IGNAT'YEV, A.F., kand.tekhn.nauk; DOROFEYEV, B.F., insh.

New types of self-unloading gondola cars. Trudy KHIIT
no.34:52-70 \*59. (MIRA 13:1)

(Railroads--Freight cars)

DOROFFIEV, B.F., insh.

Calculating the stability of dumcars in operation. Trudy
KHIIT no.34:71-91 159. (HIRA 13:1)

(Railroade--Freight cars)

SOV/144-58-11-12/17

- AUTHORS: Dorofeyev, B. G. (Senior Lecturer), Meyerovich, Sh. S. (Cardidate Technical Sciences, Docent, Department Head), Stukalkin, A. N. (Engineer), Kurochka, A. L. (Engineer).
- Experimental Investigation of the Ventilation of Electric TITLE: Locomotive Starting Resistances of a New Type (Eksperimental'noye issledovaniye ventilyatsii elektrovoznykh puskovykh soprotivleniy novogo tipa)
- PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1958, Nr 11, pp 107-111 (USSR)
- ABSTRACT: Resistances type KF are used on electric locomotives types N-8 and VL-23 and others. Previous work has shown that although these metal strip resistors are much better than the previous cast iron ones, the coils are not uniformly cooled and there is a temperature difference of 240°C between the front and back of the element and accordingly the material is not so fully used as it should be. Accordingly, new types of resistance have been developed at the Novocherkassk Electric Locomotive works, and the Novocherkassk Polytechnical Institute, and the works laboratory has collaborated in testing

Card 1/4

SOV/144-58-11-12/17

Experimental Investigation of the Ventilation of Electric Locomotive Starting Resistances of a New Type

the cooling of such a starting resistance type LF-1. The construction of resistance box type LF-1 is described and illustrated diagrammatically in Fig 1. The comparison between resistances type KF and type LF-1 given in Table 1 shows that the new resistances are smaller, and lighter and use much less insulation than the old though they are of higher power. The new resistances are also of simpler construction than the old. It is required that under operating conditions the local temperature rise of the resistance element surface should not exceed 450°C. In order to make the necessary tests of temperature rise a simple wind-tunnel was constructed, which is described and illustrated diagrammatically in Fig 3. In the tests measurements were made of the air flow, the temperature rise of the resistance elements, the power consumption and the air temperatures at inlet and outlet. The methods of measurement are described. The air speed ranged up to 8.75 m/sec and the current from 98 to 230 A. The test procedure is described. It was found that the heating is much more uniform than in resistances type KF.

Card 2/4

30V/144-58-11-12/17

Experimental Investigation of the Ventilation of Electric Locomotive Starting Resistances of a New Type

According to conditions the greatest difference between the temperature rise of front and rear surfaces was 60-160°C, and accordingly the power of the resistance could be increased by 34% or the flow of cooling air could be reduced. The relationship between the permissible current and rate of air flow is given in Fig 4. An equation is given for the relationship between the permissible current and the air flow when all nine rows of resistance are in use, with a temperature rise of 450°C. Temperature rises of the different rows of resistances are given in Fig 5 and Fig 6. The temperature distribution could be somewhat improved by

Card 3/4

SOV/144-58-11-12/17

Experimental Investigation of the Ventilation of Electric Locomotive Starting Resistances of a New Type

altering the design of the fixing pins in the centre of the elements. There are 6 figures and 1 Soviet reference.

ASSOCIATIONS: Kafedra teoreticheskikh osnov teplotekhniki Novocherkasskogo politekhnicheskogo instituta; Novocherkasskiy
elektrovozostroitel'nyy zavod (Chair of Theory of Fundamentals
of Thermal Power Engineering, Novocherkassk Polytechnical Institute, and Novocherkassk Electrical Locomotive Works)

SUBMITTED: July 2, 1958.

Card 4/4

110-58 -5-3/25

AUTHORS: Dorofeyev, B.G., Lozanovskiy, A.L., Engineers and

Meyerovich, Sh.S., Ushakov, V.G., Candidates of

Technical Sciences

TITLE: The Cooling of Tape-wound Starting Resistances Type KF

(Ob okhlazhdenii lentochnykh puskovykh soprotivleniy

tipa KF)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Vol 29, Nr 5, pp 9 - 12 (USSR).

ABSTRACT: Resistance-alloy tape-wound resistances, type KF, are used as starting resistances in electric locomotives, type N8 and VI-23 and in motor coaches, trolley buses, etc. They are cooled by free or forced-air circulation and are appreciably lighter, smaller and cheaper than cast-iron resistances. However, they are not widely used because inadquate information is available about their thermal rating.

The Novocherkassk Polytechnical Institute and the laboratory of the electric locomotive works made an experimental study or the cooling of the resistances. They consist of assemblies of standard resistance elements. An individual element, illustrated in Figure 1, consists of resistance-alloy ribbon wound on edge to form a coil which is insulated from its channel-shaped supporting bar by 2 segmental porcelain insulators.

110-58-5-3/25

The Cooling of Tape-wound Starting Resistances, Type KF

The rate of air flow and the aspect of the element in relation to the flow have an important bearing on the rating. It is known from operating experience that the highest local temperature should not exceed 450°C, or else the porcelain insulators crack. It was required to find the relationship between the permissible loading and the air speed.

Thermocouples were used to determine the temperature of the element at different places. The air speed ranged from 0 - 18 m/sec. The current was so chosen that the highest local temperature did not exceed 350°C. In one arrangement, the porcelain insulators were arranged head-on to the air stream, as shown in Fig. 3a, which is the usual arrangement. The arrangement of 3b, in which the insulators are edge-on across the stream, was also tested. In both cases, the outer edges of the resistance elements were found to be better cooled than the inner. Thus, the conditions of cooling are not greatly changed when the element is turned through 90°. Also, under a wide range of conditions, the maximum temperature is on the leeward side of the coils. For example, with an air flow of 15 m/sec and a current of 142 A, the temperature of the leeward Card2/5parts of the spiral was 382°C, the top and bottom were at

110-58-5-3/25 The Cooling of Tape-wound Starting Resistances, Type KF

142 °C and the windward side 90 °C. Holes were than made in the supporting bars to reduce the temperature of the leeward side of the coils. The holes occupied 20% of the area of each bar. With this arrangement the cooling was much more uniform and the current rating could be increased. The relationship between the rate of air flow and the permissible current in the element, in the two alternative positionings described above, are shown in Figure 4. Tests were next made on a complete starting-resistance assembly consisting of four rows of seven elements each. Measurements were made of air flow, coil temperatures and power. Once again, the middle of the elements was bottest. The temperature difference between the windward and leeward parts of a coil was 100 °C. The third row of elements was the hottest, and showed the highest temperature on its leeward side but the porcelain insulators did not get too hot. A graph of the relationship between the permissible current and the rate of air flow for a maximum temperature of 350 is given in Figure 5. In addition to the usual assembly with the elements arranged one behind the other, a staggered Card3/5 honeycomb arrangement was tried, the size of the box and

110-58-5-3/25

The Cooling of Tape-wound Starting Resistances, Type KF

the number of elements being unchanged. Again holes were drilled in the bars. The performance graphs plotted in Fig. 5 show that the rating is higher with the honeycomb than with the usual square arrangement. With an air flow of 45 m<sup>3</sup>/min, the permissible current for the standard box is 46.75 A but in the modified assembly it was 51.9 A. This applies only with forced cooling; with natural ventilation the honeycomb arrangement is not so good. A number of tests were also made under conditions of transient loading to determine the time different loads take to produce a temperature of 350 °C. The honeycomb arrangement was used and the results given in Figure 6, show that the resistances take about an hour to reach a steady temperature with the normal rated current, although cast-iron elements take still longer. Starting from cold, the resistances can carry up to three times rated current for 5 minutes. Under transient conditions, the rate of forced ventilation is important only for light currents. With currents of the order of 60 A and air-flow rates up to  $20 \text{ m}^2/\text{min}$ , the permissible time of operation is 4-6 min and is practically independent of the rate of air flow.

Card4/5

The Cooling of Tape-wound Starting Resistances, Type KF

There are 6 figures.

ASSOCIATIONS: Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnical Institute) and Novocherkasskiy elektrovozostroitel'nyy zavod (Novocherkassk Electric Locomotive Works)

SUBMITTED: June 24, 1957

Card 5/5

DOROFEYEV, B.G.

