&R, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

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GREGOL'YEV, L.Ya., nauchnyy sotrudnik

Use of a Kirschner wire in arthrodesis and resections of the kree Joint. Zirav. Belor. 6 no.6:63-44 Je '60. (MIRA 13:8)

1.Minskiy nauchno-issledovatel'skiy institut travmatologii i ortopedii (dir. - prof. R.M. Minina, nauchnyy rukovoditel' - prof. B.N. TSyrkin). (KNEE-SURGERY)

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GRIGOR'YEV, L.Ya.

Ostepsynthesis with a metallic needle in fracture of the foreal. Zdrav. Bel. 7 no.5:51-53 My '61. (MIRA 14:6)

1. Minskiy nauchno-issledovatel'skiy institut travmatologii i ortopedii (direktor - professor R.M.Minina, nauchnyy rukovoditel'professor B.N.TSypkin [deceased]). (INTERNAL FIXATION IN FRACTURES) (ARM_FRACTURE)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681
GRIGGR'YEV, Lev Yakovlevich; ASTRATOV, N.A., kand. tekhn. nauk, nauchn. red.; YEROMITSKAYA, Ye.Ye., red.
[Ship vessels operating under pressure; determination of streeses and deformations] Sudovye sosudy, rabotaiushchie pod davleniem; operedelenie napriazhenii i deformatsii. Leningrad, Sudostroenie, 1965. 194 p. (MIRA 18:6)

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 $N_{L3135-66} = WT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m)$ BOOK EXPLOITATION UR/ WW/EM بالمناخرة ويرا AM5022501 621.181.1 33 8+1 Grigor'yev, Lev Yakovlevich Marine_pressure vessels;" determination of stress and deformation (Sudovyye sosudy, rabotayushchiye pod davleniyem; opredeleniye napryazheniya i deformatsiy) Leningrad, Izd-vo "Sudostroyeniye", 1965, 194 p. illus., biblio. TOPIC TACS: steam boiler, marine engine, pressure vessel, turbine •••• design and a second PURPOSE AND COVERAGE: This book is intended for engineers and designers, engaged in the field of marine propulsion or the design of pressure vessels used in various branches of engineering. It may also be useful to scientific workers and students specializing in strength and rigidity calculations of similar structures. Methods of strain and stress calculation of axisymmetrical pressure vessels, e.g. marine boilers, housings of steam and gas turbines, internal combustion engines, various heat exchangers, etc., are covered. المنجر المتسجدة ساري terre a construction de la const المتحجب الأحاد ويهيهما المهرا Card 1/2

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Ch. III. Vess	el Calculatio	ns 97			
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E194/E355

and for the angle of bending of the edges of the hole if a uniformly distributed bending moment is applied to it. Similar formulae are then derived for a hole in a spherical sheet and for a round cylindrical envelope. Calculations are then made for the combined elements, pipe and sheets. The displacement stresses and torques, taken with appropriate signs, should be the same on each of the elements and if the positive directions of angular and linear displacement coincide, the displacements are given the same sign and vice versa. In this case, with reference to Fig. 4, the following equations are obtained:

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Q	-	Q : X	1		
М	=	M	9	1	

Card 2/6

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"APPROVED FOR RELEASE: Thursday, July 27, 2000

and a second 17/11 s/096/61/000/010/004/006 Some Cases of E194/E355 welded to both sides of the sheet, assuming that the bending moment from the sheet to the pipe is transmitted by tangential stresses in the welds. For this case the shear stress in the weld is given by the following equation: $\chi = 2Q'/k$ (16). There are no bending stresses in the weld. Similar equations are then derived for the system of a tube joining a spherical sheet. The systems of equations obtained are generally similar to those above and the method of use is much the same. It should be noted that the calculations given in the article relate only to stresses that arise during the process of change of temperature of the elements considered. These stresses are superimposed on various residual manufacturing stresses (if these have not been relieved) and on stresses due to external loading, etc., to give the resultant stress distribution or stressed condition of the design. There are 8 figures and 4 Soviet references. Card 5/6





GRIGOR'YNV, N.

