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L 17567-63 ACCESSION R. AP3004435 A/L AUTHORS: Yoskresenskiyi, A. D.; Kisel Jev, A. A.; Bryusgina, M. I.	
acceleration.	
SOURCE: AN SSSR. Doklady, v. 151, no. 4, 1963, 978-981	
TOPIC TAGS: acceleration, cardiac diroulation, myocardial orvers community	
ABSTRAOT: Cardiac circulation and myocardial oxygen consumption were studied in 2 series of dogs subjected to a lateral acceleration (spine-thorax) of 6 g for 1 with sufficient oxygen. After 1 min acceleration at 6 g the percentage of oxygen in blood from the arteries and coronary sinus and the arteriovenous difference the rate at which blood was discharged from the coronary sinus was higher. Under these conditions the authors consider that the body's compensatory mechanisms decreased considerably. There was also a reduction in the percentage oxygen in blood from the coronary sinus. However, this reduction was not large enough to card 1/2	

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ACCESSION NE: AP3004	435					
an increase in the we		blood use d				0
arrhythmia and arth	re not very	specific un	der these (	onditions	initial levels	•
rate and a drop in ar hypoxia might develop	under these	ure. The au conditions	orig. a	ider that	Eyocardial	
ASSOCIATION: none					1 -au140	
SUBMITTED: 11Feb63	DAT	E ACQ: 21Au				
SUB CODE: AM		REP SOVE 00			ENCL: 00	
			7		OTHER: 012	

VAN CHUHI-GAN [Wang Chih-kang]; KISELEV, A.A.

Theoretical examination of the energy of an electron transition corresponding to a  $\beta$ -band. Fiz, twer, tola 5 no.11:3231-3237 N 403. (MIRA 10:12)

1. Loningradskiy goaudarstvennyy universitet.

APPROVED FOR RELEASE: 06/13/2000

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IN'KOV, Yuriy Ivanovich; KISBLEV, A.A., redaktor; VIGANT, Ya. Ya., tekhniche-[Radie apparatus; the market of capitalist countries] Radieapparatura; rymek kapitalisticheskikh stran. Meskva, Vmeshtergisdat, 1955. 70 p. (Radie--Apparatus and supplies) (MLRA 9:5)





KIBELEY, A. A. M. M.

"Hydrogen Absorption and Changes in the Mechanical Properties of Zirconium and Its Binary Alloys when Corroded in Water and Steam at High Temperatures and Pressures."

"Research on the Corrosion of Zirconium Alloys in Water and Steam at High Temperatures."

papers distributed at the IAKA Conference on Corrosion of Reactor Materials in Salaburg, Austria, 4-9 June 1962.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722730006-4



APPROVED FOR RELEASE: 06/13/2000

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722730006-4 KISELEV, A. A. Designating measurement units in technical literature. Standartisatsiia 26 no.10:61-62 0 '62. (MIRA 15: (MIRA 15:10) (Weights and measures)



22 (1)	SOV/27-59-3-5/37	
AUTHOR :	Kiselev, A.	
TITLE:	The Profitableness of Training Workshops (O dokhodnosti uchebnykh masterskikh)	
PERIODICAL:	Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 3, p 5 (USSR)	
ABSTRACT: 1/2	A number of measures must be adopted to increase the profit- ableness of school workshops. They must stop producing articles which are turned out by mass production enterprises. The Seven-Year Plan provides for the manufacture of machinery which has never existed before. Some of these machines may be good objects for students' training. The manufacture of them will be more profitable than the making of metal-cutting machine tools. The turning out of new kinds of machinery not so far manufactured by any other enterprise may release in- dustry from the necessity of erecting new plants. The schools should also be adapted to carry out orders of local enter- prises which are suitable for training purposes. It is pointed out that only such technological processes should be	



KHABE, L., insh.; KISELEV, A., inzh.

Double-deck buckwheat scouring and peeling machine. Muk.-elev. prom. 25 no.3:23-24 Mr '59. (HIRA 12:6) (Buckwheat) (Grain-milling machinery)

KISELEV, A., inzh.

Cleaning buckwheat of impurities, difficult to remove. Muk.-elev.prom. 25 no.2:19-20 F '59. (MIRA 12:4) (Buckwheat---Cleaning)



#### CIA-RDP86-00513R000722730006-4



## CIA-RDP86-00513R000722730006-4















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CIA-RDP86-00513R000722730006-4

Berein, A.A.

- AUTHORS: Kiselev, A.A., Lapshova, M.P., and Kul'kova, M.N., Engineers TITLE: Smelting of Ball Bearing Steel in an Acid Furnace Fired with Natural Gas and Fuel Oil (Vyplavka sharikopodshipnikovoy stali v kisloy pechi pri otoplenii prirodnym gazom i
- PERIODICAL: Stal', 1958, No.1, pp. 35 40 (USSR)
- ABSTRACT: An investigation of some technological factors of smelting and teeming of ball bearing steel on the degree of its contamination and the nature of non-metallic inclusions is described. Steel WX15 was smelted in a 50-ton acid open-hearth furnace, deoxidised with aluminium in the ladle (125 g/ton) and bottom teemed into 4-ton ingots. The cha: e consisted of basic openhearth steel containing no more than 0.015% of sulphur and phosphorus and a high quality pig TBK, Class A. The supply of this pig and low-sulphur oil was decreasing and this was accompanied by the increasing impurity of steel. Therefore, the furnace was transferred to firing with natural gas and fuel oil. This decreased the duration of heat by 35 min., and stoppages for hot repairs decreased by 0.59%. When the furnace was fired with fuel oil alone (0.4 - 0.5% S), the content of sulphur after content of sulphur decreased to 0.013 - 0.016%. This brought Card1/5

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CIA-RDP86-00513R000722730006-4

Smelting of Ball Bearing Steel in an Acid Furnace Fired with Natural Gas and Fuel Oil

a considerable decrease in the contamination of metal by oxide and sulphide inclusions (a comparison in the form of a table is given in the text). The influence of various technological factors on the degree of contamination of steel by nonmetallic inclusions was determined by statistical treatment of data on current production. The following factors were considered: the influence of the temperature of metal on tapping (rig.1); the duration of fettling (Fic.2) and the amount of reduced silicon. With the amount of reduced silicon of 0.18 - 0.22%, the degree of contamination is the highest, decreasing with increasing silicon content in the finished metal. An investigation of the influence of the amount of reduced silicon and silicon content in the finished metal on the degree of gas saturation of the steel indicated that the maximum content of oxygen and hydrogen corresponds to the amount of reduced silicon of 0.18 - 0.22% or to the content of silicon in the finished metal, 0.22 - 0.23%. The contamination of steel by oxides increases with increasing ferrous oxide content of slag before de-oxidation (it should not exceed 20%). It was also found that deoxidation of steel with aluminium also Card2/5

