depth dose from a monoenergetic proton no. 1, 1966, 172-174 m effect, RBE, high energy proton
no. 1, 1966, 172-174
no. 1, 1966, 172-174
n effect, RBE, high energy proton
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at physical protection (shielding) some- adiation <sup>10</sup> on living organisms. Unlike reate a higher ionization density along on (i.e., linear energy losses increase likewise increases). Thus, corpuscular cal effect on different parts of an use the change in biological effectivenes ssue until they were stopped. Mice were a monochromatic beam of 120-Mev protons rad (dose power, 50 rad/min from a lived an intraperitoneal injection of the DC: 629.198.621
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ACC NR: AP6019602	SOURCE CODE: UR/0293/66/004/003/0482/0491
AUTHOR: <u>Davydov</u> , I Shashkov, V. S.	B. I.; Antipov, V. V.; Kozlov, V. A.; Saksonov, P. P.; 49
ORG: none	B
	m of using radioprotective pharmacological agents under spacefligh
conditions	
SOURCE: Kosmiches	kiye issledovaniye, v. 4, no. 3, 1966, 482-491
	d spaceflight, radiation protection, cystamine, ne, acceleration, animal physiology
tions, with 5 min y 4.25 m arm length) between exposures) of cystamine (80— serotonin (50 mg/k injections of phen Thirty min after th (0.5—1.0 mg), and	s on mice (exposed three times to 44.4 G, 1.4 G/sec accelera- per exposure and 5 min between exposures on a centrifuge with a and guinea pigs (exposed twice to 22.0 G, 0.7 G/sec with 5 min , lowered resistance to acceleration was noted after injections 150 mg/kg), AET. (15—150 mg/kg), 5-methoxytryptamine (75 mg/kg), g), and aminazine (1—10 mg/kg). A change in resistance after atine (2—10 mg/kg) and strychnine (0.05 mg/kg) was insignificant he combined injection of phenatine (5—10 mg), strychnine aminazine (2.5 mg), the EKG's and respiration of dogs exposed to /sec) did not differ from those of control centrifuged animals.
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Card 1/2	

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, expecial The author	ly AET, s thank	cystamine S. N. Kom	, and 5-me <u>aro</u> v for hi	thoxyt	ryptamine	, ror u	se on space-
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1	, expecial The author has: 5 f	, expecially AET, The authors thank has: 5 figures a 6,22/ SUBM DATE:	, expecially AET, cystamine The authors thank <u>S. N. Kom</u> has: 5 figures and 3 tabl 6,22/ SUBM DATE: 28Feb66/	, expecially AET, cystamine, and 5-me The authors thank <u>S. N. Komaro</u> v for hi has: 5 figures and 3 tables. 6,22/ SUBM DATE: 28Feb66/ ORIG REF:	, expecially AET, cystamine, and 5-methoxyt The authors thank <u>S. N. Komaro</u> v for his acti has: 5 figures and 3 tables. 6,22/ SUBM DATE: 28Feb66/ ORIG REF: 017/	, expecially AET, cystamine, and 5-methoxytryptamine The authors thank <u>S. N. Komaro</u> v for his active partic has: 5 figures and 3 tables. 6,22/ SUBM DATE: 28Feb66/ ORIG REF: 017/ OTH REF:	6,22/ SUBM DATE: 28Feb66/ ORIG REF: 017/ OTH REF: 013/

<u>• /</u>	L 03775-67 FSS-2/EWT(1)/EWT(m)/EEC(k)-2/FCC SCTB TT/DD/RD/GW	
].	ACC NR: AP6028342 SOURCE CODE: UR/0293/66/004/0630/0633	
	AUTHOR: Volynkin, Yu. M.; Antipov, V. V.; Davydov, B. I.; Dobrov, N. N.; Nikitin, M. D.; Pisarenko, N. F.; Saksonov, T. F.	
	ORG: none TITLE: Assurance of radiation safety during the Voskhod-1 and Voskhod-2 flights	
	SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 4, 1966, 630-633	÷
	TOPIC TAGS: space radiation, intercontent solar flare, production, radiation shielding, radiation dosimetry, nuclear emulsion, radiation solar, EVA, lysogenic bacteria/Voskhod-1 Voskhod-2 chacceraft	
	ABSTRACT: The Voskhod-1 and Voskhod-2 flights were characterized by extremely high orbits (apogee 495 km). It was calculated that Voskhod-2 would have a far higher radiation exposure due largely to the proton component in the area of the Brazilian anomaly, where in the course of 20 min the spaceship would acquire about 80% of the daily dose. The extravehicular surface dose of electrons during 20 min could amount to 1 rad. In order to reduce this to zero a protective layer of 100 mg/cm <sup>2</sup> is required. Leonov's spacesuit fulfilled this shielding requirement. Since exposure to radiation may reach dangerous proportions during solar flares the following radia-	
	tion protection measures were taken during the Voskhod-1 and Voskhod-2 flights. A preliminary study was made of radiation conditions on the proposed orbit. Forecasts	
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### L 03775-67

ACC NR: AP6028342

of the possibility of solar flares were made. The radiation dose was reduced by spacecraft shielding. Changes in the level of radiation in the upper atmosphere were checked by means of ballon sondes. Integral doses and dose rates were measured by on-board radiation meters. Individual dosimeters of the ILK, IKS, and IFKN types and nuclear emulsions were used to measure the total doses acquired by each cosmonaut. Living organisms were carried on board as biodosimeters. Radioprotective drugs were carried for emergency use by the cosmonauts. In order to determine the effect of lowenergy electrons during Leonov's EVA the two cosmonauts carried identical sets of dosimeters (on the chest under the spacesuit and in external hip pockets), which were capable of working in high-vacuum conditions. However, Leonov's dose did not exceed Belyayev's. Individual and on-board dosimeters indicated that the total dose received on Voskhod-2 was 70 ± 5 mrad, while that on Voskhod-1 was 30 ± 5 mrad. Analysis of the spectral composition of radiation made by nuclear emulsions indicated the presence of particles with linear energy losses comparable to ions of He, B, O, and Ar. The radiation dose, taking RBE into account, did not exceed several dozen ber. Biological objects carried on Voskhod-1 and Voskhod-2 showed increases in nondisjunction of chromosomes and increases in frequency of dominant lethal mutations in Drosophila, and disruption of the mitotic mechanism in microspores of Tradescantia; these increases, however, were small. Lysogenic bacteria carried on the two Voskhod flights did not show any effect of radiation or other spaceflight factors. Experiments performed by B. B. Yegorov have indicated that various stages of mitosis in Tradescantia microspores possess varying sensitivity to the effects of spaceflight factors. These findings confirmed Yegorov's hypothesis that the chief cause of Card 2/3