Studying the heat transmission of LF-2 electric resistors.

Trudy NPI 106:27-32 '60. (MIRA 15:5)

(Electric resistors)

(Electric railway motors)

DOROFEYEV, B. G., Cand. Tech. Sci. (diss) "Investigation of Heat Transfer of Electrical Resistances, Applied to Electrical Powered Transport," Moscow, 1961, 16 pp. (Moscow Inst. Railroad Transp. Engr.) 200 copies (KL Supp 12-61, 266).

DOROFEYEV. B.G.

Study of the heat emission of different types of electric resistors. Trudy MIIT no.139:200-205 '61. (MIRA 16:4)

1. Novocherkasskiy politekhnicheskiy institut. (Electric resistors)

DOROFEYEV, B.G.; MEYEROVICH, Sh.S.; NOVOGRENKO, N.M.

Study of heat transfer and temperature fields of improved XF-1 and KF-2 electric resistors. Izv. vys. ucheb. zav.; elektromekh. (MIRA 14:9) 4 no.2:136-143 '61. (Electric resistors) (Electric railroads--Electric equipment)

DOROFEYEV, BORIS GRIGOR'YEVICH, starshiy prepodavatel!

Study of the heat emission of the LF resistances of electric loccmotives. Izv. vys. ucheb. zav.; elektromekh. 4 no.5:69-72 '61. (MIRA 14:7)

1. Kafedra teotericheskikh osnov teplotekniki Novecherkasskogo politekhnicheskogo instituta.

(Electric locomotives) (Electric resistors)

SMIRNOV, A.I.; TSOKANOVA, T.G.; BONDARENKO, Ye.M.; NOVOGRENKO, N.M.; DOROFEYEV, B.G.

Heat transfer of type SF-80 and LF-9B tape-wound resistors with air cooling. Sbor. nauch. trud. EINII 2:205-212 '62. (MIRA 16:8)

(Electric resistors—Cooling) (Heat—Transmission)

## "APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004110100

MEYFROVICH, Shmerko Samuilovich, kand.tekhn.nauk, dotsent; DOROFEYEV, Boris Grigor'yevich, kard.tekhn.nauk, ispolnyayushchiy obyazannosti dotsenta

Heat emission of KF type electric resistors. Izv. vys. ucheb. zav.; elektromekh. 6 no.11:1271-1273 '63. (MIRA 17:4)

1. Zaveduyushchiy kafedroy teoreticheskikh osnov tepletekhniki Novocherkasskogo politekhnicheskogo instituta (for Meyerovich). 2. Kafedra teoreticheskikh osnov teplotekhniki Novocherkasskogo politekhnicheskogo instituta (for Dorofeyev).

MAYDRIKOV, F.I., inzh.; NOVOCRENKO, N.M., inzh.; BONDARENKO, Ye.M., inzh.; YASTREBOV, A.V., inzh.; SMIRNOV, A.I., inzh.; DOROFEYEV, B.G., inzh.

New designs of air cooled resistances. Vest. elektroprom.

33 no.5:24-28 My '62. (MIRA 15:5)

(Novocherkassk—Electric equipment industry)

(Electric railroads—Electric equipment)

(Electric resistars)

BONDARENKO, Ye.M., inzh.; EMIRNOV, A.I., inzh.; DOROFEYEV, B.G., kand. tekhn. nauk

Investigation of thermal and aerodynamic parameters of resistor blocks made from a tape-wound high-resistance alloy. Elektrotekhnika 36 no.5:27-30 My '65. (MIRA 18:5)

DOROFEYEV, B.V.

Interpretation of H and A type curves. Trudy Sver.gor.inst.
no.34:91-94 '59. (MIRA 13:5)
(Electric prospecting)

DOROFEYIN B.V.

Qualitative interpretation of vertical electric sounding curves.

Trudy Sver.gor.inst. no.34:95-99 '59. (MIRA 13:5)

(Electric prospecting)

LAPIDUS, Mikhail Khlovenovich; DOROFEYEV, B.V., red.

[New developments in financing construction] Novoe v finansirovanii stroitel\*stva. Leningred, 1964. 42 p. (MIRA 18:3)

RAKHMANOV, Yuriy Nikolayevich; DOROFEYEV, B.V., red.

[Progressive forms of payments in construction] Progressivnye formy raschetov v stroitel'stve. Leningrad, 1965. 30 p. (MIRA 18:5)

## "APPROVED FOR RELEASE: Friday, July 28, 2000 CIA-RDP86-00513R0004110100

ANAN'YEVA. Ye.M.; DOROFEYEV, B.V.

deplogical elements of the eastern slope of the Uncle and trans-Unal region based on geophysical data. Truly Step. gor. inst. nc.43:33-41 463. (MHA 18:7)

0

FLEROV, B.L.; BULAYEVSKIY, D.S.; DOROFEYEV, D.A.

Geological position of lead-zinc mineralization in the southern Verkhoyansk Range. Geol.rud.mestorozh. no.2:59-74 Mr-Ap '62. (MIRA 15:4)

1. Yakutskiy filial Sibirakogo otdeleniya AN SSSR i Aldanskoye rayonnoye geologorazvedochnoye upravleniye.

(Verkhoyansk Range-Ore deposits)

DOROFEYEV, D.A.

A type of tungsten deposits in eastern Yakutia. Mat.po geol.i pol.iskop.IAk.ASSR no.5:12-31 '61. (MIRA 15:7) (Yakutia—Tungsten ores)

FLEROV, B.L.; DOROFEYEV, D.A.

Indium in lead-sine deposits in the southern Verkhoyansk Range region. Trudy IAFAN SSSR.Ser.Geol. no.16:39-48 '63. (MIRA 16:9)

8/137/62/000/003/163/191 A160/A101

18.8310

**AUTHORS:** 

Rabkin, M. A.; Dorofeyev, D. S.; Torgovitskaya, S. B.;

Pogrebnaya, Ye. S.

TITLE:

The protection of low-carbon steel by a metallized layer from

stainless chrome-nickel steel

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 13, abstract 3569.

(Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1960, vyp. 6, 262 - 274)

To ascertain the protective action of a stainless steel sprayed on TEXT: a non-alloyed low-carbon steel, determined were the corrosion rate and the electronic potentials of test pieces made from CT3 (St.3) steel and metallized with 1x18H9T (1x18N9T) steel. Plates from St.3 steel, each measuring 80x40x3 mm, were used as samples. Before spraying-on the stainless-steel layer, the pieces were etched in HCl and degreased with CCl4. Then the samples were coated with the stainless 1x18N9T steel. The whole surface of the sample, including its ends, were metallized. The protective action of the coating on the rate of dissolving of the plates was determined in aqueous solutions of H2SO4, HNO3 and HC1 with

Card 1/2

S/137/62/000/C03/163/191 A160/A101

The protection of low-carbon steel by a .....

different concentrations. The electrode potentials of the pieces were measured in H2SO4 and HNO3 solutions. The experiments yielded the following results: (1) The resistance of the metallized samples in HC1 is lower than the resistance of a low-carbon steel. (2) The resistance of metallized samples in 1500 depends on the concentration of the latter. The maximum corrosion rate of metallized pieces is observed, in contrast to the samples made from St.3 steel, in a 15 % solution of H2SO4, i.e., the passivation of metallized pieces appears at a lower concentration of acid as compared to non-metallized samples. (3) The electrode potential of the metallized steel in H2SO1 is more positive than the electrode potential of the non-metallized steel, and grows with an increase in the concentration of acid. (4) The resistance of the metallized steel in HNO3 is 3,000 times higher than the resistance of a non-metallized steel. (5) The higher the concentration of INO3 and the longer the duration of its action, the lower the corrosion rate of metallized samples. Compared to a low-carbon steel which passivates in a 60 - 80 % solution of  $HNO_3$ , the metallized pieces undergo passivation in a 30 % solution of HNO3.

V. Tarisova

[Abstracter's note: Complete translation]
Card 2/2

DOROFEYEV, D. V.