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Smelting of Ball Bearing Steel in an Acid Furnace Fired with matural Gas and Fuel Oil

leads to a contamination of steel by oxides; therefore, some experimental heats were made in which: a) steel was deoxidised in the ladle with silicon-zirconium instead of aluminium, b) deoxidation with smaller quantities of aluminium (60'-100 instead of 125 g/ton) and c) simultaneous deoxidation with silicon-zirconium and aluminium. The nature of non-metallic inclusions was investigated on metal from all heats deoxidised with silicon-zirconium, silicon-zirconium and aluminium, and on 10 heats produced by the usual technology. The quantity and composition of non-metallic inclusions are given in Tables l and 2; the dependence of the quantity of inclusions in steel on its temperature on tapping - Fig.3; the dependence of the degree of oxide contamination on the content of spinels in inclusions - Fig.4; the dependence of the proportion of spinels in inclusions on the content of FeO in slag - Fig.5; the dependence of the total amount of inclusions o. the duration of teeming an ingot - Fig.6; the dependence of oxygen content of metal on its temprature on tapping - Fig.7, and on FeO content in slag - Fig.8; the influence of silicon content of metal before tapping on the gas seturations of steel during Card3/5

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CIA-RDP86-00513R000722730006-4

133-1-9/24 Gas and Fuel Oil

this period - Fig.9. Conclusions: 1) The transfer of smelting ball bearing steel by the silicon-reducing process in an acid furnace on firing with a mixture of natural gas and fuel oil decreased the degree of contamination of steel by sulphide and oxide inclusions and the duration of the heat by 35 min. 2) This decrease in the degree of contamination is obtained providing a number of technological factors are maintained: a) the temperature of metal on tapping (according to an immersion thermocouple) should be 1 580 - 1 600 °C; b) the amount of reduced silicon should exceed 0.23%; c) the content of iron oxide in slag before deoxidation should be from 15 to 20%. 3) On deoxidation of steel in ladle with silicon-zirconium instead of aluminium, the degree of contamination by oxides decreases by 0.35 to 0.60 and that by sulphides increased by 0.2 - 0.3; whereupon, the amount of nonmetallic inclusions which can be electrolytically separated is higher than when deoxidising with aluminium. A special feature of the inclusions obtained on deoxidation with siliconzirconium is their low content of spinels which decrease the degree of contamination by oxides. 4) The degree of contamination by oxides increases with increasing proportion of

Card4/5

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133-1-9/24 Smelting of Ball Bearing Steel in an Acid Furnace Fired with Natural Gas and Fuel Oil

spinels and the mtio of  $Al_2O_3/SiO_2$  in the composition of inclusions. The amount of spinels and the  $Al_2O_3/SiO_2$  ratio in the composition of inclusions increase with increasing content of ferrous oxide in slag before deoxidations. 5) During tapping of the heat, the content of oxygen in steel decreases due to deoxidation of steel in the ladle with aluminium, decreasing temperature of the metal and self-deoxidation of steel with carbon. 6) Higher concentrations of oxygen in steel and increasing proportion of total inclusions in steel correspond to higher tapping temperatures. The following engineers participated in the work: S.Z. Kupryakhina, Yu.A. Kartsin and O.S. Zheludeva. There are 2 tables and 9 figures.

ASSOCIATION: "Krasnyy Oktyabr" Works (Zavod "Krasnyy Oktyabr'") AVAILABLE: Library of Congress Card 5/5

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722730006-4

AUTHOR: Kiselev, A.A. 130-58-4-7/20 Production of Low-carbon Steel in Onen-hearth Furnaces TITLE: (Vyplavka nizkouglerodistoy stali v martenovskikh pechakh) PERIODICAL:

Metallurg, 1958, Nr 4, pp 10 - 11 (USSR).

ABSTRACT: CT: Bi-metal strip, ccld-rclled from Armco-type steel (0.04% C, 0.20% Mn, 0.20% Si. 0.030% S, 0.025% P, 0.15% Cu, Cr, Ni each) and aluminium alloy ASM (aluminium with 3.5 - 5.5% Sb and 0.3 - 0.7% Mg) have been used instead of lead bronze for tractor (types D-54, D-35) crankshaft bearings. The author outlines the difficulties of producing this steel in openhearth furnaces. Early experience showed that cracking during rolling took place when additional deoxidation with silicon and manganese had not been effected. After correcting this rolling of ingots was satisfactory throughout 1956, but separation of the strip was observed. After statistical analysis of data for 24 heats, the production method was modified and a further 25 experimental heats were produced of which only two gave separation of bi-metal strip but more showed cracking in the blooming mill. After analysis of the reasons for these faults, the "Krasnyy Oktyabr" Works adopted a production technology with the following main features: only Card 1/2

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Production of Low-carbon Steel in Open-hearth Furnaces

furnaces with high firing rates are used; carbon content in the metal on melt down is 0.25 - 0.70%; rate of decarburisation in the final refining period is not less than 0.0008% C per minute, which is secured, for a bath with 0.07% or less carbon, by adding  $1\ 000 - 2\ 000$  kg of iron ore to a 50-ton heat; the slag before tapping contains 18 - 30% ferrous oxide; deoxidation is carried out in the ladle with  $1\ 400 - 1\ 700$  g aluminium per ton of steel; the content of silicon and manganese in the finished steel is at least 0.13%.

ASSOCIATION: Zavod "Krasnyy Oktyabr'" (Krasnyy Oktyabr' Works) Card 2/2

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SUSLIE, Petr Bikelayevich; KISHLEV, A.A., redakter; VIGAET, Ya.Ya., tekhnicheskiy redakter.
[Ferreus metals; the market in capitalist countries] Chernye metally; rynek kapitalisticheskikh stran. Neskva, Vneshtergisdat, 1956. 222 p. (Iren) (Steel) (Iren eres)
(HIRA 9:4)

APPROVED FOR RELEASE: 06/13/2000

YEFIMOV, V.A.; DANILIN, V.I.; LAPSHOVA, M.P.; GREBENYUK, V.P.; KISELEV, A.A.