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ACC NR: AP6028343	SOURCE CODE: UR/0293/66/004/0634/0640
AUTHOR: Zhukov-Verezhnikov,	N. N.; Mayskiy, I. N.; Delone, N. L.; Rybakov, N. I.; .; Antipov, V. V.; Saksonov, P. P.; Rybakova, K. D.;
Tribulev, G. P.	-
ORG: none	83 vr vr S
TITLE: Biological investigat	tions on the Voskhod-1 and Voskhod-2 spaceships
SOURCE: Kosmicheskiye issled	dovaniya, v. 4, no. 4, 1966, 634-640 antiradiations light, office, -1, -1,
-protective drug, Brancoptopi Voskhod 1 Voskhod 2 2	topy and a spaceflight, fronting, pice out, wheat and/
test the effects of spaceflig cultures were carried in 1.5- nocket during his EVA. Some	performed on the Voskhod-1 and Voskhod-2 spaceships to ght on lysogenic cultures of <u>E. coli'</u> K-12 ( $\lambda$ ). The -ml ampules on board spaceships and in Leonov's spacesuit of the ampules contained the radioprotective drug $\beta$ -
mercaptopropylamine. Control Results showed that on the ba carried on Voskhod-1 and the	Is were kept at the cosmodrome and at the home laboratory asis of viability there was no difference between samples controls. Experiments on Voskhod-2 resulted in a the part of experimental cultures as compared to con-
trols. Phage production of	experimental cultures carried on the two flights also die
Card 1/2	UDC: 629,198,621:576.8

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L 03777-67 Û ACC NR: AP6028343 not exceed phage production of controls. Thus, it was not possible to demonstrate the protective properties of  $\beta$ -mercaptopropylamine. An attempt was made to determine whether spaceflight sensitized lysogenic cultures of E. coli K-12 ( $\lambda$ ) to consequent exposure to small doses of x-rays. Results showed that phage production in spaceflown samples was almost identical to that of the controls. In addition, air-dried seeds of pine and winter wheat (PPG-186) were carried on Voskhod-2 and in Leonov's pocket during his EVA for the purpose of determining the genetic effects of spaceflight factors. Results did not reveal any substantial differences between the two spaceflight-exposed groups of meds and the controls. It is assumed that the absence of the effects of spaceflight factors on lysogenic bacteria and seeds of higher plants in these two flights is due to the particular conditions under which these [BM] flights took place. Orig. art. has: 5 tables. ATD PRESS: 002/ ORIG REF: 013/ OTH REF: SUBM DATE: 21Apr66/ 06/ 5063 SUB CODE: 2/2 Card

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NTHOR: Davydov, B. I.		68/003/0691/0693 4 /
RG: none	A second s	4.1
		B
ITLE: Tolerance to critical acceleration as $\frac{\nu}{2}$	fter ermonung to tast	•
OURCE: AN SSSR. Doklady, v. 168, no. 3, 19	966, 691-693	ing radiation
OPIC TAGE: combined stress, acceleration, pritical acceleration, acceleration tolerance		ng radiation, c effect, radia-
BSTRACT: The reaction of the irradiated org tudied using 1690 male mice. The reaction of ion of their viability after exposure to rad entrifuge with an arm radius of 0.31 m. The irection. Prior to acceleration, the animal doses ranging from 100-4000 r (13-18 r/m lace from 1 to 45 days after irradiation. I eath of 40-50% of the control animals. Dev tered acceleration stability on the part of the first and second day after irradiation, t and 1/3	ial accelerations of 4 force vector was in a were irradiated with in). Exposure to acce t was found that 42-44 iations from this perce	uated as a func- 2-44 G on a back-to-chest Co <sup>60</sup> gamma rays leration took 4 G caused the entage reflected

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al and a second s IF IS BERINGSTRATING 29363-66 ACC NR: AP6018063 D maintained up to the 45th day (after irradiation by 200 r). Fig. 1 shows the relationship between irradiation dose and acceleration tolerance equivalent to the control value, calculated by a method of extrapolation-interpolation. In the author's opinion, one reason for the increased tolerance of irradiated animals to acceleration is shifts in the blood coagulation system and cell membrane permeability occurring during given periods of radiation sickness which possibly create better hemodynamic conditions during acceleration. Orig. art. has: 2 figs. [13] SUB CODE: 06/ SUEM DATE: 19Ju165/ ORIG REF: 006/ OTH REF: 003/ ATD PRESS:5005

ACC NR, AT7011642	SOURCE CODE: UR/0000/66/000/000/0001/0006
AUTHOR: Volynkin, Yu. H.; Antipov, V. Nikitin, M. D.; Pisaronko, N. F.; Saka	V.; <u>Davydov, B. I.</u> Dobrov, N. N.; sonov, P. P.
ORG: none	
TITLE: Radiation safety during the fl spaceships	ights of the Voskhod and Voskhod-2
SOURCE: International Astronautical ( no. 4. 1966. Obespecheniye radiatsionr "Voskhod" i "Voskhod-2", 1-6	Congress. 17th, Madrid, 1966. Doklady. Noy bezopasnosti pri poletakh korabley
TOPIC TAGS: ionizing radiation biolog effect, EVA, space physiology, space b Kosmos-47 space flight, Voskhod-1 space	iologic experiment, space flight /
ABS TRACT:	
 Radiation conditions on th were forecast using Kosmos-47, into the proposed orbit shortly flight. A greater radiation ha	a satellite launched before the manned space-
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### ACC NR: AT7011642

the Voskhod-w spacecrew because of the higher orbit and extravehicular activity planned for this flight. Preliminary calculations set the maximum 24-hr dose at 0.1 rad, about 80% of which was expected to accumulate during 20 min spent passing through the region of the Brazilian anomaly. It was calculated that the EVA would expose Leonov to as much as 1 rad of electron radiation in a 20-min period, and that shielding of 100 mg cm<sup>2</sup> would be required to eliminate this hazard. Leonov's spacesuit fulfilled the shielding requirement. A total dose of no more than several dozen REM was anticipated for the Voskhod spacecrew for the 24-hr period.