"The Development and Investigation of Automatic Devices for Thermal Resistance." Cand Tech Sci, Belorussian Polyteshnic Inst imeni I. V. Stalin, 25 Dec 54. (SB, 14 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: SUM. No. 556, 24 Jun 55

Applications and sec		DOROFE YEV, D.V.			
Inst.energ.AN BSSR n	condary characteristics no.1:62-81 '54. (Thermistors)	of thermistors. Trudy (MLRA 9:8)			
•					

## "APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004110100

PORO FEYEU, D. V.

USSR/Chemical Technology. Chemical Products and their Application. J-12 Glass. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27682

Author : D.V. Dorofeyev.

Inst : Belorussian Polytechnical Institute

Title : Characteristics of Dependence of Schiconductor Resistivity on

Temperature.

Orig Pub: Sb. nauch. rabot Beloruss. politekhn. in-ta, 1956, No 46, 102-111.

Abstract: The temperature dependence of the resistivity R of thermoresistors up to 150° has an exponential character:  $R = R_{\infty} \cdot e^{R/7}$ , where  $R_{-}$  is the conventional resistivity at  $T = \infty$ , B is a constant characteristic of the material of the thermoresistor, and T is the temperature of the body of the thermoresistor in °K. The magnitude of the temperature factor  $\infty$  at some constant temperature T is determined by the value of the constant B, because  $\infty = -B/T$ . The dependence between the voltage and current

Card : 1/3

-67-

USSR/Chemical Technology. Chemical Products and their Application. J-12
Glass. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27682

is expressed by the equation U=I.  $R_{\infty}$ .  $e^{B/T}$ . Considering that at any given magnitude of the current, the heating of the thermoresistor is determined by the conditions of the heat interchange with the medium, the temperature and the resistance may have several values at the same current. In the result of the above, the voltage in the thermoresistor can have several values at the same current magnitude, i.e., it can be deformed. Therefore, it is necessary to have a settled regime of self-heating in order to obtain the volt-ampere characteristic set in advance. If b is the heat emission factor, T is the absolute temperature of the medium, then the voltage will be determined by the equation:  $U = \int R_{\infty} \cdot b(T - T_0) \cdot e^{B/T} \int_{-\infty}^{\infty} Consequently$ , a change of the heat emission factor b causes a deformation of the volt-ampere characteristics, which can be utilized in corresponding installations. Giving various shapes

Card : 2/3

-68-

## "APPROVED FOR RELEASE: Friday, July 28, 2000 CIA-RDP86-00513R0004110100

USSR/Chemical Technology. Chemical Products and their Application. J-12 Class. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27682

and dimensions to thermoresistors of the same material, it is possible to obtain various values of  $R_{\bullet}$  in each of them. Under conditions of a settled regime, the voltage in the thermoresistor can have a maximum at  $B \gg 4T_0$ , i.e., at low temperatures of the medium, the voltampere characteristic can have a maximum at small magnitudes of B, but with the rise of the temperature of the medium, a maximum is possible only at sufficiently great values of B.

Card : 3/3

-69-

105-9-13/32

AUTHORS

Nechayev G.K, Dorofeyev D.V., Candidates of Technical

Sciences.

'TITLE A Relay

A Relay Effect in Circuits Regulating Temperature.

(Releynyy effekt v skhemakh regulirovaniya temperatury - Russian)

Elektrichestvo, 1957, Nr 9, pp 53 - 54 (U.S.S.R.)

PERIODICAL ABSTRACT

Only direct current-jump is made use of in temperature indicators and heat protection; the authors here show that for temperature regulation also the whole cycle, that is to say the direct-and the rebound of the current can be used. If a relay is connected in series with a thermal resistance, response of the relay at 01 and a disconnection at  $\theta_2$  can be attained in the case of a corresponding parameter selection. 01 is a temperature at which the amperage increases, and  $\theta_2$  is that at which it decreases. If the characteristics on the occasion of the increase of current are recorded and the process is then arranged the reverseway, a coincidence of the curwes can not always occur. Such a coincidence was obtained in the case of a thermal resistor KMT-11; this was the case with a diameter of the closed donor of d=53 mm. Therefore this resistance is recommended for works in plants using the relay effect. The scheme given here was checked experimentally and showed the best results. The temperature could be regulated within the limits of  $\theta=\theta_1-\theta_2=2^{\circ}\text{C.}\theta_2^{\circ}$  -is the temperature of negative reaction. (5 illustrations and 5 Slavic references)

Card 1/2

A Relay Effect in Circuits Regulating Temperature. 105-9-13/32

ASSOCIATION Institute for Electrical Engineering of the A.N. of the UkrainianSSR (Institut elektrotekhniki AN UkrSSR) and Minsk Institute for the Electrification and Mechanization of Agriculture (Minskiy institut elektrifikatsii i mekhanizatsii sel'skogo khozyaystva -).

SUBMITTED

March 18,1957 AVAILABLE Library of Congress.

Card 2/2

67973 SOV/112-59-21-44642

9.2000

Referativnyy zhurnel. Elektrotekhnika, 1959, Nr 21, p 148 Translation from: USSR)

Dorofeyev, D.V. AUTHOR:

The Plotting of Static Characteristics of a Thermistor by the TITLE:

Method of Interpolation

Sb. nauchn. rabot Belorussk. politekhn. in-t, 1957, Nr 61, pp 121-PERIODICAL:

126

By an experiment with thermistors of KMT-10 and MMT-1 type has been found out, that within the temperature range of 10 - 80°C the power ABSTRACT:

dissipated in the thermistor is a linear function of the environ-ment temperature. Therefore, if the volt/ampere characteristics at two values of the environment temperature are experimentally obtained, it is possible by means of interpolation to find the volt/ ampere characteristic for any given environment temperature. The technique of plotting is as follows: Several values of current must be taken and for each of them the power dissipated in the ther-

mistor at certain environment temperatures must be computed. Through

Card 1/2the points obtained straight lines are plotted in orthogonal system

CIA-RDP86-00513R00041101001 **APPROVED FOR RELEASE: Friday, July 28, 2000** 

67973

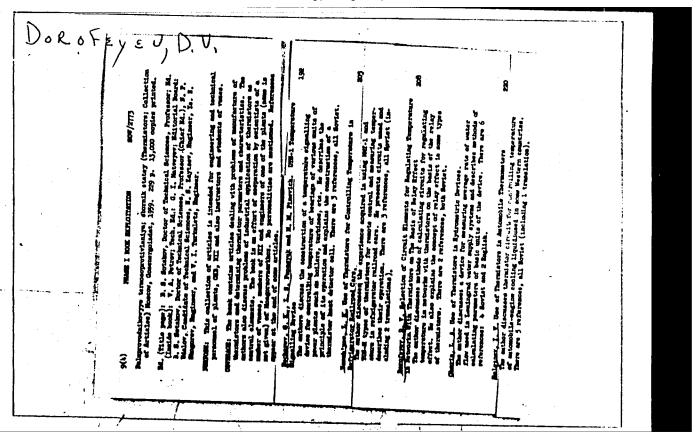
SOV/112-59-21-4/542

The Plotting of Static Characteristics of a Thermistor by the Method of Interpolation

of coordinates. These lines are graphs showing the dependence of the power dissipated in the thermistor on the environment temperature, and they make it possible to determine the power dissipated at a given temperature and consequently the voltage drop on the thermistor at a desired value of current. Volt/ampere characteristics plotted by the method of interpolation agree well with those obtained experimentally. 5 references.

N.P.U.

Card 2/2



DOROFEYEV, F., podpolkovnik

Firing with the aid of a radar station. Voen. vest. 43 no.2:71-73 F 164. (MIRA 17:1)

#### "APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004110100

DOROFEYEV, G.

Public pressure has helped. Sov.profsoiuzy 7 no.15:45 (MIRA 12:12)

1. Predsedatel postroyechnogo komiteta tresta No.40 Tatarskogo sovnarkhoza. (TATAR A.S.S.R. -- Construction industry)

KORNEVA, N.K.; DOROFEYEV, G.A.; GRINEVICH, I.P.; VINOKUROV, Ye.B.

Determining the optimum frequency of reversing the fuel spray in open-hearth furnaces. Metallurg 9 no.5:22-23 My 164.