Effect of the temperature of pouring and the mold shape on the quality of steel ingots. Vop.proizv.stali no.6:96-109 '58. (MIRA 12:3) (Steel ingots) (Metallurgical plants--Quality control)

KISELEV, A.A., inzh.; LAPSHOVA, M.P.; KUL'KOVA, M.N.; V rabote prinimali uchastiye: KUPRYAKHINA, S.Z., inzh.; KARTSIN, Yu.A., inzh. ZHELUDEVA, O.S., inzh. Smelting roller-bearing steel in acid furnaces using natural gas and fuel oil [with summary in English]. Stal' 18 no.1:35-40 Ja '58. (MIRA 11:1) , 1.Zavod "Krasnyy Oktyabr'" (for Kiselev, Lapshova, Kul'kova). (Smelting) (Bearing metals)

APPROVED FOR RELEASE: 06/13/2000

#### CIA-RDP86-00513R000722730006-4

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TITLE:

75972 SOV/133-59-10-33/39 AUTHOR: Kiselev, A. A. (Engineer) Spotty Segregation in Low-Alloy Steels PERIODICAL: Stal', 1959, Nr 10, pp 942-946 (USSR) Although numerous studies have been devoted to the mech-**ABSTRACT:** anism and nature of spotty segregation and its influence on the formation of imperfections /Refs 2,3 and 4: Morenko, G. F., Stal', 1954, Nr 6; Mokhir, Ye. D. and Kozlov, F. V., Stal', 1054, Nr 6; Oreshkin, V. D, Stal', 1955, Nr 1/ no unanimous opinion has been arrived at. With the assistance of Kul'kova, M. N., and Rostovskaya, L. A. (Engineers) the author tested the following types of steel with a view to the above: 12KhMF, 35KhGSA, 36G2S, 15KhGNTA, and SKhL-4. All specimens were molten in natural gas-mazut fired 150-t open-hearth furnaces by the scrap process. The author concludes as follows on the basis of experimental results: (1) most imperfections are observed in the upper Card 1/2 half of the ingots and in the zones adjacent to the center

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KISELEV, A.A.; VOLHYANSKIY, V.M. Ingot shape and surface defects. Metallurg 5 no.2:19-20 **r** '60, (MIRA 13:5) 1. Rukovoditel' gruppy slitka "Sentral'noy savodskoy laboratorii savoda "Krasnyy Oktyabr'" (for Kiselev). 2. Nachal'nik raslivo-chnogo proleta martenovskogo tsekha savoda "Krasnyy Oktyabr'" (for Volnyanskiy). (Steel ingots) (Steel--Defects) ----

CIA-RDP86-00513R000722730006-4

77606 18.1150,18.5200 307/133-60-2-6/25 Kiselev, A. A., and Marchenkovskiy, G. F. (Engineers) AUTHORS: Low-Carbon Steel for Bimetal Production TITLE: Stal', 1960, Nr 2, pp 121-123 (USSR) PERIODICAL: Bimetal strip from low-carbon steel (funco iron) ABSTRACT: and ASM alloy is made by cold rolling. The maximum allowed amount of additions in Armeo iron is: C Ath St P Cu Cr NI 5 0,04 0,20 0,20 0,030 0,025 0,15 0,15 0,15 The ASM alloy consists of 3.5-5.5% Sb, 0.3-0.7% Mg, and balance aluminum. Depending on the extent of oxidation Armco iron has a tendency toward cracking (In ingots and billets) or lamination (in ready Bimetal). Adherence to the carefully developed melting and pouring practice is absolutely necessary in order to obtain suitable metal. (1) Steel to smelted only in high thermal capacity heat treating furnaces. (2) Steel is poured with a clean surface only to 1/2 of the mold Card 1/2

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CIA-RDP86-00513R000722730006-4

Low-Carbon Steel for Bimetal Production

77606 907/133-60-2**-6/**25

height with a subsequent crust formation. (3) Carbon content, after melting, ranges from 0.25-0.70%. (4) The speed at which C burns out during the refining period must be not less than 0.0000 min. In order to obtain carbon content below 0.075, 1.5 to 2.0 tons of one have to be added to the charge per every 50 tons of heat alternating them with lime additions of 800 to 1,600 kg. As a result, slag bastcity before pouring must be not lower than 2.4 with a ferrous oxide content of 18-30%. (5) For ladle deoxidation aluminum (1,400 to 1,700 gr/ton steel), metallic manganese, and 75% ferrosiliton are added with a view to produce a minimum 0.135 allicon and manganese contents in finished metal. (6) The melt rolled on the blooming mill is considered satisfactory with a maximum content of 0.005% Al. (7) To eliminate wear of the stopper and of ladle lining, 400 to 800 kg of lime was added to the ladle. There are 3 figures; and 1 Soviet reference. Plant "Braonyy Oktyaler" (Zavod "Kraonyy Oktyabr")

ASSOCIATION: Card 2/2

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CIA-RDP86-00513R000722730006-4

KISELEV, A. A.

Cand Tech Sci - (diss) "Study of the process of forming hot fissures in steel ingots." Moscow, 1961. 17 pp incl cover; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Inst of Steel imeni I. V. Stalin); 150 copies; free; (KL, 5-61 sup, 190)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722730006-4

S/133/61/000/002/001/014 A054/A033

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AUTHORS: Kiselev, A.A., Engineer, and Yavoyskiy, V.I., Professor, Doctor of Technical Sciences

TITLE: Improving the Crack Resistance of Steel Ingots

PERIODICAL: Stal', 1961, No. 2, pp. 112-119

TEXT: Cracks originate mainly in low-carbon (0.10-0.25% C) steel ingots, it was found. In order to study the causes of fissuring, tests were carried out with  $C\tau$ .3 (St.3) and OSCT (OS sp) steel ingots with the following com-C Mn Si S P Cr Ni Cu St.3: **A1** 0.19 0.45 0.16 0.025 0.013 0.21 0.16

08 sp: 0.10 0.36 0.09 0.021 0.014 0.17 0.15 0.13 0.03 During the pouring process it was found that in the initial period of crystallization the solidification of the ingot, in vertical direction and along