The possibility of radiation injury from solar flare protons was carefully considered. Disruptions of the Earth's geomagnetic field after some solar flares are known to affect the "radiation screen" of the geomagnetic field. Thus, approximate total doses from large flares of the type 10 March 1959 and 12 November 1960 were calculated with different shielding thicknesses, discounting the screening effect of the Earth's magnetic field. (see Table 1)

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ΛΤ7011642 ACC NR Table 1 Energy of protons Shielding of air-Dose from flare, rad E, Mev equivalent substance, g/cm<sup>2</sup> Nov. 12, 1960 May 10, 1959 E> 40 1.5 550 E > 80 1120 5.0 ·90 E> 100 70 7.0 50 E> 200 20 24.0 10 1 As can be seen from the table, cosmonauts can receive radiation doses sufficient to disrupt working capacity or endanger life during a solar flare. Consequently, an important part of the radiation safety program consists of predicting potentially hazardous solar flares. In addition to the measures just described, the Voskhod radiation safety system included measurements of radiation levels in the upper atmosphere using sounding balloons. In addition, a radiometer on the craft measured total dose and dose rate, each cosmonaut carried Cord 3.7

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individual dosimeters (ILK, IKS, and IFKN types, and nuclear emulsions), and there were biological dosimeters

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on board. Chemical radioprotectors were available for emergency situations.

In order to determine the possible effect of electron radiation during the EVA, both cosmonauts wore an identical set of dosimeters equipped to work in a vacuum, one in the chest area under the suit, and one in the outside hip pocket.

Although the period before the Voskhod-1 launch was one of minimal solar activity, on October 9, 1964, (3 days before the launch) at 8:30 A. M. a 23-fold increase in radioactivity was noted in the upper atmosphere at an altitude of 22 km. The increased radioactivity lasted 2 hr and is still unexplained.

Doses obtained by Voskhod crew members are shown in Table 2.

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ACC NR: AT7011642 Table 2. Total radiation doses obtained by crew members on Voskhod-1 and Voskhod-2 spacecraft, in mrad (tissue)

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Name of spacecraft	Individua meters	l dosi-	R-ZAM on- meter	board dosi-
-		1 0	dose for flight, mmd	dose rate , mrad/day
Voskhod-1 Voskhod-2	30 <u>+5</u> 70 <u>+</u> 5	29 <u>+3</u> 65 <u>+</u> 3	27 <u>+</u> 1 65 <u>+</u> 1	26 <u>+</u> 1 60 <u>+</u> 1

The total radiation dose received by Leonov was not higher than that obtained by Belyayev due to electron radiation outside the spacecraft, as had been expected. The fact that the absorbed tissue doses received by Voskhod-1 and Voskhod-2 cosmonauts were two and four times higher, respectively, than doses received on the Vostok flights can be explained by the difference in orbits and by some increase in the intensity of primary cosmic radiation characteristic for quiet Sun periods. Cord 5/7

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The radiation doses for Voskhod crew members did not exceed several dozen REM each, as calculated. This radiation dose is not considered injurious to human health.

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Biodosimeters carried on the Voskhod craft included

seeds of higher plants, microorganisms, and fruit flies. In addition, Leonov had pine and wheat seeds and lysogenic bacteria in his hip pocket during the EVA. Analysis of this biological meterial showed that spaceflight factors had the following effects: mitosis was disrupted in Tradescantia paludora microspores, and there were more dominant lethalities and cases of nonseparation of chromosomes in Drosophila. These shifts were of the same type as those observed in the Vostok-2, -3, and -6 experiments, and were also numerically insignificant. Lysogenic bacteria and plant seeds exposed in open space or kept in the spacecraft did not show the effects of spaceflight factors.

Yegorov's experiment with Tradescantia microspores demonstrated that the various mitotic phases of this organism have different sensitivities to spaceflight

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SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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SO: U-2888, 12 Feb. 53, (Letopis' ghurnal 'nykh Statey, No. 2, 1949).

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DAVIDOV, B. L.
Mekotorye voprosy proektirovanila shakhtnykh pod"emnykh ustanovok. Moskva, Ugletekhizdat, 1950. 116 p. diagrs.
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DLC: TN339.D28
D0: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982 105.3他配度 DAVIDOV, B. L., Prof. reverse problem: detn of actual hoist at given Selecting values for start resistances of asymptotic chronous motor at which starting period corresstart resistances. ponds to a given time. Also discusses soln of USSR/Mining - Mine Equipment (Conta) States that usual method for calcg hoisting inlonger in comparison with rated value. Develops 3 method which eliminates this descrepancy by starting, giving hoisting cycle considerably crepancy between design and actual periods of tors," Prof B. L. Davydov, Dr Tech Sci, Laureate of Stalin Prize "Zap Inst Gornoy Mekh" No 9, pp 90-102 ited Number of Start Resistances of Electric Mo-"Calculation of Mine Hoisting Plants Having Lim-USSR/Mining - Mine Equipment -----204177 1951 204177 1951 







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uthors	Bavydov, B. L., Dr. Mech. Sc., Prof.
N <b>t1</b> 0	. On the coasting of mechanisms with a worm drive
eriodical	Vest. mash. 35/3, 8 - 10, Mar 1955
bøtract	An analysis is made of the situation where a mechanism driven by a worm gear continues to run from inertia after the power is no longer applied to the worm, thus putting the mechanism under a strain and causing dam- age if the worm stops turning too quickly. The principles of mechanics are applied to the analysis and ways of eliminating the danger of damage are presented. Drawing; graph.
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ubmitted	• • • • • • • •