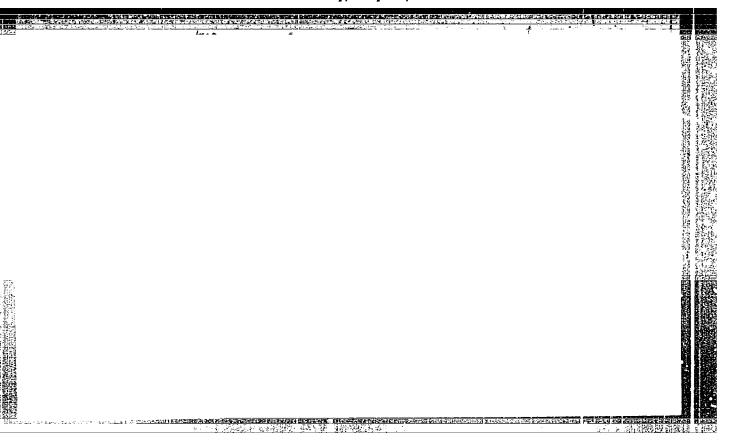
(MIRA 17:8)

1. Donetskiy filial Ukrainskogo nauchno-issledovatel\*skogo instituta metallov i zavod im. Il\*icha.

SPIVAK, P.Ye.; YEROZOLIMSKIY, B.G.; DOROFKYEV, G.A.; LAVRENCHIK, V.I.

[Measurement of resonance absorption integrals for various substances and of the multiplication coefficient (effective number of secondary neutrons) of resonance neutrons for fissionable isetopes] Immerenia resonansnykh integralov poglashchenia dlia razlichnykh veshchestv i koeffitsienta razmoshenia (effektivnogo chisla vterichnykh neitronov) na rezonansnykh neitronakh dlia deliashchikhsia izetopov. Meskva, 1955. 13 p.

(Neutrons) (Isotopes) (Nuclear fission)



DOROFFYEV, G.A.

Category : USSR/Nuclear Physics - Nuclear Reactions

U-

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 557

Author : Spivak, P.To., Wirozolimskiy, B.G., Dorofeyev, G.A., Lavrenchik, V.N.,

Kutikov, I.Ka, and Dobrynin, Yu. P.

Title : Determination of the Average Number of Neutrons, Peff, Emitted by a

Single Capture Act for the Isotopes U233, U235, and Pu239 in the

Ultrathermal Region of Neutron Energies.

Orig Pub: Atom. energiya, 1956, No 3, 13-20

Abstract: The variation of  $\nu_{\rm eff}$  was measured for the isotopes U<sup>233</sup>, U<sup>235</sup> and Pu<sup>239</sup> in the ultrathermal region of neutron energy.  $\nu_{\rm eff}$  of U<sup>233</sup> remains unchanged all the way up to energies on the order of 100 ev.  $\nu_{\rm eff}$  of Pu<sup>239</sup>

diminishes by 12% during the transition from the thermal spectrum to the of 0.15 -- 0.5 ev energy spectrum, and then remains unchanged.  $\nu_{\rm eff}$  of U<sup>235</sup> remains unchanged upon transition from the thermal spectrum to the 0.15 -- 0.5 ev energy spectrum, and then drops by 18% upon transition

to the energy spectrum 8 -- 130 ev.

Card : 1/1

Dorofeyer, E.A.

Cetogory: USSR/Nuclear Fhysics - Nuclear Reactions

C-5

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6040

Author

: Spivak, P.Ye., Yerozolimskiy, B.G., Dorofeyov, G.A., Lavrenchik, V.N., Kutikov, 1.Ye., Dobrynin, Yu.!.

: Average Number of Neutrons of Enitted by the U233, U235, and Pu239 Isotopes Upon Capture of Neutrons with Energies from

30 -- 900 kov.

Orig Pub : Atom, energiya, 1956, No 3, 21-26

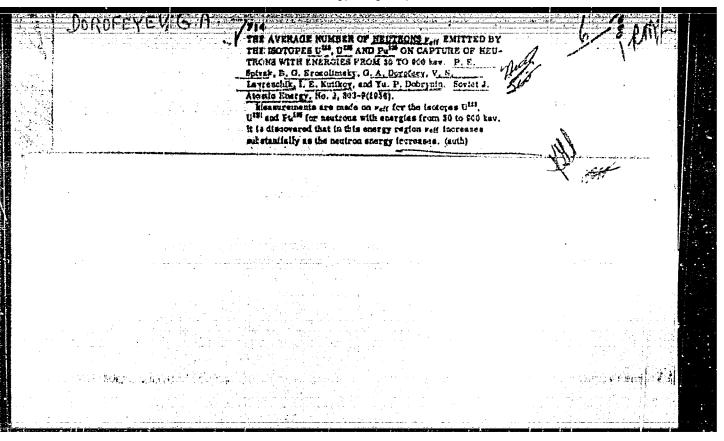
Abstract: The values of Veff of U233, U235, and Fu239 were measured for 30 -- 900 kev neutrons by means of a method employing two indicator systems, having a different dependence of the efficiency of the neutron energy. The promary-neutron sources employed were the photoneutron sources Sb124 + Be (30 kev), Gc72 + D20 (140 kev) Na24 + D20 (250 kev), and Na24 + Be (900 kev)

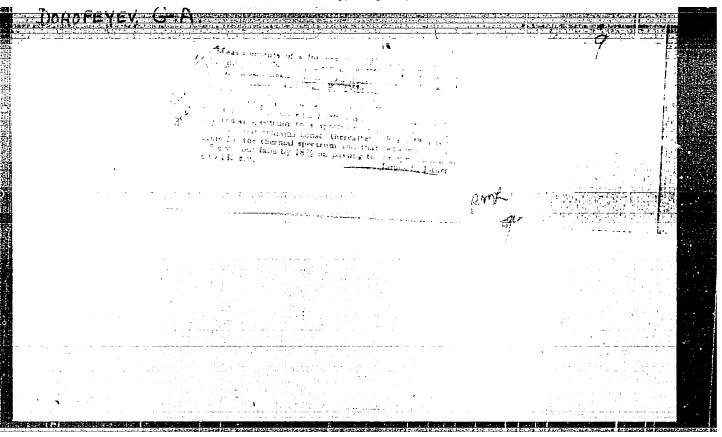
kev).

The results obtained are listed in the tables

: 1/2 Card

Title





DOROFEYEV, G.A.

AUTHOR:

DOROFEEV, G.A., DOBRYNIN, JU.P.

PA - 2049

TITLE:

The Cross Sections of the Fission U233, U235, U239 and Pu240 for Neutrons with Energies of from 30 keV to 5 MeV (Russian).

PERIODICAL:

Atomnaia Energiia, 1957, Vol 2, Nr 1, pp 10-17 (U.S.S.R.) Reviewed: 3 / 1957 Received: 3 / 1957

ABSTRACT:

I. Measuring of the dependence of the cross sections of the fission of U233, U235 and Pu239 was carried out by counting the fission fragments by means of an ionization chamber containing layers of the fissioning substances. The experimental order is demonstrated by means of a drawing; the chambers used for fission were filled with (90% Ar + 10% CO2) with 200 torr and operated according to the principle of electron collection. Also the control tests and corrections are discussed. The fission cross sections  $\sigma_{\mathbf{f}}$  were measured in series with one of the sources mentioned here and with the

source Sb + Be. The cross section for the neutrons of this source was put equal to one. A table contains the here found experimental values of the relative cross sections of for  $\mathbb{U}^{233}$ ,  $\mathbb{U}^{235}$  and  $\mathbb{U}^{239}$ , and also the definite values after consideration of the corrections.

Card 1/3

The Cross Sections of the Fission  $U^{233}$ ,  $U^{235}$ ,  $U^{239}$  and  $Pu^{240}$  for Neutrons with Energies of from 30 keV to 5 MeV (Russian).

II. The absolute values of of for U<sup>233</sup>, U<sup>235</sup> and Pu<sup>239</sup> were determined only for the neutrons of the source Sb + Ba. A graphite prism with proportionality counters filled with BF<sub>3</sub> was used as neutron indicator. Measuring results and the cross sections computed therefrom are given in a table and the corresponding corrections are discussed.

III. The absolute values of of for Pu<sup>240</sup> were measured for neutrons of different energies by the same method as used for measuring the relative values of of for u<sup>233</sup>. U<sup>235</sup> and Pu<sup>239</sup>. Measuring results are given in a table.