Card 1/11

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Improving the Crack Resistance of Ste		ots A	054/103	3	2/001/014	1
the periphery, does not take place at	: a uni	form ra	teı (see	e fig.2)	)	
Section according to fig.2:	I	II	III	IV	v	
Time of solidification, min Distance of the section from	1.2	1.5	1.8	2.3	2.8	- -
the bottom, mm Thickness of the skin	1,500	1,200	900	600	300	
in the middle of the edge, mm $\delta_1$ (edge A) $\delta_2$ (edge B) Non-uniformity coefficient	22 22	26 26	30.5 32	33 35	39 43	•
of solidification, $\delta_1 + \delta_2$	1.0	1.0	0.95	0.94	0.91	¢,
With regard to the spot where the ski were obtained: (for ingots with wavy	n is t} surface	e thick	cest, th		wing data	
Section according to fig.2:		Ī	III	IV	v	
Interval of solidification, min Thickness of the skin, mm		1.2	1.8	2.3	2.8	-
in the corner of the ingot Card 2/11		15.5	23.5	25.0	32.0	
N N					1	

Improving the Crack Resistance of Steel Ingots

S/133/61/000/002/001/014 A054/A033

in the projecting part				
of the wavy surface Non-uniformity coefficient	23.0	33.0	36.0	37.5
of solidification	0.67	0.71	0.70	0.85

The rate of solidification was also studied in  $18\chi\GammaT$  (18KhGT) ingots (6.1 ton) and it was found that this rate is slower in the surface layers than in the lower ones: at 100 mm from the ingot mold wall in the bottom part (circulation zone of the metal) the coefficient of solidification rate amounts to 3.9 cm/min<sup>0.5</sup>, while at 65 mm depth in the top (1,100 mm from the bottom) only to 2.3 cm/min<sup>0.5</sup>. As to temperature changes, it was found that in the upper half of the ingot the cooling rate of the outer layers is higher than that of the inner layers, while in the lower half of the ingo the opposite was observed. This non-uniform cooling on the periphery and towards the centre of the ingot causes irregular linear contraction in the initial phase of crystallization, with alternating compression and expansion stresses in the surface layers of the ingot, which results in cracks. Another factor playing a part in fissuring is the relation between the thickness of the solid and solid-liquid elements of the skin in the early stages of crystal-

Card 3/11

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Improving the Crack Resistance of Steel Ingots

S/133/61/000/002/001/014 A054/A033

lization. When the solid-liquid elements (having a low strength) develop considerably, the crack resistance of the ingot decreases. The development of the solid-liquid zone in the corner of the ingot bottom - when the case is thin - corresponds to the formation of cracks mostly in these areas. The strength and plasticity of the case was studied in the 1,300-1,125°C heat range (for each 25-50°C) with electro-heating of the specimens for 7-10 minutes. The test results showed that in the heat interval indicated the case of the ingot shows a high plasticity. The strength limit of St.3 ingots between 1,125-1300°C is relatively low (3.0 and 1.2 kg kg/mm<sup>2</sup> respectively), while the strength limit in the case of O8sp ingots at 1250°C is by 0.1-0.3 kg/mm<sup>2</sup> lower than for St.3 steel with a higher C-content. The strength limit (for St.3 ingots) in the lower part was found to be about 0.1-0.2 kg/mm<sup>2</sup> higher, than in the top, due to the shorter time of crystallization in this area and the more intensive development of the solid-liquid element at the moment of pouring. In the inner part of the case, in which at the moment of pouring the solid-liquid element prevails, the strength limit is 0.2  $kg/mm^2$ lower  $(1.4-1.7 \text{ kg/mm}^2)$  than in the completely solidified outer layer  $(1.52-1.77 \text{ kg/mm}^2)$ . The main cause of cracking evidently is the intensive linear contraction of the ingot, which, when delayed, results in contracting Card 4/11

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CIA-RDP86-00513R000722730006-4

S/133/61/000/002/001/014 Improving the Crack Resistance of Steel Ingots A054/A033 stresses. The appearance of these stresses is also promoted by the non-uniform contraction in the height and periphery of the ingot. With regard to the effect of impurities (sulfides, FeS.MnS, globular inclusions, oxides) it was found that these prevail in the parts of the ingot where the case is insufficiently wetted by the circulation metal. Intensified deoxidation of the metal (by adding aluminum) increases its resistance to cracking increases. This was observed in the zavod Krasnyy Oktyabr (Krasnyy Oktyabr Plant), when 1,200-2,000 g aluminum/ton of armco steel was added. The following data were obtained for these tests: Amount of aluminum added in the ladle, g /ton steel 1200-1350 1400-1500 1,600-1,700 Amount of heats 6 10 10 Amount of sound ingots, % 46 69 82 When the aluminum content is raised, the amount of oxygen adsorbed by the metal decreases, which contributes to a reduction in red shortness. According to tests of the Red Oktyabr Plant the cracking of steels with a C-content below 0.25% can be prevented when their residual Al-content is  $[A1] : [C] \ge 0.10$ . The indicated amount of residual Al can be obtained by adding the following quantities of Al: Card 5/11

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Improving the Crack Resistance of Steel Ingots

S/133/61/000/002/001/014 A054/A033

At a C-content of the steel of, %: 0.20-0,25 0.10-0.15 armco the required Al-content, 6 /t: 1200-1,300 1,350-1,500 1800-2000 Based on these tests the process of cracking can be summarized as follows: cracks originate mainly in the corners of the lower half of low-carbon steel ingots with fewer cracks on the bent sides. This type of steel shows a higher degree of linear contraction, than medium and high-carbon steels. In the upper part of the mold the contraction of the ingot is even, in the lower half, however, irregular gaps form between the ingot and the mold. The uneven contraction in this area is caused by the effect of the circulating liquid metal flow on the crystallizing case of the ingot, changing the temperature of the case along the periphery and the crystallization rate. If the contraction is slowed down owing to the roughness of the mold surface or because of the ingot sticking to the mold wall, contraction stresses arise in the case which are proportional to the linear contraction. Due to the non-uniform rate of cooling in the lower halv of the mold, opposing stresses (expanding and compressing) develop and they promote cracking. In order to increase the crack resistance of low-carbon steels, the rate of pouring has to be slowed down and cooling accelerated by enlarging the ingot periphery. This can be attained by giving the ingot a wavy surface. Another Card 6/11

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MATEVOSYAN, P.A.; DANILOV, V.I.; LAPSHOVA, M.P.; KISELEV, A.A.; LISOV, I.V.; VOLYANSKIY, V.M. Improving the quality of blooming mill ingots. Stal' 23 no.12:1086-(MIRA 17:2) 1087 D 163. 1. Volgogradskiy metallurgicheskiy zavod "Krasnyy Oktyabr'". Burn A

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722730006-4



KISELEV. A.A., kand. tekhn. nauk; ANTIPOV, K.I., inzh.; LAPSHOVA, M.P., inzh.; CHISTYAKOV, V.F., inzh.