MAYDOV, B.L., professor; TIKHOVIDOV, B.D., dotsent. Large elevator and ventilator installations in mines of the Chinese People's Republic. Gor.shur. no.5:35-38 My '56.(NIBA 9:8) 1. Ehar'kovskiy gorayy institut. (China--Wining engineering)



DAVYDOV, B.L. 122-2-4/33 AUTHORS: Davydov, B.L., Doctor of Technical Sciences, Professor, and Chzhou Shi-Yuiy Engineer. Certain Precisions in the Theory of Friction of Flexible TITLE: Bodies (Nekotoryge utochneniya teorii treniya gibkikh tel) Vestnik Mashinstroyeniya, 1958, No.2, pp. 16-19 (USSR) PERIODICAL: In the theory of enveloping transmissions, N.Ye. Zhuko-うちょうちょう ちまま ちまないない かいないない ちょうない ちょう ABSTRACT: vskiy introduced the distinction between the sliding and rest sections of the enveloping arc. The sliding arc extends to the point where, with a given friction coefficient, the Euler equation yields the required difference in tension. In the present paper, the finite thickness of the belt is considered. A method is given by which the length of the sliding arc is computed when a belt of substantial thickness allows some shearing displacement within its thickness. Knowing the geometry of the belt and pulley, the friction coefficient and the elastic constant of the belt, an auxiliary quantity is found (Eq.10), with the help of which, from a relation (Eq.2) expressing the ratio of the belt tensions, the true arc of sliding is computed. In a typical example, an arc of 114 found, compared with 132° determined on the basis of the is simple theory. The difference increases greatly when the belt contains steel reinforcement. Then, the sliding arc drops to Card1/2 

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122-2-4/33 Certain Precisions in the Theory of Friction of Flexible Bodies to 57° by the new theory, but remains 132° in the old. The sliding arc can disappear altogether. This has been observed with mine conveyor belts. The new theory also modifies the computation of the belt slip loss and shows this to be less severe than the older theory predicted. There are 4 figures and 5 Russian references. AVAILABLE: Library of Congress Card 2/2
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17 DAVYDOV, B.L., prof., doktor tekhn.nauk; CHZHOU SHI-YUY [Chou Shih-yu], Insh. Most advantageous cross section of troughs and flow of material for mine haulage. Nauch.dokl.vys.shkoly; gor.delo. no.4: 181-187 58. (MIRA 12:1) 1. Predstavleno kafedroy gornykh mashin i rudnichnogo transporta Khar'kovskogo gornogo instituta. (Mine haulage) (Coal handling machinery) anne i se

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DAVYDOV, B.L., prof. and support the state of the st Temporary overloading of coal mining machine motors. Izv. vys.ucheb.sav.; gor.shur. no.7:127-136 '59. (NIRA 13:4) 1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy elektrotekhniki. (Coal mining machinery--Blectric driving)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982 DAVYDOV, B.L., prof. Behavior of the tail rope in balanced mine hoisting systems. Izv. vys.ucheb.zav.; gor.shur. no.10:126-134 '59. (MIRA 13:5) 1. Khar'kovskiy gornyy institut. (Mine hoisting)

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## DAVYDOY, B.L., prof. Elements in the theory of two-chain scraper conveyors moving in sections. Izv.vys.ucheb.sav.; gor.shur. no.2:126-132 '60. (MIRA 14:5) 1. Khar'kovskiy gornyy institut. (Conveying machinery)

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DAVYDOV, B.L., prof. Theory of movement of coal-cutting machines with a hauling rope. Izv. vys. ucheb. zav.; gor. zhur. no.3:79-89 '60. (MIRA 14:5) 1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornykh mashin i rudnichnogo transporta. (Coal mining machinery)

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CIA-RDP86-00513R00050982

DAVYDOV, B.L., prof. Performance of an asynchronous motor during brief significant overloading. Izv.vys.ucheb. sav.; gor. shur. no.6116-121 '60. (MIRA 14:5) 1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy obshchey elektrotekuniki Svavalovskoge gornogo instituta imeni V.V.Vakhrusheva. (Electric motors, Industion)

"APPROVED FOR RELEASE: Thursday, July 27, 200 CIA-RDP86-00513R00050982

 DATYDOY, Boris L'vovich, prof., doktor tekhn. nauk; SKORODUMOY, Boris

 Aleksandrovich, End. tekhn. nauk; KVITKO, A.K., otv. red.;

 SHOROKHOVA, A.Y., red. isd. BOLDYRWA, Z.A., tekhn. red.

 [Dynamics of mining mechinery] Dinamike gornykh mashin. Moskvs,

 Gos. nauchno-tekhn. isd-vo lit-ry po gornomi delu, 1961. 334 p.

 (MIRA 14:5)

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BIRRERINGERSTRATING TO THE STATE OF T DAVYDOV, B.L., prof. Friction in chains moving on driving wheels in mine transport and coal mining machines. Isv. vys. ucheb. sav.; gor. shur. no.2:105-114 ż 161. (MIRA 14:3) Ż 1. Khar'kovskiy gornyy institut. Nekmendovana kafedroy gornykh mashin i rudnichnogo transporta Khar'kovskogo gornogo instituta. (Mine haulage) (Coal mining machinery) . : 



## DAVEDOV, B.I. Statistical dynamics of an incompressible turbulent fluid. Dokl.AN SSSR 136 no.1:47-50 Ja '61. (MIRA 14:5) 1. Institut fiziki Zemli im. 0.Tu.Shmidta AN SSSR. Predstavleno skademikom M.A. Leontovichema. (Fluid dynamics) (Turbulence)

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

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DAVYDOV, B.L., prof.