IV. Discussion of Measuring Results: The here found fission cross sections of

U<sup>233</sup>, U<sup>235</sup> and Pu<sup>239</sup> agree well with the data obtained by D.J.HUGHES and I.A.HARVEY, Neutron Cross Sections, Mc Graw-Hill Comp., N.Y. (1955). With respect to other works, both agreement as well as considerable disagreement was found.

Card 2/3

The Cross Sections of the Pission  $u^{233}$ ,  $u^{235}$ ,  $u^{239}$  and Pu<sup>240</sup> for Neutrons with Energies of from keV to 5 MeV (Russian).

The data supplied by the last-mentioned table permit the conclusion that the threshold of the fission of  $Pu^{240}$  is between 250 and 900 keV. The values of the fission cross section of  $Pu^{240}$  obtained by the present work agree within the limit of measuring accuracy with the value of  $(1,6\pm0,3)$  mentioned by JU.S.ZAMJATNIN, Atomnaia Energia, enclosure Nr 1 (in print).

ASSOCIATION: Not given

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

Card 3/3

DOROFEYEV, G.A.

AUTHORS TITLE

Dobrynin Yu.N., Dorofeyev, G.A., Kutikov I.Ye. 89-10-9/36 Measurement of Resonance Absorption Integrals in Zirconium Speci-

(Izmereniya rezonansnykh integralov pogloshcheniya obraztsov tairkoniya - Russian)

PERIODICAL

Atomnaya Energiya, 1957, Vol 3, Nr 10, pp 323 - 324 (U.S.S.R.)

ABSTRACT

Zirconium specimens with a different content of hafnium were introduced into the center of a graphite prism and irradiated with a collimated neutron beam of the reactor B.B.P. Measurements were connected with the resonance integral for boron = 3756.

was measured at (2,3+0,5) for pure zirdonium.

0,4eV

There are 1 table and 2 Slavic references.

SUBMITTED AVAILABLE Card 1/1

May 20, 1957 Library of Congress.

DOROFEYEV, G.A.

89-10-12/36

AUTHORS

Dorofeyev, G.A., Kutikov, I.Ye., Kucher, A.M.

TITLE

Comparison between USSR and Swedish Neutron Standards. (Sravneniye standartnykh neytromykh istochnikov SSSR

i Shvetsii.)

PERIODICAL

Atomnaya Energiya, 1957, Vol. 3, Nr 16, pp.328-330

(USSE)

ABSTRACT

The Russian neutron standard scurce H26 was measured

in 1952 at (4.70 ± 0,50) . 105 m/meo, and the source H22 was measured in 1951 at

 $(5.96 \pm 0.17) \cdot 10^{5}$  m/sec.

The Swedish neutron standar source Q1 was measured 1952-1954 by Larson at (2,65 - 0,05) . 10 n/sec. On the occasion of Larson's visit to Moscow the three

sources were compared among one another and

 $Q_1/Q_{H22} = 0,439 \pm 0,5 \%$  and  $Q_{H26}/Q_{H22} = 0,082 \pm 0.5 \%$ 

was measured. If, in addition the time factor is taken into account, the three sources have (for 1957)

the value:

CARD 1/2

89-10-12/36

Comparison between User and Swedish Neutron Standards.

$$Q_{\rm H26} = 6,07 \cdot 10^6 \rm n/sec$$

$$Q_{\rm H22} = 4,82 \cdot 10^5 \rm n/sec$$

$$Q_1 = (2,86 \pm 0,06) \cdot 10^6 \text{n/sec}.$$

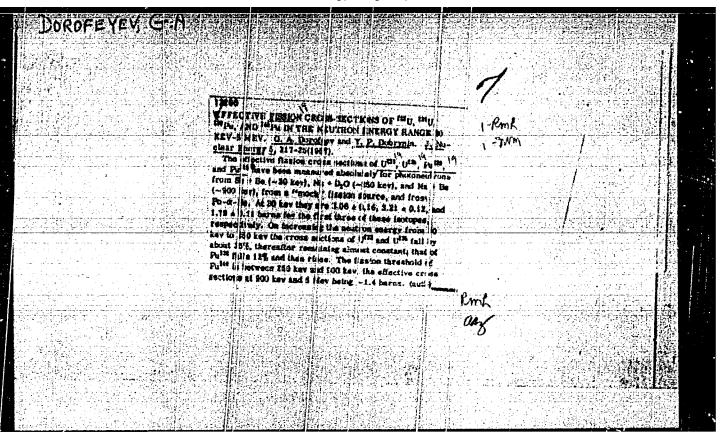
There are 2 tables, 1 figure and 6 Slavic references.

ASSOCIATION:

None given.

SUBMITTED: AVAILABLE: 20.5. 1957. Library of Congress.

CARD 2/2



SOV-25-58-10-15/48

AUTHOR:

Dorofeyev, G.A., Candidate of Physical and Mathematical Sciences, Scientific Consultant of the "Atom" Section at the Brus-

sels World Fair

TITLE:

Atom (Atom)

PERIODICAL:

Nauka i zhizn', 1958, Nr 10, pp 26 - 28 (USSR)

ABSTRACT:

The article deals with scientific instruments and apparatus exhibited at the Brussels Fair. There are 10 photographs.

Card 1/1

1. Scientific instruments--USSR

7 (5), 21 (1) AUTHORS:

Vatset, P. I., Tonapetyan, S. G., Dorofeyev, G. A.

507/89-7-2-16/24

TITLE:

A Neutron Detector Having Constant Sensitivity for Neutrons With Energies 0.025-14 Mev (Detektor neytronov s postoyannoy chuvstvitel'nost'yu k neytronom s energiyami ot 0.025 do 14 Mev)

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 2, pp 172-174 (USSR)

ABSTRACT:

The neutron detector described in references 1 and 2, with its paraffin and boron carbide shielding is modified (Detailed sketch Fig 1). First of all the diameter of the boron counter is enlarged to 30 mm. It is filled with BF3 (70 % B 10) of a 140 mm

Hg pressure, the operational voltage is 1700 v and the plateau approximately 300 v. The enlargement of the diameter of the counter relatively increased the sensitivity of the counter concerning fast neutrons. The examination of the detector sensitivity was made ir. "good geometry". The following neutron sources were used: Sb-Be, Ra-Be, Na-B. Na-Be. T(d,n)He<sup>4</sup> Pc.-Q-Be, and neutron source according to ref 3. The background caused by scattered neutrons did not exceed 6%. A 1 c strong Sb 124 7-source located at a 20 cm distance from the counter

card 1/3

A Neutron Detector Having Constant Sensitivity for Neutrons With Energies 0.025-14 Mev

507/89-7-2-16/24

did not impair the neutron sensitivity of the detector. The standard strength of the neutron preparations was known up to an accuracy of ± 3 %. The measurement of the relative intensity of the mentioned neutron sources was carried out with an accuracy of t 1.5 %. The location of the counter in relation to the paraffin block is sensitive. A few curves show that the sensitivity of the counter decreases when the boron counter is put into the paraffin block. It was shown by an experiment that in a certain position there is a constant sensitivity towards neutrons of energies of 0.8-14 mev. In another position the sensitivity of the detector for neutrons of an energy between 0.025 and 5 mev is constant in the measuring accuracy range (± 3%) and decreases by approximately 11% when the neutron energy reaches 14 mev. K. D. Sinelinikov, A. K. Valiter, I. V. Kurchatov and I. M. Golovin were interested in these studies and collaborated from time to time. T. I. Lyashenko and L. Ya. Kolesnikov participated in certain partial examinations. There are 3 figures and 3 references, 1 of which is Soviet.

Card 2/3

KARAMYAN, A.S. [deceased]; DORCFEYEV, G.A.; KLOCHKOV, D.S.

Neutron emission from strongly excited nuclei. Zhur. eksp. i teor.
fiz. 40 no.4:1004-1006 //p '61. (MIRA 14:7)
(Nuclear reactions) (Neutrons)

VASIL'YEV, R.D.; DOROWEYEV, G.A.; MORDOVSKAYA, G.S.; PETROV, V.I.; PIMENOV, M.I.

Study of a therial neutron source. Atom. energ. 15 no.3: 200-204 S 163. (MIRA 16:10)

(Neutron sources)

VASILITAY, E.D.; DOPOFEREY, G.A.; PLTLOY, V.I.; PREMOY, M.I.