Increasing the density of 45G2 and other structural steel ingots. Stal' 25 no.12:1090-1091 D '65. (MIRA 18:12)

and the second second

1. Zavod "Krasnyy Oktyabr".

KISELEV, A.A.



APPROVED FOR RELEASE: 06/13/2000



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722730006-4 KISELEV, AA KISELEY, A.A.; DOLGOVA, L.N. Chromium oxide content in the batch and in the synthetic ruby. Trudy Inst.krist.no.8:47-50 '53. (MLRA 7:5) (Rubies) (Chromium oxides)

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3

CIA-RDP86-00513R000722730006-4

C2478 S/035/60/000/04/15/017 A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 4, p. 71, # 3387 3.1230 3.2300 AUTHOR: Kiselev, A. A. TITLE: On the Errors of Optical Center and Distortion in the Interpolation Method at Precise Processing of Photographs of Earth's Artificial Satellites V

PERIODICAL: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, 1958, No. 3, pp. 6-10 (English summary)

TEXT: A simple relationship is found out between the systematic error  $\mathcal{E}_{\lambda}$  of the calculated position of an object and the vector of error E of the adopted position of the photograph optical center, when the location of the object is interpolated from two fundamental stars. A table is given which is used for determination of the maximum error of an object  $\mathcal{E}_{\lambda}^{\text{max}}$  from the given  $|\mathcal{E}|$  and S (separation between the fundamental stars). The table is intended for applying it to processing photographs of a <u>HACA (NAFA) camera</u> (F=250 mm). Instruction is given as to processing the photographs of a satellite if the optical center is unknown. A. A. Kiselev.

APPROVED FOR RELEASE: 06/13/2000

KISELEV, A.A.

Precision of photographic observations of artificial earth satellites with the NAFA- 38/25 camera. Biul. sta.opt.nabl.isk.sput.Zem. no.9:9-14 '59. (MIRA 13:3) 1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya AN SSSR. (Artificial satellites -- Tracking)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722730006-4

AUTHOR:	Kiselev, A.A.	SOV/33-36-2-1	9/27
TITLE:	An Interpolation Method for t the Position of a Celestial O		on of
FERIODICAL:	Astronomicheskiy zhurnal, 1959	,Vol 36,Nr 2,pp 348-360 (USS	SR)
	The method of the author is b position of a celestial objec circle between two given refe formulas lead to a new precis my which does not use ideal c to the determination of the p where 3 reference stars are u ference stars are used. In th particularly effective. An es made and an example is calcul Deych There are 5 figures, Glavnaya astronomicheskaya object Astronomical Observ Kay 10, 1958	t which is on an arc of a la rence stars. There interpola e method of photographic ast oordinates. The method is ap osition of a star-like object sed, and of a sputnik, where e second case the method is timation of possible errors ated. The author mentions A. 5 tables, and 4 Soviet refe	rge ation prono- pplied et, 2 re- is N. rences.
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Card 1/1			
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KISELEV, A.A.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.

Instructions for determining the coordinates of artificial earth setellites from photographs obtained with the NAFA-3s/25-S cameres. Biul.sta.opt.nabl.isk.sput.Zem. no.3:1-35 '60. (NIRA 13:7) 1. Sotrudniki Glavnoy astronomicheskoy observatorii AN SSSR. (Arificial satellites--Tracking)

i.

(Astronomical photography)

APPROVED FOR RELEASE: 06/13/2000

KISELEV, A.A.; FIRAGO, B.A.

Determining the scale of astrophotographs and the angular velocity of a fast-moving celestial object. Biul.sta.opt.nabl. isk.sput.Zem. no.8:3-6 '60. (MIRA 14:3) (Artificial satellites--Tracking) (Astronomical photography)

APPROVED FOR RELEASE: 06/13/2000

KISELEV, A.A.

Rffect of the error of the assumed position of the optical center on the results of the reduction of astrophotographs. Isv. GAO 22 no. 1:165-175 '60. (MIRA 13 (NIRA 13:12) (Astronomical photography)

CIA-RDP86-00513R000722730006-4

## KISELEV, A. A.

Cand Phys-Math Sci - (diss) "Interpolation method of determining photographic positions of heavenly objects, and its use in the processing of observations of artificial satellites." Leningrad, 1961. 16 pp; (State Astronomical Inst imeni P. K. Shternberg); 220 copies; free; (KL, 7-61 sup, 219)

APPROVED FOR RELEASE: 06/13/2000



KUSELEV, A.A.

Using the equaliting observations wothed for evaluating the precision of the position of an artificial earth estellite. Blul. sta. opt. mabl. isk. sput. Sem .no.32:16-24 -63. [MIRA 17:7] 1. Glavnaya (Bulkovskaya) astronomich-skaya observatoriya AN

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CIA-RDP86-00513R000722730006-4

L 00466-66 Z-T(1) 74 ACCESSION NR: AP5020683 UR/0033/65/042/004/0831/0844 AUTHOR: Kiseley, A. A. 522.71 TITLE: Application of homography to photographic astrometry SOURCE: Astronomicheskiy zhurnal, v. 42, no. 4, 1965, 831-944 TOPIC TAGS: photographic astrometry, astronomy, homography, star, celestial body ABSTRACT: The application of homography to the determination of measured star positions is discussed in detail. In part I the problem of finding a reference point to the object measured on plate IT relative to the coordinate system of a comparison plate  $\Pi$ ' of arbitrary inclination to  $\Pi$  is analyzed. The solution is given in terms of homographic coordinates of the object which determine its position relative to four stars  $S_j(j = 1, 2, 3, 4)$ . The homographic scheme is shown in Fig. 1 on the Enclosure where So represents the object. From this diagram the following homographic coordinates are constructed for So:  $\frac{M_1S_0}{S_0M_1}:\frac{M_1Q^*}{Q^*M_2};$  $h_3 = \frac{M_1 S_0}{S_0 M_3} : \frac{M_1 Q^*}{Q^* M_3}$ Card 1/4