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Study of the interaction between the load-bearing and the pulling parts of belt-chain conveyers. Izv.vys.ucheb.zav.; gor.zhur. no.3:117-138 \*61. (MIRA 15:4)

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1. Khar'kovskiy gornyy institut; rekomendovana kafedroy gornykh mashin i rudnichnogo transporta Khar'kovskogo gornogo instituta. (Conveying machinery)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050982(

DAVYDOV, B.L. C Investigating the interaction of two contiguous flexible bodies. Trudy Inst.mash.Sem.po teor.mash.i mekh. 23 no.89/90:15-26 \*62. (MIRA 15:6) (Strains and stresses) · § ·

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YEVNEVICH, Anton Vladislavovich; <u>DAVYDOV. B.L.</u>, prof., retsenzent; SULDVYEV, A.A., prof., Fetsenzent; SHUKWAN, I.G., prof., retsenzent; VASILYEV, N.V., dots., dv. red.; KCVAL', I.V., red.iad-va; BOLDYNEVA, Z.A., tekhn. red.; MAKSIMOVA, V.V., tekhn. red.

 [Machines formine haulage] Gornye transportnye mashiny. Izd.2. Moskva, Gosgortekhizdat, 1963. 467 p. (MIRA 16:9)

 1. Khar'kovskiy gornyy institut (for Davydov, Solov'yev)

 2. Donetskiy politekhnicheskiy institut (for Shtokman). (Mine haulage)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 The Construction of a second second

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DAVYDOV, Boris L'vovich, prof., doktor tekhn. nauk; SKORODUMOV, Boris Aleksandrovich, dots., kand. tekhn. nauk; BUBYR', Yuriy Vladimirovich, dots., kand. tekhn. nauk; SLIBKO, V.M., inzh., retsenzent; CHISTYAKOVA, L.G., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red. [Reducing gears; design and testing]Reduktory; konstruktsii, raschet i ispytaniia. Moskva, Mashgiz, 1963. 472 p. (MIRA 16:4) (Gearing) 

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BASOV, A.N.; GUTTSATT, Z.I.; DAVIDOV, B.N.; KIRPICHEV, V.M.
Differentiation of industrial wholesale prices of motor fuels. Khim. i tekh. topl. i masel 8 no.9:46-51 S '63. (MIRA 16:11)
l. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke mafti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

DAVYDOV, B.N.; BASOV, A.N.; GEL'MS, I.E.

Cost of spent catalysis. Nefteper. i neftekhim. no.5:17-20 164. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

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## GEL'MS, I.E.; DAVYDOV, B.N.

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Problems of economics in the development of the production of catalysts for the petroleum industry. Khim. i tekh. topl. i masel 9 no.3:45-48 Mr\*64 (MIRA 17:7)

Constructions of executive sectors of construction of a sector sector of the sector sector of the sector sector of the sector sector of the sector sec

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

TITOVA, A.I. prof.; GOLIKOVA, T.M.; VOLKOVA, A.V.; POKROVSKIY, S.A.; DAVYDOV, B.N.; NAZARETSKIY, F. Ye.

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Clinical aspects and treatment of chronic pneumonia in children. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28:3-11 : 63 (MIRA 19:1)

1. Iz kafedry detskikh bolezney ( zav. kafedroy - prof. A.I.Titova) Yaroslavskogo gosudarstvennogo meditsinskogo instituta (rektor prof. N. Ye. Yarygin).

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PAPROVED FOR RELEASE: Thursday, July 27, 200 CIA-RDP86-00513R00050982
DAVYDOV, B. P.
Treating othematoms. Vest. oto-rin. 19 no.1:107-108 Ja-F '57
(MLRA 10:4)
1. Iz gorodskoy bol'nitsy g. Jebedin Sumskoy oblasti.
(RAR--TUMORS)

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DAVYDOV, B.S. State State Recent trends in the development of feeler gauges used for the control of surface smoothness. Ism.tekh. no.6:46-48 N-D '55. (MIRA 9:3) (Surfaces (Technology)) (Neasuring instruments)

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The necessity of standardizin clearance gauges. Standartin	zatsiia no.2:58-61 Mr-Ap	'56. (MIRA 9:5)
1. Vsesoyuznyy nauchno-issled dartov, mer i izmeritel'nykh	lovatel'skiy institut Kom priborov. (Gauges)	niteta stan-

"APPROVED FOR RELEASE: Thursday, July 27, 2000

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DAVYDOV, B.S.

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IN CASES

Comparative study of the indicated measurements of surface-smoothness gauges and optical instruments. Priborostroenie no.3:23-26 Mr '56. (NLRA 9:8)

(Surfaces (Technology) -- Measurement)

Catogory :	USSE/General Problems - Nothed and Technique of Invon- A-4 tigation
ibs Jour :	Rof Zhur - Fizika, No 3, 1957, No 5607
 Author : Titlo :	Yojorov, V.A., Davydov, B.S. Vorification of Foolor Instruments for the Control of Roughness of Surfaces.
Orig Pub :	Izmorit, tokhnika, 1956, No 3, 64-66
bstract :	A survey is given of the xisting methods for checkin; feeler instruments, and also a description of various specimens with irregular profiles, Special specimens are proposed for the testing of profilegraphs (metallic slabs 40 x 40 x 10 mm), on which are located three groups of graduation lines, in groups of five each. The graduation mark has parebolic, triangular,
	and trapozoidal profiles.

DAVYI	юV, В.S.		
	Conference on present-day methods and means for rating ( smoothness. Ism.tekh. no.4:85 J1-Ag '56. (Surfaces (Technology)) (MetalsFinishing)	Curface (MLRA 9:11)	
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	Some correlations in the readings of surface roughness measurements. Standartisatsiis no.6:25-28 N-D '56. (MIRA 10:1)					•	
	<pre>l. Vsesoyusnyy mauchno-issledovatel'skiy institut Komiteta stamfartov, mer i ismeritel'nykh prfborov. (Surfaces (Technology)Neasurement)</pre>						0¥.
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DAVYDON, B.J. DAVYDOV, B.S., inzh. Using pneumatic instruments in checking the surface roughness. Vest.mash. 37 no.12:66-67 D '57. (MIRA 10 (Surfaces (Technology)--Measurement)) (MIRA 10:12) (Pneumatic machinery)