Measurement of the neutron yield from pulse neutron accelerating tubes. Prib. 1 tokh. eksp. 9 no.6:32-33 N=D 164. (MEA 18:3)

YUDIN, Eikhmil Fedorovich; FOMINYKH, Vladimir Ignat'yevich;

<u>DOROFEYEV, G.A.</u>, nauchn. red.; SHEVCHENKO, A.L., red.

[Reutron dosimetry] Neitronnaia dozimetriia. Moskva, Izdvo standartov, 1964. 214 p. (MIRA 17:9)

L 19833-65 EWT(m) Pb-14 DIAAP/AFWL/ASD(a)-5/AMD/AFTC(b)/RAEM(d) DM 2/ ACCESSION NR: AP4049543 S/0089/64/017/005/0410/0412

AUTHORS: Garapev, E. F.; Gryaznov, Yu. N.; Dorofeyev, G. A.

TIME: Errors in the calibration of Gamma dosimeters in a collimated beam

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 410-412

TOPIC TAGS: radiation dosimetry, gamma detector, calibration spectrum

ABSTRACT: To study the errors due to the difference between test and laboratory conditions, the authors measured the variation in the radiation spectrum as a function of the aperture angle of the collimated beam, and of the distance between the detector and the source, with an aim at establishing a method for determining the contribution of the scattered radiation. The primary source w was  $2 \times 2$  cm of  $C_060$ . The measurements were made with a standard calibration rule.

Card 1/2

L 19833-65 ACCESSION NR: 11P4049543

The  $\gamma$  ray detector was an NaI(T1) crystal measuring 40 x 40 mm with an FEU-13 photomultiplier, placed 100, 200, 300 and 400 cm from the source. For each distance, spectra were taken at collimating—channel diameters 3, 14, 30, 40, and 60 mm. The accuracy of the measurements is discussed. It is concluded on the basis of the results that the bulk of the stray radiation in a collimated beam is produced in the shielding material in the direct vicinity of the source. The use of a cavity with dimensions equal to or larger than the diameter of the collimating channel greatly reduces the stray radiation, so that channels with diameter larger than 30 mm can be used without a noticeable change in the  $\gamma$  ray intensity in the beam. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 04Dec63

SUB CODE: NP. LS

NR REF SOV: 002

ENCL: 00

OTHER: 000

Cerd 2/2

27228-65 EWG 5)/EWT (m)/EPF(c)/EPR/EWP(5)/T/EWA(h)/EWA(1) Pc-4/Pr-4/Ps-4/Peb \$/0120/64/000/006/0032/0033 ACCESSION NR: AP5002142 WN/RM D. AAP

AUTHOR: Vasil'yev, R. D.; Dorofeyev, G. A.; Petrov, V. I.; Pimenov, M. I.

TITLE: Measuring the neutron yield of pulsed neutron tubes 19

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1964, 32-33

TOPIC TAGS: neutron source, neutron yield, neutron detector

ABSTRACT: An activation method is described of determining the neutron yield of a pulsed neutron tube by means of a device calibrated in a continuous neutron beam. The neutron detector was represented by a plexiglast cylinder whose diameter and height were 25 cm. Inside the cylinder, three Geiger counters were symmetrically mounted. The detector was placed at a distance of 10 cm or more from a tritium target in a sealed tube. Neutrons were produced by bombarding the target with 100-kev deuterons; the frequency of the neutron pulses was 1-400 cps; their duration,  $10^{-6} - 10^{-3}$  sec. The detector was irradiated by D, T-neutrons

#### L 27228-65

ACCESSION NR: AP5002142

obtained from a continuous neutron source for 1,000 sec, and a curve of decay of activated-to-saturation silver was measured. From these experiments, the coefficients for a neutron-yield formula were calculated. The average number of neutrons per pulse was found to be about  $5 \times 10^{\circ}$ . The authors wish to thank V. T. Shehelolev for lending them the neutron source and for his help in the experimentation. Orig. art. has: 6 formulas.

ASSOCIATION: none

SUBMITTEII: 25Nov63

ENCL: 00

SUB CODE: NP

NO REF SOV: 000

OTHER: 000

Card 2/2

TY CONTROL OF THE CON	the state of the s
L 68812-65 E/M(m)/EVA(h)  ACCUESSION NIC AP5008339 S/0115/65/000/001/0048/0050	
ACCESSION NI.: AP5008339  AUTHOR: Barychova, L. Ya.; Denisikov, A. I.; Donofeyev, G. A.; L. vova, L. A.; Bochkarev, V. V.; Garapov, F. F.; Gryllzhov, Yu N.	17
TITLE: Comparison of various methods of activity measurements by be	ta and the second
gamma radiations SOURCE: Izmeritel'naya tekhnika, no. 1, 1965, 48-50	
ABSTRACT: For evaluating the methods and accuracies of activity measurement, a number of Co <sup>60</sup> and Fe <sup>59</sup> preparations were tested in the laborate, a number of Co <sup>60</sup> and Fe <sup>59</sup> preparations were tested in the laborate, a number of Co <sup>60</sup> and Fe <sup>59</sup> preparations were tested in the laborate SSSR and Health Ministry SSSR. These methods were used: (1) GK AE SSSR and Health Ministry SSSR. These methods were used: (2) Garante gamma coinc dence (stilbene detector and MaI(TI) cryatal); (2) Garante coincidence: (3) Two 45-beta proportional flow counter; (4) End-wind counter; (5) Ionization chambers. The absolute measurements by methods and accuracies of activity measurement.	nsure- pratories of Beta- a-gamma
Card 1/2	

L 48813-65 ACCESSION NR: AP500	8339	
and 3 were found to be o	correct to within 11%. Measureme low specific activity of solutions ( na). Orig. art. has: 2 tables.	ents with F <sup>59</sup> were less gamma) and complicated
ASSOCIATION: none		
SUBMITTED: 00	ENCL: 00 S	UB CODE: NP
NO REF SC V: 005	OTHER: 003	
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Cord 2/2		

KORNEVA, N.K.; GRINEVICH, I.P.; DOROFEYEV, G.A.; ZARUBIN, N.G.; LEPORSKIY, S.V. An efficient design of the parts of high-capacity open-hearth

furnaces. Metallurg 10 nc.8:23-24 Ag 165.

(MIRA 18:8)

2. DonNIICHermet i zavod im. Il'icha.

KORNEVA, N.K.; ANDREYEV, V.L.; DOROFEYEV, G.A.; GRINEVICH, I.P.; VINOKUROV, Ye.B.; TKACHENKO, V.A.

Study of the operation of ports in heavy duty epen-hearth furnaces. Stal' 25 no.4:324-325 Ap '65. (MIRA 18:11)

1. Donetskiy institut chernoy metallurgii.

KULIKOV, V.O.; BORNATSKIY, I.I.; ZARUBIN, N.G.; DOROFEYEY, G.A.;

KALUZHSKIY, Ye.A.; KAZAKOV, A.A.; KOVAL', R.F.; KORNEVA, N.K.;

TRET'YAKOV, Ye.V.; TRUNOV, Ye.A.; Prinimali uchastiye: ANDREYEV, V.L.;

GORDIYENKO, V.V.; GRINEVICH, I.P.; GUBAR', V.F.; DOLINENKO, V.I.;

ZHERNOVSKIY, V.S.; ZHIGALOVA, Z.I.; KOMOV, N.G.; KURAPIN, B.S.;

OLESHKEVICH, T.I.; PRIKHOZHENKO, Ye.