Monopolies in the minoral fertilizers industry. "Report of the United States Federal Trade Commission on minoral fertilizers industry." Reviewed by W. Origor'ev. Vnesh. terg. 27 me.1:36 '57. (United States--Fortilizers and Manures) (NLMA 10:4)



GR	1.	GOR'YEV, M.	
		conics	
Card 1/1		Pub. 89 - 27/33	
Authors	1	Grigor'yev, M., and Sidorov, B. (Frunze and Moscow, Resp.)	
Title	. 6	The "Zvuk" hearing aid as an amplifier for a defect detector, Fastening tube panels	- -
Periodical	t	Radio 2, page 52, Feb 56	
Abstract	1	The first author tells how the commercial hearing aid, the "Zvuk," can be used in connection with other devices as an amplifier in detecting breaks and short circuits in telephone cables. A method for fastening tube panels without the use of rings is dealt with in the second article.	
Institution :			
Submitted :			
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	internet		

CIA-RDP86-00513R00051681

AUTHOR: Grigor'yey, M. (Riga)

S0Y/107-59-1-39/51

TITLE: The TV Sets "SEVER", "ZENIT", "EKRAN", and "LUCH" with the 43LK2B Kinescope (Televizory "SEVER", "ZENIT", "EKRAN", "LUCH" na kineskope 43LK2B)

PERIODICAL: Radio, 1959, Nr 1, p 47 (USSR)

AUTHOR: The author suggests a method for adapting the 43LK2B kinescope to the "SEVER", "ZENIT", "EKRAN", and "LUCH" TV sets. He describes the new circuit to be made and lists parts to be interchanged. There are one circuit, one table, and one Soviet reference.

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1. Kiev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly. 2. Zaveduyushchiy otdelom selektsii sakharnoy svekly Veselopodolyanskoy opytno-selektsionnoy stantsii, Semenovskiy rayon, Poltavskaya oblast' (for Sukachev). 3. Zaveduyushchiy laboratoriyey fitopatologii Veselopodolyanskoy opytno-selektsionnoy stantsii, Semenovskiy rayon, Poltavskaya oblast' (for Bogdanovich). 4. Zaveduyushchiy laboratoriyey agrokhimii Veselopodolyanskoy opytno-selektsionnoy stantsii, Semenovskiy rayon, Poltavskaya oblast' (for Nikolaychuk).

(Poltava Province--Agricultural experiment stations) (Poltava Province--Sugar beets)

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a self-oscillating resonator is com and of C caused which makes it p in the pressure quartz with the of the gas densi are stabilised. allows for a con Hg can be mea	L0797 S/263/62/000/017/005/011 I011/1211 A piezo-electric manometric transducer Referativnyy zhurnal. Otdel'nyy vypusk, Izmeritel'naya tekhnika, no 17, 1962, 31-32, abstract 32.17.208. "Nauchn. ezhegodnik. Saratovsk un-ta. Fiz. fak i Ni. in-t mekhan. i fiz., 1955" Saratov, 1960, 23-27 nertia manometric transducer is developed. A piezo-electric quartz plate which is a part of electro mechanical system serves as its basic element. The active resistance (C) of the plate- posed of C caused by internal friction, by friction in the supports and in the surface layers by radiation losses. The last component depends on the environment surrounding the quartz of the surrounding gas. The known magnitude of the radiation C of a flat-bottom oscillating tereen is used for the evaluation of the equation connecting the overall equivalent C of the radiation losses. It is shown that the overall equivalent C of the quartz will be a linear function ity and pressure alone if the friction magnitude in the supports and the surface friction losses The electric circuit of the instrument excites the oscillations in the piezo-electric plate and nutinuous measurement of its equivalent active C. Pressures in the interval of 10 ⁻¹ to 10 ³ mm sured by this method. There are 2 figures. Bibliography: 4 titles.	Í	