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	$\lim_{l \to a_0} \frac{1}{2} \int \frac{1}{2} dx$	$\frac{ij^{(n)}Y_{j}}{ij^{(n)}X_{j}};  \text{tg } \delta_{0} = \frac{1}{\sqrt{\sum_{j=1}^{4}}}$	$\sum_{i=1}^{4} H_{i}^{(n)} Z_{j}$	• • •	6	2
	$\sum_{i=1}^{n} H_{i}$	$V''x_{j} = V'(\sum_{i=1}^{j} V')$	$(H_{j}^{*})X_{j}^{*} + (\sum_{i=1}^{4}$	$H_{1}^{(k)}Y_{1}^{(k)}$		
the part 111, an		UN TOP an object				
is round that th	e homographia	Ocovilian A.	uose optical	Centon is .		
In part III, an is found that the linear-fractions $2 \times 3$ or $2 \times 5$ m						
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useful in all si has: 36 equation ASSOCIATION: Gla Astronomical Obse SUBMITTED: 09Dec TO REF SOV: 003	ethods, the ho tuations where 8, 7 tables, in Whaya astronom rvatory, Acade	mographic approach the Schlesinger fu nd 1 figure. micheskaya observat may of Sciences, SS	s. When composite found to the inotions are a contract of the inotion of the inotic of the ino	ared to the be more accompplicable. ii Nauk 855	olution of olassical urate and i Orig. art SR ( <u>Main</u> 55	
useful in all si has: 36 equation ASSOCIATION: Gli Astronomical Obse SUBMITTED: 09Dec	ethods, the ho tuations where 8, 7 tables, in Whaya astronom rvatory, Acade	mographic approach the Schlesinger fund and 1 figure. Micheskaya observat may of Sciences, SS ENCL: O	s. When composite found to the inotions are a contract of the inotion of the inotic of the ino	ared to the be more accompplicable. ii Nauk 855	olution of olassical urate and i Orig. art SR ( <u>Main</u> 55	

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An Andrewski, An An	
A first standation include for determining the position of the optical center from four contents of the position of the optical center from	
SCULCE: A. I. I. Ssledovaniye kosmicheskogo prostranstva, Abs. 7.02.106	
2000 SOCCCC: Dyal. st. optich. nablyad. 75Z, no. 40, 1985, 6-12	
TOPCTINGS: Mar, optic center, interpolation, reference star	
10.571ACC; The existing methods for reduction of protographs taken on artificial such satellites require the location of the optical center on the plate with an accuracy of not less than T1 mm (+14) for cameras with $V = 250$ mm). Some difficulties drive in determining the position of the optical center when the preci- sion of the applied method depends on the configuration of the detected stars, methametheut errors, and catalog positions. Therefore, an analytical method is proposed for determining the position of the optical center of photographs which ensures greater precision and makes it possible to obtain directly the equatorial coordinated of the desired point. The four reference stars selected (the distance	1
Card 1/2	

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between the stars in  $\sim 6-7^{\circ}$ ) form, if possible, a regular quadrangle in respect to the geometric center of the photograph. Two expressions are compared for incorporating ( $\lambda_0, \lambda_0$ ) parameters, determining the vector of the point of mechaection of the diagonals of the reference stars (Sg). In view of the projection properties of the Sg point, the expressions for  $\lambda_0, \lambda_0$  are equal when conduct from the known spherical coordinates of reference stars and from measurements distorted by a yet-to-be determined effect of the optical center. These two quantities determine the expression for calculations of the coordinates:

### If A = YT/XT; If D see A = ZT/XT

The four auxiliary dimensional vectors X, Y, Z. T are the functions of the squerical and measured steller coordinates and serve as the initial of the conditions of the proposed method measures equical center determinations accurate to To! if the errors of coordinates do not exceed Till. This method of calculations can be computerized. N. Rizva-nov. [Pransition of abstract]

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## CIA-RDP86-00513R000722730006-4

KISSLEV, A.A. Comparisions for the number of classes of ideals of real quad-ratic fields. Uch. sap. LGU no.111:20-31 '49. (MLRA 10: (Fields, Algebraic) (MLRA 10:8) **ə** . .

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Card 1/1	
Author 1	Kiselev, A. A. and Ladyzhenskay, O. A.
Title :	About solving linearized equations of plain, unstable flow of a viscous incompressible liquid.
Periodical :	Dokl. AN SSSR 95, 6, 1161 - 1164, 21 Apr 1954
Abstract :	The article gives a solution for linearized equations of a flat unstable flow of a viscous, incompressible liquid by breaking
	down a properly chosen differential operator into linear forms in accordance with its conditional elements. Besides this, the article analyses the behavior of the solution when $t \rightarrow \infty$ . However, the analysis of the solution is made only for two cases: flowing around a disc and flowing around a sphere. Special functions were used for the solution.
Institution :	accordance with its conditional elements. Besides this, the article analyses the behavior of the solution when $t \rightarrow \infty$ . However, the analysis of the solution is made only for two cases: flowing around a disc and flowing around a sphere. Special functions were used
Institution : Submitted :	accordance with its conditional elements. Besides this, the article analyses the behavior of the solution when t-> 00. However, the analysis of the solution is made only for two cases: flowing around a disc and flowing around a sphere. Special functions were used for the solution. Leningrad State Pedagogical Institute

Card 1/1		- Mathématics1 physics Pub. 22 - 8/49		
Authors	1	Kisolov, A. A.		
Title		About unsteady flow of a viscous liquid in the prese external forces	nce of	
Periodical	ţ	Dok. AN SSSR 100/5, 871-874, Feb 11, 1955	,	
Abstract	t	A method is presented for colving the base		
	1	A method is presented for solving the boundary probl Q= $Jix/0 \leq t \leq r$ , where the r is a limited region of $x_1$ and the T is a positive constant depending on the r . conditions and forces sating at the liquid. If the potential and the initial disturbances are not great is uniformly (slong $x_1$ and $x_2$ ) approching to 0. Five 3 French and 2 USSR (1933-1953).	and x2 vari initial ferces have	ation
Institution	:	and the T is a positive constant depending on the $r_1$ , conditions and forces sating at the liquid. If the potential and the initial disturbances are not great is uniformly (along $x_1$ and $x_2$ )	and x2 vari initial ferces have	ation
Institution Fresented by		and the T is a positive constant depending on the $r_1$ , conditions and forces sating at the liquid. If the potential and the initial disturbances are not great is uniformly (along $x_1$ and $x_2$ ) approching to 0. Five 3 French and 2 UESR (1933-1953),	and x2 vari initial ferces have	ation
		and the T is a positive constant depending on the $r_1$ , conditions and forces sating at the liquid. If the potential and the initial disturbances are not great is uniformly (along $x_1$ and $x_2$ ) approching to 0. Five 3 French and 2 USSR (1933-1953), Leningrad State Pedagogical Institute	and x2 vari initial ferces have	ation