Mastering the operations of 650- and 900-ton (mega - gram) capacity open-hearth furnaces at the II'ich metallurgical plant. Stal' 25 no.8:805-807 S '65. (MIRA 18:9)

1. DONNIICHERMET i Zhdanovskiy metallurgicheskiy zavod imeni Il'icha.

L 07957-67 EWT(m)	表 重要的 医加克斯氏性 "等身外,可是好多。"我想要说:"你想要是一个的情况,这一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人
ACC NR: AT6031328	SOURCE CODE: UR/3163/66/000/004/0026/0033
AUTHOR: Vasil'ye	v, R. D.; Dorofeyev, G. A.; Petrov, V. I.; Pimenov, M. I.;
Shevchenko, V. F.	<del></del>
ORG: none	27
TITLE. Determine	19 Bt/
energies up to 100	tion of the yield of <u>nuclear reactions</u> in thick targets with Kev
no. 4, 1966. Opred	nauchno-issledovateľskiy institut priborostroyeniya. Doklady, eleniye vykhoda reaktsiy Deyteriy (deyton, neytron) Geliy tri ytron) Geliy chetyry v tolstykh mishenyakh pri energiyakh
TOPIC TAGS: nucl counter/NG-200 cas	ear reaction, neutron, deuteron, neutron flux, all-wave scade accelerator
of nuclear reactions mercially produced up to 100 Kev. The	thick targets along accompanying particles at deuteron energies e neutron yield was measured with an NG-200 cascade accelerator, and of the virtual absence of scattering in target nuclei Ne $^3$
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confirn	n the yield	corr l of t	ection	counter. Resuons of the metheractions Date 11 formulas	od used to (d,n) He³	alibration of determine th and	the al ne neut <i>T(d,n)</i>	ron flu	coun x der	ter sity Orig
SUB CO	DDE:	20,	18/	SUBM DATE:	20Oct65/	ORIG REF:	001/	отн і	REF:	006/
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# "APPROVED FOR RELEASE: Friday, July 28, 2000 CIA

CIA-RDP86-00513R0004110100

IJP(c) EWT(m) SOURCE CODE: UR/3163/66/000/008/0022/0025 L 05826-67 ACC NR AT6031330 AUTHOR: Vasil'yer, R. D.; Dorofeyev, G. A.; Petrov, V. I.; Pimenov, M. I.; Shevchenko, V. F. TITLE: The method of similarity of radiation fields used in the adjustment of B+ neutron radiometers 14 SOURCE: Soyuznyy nauchno-issledovatel'skiy institut priborostroyeniya. Doklady, no. 8, 1966. Primeneniye metoda podobiya radiatsionnykh poley pri nastroyke neytronnykh radiometrov, 22-25 TOPIC TAGS: radiometer, gamma radiation, neutron flux density, all wave counter/RUP-1 radiometer, KPN-1 radiometer, KDUS-1M radiometer ABSTRACT: A method is described for adjusting radiometers by using the similarity of radiation fields produced by neutron sources. The methods were tested with an all-wave counter and RUP-1, KPN-1, and KDUS-1M radiometers. The discrimination threshold in all instruments was set up so as to make it possible to discount the effect of gamma radiation. The results of the adjustment of neutron radiometers by the method of similarity of the radiation fields were compared with the results of the calibration of the same subrange. In all cases, the results of the UDC: 539. 1. 075. 2:539. 125. 5 Card 1/2

ACC NRi AT6031330

adjustment and the calibration coincided within the limits of measurement error. The economic advantage of the method of similarity for the adjustment of radiometers is evident. In this case, the limits of radiometer calibration extend two or three times, the measurement time is reduced, and working conditions are safer from radiation. This compensates for the small decrease in the accuracy of the determination of neutron flux density with radiometers adjusted by the similarity method.

SUB CODE: 20, 18/ SUBM DATE: 05Jan66/

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Card 2/2

CIA-RDP86-00513R0004110100

L 05827-e/ EdT(m) IJP(e)

ACC NR: AT6031329

SOURCE CODE: UR/3163/66/000/007/0016/0022

AUTHOR: Vasil'yev, R. D.; Dorofeyev, G. A.; Petrov, V. I.; Pimenov, M. I.; Shevchenko, V. F.

ORG: none

11. +

TITLE: Calibration of radiometers of thermal neutrons in a diffused stream

SOURCE: Soyuznyy <u>nauchno-issledovateľskiy institut priborostroyeniy</u>a. Doklady, no. 7, 1966. Graduirovka radiometrov teplovykh neytronov v diffuznom potoke, 16-21

TOPIC TAGS: radiometer, thermal neutron/RUP-1 radiometer

ABSTRACT: A method is described for calibrating RUP-1 radiometers with a minimum of 10% accuracy. Results of calibration of thermal neutrons in a diffuse field and in a directed stream were compared. It was found that radiometers calibrated in a directed stream showed a reduced magnitude during measurements in a diffuse field. As a rule, diffuse fields occur in real conditions, therefore, readings of radiometers calibrated in a directed stream must be increased during

Card 1/2

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61. 07958-67 EWT(m)	
ACC NRI At6031327 SOURCE CODE: UR/3163/66/000/003/0022/0025	
AUTHOR: Vasil'yev, R. D.; Dorofeyev, G. A.; Petrov, V. I.; Pimenov, M. I.; Shevchenko, V. F.	# .
ORG: none	
TITLE: On the problem of using muclear reactions to calibrate radiometers of fast	
SOURCE: Soyuznyy nauchno-issledovatellekin ingtitut	
no. 3, 1966. K voprosu ob ispol'zovanii yadernykh reaktsiy Deyteriy (deyton, neytron) Geliy tri i Tritiy (deyton, neytron) Geliy chetyry dlya graduirovki radiometrov bystrykh neytronov, 22-25	
TOPIC TAGS: radiometer, nuclear reaction, neutron, neutron detector, neutron flux/NG-200 generator	
ABSTRACT: A study is made of the calibration of neutron radiometers with energies close to 2.5 and 14 Mev, formed during nuclear reactions $D(d,n)He^{d}$ and $T(d,n)He^{d}$ respectively. A neutron NG-200 generator was used as the accelerator. It was found that in some cases, neutrons from reaction	
Card 1/2 UDC: 539.1.075.2.089:539.172.4	

ACC NR. AT603	1327				]
T(d,n) He1	can be used to addu	76 imatuu	• • • • • • • • • • • • • • • • • • • •		١.
neutrons from	reaction D(d,n)lle	The calibration	error of noutron		
radiometers 10	r both reactions was calcul	ated as being the	sum of the mean		
eduare errors	in the determination of the	neutron flux densi	ty and the readi-	20.000	
the calibrated in the calibrated in the calibrate of the	instrument, and was of the	order of 5 to 10%.	Orig. art. has	<b>;</b> .	
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ACC NR. AP6022207

SOURCE CODE: UR/0115/66/000/005/0063/0065

AUTHOR: Vasil'yev, R. D.; Dorofeyev, G. A.; Petrov, V. I.; Pimenov, M. I.; Shevchenko, V. F.

ORG: none

TITLE: Calibrating thermal-neutron radiometers in diffused flux

SOURCE: Izmeritel'naya tekhnika, no. 5, 1966, 63-65

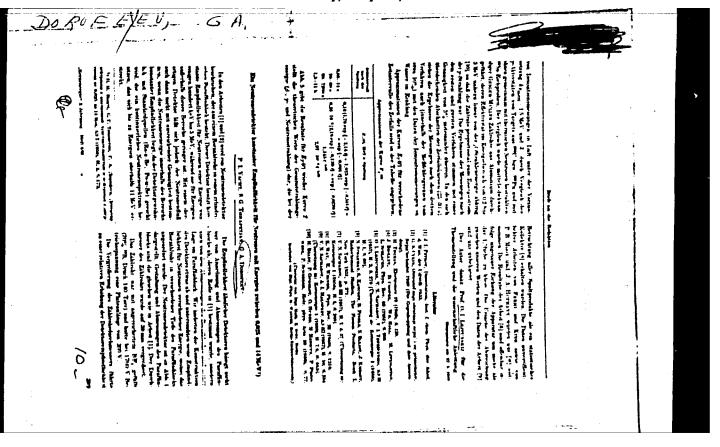
TOPIC TAGS: radiometer, thermal neutron

ABSTRACT: The possibility of using a graphite moderator as a source of thermal neutrons for calibrating neutron radiometers was explored. A fast-neutron source (T(d,n)He<sup>4</sup> reaction) was placed inside a cavity in the graphite. With thick industrial ZrT and TiT targets, the neutron yield reached 10° per sec, at 100 kv and 100 (\*amp in the cascade accelerator. Theoretically, Q/P = 7000 per cm²; experimentally, Hence, a field of thermal neutrons with a density of 106 neutr/sec.cm² was feasible; these neutrons had a Maxwellian energy distribution and a temperature of 29 K. The technique of calibration of Soviet-made RUP-1 radiometer is described in some detail. The radiometer calibrated in a directional flux showed readings by 30% lower than true value measurand when used in diffused fluxes. Orig. art. has:

SUB CODE: 18 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 001
Cord 1/1
UDC:621.039.564.2

"APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004110100



DOROFEYEV, G. I., kand.med.nauk

Result of penicillin serosol therapy of catarrhs of the respiratory tract about ship. Yoen.-med.zhur. no.8:81-82 Ag '57. (MIRA 10:12) (PENICILIN, therapeutic use. resp. catarrh., serosols (Rus)) (RESPIRATORY TRACT, diseases, catarrh, penicillin serosol ther. (Rus))

SMAGIN, G.A., prof.; DOROFEYEV, G.I., kand.wed.nauk

Clinical and physiological principles in the compound therapy of peptic ulcer, Terap.arkh. 31 no.8:56-61 Ag '59. (MIRA 12:11)

1. Iz kafedry terapii No.2 dlya usovershenstvovaniya vrachey (nach. -prof. G.A. Sungin) Voyenno-meditsinskoy ordena Lenina akademii imeni
S.M. Kirova.