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37611 S/142/62/005/001/004/012 9.1400 E192/E582 6,4300 AUTHORS : Grigor'yov, M.A., Kats, L.I. and Tsimring, Sh.Ye. TITLE: Measurement of the standing-wave ratio by means of a directional couplor and a phase-shifter at millimetre waves PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 5, no. 1, 1962, 47 - 50 TEXT: Simple method of measurement of the standing-wave ratio (SWR) by means of a directional coupler in conjunction with a phase-shifter is described. The measurement system is illustrated in Fig. 1. This consists of: K - klystron oscillator; A - attenuator; NJ - measuring line; HO - directional coupler; $\tilde{\mathbb{Q}}$ - phase-shifter; ΠA - variable attenuator; Π - plunger and $\Im M$ - an amplifier with an indicator. It is assumed that reflections from the generator and detector can be neglected and that the phase-shifter has a constant attenuation (independent of the phase change) and does not Card

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Measurement of

introduce any reflections. The problem consists of finding an expression for the modulus of the reflection coefficient on the basis of the readings of the galvanometer, which is connected through a square-detector at the output of the directional coupler. It is shown that the modulus of the reflection coefficient of the load is expressed by:

$$|\Gamma| = \frac{|E_{a}|}{|E_{1}|} = |\Gamma_{w_{1}}| \frac{(\sqrt{a_{1}} \pm \sqrt{a_{2}})}{(\sqrt{a_{1}^{(0)}} + \sqrt{a_{3}^{(0)}})}.$$
 (7)

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where α_1 and α_2 are the maximum and minimum readings of the galvanomotor when the load is connected, while. $\alpha_1^{(0)}$ and $\alpha_2^{(0)}$ are the maximum and minimum galvanometer readings when the load is shorted; Γ is the modulus of the reflection coefficien in the plane of the load when the latter is short-circuited. The standing-wave ratio is therefore expressed by: Card 2/4 $KCB = \frac{1+|\Gamma|}{1-|\Gamma|} = \frac{\sqrt{\alpha_1^{(0)}} + \sqrt{\alpha_2^{(0)}} + (\sqrt{\alpha_1} \pm \sqrt{\alpha_2})|\Gamma_{uu}|}{\sqrt{\alpha_1^{(0)}} + (\sqrt{\alpha_1} \pm \sqrt{\alpha_2})|\Gamma_{uu}|}$. (8).

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Measurement of the standing wave ratio in the microwave band by means of a directional coupler and a phase shifter. Izv. vys. ucheb.; radiotekh. 5 no.1:47-50 Ja-F '62. (MIRA 15:5) (Microwave measurements) (Wave guides)

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

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Centrifuga prom. no.8	1 filters for cleaning oil in :3-9 Ag'55.	n automobiles.	Avt. i trakt. (MERA 8:11)	
1. Nauchno	-issledovatel'skiy avtomotor (AutomobilesEnginesOi	nyy institut 1 filters)	: i i	
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RAMATYA, K.S., doktor tekhn.mauk; LEBEDEV, S.A. , kand.tekhn.mauk; ZAVEL'SKIT, V.S.; GRIGOR'NWV, M.A. Effect of oil impurity on the wear of engines. Avt.prom. mo.l: 8-11 Ja '59. (MIRA 12:1) 1. Gosudarstvennyy soyusnyy ordena Trudovogo Krasnogo Zmameni mauchno-issledovatel'akly avtomobil'nyy i avtomotornyy institut. (Automobiles--Lubrication)

	G	C	505/202	t trasu i mashinakn. 34.	1. Opory skol 'zheniya. Sazka ommate Theory of Lubrication. A silve inserted. 1.300 copies	1	k 2538. Institute standmoutent. Hodynamic Theatth standmoutent. Hydry: Professor, Doctor of Tech- ikyar, Frofessor, Doctor of Tech- the Section, Fubrication and instruction, Pubrication and Instruction, Pubrication, Pubritation, Pubrication, Pubrication, Pubrication, Pubrication,	7,7	and by the Intitue ambino- of Stence of Atchine, Academy or Streamtod at the III preserved at the III Preserved at the III of Problem distants S. Problem distants for theory of Lubication and the Theory of Lubication and the III of the III of the III of Theory of Lubication and the III of the III of the III of Theory of Lubication and	Use of Lubricant Materials	tures of the Behavior of 291 Besings	nal Magiar for Lubricating 299 Lubricators	w, and Y. A. Derastmenko. Lis for Reduction Gears 300 re Conditions	A M. A. Grigor'rev Wear biods of vershing the Oil in Automobile Engine 313	hirspov. Oils Froduced by t on the Wear of Engines 321	Lotar'. Investigation of	Poundation of the Require- Lities of Gils Used in JJÖ	Chesical Composition and Operational Lubrication Materials	of Vest in Engines Operating 344 and of Alkaline Additives	r, and R. K. Shneyerova. in Surfaces Prom Corrosion s to the Oils	kimov. Olla of Optimal]36		· · · · · · · · · · · · · · · · · · ·
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GRIGOR'YEV, M.A., kand.tekhn.nauk