CIA-RDP86-00513R000722730006-4

KISELEV, A.A 17 5.16. F. Kiselev, A. A. Solution of the Hasarized equations of un-Heady flow of a stipous incompressible fluid in an un-bounded region. Dokt, Akad. Nauk SSSR (N.S.) 101, 43-46 (1955). (Russian) Solent i 0, un domaine borné, simplement connexe (de 1-F/W ٦ Soleht i U, the domains porte, simplement connect (de l'espace ordinaire  $x_{ij}$ ,  $x_{ij}$  and S est la frontière;  $Q=0\times[0\le t\le t]$ ;  $f(x_{ij}, t)$  un vecteur défini sur Q tiont les composantes a  $L_i$  sur Q (propriété qu'on notera dans la suiter  $f \in L_i(Q)$ :  $H_i$  l'espace des f sur lequel on a défini le produit scalaire  $(t, \varphi) = f(\cdot, \varphi Q)$ . On suit qu'on a la décompo-sition :  $H = J \oplus G$ , où J et G sont deux sous-espaces orthogonaux complémentaires de II, tels que tout ve J est solénotilai et tangent à la surface latérale du cylindre Q à la frontière et tout g a G est de la forme grad p, p(x, l) étant une fonction scalaire à dérivées premières en x, continues. Alors l'A, démontre le résultat sulvant. Pour tout f e II, il existe un système et un deul de solution u, p du système : ðu As+grad p=f, div u=0, M 1

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	KISELEV, A.A.
	matics - Physics
Oard 1/1	Pub. 22 - 7/43
Anthors	s. Kiselev, A. A.
Title	f Irregular flow of a viscous incompressible fluid in a bounded three- dimensional region
Periodical	Dok. AN SSSR 106/1, 27-30, Jan 1, 1956
Abstract	* A proof is presented for the existance and singularity of the solution of a problem in determining a region $Q_{\ell} = -\Omega \times [O \le t \le \ell]$ of the velocity vector $\mathbf{v} = (\mathbf{v}_{1}(\mathbf{x}, t), \mathbf{v}_{2}(\mathbf{x}, t), \mathbf{v}_{3}(\mathbf{x}, t))$ , i.e., in three-dimensional space. Similar problems for one and two-dimensional cases were proved by the author in earlier work. Three USSR references (1950-1955).
Institution	: Leningrad State Pedagogical Institute
Presented by	Academician V. I. Smirnov, July 18, 1955

)

Kiseley, N, J.AUTHOR:KISELEV, A.A., LADYZHENSKAYA, O.A.30-5-4/6TITLE:On the Existence and Uniqueness of the Solution of the Non-  
steady Problem for a Viscous Incompressible Fluid (O sushchest-  
vovanii 1 yedinstvennosti resheniya nestatsionarnoy zadachi  
dlya vyazkoy neszhimayenoy zhidkosti).PERIODICAL:Izventiya Akad.Nauk, Ser.Nat., 1957, Vol. 21, Nr 5, pp. 655-680, (USSR)ABSTRACT:The present paper contains the proofs of the theorems of exist-  
ence and uniqueness which were announced last year by Kiselev  
(Doklady Akad.Nau': 106, 27-30, 1956) for the systems
$$\frac{\partial \vec{\tau}}{\partial t} = v \Delta \vec{\tau} + \sum_{k=1}^{2} v_k \frac{\partial \vec{\tau}}{\partial x_k} = - grad p + \vec{f}(x,t)$$
(1) $div \vec{v} = 0$ ,  $\vec{\tau}|_s = 0$ ,  $\vec{v}|_{t=0} = \vec{d}$ and $\frac{\partial \vec{\tau}}{t} - v\Delta \vec{\tau} + \sum_{k=1}^{3} v_k \frac{\partial \vec{\tau}}{\partial x_k} = \vec{f}(x,t)$ (2) $\vec{\tau}|_s = 0$ ,  $\vec{\tau}|_{t=0} = \vec{a}$ CARD 1/2Furthermore estimations of the solutions are proved according

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KISELEV, A.A.; ORIFRIY.VA, L.A. Determinition of certain trigonometric sums with coefficients representing arithmetical functions. Uch zap. Fed inst Gerts. 197:5-8 \*59. (Series) (Series)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722730006-4

KISELEV 71.7 8 2 2 2 -17 Doklady Nuthenia-Deber, M. (faningrad). Representation of the solutions of spices of differential equations in the maighburhood of singu-tar initial date. theory of a linear dif naoring Agency: Akademiya nauk 333R. Matematicheskiy institut. contains it the Cor Jackwinn L.W. (Severglovai). The boundary value problem for systems of ordinary differential equations <u>Dubow F.J. (Laningr</u>ud). Solution of the stability problem by the first method of A.M. Lynpury nic: Editorial Board: A.A. Abrasov, V.J. 11'9ev, B.V. Medvedev, A.D. Myhnica, S.M. A.G. Postnikov, Nu. V. Prokhirov, L.A. D.V. Y.A. Uspenskiy, M.O. Cheinyev, G. Ye. fulloat this book is intended for antheasticians and physicists. book is Volume IV of the Transactions of the Third matical Conference, held in June and July 1956. The SOV, 2660 the ed 5 Il'in, A.W. (Noscow). On degenerate equations of elliptic and perabolic type 29 5251 Electev, A.A. (Lentagrad). Studies on the hydrodynamics 1 Itskovich, I.4. (Kishinav). Hew proof of the Zygmund. Usidered Theorem Efeal Conterence in Moscow. vol. è: Jummary of Section Reports of Poreign Scientists Nuscow, Edu-vo AM 355M, 247 P.2.200 copies printed. 3 Vessoyurnyy matematicheskiy s"yezd. 3rd, Nuscow, 1956 Erstmoye soderzhaniye sektsionnych doki. • uchenykm (fransætions of the 3rd All-PHASE I BOOK KAPLOTTATION Yellshin, M.I. (Moscow). Qualitative ferential equation of the second order a analysis, probability theory of mechanics and physics, com al logic and the foundations attematics. (Transactions of ā to th tex 600 Pech. Ed.: G.N. Shevchanko: E. Boltymakiy, A.M. Vaail'yee Bikol'akiy (Rep. Ed.), A.G. Boliov, P. L. Ul'yakov, Boliov, and A.L. Shirakov, 2 2 1 n E o henyla Ę t. 4: tical Confi M K/ IL bi story i i 1334<sub>8</sub> 55522 POAT POAL DAIDING . Per 1001 4