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A-U y-Dov, -B:5 D j ę, nauchno-1asledovatel'skly eritel'nykh priborov ង Pokress, S.I., and M.B. Zalmenzon. (NOINCP). Studying a Sorew Pair 14 Referaty nauchno-isaledovatel'skikh rabot; sbornik No.2 (Scientifio Reservch Abstracts; Collection of Articles, Nr 2) Noscow, Standartgiz, 1958. 139 p. 1,000 copies printed. warws and Measuring Intinuents); and MGIMIP - Novel-y goeddarstvenyr Jinstiut and 1 A and AdIMIP priorov (1) Dirak State Institute of Measures and Asauring Instru-(1) Dirak State Institutes are schiomed. There are no reference (1) Di personalities are schiomed. FEEDEDY, Y.A., B.S. Davydov, Y.R. Kurnesenko, and T.S. Jabythan MADHUP). Developing a Method for Testing Surface Finish Samples and Instruments for Surface Finish Quality Control FURFOSE: These reports are intended for scientists, researchers, and engineers engaged in developing standards, measures, and gages for the various industries. Measures, and Measuring Instruments under the USSR Council of Measures, and Measuring Instruments under the USSR Council of Mutaters). The participating instructes are ywirk -the secontary muchino-fastedowstel sizy and the second school of Mathematic Research Institute of Met-motolog Tale Instructes WULK - Vessoyuary maximo-fastedowstel of this instructes WULK - Vessoyuary maximo-fastedowstel Institute Komiter Measuring Instructe of the Commission (All-Union Scientific Research Institute of the Commission from Mathematic Measuring Instructure of the Commission from Statuter Measuring Instructure of the Commission from Mathematic Measuring Instructure of the Commission from Mathematic Measuring Instructure of the Commission from Mathematic Measuring Instructure of the Commission from Statuter of the Statuter of the Commission from Statuter of the Statuter of the Commission from Statuter of the Statuter of the Statuter of the Commission from Statuter of the Statuter of the Statuter of the Commission from Statuter of the Statuter o Bogustsenhity...K.fl. (WNIM). Making Improved Surface Finish Teat Samples  $\chi_{10}$  kelishturni. I.Ye. (NGIMIP). Developing Methods and Means of Card 5/27 Slaidn, 0.3., and <u>L.L. Bahinnwich</u> (MoIMIP). Investigating In-struments and Methods for Measuring Elements of Worm Gears Vaesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni V.I. Wendeleyeva COVERADE: The volume contains 128 reports on standards of meas ment and control. The reports were prepared by scientiats of institutes of the Komitet standartov, mer i izmeritel'hykh priborov pri Sovete Ministrov SSSR (Commission on Standards, Simicin. Q.S. (WhOIMIP). Measuring the Tooth Profile of Large-dismeter Reduction Gears Additional Sponsoring Agency: USSR. Komitet standartov, mor izmerital'nykh priborov. Ommolovskays, Ye.P., and R.S. Davidor (MCINIP). Comparative Rating of Probe and Contactiess Dages for Measuring Surface Pinish 30V/2215 Ed.: S. Y. Reshetins; Tech. Ed.: M. A. Kondrat'yeva. PHASE I BOOK EXPLOITATION KORODW tut mer 1 1zmerice agures and Meanuri radiotekhr Measuring I 24(0); 5(4); 6(2) Lumeritel'ny and Messurin Vsesoyuznyy cheskikh 1 r Research Ins Messurements mente). ١

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SOV/120-58-5-29/32

AUTHOR: Davydov, B. S.

TITLE: Measurement of Small Amplitudes of Mechanical Vibrations (Izmereniye malykh amplitud mekhanicheskikh kolebaniy)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 5, p 107 (USSR)

ABSTRACT: The method of measurement was based on the principle of stroboscopic interference. The stroboscope was driven by the source of electrical oscillations and the strobotron, type STN-1, was used as the source of light. The interference pattern was observed in a micro-interferometer of the Linnik type which had the following characteristics: diameter of the observation field 1.7 mm, linear magnification of the objective  $7^{X}$ -0.18 and the viewer magnification of  $15^{X}$ . When the difference between the oscillation frequencies of the vibrator and the strobotron is suitably chosen, the interference pattern observed is displaced relatively to the fixed visor. By counting the number of fringes, it is possible to determine the amplitude of the oscillations; the amplitude is  $A = n\lambda ef/4$  where n is

the number of fringes and  $\lambda e_{\pi}^{f}$  is the effective wavelength.

Card 1/2

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SOV/120-58-5-29/32

Measurement of Small Amplitudes of Mechanical Vibrations

It was found that the amplitude could be determined with an error of not more than 5%. The paper contains 1 table and 4 references; 2 of the references are English and 2 are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i izmeritel'nykh priborov (The All-Union Scientific Research Institute of the Committee of Standards, Measures and Measuring Instruments)

SUBMITTED: September 7, 1957.

Card 2/2

CIA-RDP86-00513R00050982

DAVIDOV, B.S.; KRYNKIN, K.M., insh., neuohnyy red.; RESHETINA, S.V., red.izd-va; MATVRIEVA, A.Ye., tekhn.red. [Fundamentals of the feeler method for determining the roughness of surfaces] Osnovy shohupovogo metoda opredeleniis sherokhovatosti poverkhnosti. Moskva, Gos.izd-vo standertov "Standartgis", 1959. 167 p. (MIRA 13:5) (Surfaces (Technology)--Testing)

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25100 S/122/60/000/011/020/0**20** A161/A130

AUTHORS: Davydov, B.S.; Kartasheva, A.N.

TITLE:

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Particular points of the new standard for feeler instruments for determination of surface roughness in the machine industry

PERIODICAL: Vestnik mashinostroyeniya, no. 11, 1960, 80 - 81

TEXT: Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (The Committee of Standards, Measures and Measuring Instruments at the Council of Ministers of the USSR) has approved a new standard - "Feeler Instruments for Determination of Surface Roughness. Types. Basic Parameters and Accuracy Norms". It complements the FOCT 2789-59 (GOST 2789-59) standard for surface roughness, includes the basic  $R_a$  parameter of profilometers and profilographs, and standardizes the roughness measurements in the industry regardless of the design features of instruments. It is the first Soviet standard for such instruments, is claimed to be the most complete of analogous standards existing in other countries, and contains some new conceptions and designations needing explanation. The profilometers are subdivided into three types - of the highest accuracy,  $\Pi$ -7 (P-7); medium accuracy,  $\Pi$ -10 (P-10); and limited accuracy,  $\Pi$ -16

Card 1/4

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Particular points of the new standard for ....