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"Automobile and tractor centrifuges" by G.P.Pokrovskii. Avt.prom. no.10:45-46 0 '60. (MIRA 13:11)

1. Gosudarstvennyy soyusnyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut. (Motor vehicles--Engines--Oil filters)

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681 المبلى فأدار فالالتجام ويردد العار مراب · · · · · BRAY, I.V.; KUDINOV, Yu.A.; BELYAVSKIY, I.Yu.; <u>GRICOR'YEY, M.A.</u>, kand. tekhn. nauk, retsensent; GALANOVA, M.S., red.izdva; DEMKINA, N.F., tekhn. red. [Filters for fine purification of diesel fuel] Fil'try tonkoi ochistki disel'nogo topliva. Moskva, Mashgis, 1963. (MIRA 16:6) 126 . (Filters and filtration) (Diesel fuels) e n entodo a regalementa de la la caracteriza de la caracteriza de la caracteriza de la caracteriza de la carac 1011-51-527

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GRICOR'YEV, M.A., kand. tekhn. nauk; SMIRNOV, G.A., inzh.

Standardization of the rotors of tractor and motortruck oil centrifuges. Trakt. 1 sel'khozmash. 33 no.11:15-18 N '63. (MIRA 17:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut (for Grigor'yev). 2. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut (for Smirnov).

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ACC NR: AP6018624 (A) SOURCE CODE: UR/0065/66/000/006/0048/0052
AUTHOR: Grigor'yev, M. A.; Pimenov, A. M.; Zelenskaya, R. G.
ORG: NAMI, VNII NP
TITLE: Evaluation of service qualities of automotive oils by engine tests
SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1966, 48-52
TOPIC TAGS: lubricant, lubricating oil
ABSTRACT: In order to provide appropriate equipment for the testing of automotive motor oils in the Soviet Union the NAMI-1 test unit was developed and used at NAMI for comparative engine tests, evaluating the test results by the UIM-6 method, US method 344-T (USA Standard No. 691, March 1959), and also by the PZV method. The unit in- cludes a single cylinder engine, corresponding to a section of engine ZIL-130. The unit permits rating of piston deposits, varnish, piston ring coking, wear of the cylinder-piston section, low-temperature deposits, and the oxidizability of oils and bearing corrosion. Lubricants type A, B, and C were rated, represented by oil AC-9,5 with admixtures of 0.7, 0.7, and 0.25% additive Santolub 493, and of 0.7, 1.5, and 4% additive Monto 613, respectively. Standard gasoline A-76 was used in 100-hr runs. Method UIM-6 gave higher ratings for ring mobility than method 344-T, and the latter permitted a differentiation by points of piston grooves and seals, although the final results for both methods were similar. The types of deposit, however, may differently
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ffect engine performance and correspond to different a ethod 344-T is employed by various organizations in the n other countries. Thus, an important modification of esearch is hardly expedient. Orig. art. has: 1 table	the method without su	ATCCTL ABOR
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BLOKHIN, V.N.; <u>GRIGOR'YEV</u>, M.G.; KOZHEVNIKOV, A.I.; KOROLEV, B.A.; MATYUSHIN, I.F.; PARIN, B.V.; TSIMKHES, I.L.; KALININA, G.V.; FEDOROV, A.M.; KOLOKOL'TSEV, M.V.; SOKOLOV, V.V.; PRILUCHNAYA, O.A.; SHUMILKINA, Ye.I.; ABRAMOV, Yu.G.; RYURIKOV, A.Kh.; IKONNIKOV, P.I.; VOZNESENSKIY, I.Ya.; TEPLOV, S.V.; MIZINOV, N.N.; KUKOSH, V.I.