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16(1)  
AUTHORS: Kiselew, A.A., Slavutskiy, I.Sh. 
$$507/20-126-6-10/67$$
  
TITLE: On the Number of Classes of Ideals of a Quadratic Field and  
its Rings  
FERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Kr 6,  
pp 1191 - 1194 (USSR)  
ABSTRACT: Let R ( $\sqrt{d}$ ) be a real quadratic field with the fundamental  
discriminant d, principal unit  $E_1 = T_1 + U_1 \sqrt{d}$  and the  
number of ideal classes  $h = h(d)$ . Let p be a prime number  
and  $p \neq d$ . The congruence  
(1)  $h \frac{\overline{U1}}{p^1} = -\frac{\overline{T}}{2d(p-1)p^{1-1}} \frac{d-1}{\overline{u=0}} (\frac{d}{u}) B_{(p-1)p^{1-1}} (\frac{u}{d}) \pmod{p^1}$   
is proved.  
(1- $(\frac{d}{p}) \frac{1}{p})p^1$   
Here it is  $\overline{E_1} = \overline{T_1} + \overline{U_1} \neq \overline{d} = E_1$ ,  $1 \ge 1$ ,  
 $(\frac{d}{u})$  the Eronecker symbol;  $B_n(x)$  Bernoulli polynomial which is  
Card 1/2

### CIA-RDP86-00513R000722730006-4



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KISELEV, A.A.; SLAVUTSKIY, I.Sh.

i

Some congruences for the number of representations of an odd number of squares by sums. Dokl. AN SSSR 143 no.2:272-274 Mr 162. (MIRA 15:3)

1. Predstavleno akademikom V.I.Smirnovym. (Congruences and residues)

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KISELEV, A.A.

Formula describing the energy of a many-electron system with one vacant site. Vest. LGU. 18 nc.16:51-55 '63. (MIRA 16:11)

L 26155-66 EEC(k)-2/EWT(1)/EWA(d)/FSS-2 SCTB TT/DD/GW	
ACC NR: AN6014086 (N) SOURCE CODE: UR/9008/66/000/112/0004/0004	
They start to May Surovakly, N: N.; Yegorov, B. B.; Kiseley, A. A.	
ORG: none	
TITLE An important	
TITLE: An important stage in space medicine. Results of the experiment with sputnik	
SOURCE: Krasnaya vzezda, 17 May 66, p. 4. col. 1-5	
TOPIC TAGS: weightlessness, space medicine, space flight, spacecraft, dog/ Kosmos-110 ABSTRACT: Oligical to the second se	
flight on Kosmos-110 V and the dogs Vgolek and Veterok, following an extended mass	
errect of extended newlada as a sing and enderrant was to determine the	
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to the earth's growitations of a second of weakingsshess while the mature is	÷ł.
their bodily functions, the animals ultimately returned to normal. The authors con-	•
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AUTHOR: Yegorov, B. B.; Yegorov	v, A. D.; Kiselev, A. A.; Sha	adrintsev, I. S.
CRG: none		!
TITLE: Some problems in plannin [Paper presented at the Confere 24 to 27 May 1966]	ng and analysis of physiolog nce on Problems of Space Med	ical flight experiments licine held in Moscow from
SCURCE: Konferentsiya po probl kosmicheskoy meditsiny. (Probl Moscow, 1966, 160-161	emam kosmicheskoy meditainy, ems of space medicine); mate	1966. Problemy rialy konferentsii,
TOPIC TAGS: space physiology, mexperiment	manned space flight, bioastro	onautics, space biologic
ABSTRACT: 1. The ultimate resu formation which can be gathered recorded on on-board and telen after appropriate analysis is an spaceflights and to methods of 2. The most useful and of directly gathered by a specialis this situation, it is entirely exp and biological investigations to	ed by the cosmonaut-investi netric systems. The inform pplied to deciding the durati combating unfavorable spac bjective physiological inform st-investigator during the fl pedient to alter earlier esta	gator and can be nation obtained, on of future eflight factors. nation can be ight itself. In ablished medical
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during the flight.				
3. The purpose from manned and bio physiological space o	of this report is t satellite experime experiments can be	to analyze physiolog ents critically, so t e planned more rat:	gical data obtained that future ionally.	•
4. In planning fl	light experiments,	points of utmost in	mportance are:	
	iological parameters essary for judging	ers which would gu	arantee the dition of the orga-	
	cientifically based of physiological pa tically reliable co	periods of time du	ring which the	
- establishing a l or deciphering the da	scientifically base ta obtained.	d volume of selecti	ive measurements	
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5. To solve these planning problems, both mathematical and physiologi- cal methods were used. These data show the expediency of using complex physiological and mathematical methods for planning physiological space experiments with the help of computer technology. [W.A. No. 22; ATD Report 66-116]		
After a sufficient number of physiological space experiments, conclu- sions based on mathematical methods could be drawn of both individual and species-specific reactions of animals and man to spaceflight factors.		
- selecting a program for conducting space physiological experiments which would assure comparison of the results of each subsequent experiment with the results of former experiments.		
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state that the observed shifts (changes in arterial pressure, put a limbility,	<b>~</b> .
etc.), did not exceed physiological norms, and were related to shifts in	
hemodynamics in the organism accompanied by vegetative reactions,	
characterized by the motion sickness syndrome and those effects which	
are associated with the return of cosmonauts to Earth. Since these	
shifts mainly involved the circulatory system, the need for a more com-	
plete evaluation of the activity of the cardiovascular system in designing	
medical monitoring systems for prolonged spaceflights becomes obvious.	
a space of the protonged space inguts becomes obvious.	
Taking the requirements outlined above into account, the selected	
method of monitoring the condition of the cardiovascular system of the	
cosmonaut can be based on an analysis of the phase structure of the	
cardiac cycle based on polycardiography, obtainable with the aid of simple	
and reliable sensors. Using the proposed method, it is possible on the	
basis of duration of individual phases of the cardiac cycle to obtain	
quantitative characteristics of the contractual ability of the myocardium,	
to determine the temporal relationship between electricat and mechanical	
aspects of cardiac activity, and to evaluate the state of the regulatory	
mechanism of circulation under the influence of extreme spaceflight	
factors. These data, along with determination of the minute volume	
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