(P-16). The accuracy is characterized by "peredatochnoye otnoshenlye" (ratio), i.e., the relation of  $R_a$  reading on the scale in microns to set linear needle displacement (also expressed through  $R_a$  in microns). The relative error of the profilometer ratio is determined by the formula

$$\delta_n = \frac{R_a - R_a}{R_a} 100\%,$$
 (1)

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where  $R_a$  are readings in microns; and  $R'_a$  the mean arithmetical value of the needle displacement setting. The ratio error is determined by methods specified in the "148-59" instructions, with the use of a vibrator imparting sinusoidal oscillations to the needle. This eliminates the component errors from the measuring effort P and needle tip radius r. The P-7 profilometers have  $\delta_n \leq \pm 7\%$  and are designed nearly exlusively for research, expert decisions, and profilometers of designs analogous with the known profilometer of the "Kalibr" Plant and Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Electrotechnical Institute) that belong to this group. The P-10 with  $\delta_n \leq \pm 10\%$  are for both laboratory and shop use; they are less complex and costly, of less weight and size. The major mass  $\delta_n \leq \pm 16\%$  include instruments that are analogous with the latest U-4 (P-Ch) profilometers. The profilographs (being nearly exclusively laboratory instru-

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Particular points of the new standard for ....

ments) are divided into two types  $-\Pi\Gamma$ -5 (PG-5) with ratio error  $\delta_{n2} \leq \pm 5\%$  and PG-10 with  $\delta_{n2} \leq \pm 10\%$  $\delta_n = \frac{\frac{W_0}{W_0} - H_0}{H_0}$  100%, (1)

(2) where H is the displacement of the stylus or of the "light spot" of the recorder read from the profilogram, in microns;  $H_0$  - the value of set needle displacements, in microns; and  $V_0$  - the nominal vertical enlargement of the instrument. The new standard introduces additional requirements for the determination of profilometer reading error, and errors of vertical enlargements of the profilographs. The vertical enlargement error is determined (as per the "149-59" instruction) with "odnoshtrikhovyye mery vysoty nerovnosti" (singlo-line roughness gages) produced at the repair-and-experiment workshops of VNIIKSMIP, i.e., by single carefully graduated notches. Same gages are used for checking horizontal enlargements with two additional notches. The horizontal enlargement error of a profilograph must not exceed ± 10%. As according to FOCT 9017-59 (GOST 9017-59) standard, the feeler instruments are to be provided with needles with r = 10 micron, and profilographs with r = 2 micron needles. The new standard only sets limits to the static effort of feeler instruments; it has to be in the range 0.1 - 2 g. For instruments with a resilient needle suspension (e.g., cn a spring parallelogram) the effort constant, or gradient (effort variation in axial displacement Card 3/4

"APPROVED FOR RELEASE: Thursday, July 27, 2000

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Particular points of the new standard for ....

for 1 micron) must be within the range 0.006 - 0.12 g/micron. (The "Kalibr-VEI" profilograph-profilometer has the first suspension kind, and the majority of feeler instruments like the P-Ch have a parallelogram). An important characteristic for the feeler instruments is the range of surface irregularities spacing range within which the ratio error is not exceeded. The standard sets a minimum only for this range ( $B_{mir} = 2 + 3$  micron). For the P-16 profilometers this minimum is 5 micron. The maximum spacing is called "otsechka shaga" ("spacing cutoff") and signifies limiting of the spacing of the largest irregularities by switching-on electric filters with cortain characteristics. This requirement will be considered additionally. The "cutoffs" are numerically equal to the base lengths per GOST 2789-59, i.e., 0.08; 0.25; 0.8 mm, etc. Apart from electrical methods for eliminating irregularities with larger spacing from the measurement results, the same results can be achieved using a rest with a certain radius sliding on the surface. Vertical enlargement limits for profilographs are 100 - 100,000 and horizontal between 10 and 2,000 - 2,500.

Card 4/4

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推动新闻

**建筑和保存和**的全体现了自己的全体了了的中心的

45655 S/115/63/000/001/007 017 E194/E155 AUTHOR : Davydov, B.S. TITLE Possibilities of using light interference methods to measure lengths in motion PERIODICAL: Izmeritel'naya tekhnika, no.1, 1963, 21-22 TEXT: Existing methods of using light interference to measure amplitudes of vibration are of limited use with large amplitudes. Even the stroboscopic method gives difficulties with displacements of more than 30 - 40 bands because of the difficulty of obtaining strictly monochromatic impulse light sources that can work at high frequencies. In developing equipment for testing industrial instruments for measuring surface finish simple light-interference methods were developed in which amplitudes ranging from a few to some tens of microns could be measured with an error of 0.1% or less at frequencies over 300 c/s. In a Nichelson-type interferometer one of the mirrors is connected to the moving system and the interferometer can be displaced in the direction of displacement of the mirror. The amount by which the interferometer is moved is measured by an instrument for measuring static displacement, such Card 1/2



	E032/E314
AUTHOR:	lavydov, B.S.
AITLE:	Two interference methods for determination of the simplitudes of mechanical systems
PERIODICAL:	Pribory i tekhnika eksperimenta, no. 1, 1963, 159 - 140
ency of osci is to be det slow oscillations oscillations effective wa piece sale an correspondin for greater	at a frequency which is nearly the same as the frequency of the mirrors whose amplitude ermined, the central achromatic fringe executes a tion in the field of view. The amplitude of the is then given by $A = 0.25 \text{CN}\lambda$ , where $\lambda$ is the velength, C is the length of one division in the ey d N is the number of these divisions g to the maximum displacement of the fringe. However amplitudes the achromatic fringe will leave the field dynamic indicator now described is found to be suit- cases. The interferometer is placed so that the