V.M.Durmashkin; obituary. Ortop., travm. i protez. 21 no.8:81 Ag (MIRA 13:11) (DURMASHKIN, VIKTOR MARKOVICH, d. 1960)

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GRIGOR'YEV, M.M.	
USSR / Magnetism. General Problems. F-1	
Abs Jour : Ref Zhur - Fizika, No 3, 1957, 6824	
Author : Grigor'yev, M.M., Kirko, I.M. Title : Investigation of the Magnetization of a Structure Modeling a Magnetodielectric.	
Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 7, 1501 - 1508	
Abstract : An experimental verification of the theoretical calculations of the magnetic properties of magnetodielectrics was carried out with models prepared of spherical particles 12.5 and 6.25 mm in diameter, and cylindrical particles 1 and 1.2 mm in dia- meter, made of material having a known magnetic permeability. The model particles were mixed in various proportions with quartz sand and the mixture was formed into toroidal speci- mens. The measurements were carried out with a constant ma- gnetizing field and with an alternating field at frequencies from 0.1 to 20 kc. The experimental results have shown that best agreement between the experiment and the calculations is obtained when the demagnetizing factor of the structure is	
Card : 1/2	

CIA-RDP86-00513R00051681

USSR / Magnetism. General Problems. F-1 Abs Jour : Ref Zhur - Fizika, No 3, 1957, 6824 Abstract : determined from the following equation: $N = \frac{N_0}{1+34V^4}$ (No is the demagnetizing factor of an isolated particle, and v the volume concentration). Thus, N depends nonlinearly on the concentration of the ferromagnetic rarticles and is independent of the permeability of the material of the particles. The Ollendorf formula gives results that are in agreement with the data of the experiment only for v < 0.3. The Lichtenecker formula gave no agreement between the calculated and experimental values of the permeability of the structure. The measurements in the alternating fields made possible an investigation of the dispersion of the permeability of the structure and a calculation of the permability of the spherical particles. The application of the methods of similarity theory to magnetization in an alternating field makes it possible, first, to determine the permeability and losses in a ferrodielectric at one frequency or at one concentration from measurements made at another frequency or at another concentration and secondly they lead to an estimate of the permeability of the particles used in actual ferrodielectrics. Card : 2/2 10010-0-0 101 AV C 100 370 研想地位

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ACCESSION NR: AT4042295 AUTHOR: Grigor'yov, M.N.	8/0000/63/003/000/0179/0188	
TITLE: Experimental invostigation	on of the magnetic fields of cylindrical inductors eticheskoy i prikladnoy magnitnoy gidrodinamike. 3d, gidrodinamiki (Problems in magnetic hydrodynamics);	
Riga, 1962. Voprosy* magninoy doklady* sovoshchaniya, v. 3. Ri TOPIC TAGS: magnetic field, inc	eticheskoy i prikladnoy magnuloy gidrodinamiki (Problems in magnetic hydrodynamics); gidrodinamiki (Problems in magnetic hydrodynamics); ga, Izd-vo AN LatSSR, 1963, 179-188 ductor, cylindrical inductor, travelling magnetic field,	
ABSTRACT: The author presents of two cylindrical inductors of a a linear cylindrical inductor with way winding and a core of transfe equalled 5, the mean value of the and polar pair was 392. The cor cylinder of laminated insulation of strips of E4AA transformer st	s the results of an investigation of the magnetic fields traveling-wave field. The first inductor (LITs-1) was a no external magnetic conductor, consisting of a one- ormer steel. The number of polar pairs of the inductor polar pitch was 6.85 cm, the number of turns per phase re of this inductor consisted of 18 blocks fastened on a with a diameter of 10 cm. The blocks were glued together tool (sheet thickness: 0.35 mm). The external diameter	
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of the core was 13.9 cm, the length 68.5 cm, and the width of the working channel of the inductor 2.1 cm. The second inductor (LITs-2) was also a linear cylindrical inductor with unilateral winding but, in contrast to the first, it had an external magnetic conductor consisting of 18 blocks arranged in a circle 18.1 cm in diameter. The blocks were glued together of strips of E1 transformer steel 0.5 mm in diameter. Each block had 30 square grooves containing cylindrical coils of 20 turns each. This inductor had the same core as the first, but with a working channel of 2.1 cm in width. The investigations of the magnetic fields of the inductors were made under both "load" and "no-load" conditions. The variations made in the "load" condition are described in the article. The resistivity of the material of the cylinder was 0.238 ohms mm²/m. The fields were measured by means of a device consisting of a cylindrical coil, probe, and tube-type volt-meter. The results of the study of the magnetic field and its behavior in both inductors are discussed at length in the paper with particular attention to the radial component of induction. Findings are presented in the form of graphs. Orig. art. has: 12 figures. **ASSOCIATION:** none SUBMITTED: 04Doc63 ENCL: 00 SUB CODE: EM, IE NO REF SOV: 005 OTHER: 000 Card 2/2 一行是不知道。这些 4