(FEFFIC ULCER, therapy)

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Experience in prednisolone therapy for allergic complications of roentgen and curie therapy. Med.rad. 5 no.10:18-21 '60. (MIRA 14:2)

(PREGNA DIENEDIONE)

(RADIOTHERAPY)

(ALLERGY)

YAKOVLEV, S.I., doktor med.nauk; DOROFEYEV, G.I., kand.med.nauk; ONIKIYENKO, B.A.; POLUNOVA, Ye.N.

Clinical aspects and remote results of the treatment of acute poisoning with methyl alcohol. Voen.-med.zhur. no.3:40-44 Mr '61. (MIRA 14:7)

(METHANOL-TOXICOLOGY)

DOROFEYEV, C.I.; ONIKIYENKO, B.A.

Diagnosis of chronic radiation sickness. Med. rad. 6 no.1:9-12 (MIRA 12:3)

(RADIATION SICKNESS)

#### "APPROVED FOR RELEASE: Friday, July 28, 2000

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peroferay, G. I.

"Study of the Variations in Equivalent Parameters of Inductors During High-Frequency Heating." Cand Tech Jei, Leningrat Electrical Engineering Inst, Leningrad, 1954. (RZhFiz, Sep 54).

SO: Sum 432, 29 Mar 55

peraffyll, G.J.

VASIL'YEV, A.S., kand.tekhn.nauk; DOROFRYEV, G.I., kand.tekhn.nauk; ACHKINADZE, Sh.D., red.; GVIRTS, V.L., tekhn.red.

[Changes in load parameters during induction heating under various operating conditions of generators] Ismenenie parametrov nagruski pri induktsionnom nagreve v raslichnykh reshimakh raboty mashinnogo generatora. Leningrad, 1955. 7 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno tekhnicheskii nauchno-tekhnicheskoi propagandy. (NIRA 10:12) (Induction heating)

AID P - 1483

DOROFEYEV, G. 1.

Subject : USSR/Electricity

Pub. 27 - 34/36 Card 1/1

Author : Dorofeyev, G. I., Kand. of Tech. Sci.

Book review: A. Ye. Slukhotskiy and S. Ye. Ryskin. Title Inductors for Induction Heating of Machine Building

Details. Mashgiz, 1954. 320 pp.

Periodical: Elektrichestvo, 2, 86-87, F 1955

Abstract The book is written for employees of machine-building

and metallurgical factories, for workers at scientific research institutes, and also for the students of institutes of higher education. The reviewer states that the book is well written, contains much material and good illustrations, and that the deficiencies observed do not diminish its technical and educational

value.

Institution: Moscow Physical and Technical Institute

Submitted: No date

DOROFEYEV, G.I., kandidat tekhnicheskikh nank.

Ag '56. (MLRA 9:10)

1. Heskevskiy fizike-tekhnicheskiy institut.
(Electric cenducters)

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S/042/60/015/003/008/016XX C111/C222

Card 1/3

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S/042/60/015/003/008/016XX C111/C222

An Example of a Solvable, Though Non-Nilpotent Alternative Ring here t is the number of inversions of the lower indices of the elements of ax<sub>8</sub>; a' denotes a word with the same distribution of parantheses as ax<sub>8</sub> in which, however, all appearing elements of ax<sub>8</sub> are in natural sequence.



2. 
$$x_i \cdot (x_j x_k) =$$

$$\begin{cases} x_i(x_j x_k) & \text{for } i < j \\ -x_j(x_i \cdot x_k) & \text{for } i > j \\ 0 & \text{for } i = j \end{cases}$$

3. 
$$x_i \cdot [x_j(x_k x_1)] = [(x_k x_1) \cdot x_j] \cdot x_i$$

4. 
$$x_i \cdot [(x_j x_k) x_1] = [x_i (x_j x_k) + (x_j x_k) \cdot x_i] \cdot x_1$$

- 5. Let the product  $x_i \circ ax_k$  be defined for words  $\epsilon$  of the length  $\leq n$ ,  $n \geq 2$ . Let now a have the length n+1. Let then:  $x_i \cdot (ax_k) = (x_i \cdot a + a \cdot x_i) \cdot x_k$ .
- 6. For arbitrary words a, b, c, d let (a b) · (c d) " 0.

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3/042/60/015/003/008/016xx C111/C222

An Example of a Solvable, Though Non-Nilpotent Alternative Ring A ring is defined by 1.-6. It is shown that this ring is alternative, solvable but not nilpotent. There are 2 non-Soviet references.

SUBMITTED: October 24. 1958



Card 3/3

#### DOROFEYEV, G.V.

Alternative rings with three generatrices. Sib. mat. zhur. 4 no.5:1029-1048 '63.

One example to the theory of alternative rings. Ibid.:1049-1052 (MIRA 16:12)

SHIKHANOVICH, Yuriy Aleksandrovich; DOROFEYEV, G.V., red.

[Introduction to modern mathematics; elementary concepts] Vvedenie v sovremenmuiu matematiku; nachal'nye poniatiia. Moskva, Nauka, 1965. 376 p. (MIKA 19:1)

#### "APPROVED FOR RELEASE: Friday, July 28, 2000

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ACC NR: AP6031843

SOURCE CODE: UR/0375/66/000/007/0076/0083

AUTHOR: Dorofeyev, I. D. (Engineer; Rear Admiral); Bukin, P. Ye. (Engineer, Captain 2d Rank; Candidate of Technical Sciences); Klimenko, N. A. (Engineer; Captain 2d Rank); Rikhter, A. A. (Engineer; Captain 1st Rank Reserve; Candidate of Technical Sciences)

ORG: None

TITLE: Naval propulsion engineering during the years of Soviet power

SOURCE: Morskoy sbornik, no. 7, 1966, 76-83

TOPIC TAGS: marine engineering, marine engine, diesel engine, gas turbine engine, nuclear propulsion engine, engine performance characteristic, engine reliability

ABSTRACT: The status of propulsion machinery building, as a base for powerful propulsion installations, is of great significance for the building of a navy. The absence, in the past, of a strong machinebuilding base was the result of the dependence of the Russian fleet on foreign states for propulsion engineering. The main propulsion equipment for combatant ships was made abroad, or on foreign license. The history of the development of "classic" steam and diesel installations is reviewed, as are such new installations as atomic powered and gas turbine ones. Certain of the qualitative and quantitative characteristics of the various types of installations are listed for purposes of comparison. Orig. art. has: 5 figures and 2 tables.

SUB CODE: 13,15/SUBM DATE: None

Card1/1

DOROFEYEV, I. F.

Nervous System

Problem of the psyche and conciousness in the light of the Marxist-Leninist theory of knowledge and I. F. Pavlov's theory of higher nervous activity. Sov. pedag. 16 no 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, September 1958, Uncl.

DOROFEYEV, I. F.

DOROFEYEV, I. F.: "The significance of I. P. Pavlov's doctrines of types of higher nervous activity for an understanding of the individual psychological differences in temperament and characters of people." Min Education RSFSR. Moscow Oblast Pedagogical Inst. Moscow, 1956. (Dissertation for the Degree of Candidate in Pedagogical Sciences).

Source; Knizhnaya letopis! No. 28 1956 Moscow