S/120/63/000/001/035/072 E032/E314 Two interference methods of the field of view. This position of the interferometer as a whole is recorded on some control device suitable for static linear measurements. The interferometer is then displaced until the achromatic fringe in its extreme righthand position is again in the centre of the field of view and the position of the interferometer is noted again. The amplitude of the oscillations is then equal to one-half of the difference in the readings of the interferometer position-indicator.mentioned above. In the second method the fringe image is swept across a slit by means of a rotating mirror. A photomultiplier placed behind the slit records the changes in the light intensity. Its output is fed through a cathode-follower to an oscillograph. The amplitude can be deduced from the distance between stationary oscillatory wave trains on the CRO screen. There are 5 figures and 1 table. Vsesoyuznyy nauchno-issledovatel'skiy institut Komi-ASSOCIATION: teta standartov, mer i izmeritel'nykh priborov (All-Union Scientific Research Institute of the Committee of Standards, Measures and Measuring Instruments. SUBMITTED: April 6, 1962 Card 2/2

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Malignant thymome. Vrach. delo no.6:135-136 Je<sup>1</sup>62. (MIRA 15:7)

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Gases - Analysis		
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. Monthly List of Russian Acco	essions, Library of Congress,	1952 December X <b>k953.</b> Unclassified.

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E UBD: -25 ENT(1)/ENT(m)/FCC/EWA(h) 1 A.A. in & stan ber GW/GS ACC NR: AT5023945 UR/0000/65/000/000/0323/0337 44.50 44.67 AUTHOR: Malachov, S.G.; Davydov, E.N.; Nekhorosheva, M.P. 41 TITLE: Time variations in the concentration of the fission products in the ground level atmosphere in the Moskow region and on the island of Huys, Franz Jo-B+1 seph Land, during 1956-1963, SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk, 1964. Radioactivnyye imotopy v atmosfere i ikh ispol'zovaniye v meteorologii (Radioactive isotopes in the atmosphere and their use in meteorology); doklady konferentsii. TOPIC TAGS: atmospheric contamination, atmospheric pollution, radioisotope 12.44.55 ABSTRACT: The concentration of radioactive aerosols in ground level air is measured and the average monthly and yearly concentrations tabulated for Moskow (55°N.L.) and island of Hays (80°N.L.). The aim is to find the meteorological processes pertiment to the distribution mechanism. It is observed that the maximum concentrations of ground level atmospheric contamination happened in 1959, and particularly in 1963, Both age the first years following discontinuation of the nuclear tests. The fallout reached 12.5 microcuries/square kilometer in 1963. The atmospheric contamination is found to have a maximum in Spring, and a minimum in the Autumn. The variation is similar for the Moskow, Leningrad and Franz Joseph Land regions, Qualitative 3 2 

the intralatitude a regions high latitud level air in Thule sistationary Gree-ni can lead to substant belonging to the sam	c contamination tmospheric excha- des. The differe- and on the islam land anticyclone.	levels and their nge between the E nces in radioacti d of Hays can be . Differences in	a source of fission pro- is the region of mo- seasonal variations de durasian continent and ve contamination of the due to the presence of local meteorological c r individual regione,	oderate la- epend upon the polar le ground
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43 685 BETRESH BETRE BESCH L 11051-66 EWT(1)/EWT(m)/FCC DIAAP GW ACC NR: AT5023949 UR/0000/65/000/000/0351/0356 AUTHOR: Davydov, B.N.; Nechorosheva, M.P. ORG: None TITLE: Determination of yearly Sr<sup>90</sup> fallouts in the polar regions from its content in seasonal layers of ice and firm on the glaciers of Franz Josef Land and Severnaya Zemlya. SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk, 1964. Radioaktivnyye izotopy v atmosfere i ikh ispol'zovaniye v meteorologii (Radioactive isotopes in the atmosphere and their utilization in meteorology); doklady konferentsii. Moscow, Atomizdat, 1965, 351-356. TOPIC TAGS: radioactive fallout, radioactivity measurement, strontium, snow, precipitation 19,55 ABSTRACT: Yearly <u>fallout magnitudes of Sr<sup>90</sup></u> in the Arctic were studied as a contribution to the global picture of Sr<sup>90</sup> distribution. The problem posed by direct measurements in frequent polar blizzards was avoided by determinations of radioactivity concentration, C, (micromicrocuries per liter) in the retained layers of snow and firm. The product of Sr concentration, C, by the amount of precipitation, H, in millimeters, yields the the fallout as C.H.  $10^{-3}$  millicuries/km. The zone of firm in Franz-Joseph Land and in Severaya Zemlya is found at an altitude of 400 meters. Card 1/2 UDC: None >

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layers of a The samplin the yearly had a volum tes was 790 for Franz-J covered wer obtained it the amount It is concl las in the The results 1960 soils; found in th	altitude the laya with the precipita firn have ice laya ng was done at the layers between two of about 20 lit 240' - 81°45' N. I Joseph Land and 96 te 1956-1963 with Can be seen that of radioactivity uded that the con Arctic can adequa obtained fit sat Has1-117, 1961. e Arctic does not phere in the poin e of the tropopau	tion or in a dry r demarkations a summits of the o parallel trend ers. The latitud atitude. The lor '30' and 96'42' some gaps for so the fallout dat per square kilom tent of Sr <sup>90</sup> in tely characteriz isfactorily cert U.N. Docum. A/AC support the hyp r region (the hy	Way remains in allowing identify glacier cupolast thes dug 50 cm. a le range of geogra gitudes ranged to for Severnaya 26 me places of sam a are quite cons eter, per millim the yearly firm e fallouts in th ain U.S. fallout 82 WL 856). Th othesis of prefe	thaw out and all the Sr the layer. The yearly cation and evaluation. by sawing out and melti upart. The melted sampl aphical sample coordin between 58°00' and 60° mlya (East). The years pling. From the resul- istent when expressed eter of precipitation. layers on glacier cupo e surrounding regions. measurements (" Sr <sup>90</sup> e relatively low fallou rred fallout exit from d upon the fact of par- art.has: 2 fig, 1 tabl OTH REF: 002	ing Les la- 236 ts as in ut