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ACCESSION NR: AT4042296	S/0000/63/003/000/0189/0193
AUTHOR: Grigor'yev, M. N.	1
TITLE: Experimental study of pon	dermotive forces in linear cylindrical inductors
at ni - 1000 Vannagut magnitu	icheskoy i prikladnoy magnitnoy gldrodinamiko. oy gidrodinamiki (Problems in magnetic hydro- , v. 3. Riga, Izd-vo AN LatSSR, 1963, 189-193
TOPIC TAGS: inductor, linear ind travelling magnetic field	uctor, cylindrical inductor, pondermotive force,
pondermotive forces acting on a ho a linear cylindrical inductor. The (LITs-1 and LITs-2), described in illustrating the results of a measu lead cylinder in the inductor LITs-	the results of an experimental determination of the ollow metal cylinder in the travelling-wave field of measurements were performed with two inductors in detail in a previous article. A graph is presented rement of the pondermotive force acting on a hollow 2. The phase current values in the inductor windings frequency range of 50 - 520 eps. Figures are of the travelling-wave field into the metal at different
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Pub. 22 - 21/53	
Grigor'ev, M. N., and Kirko, I. M.	•
Mock-up of the magnetization of ferro-dielectrics	
Dok. AN SSSR 102/4, 733-736, Jun 1, 1955	
described. The study was conducted with the help of models in the for of torroids made out of ferrous balls of 1 1/2" in diameter pressed in of torroids made out of ferrous balls of 2 wore carried in DC and AC file	m ito ilds.
The Acad. of Sc., Lat. SSR, Institute of Physics	
Academician M. A. Leontovich, November 4, 1954	
	 M.N. Ferro-dielectrics Pub. 22 - 21/53 Grigor'ev, M. N., and Kirko, I. M. Mock-up of the magnetization of ferro-dielectrics Dok. AN SSSR 102/4, 733-736, Jun 1, 1955 Studies of the effective magnetic penetrability of ferro-dielectrics, which are fine ferrous balls pressed into an insulating material, are described. The study was conducted with the help of models in the for of torroids made out of ferrous balls of 1 1/2" in diameter pressed in an insulator (quartz sand). The studies were carried in DC and AC fie Eight references: 1 German and 7 USSR (1931-1954). Graphs.

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F14, **A**5-23

 TITLE: New Methods for the Elimination of Intense Flushing Fluid Absorption in Drilling (Novyye metody likvidatsii intensivnogo pogloshcheniya promyvochnoy shidkosti pri burenii skvazhin) PERIODICAL: Neftyanoye khosyaystvo, 1958, Nr 12, pp 20-26 (USSR) ABSTRACT: The Tatar oil workers in cooperation with the VNIIBT and TatNII In stitutes developed successful methods for the elimination of intense flushin Fluid absorption in drilling [Ref 1,2,3]. It was determined experimentally a permeable stratum is best shut off by plugging the channels near the bore the well and in the case of several permeable formations by plugging the low stratum first and maintaining a dynamic balance in the well [Ref 4]. This is shown in the case of the Romashkino Oilfield (Fig 1). The negative effect of the upper strata on the cementing process can be minimized by withdrawing the fluid from the well after pumping in the case of real slurry. The fluid can be removed either by air lift or by bailing. The calculations for the air lift [14(5) ` Author:	80V/93-58-12-4/16 Vadetskiy, Yu. V., Karimov, V.Kh., Grigor'yev, M.N., Ivanov, V.P., Il'yasov, Ye.P.
ABSTRACT: The Tatar oil workers in cooperation with the VNIIBT and TatNII In stitutes developed successful methods for the elimination of intense flushin fluid absorption in drilling [Ref 1,2,3]. It was determined experimentally a permeable stratum is best shut off by plugging the channels near the bore the well and in the case of several permeable formations by plugging the low stratum first and maintaining a dynamic balance in the well [Ref 4]. This is shown in the case of the Romashkino Oilfield (Fig 1). The negative effect of the upper strata on the cementing process can be minimized by withdrawing the fluid from the well after pumping in the cement slurry. The fluid can be re- moved either by air lift or by bailing. The calculations for the air lift [TITLE:	New Methods for the Elimination of Intense Flushing Fluid Absorption in Drilling (Novyve metody likvidatsii intensivnogo pogloshcheniya
stitutes developed successful methods for the elimination of intense flushing fluid absorption in drilling [Ref 1,2,3]. It was determined experimentally a permeable stratum is best shut off by plugging the channels near the bore the well and in the case of several permeable formations by plugging the low stratum first and maintaining a dynamic balance in the well [Ref 4]. This is shown in the case of the Romashkino Oilfield (Fig 1). The negative effect of the upper strata on the cementing process can be minimized by withdrawing the fluid from the well after pumping in the cement slurry. The fluid can be re- moved either by air lift or by bailing. The calculations for the air lift [PERIODICAL:	Neftyanoye khosyaystvo, 1958, Nr 12, pp 20-26 (USSR)
-	stitutes fluid ab a perment the well stratum shown in the uppe	s developed successful methods for the elimination of intense flushing psorption in drilling [Ref 1,2,3]. It was determined experimentally that able stratum is best shut off by plugging the channels near the bore of and in the case of several permeable formations by plugging the lower first and maintaining a dynamic balance in the well [Ref 4]. This is a the case of the Romashkino Oilfield (Fig 1). The negative effect of er strata on the cementing process can be minimized by withdrawing the strata on the cementing in the cement slurry. The fluid can be re-
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q _{maks} = 13.4 F through-put of t space, in sq m,	$\frac{1}{L} \int d - 1.45 Fw_{g} \left[\frac{t}{t}\right]/sec],$ the air lift, F - the area of L - the distance from the mount	the verification of the through- mula where q _{maks} is the maximum fluid the cross section of the annular,
ation of KSE- M tion, and $w_B - t$	compressors, d - the reduced d he air velocity. The calculat	mic level, created during the oper- Liameter of the annular cross sec-
setting of the 'al	ior micing one drilling line	ployed under the following condi- $\begin{pmatrix} \frac{t}{60} & H \\ 1sr \end{pmatrix}$, where q is the f one drilling line, in m ³ , t _{sr} - , in minutes, T - the initial at which the end of the drill pipe
applied to a well ard 2/3	drilled by a 6" EBSh rig. Th	at which the end of the drill pipe llling line. These formulas were Petroleum Institute of the

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New Methods for the Elimination (Cont.)

SOV/93-58-12-4/16

Academy of Sciences USSR determined experimentally that strata of extreme permeability and subject to caving can be shut off with the aid of auxiliary casing strings called "letuchki" (Fig 2). The above techniques for the elimination of flushing fluid absorption in drilling were successfully adopted by the Tatburneft' Trust. They conclude that the techniques for the elimination of fluid absorption must be adapted to the absorption intensity, that when permeability exceeds 100 cu m/hr the stratum be plugged with cement and a dynamic level maintained in the well, and that in cases of extreme permeability and cavitation the strata be shut off with auxiliary casing or bypassed by drilling new bore holes. There are 2 figures, 3 tables, and 6 Soviet references.

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GRIGOR'YEV, M. S.

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用印度和短星之间发展

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