$\mathbb{E}(n)/\mathbb{T}/\mathbb{E}(t)/\mathbb{E}(b)/\mathbb{E}^n(n)/\mathbb{E}(c)$ ACCESSION NR: AP5021978 UR/0286/65/000/014/0041/0041 621.787 Method of increasing the service life of steels and alloys. No. 172865 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 41 TOPIC TAGS: steel, alloy, steel service life, alloy service life, steel training, alloy training, cyclic training* ABSTRACT: This Author Certificate introduces a method of increasing the service life of steel and alloy parts by training. To obtain a higher strengthening effect of training, the cyclic treatment by a stress higher than the yield strength is alternated with rest periods. The training*process, which comprises a fixed number of cycles with subsequent rest periods, is repeated 5-10 times. ASSOCIATION: none SUBMITTED: 18Apr63 ENCL: 00 BUB CODE: MA NO REF SOV: 000

ENT(m)/EMP(w)/EPF(c)/T/EMP(t)/EMP(b)/EMA(c) JD/ME/GS L 2662-66

ACCESSION NR: AT5023089

UR/0000/65/000/000/0104/011

AUTHOR: Ivanova, V. S.; Terent'yev, V. F.

TITLE: Effect of air atmosphere on the cyclic strength of metals

SOURCE: Problemy bol'shoy metallurgii i fizicheskoy khimii novykh splavov (Problems of large-scale metallurgy and physical chemistry of new alloys); k 100-letiyu so dnya rozhdeniya akademika M. A. Pavlova, Moscow, Izd-vo Nauka, 1965, 104-110

TOPIC TAGS: air, cyclic strength, metal oxidation, fatigue strength, crack propagation

ABSTRACT: The fact that the cyclic strength of many metals in air is much lower than in a vacuum points up the role of oxidation processes in accelerating fatigue breakdown and, second, points to the possibility of exploring new ways to enhance the cyclic strength of machine parts. For example, metal surfaces can be protected against the harmful effect of air by being wetted with organic liquids of the dodecanol type or coated with an insulating film that is impervious to gazes or used in an air atmosphere to which inert gases (nitrogen, argun, or

Card 1/3

L 2662-66

ACCESSION NR: AT5023089

carbon dioxide) are added in order to reduce the amount of oxygen present. The accelerated fatigue breakdown of metals in the air atmosphere is differently explained by different investigators. Schaub and Liedtke (Zts. Metallkunde, 44, 570, 11. Fatigue, Stockholm, 1955, Berlin, 1956, p. 244) offer the 1953; Proc. theory that the commencement of fatigue breakdown requires: 1) the presence of a local slip that develops during cyclic deformation; 2) the interaction between the oxygen of the air and the atoms of the metal located in the activated slip planes. The combined effect of this reaction and the plastic deformation arising during cyclic deformation leads to the appearance of fatigue cracks. Thus, the mechanism of crack formation would be chemical in nature. This hypothesis, however, cannot be accepted, since chemical processes are rather a secondary factor in crack formation during the fatigue process. The primary factor should be regarded as the processes associated with the motion and interaction of crystal lattice defects (dislocations, vacancies) leading to disturbances in continuity. Chemical processes of the chemosorption type merely contribute, during the stage of crack propagation, to accelerating the appearance and development of fatigue cracks. On the whole, this survey of 22 literature sources shows that the mechanism of action of air on the process of fatigue breakdown is still inadequately investigated. Further basic and applied research into the effect of gaseous media on the fatigue

Card 27.

Card

L 2662-66

ACCESSION NR: AT5023089

strength of metals and alloys is needed. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00 ENGL: 00 SUB CODE: MM

NO REF SOV: 002 OTHER: 020

L 20625-66 EWP(k)/EWT(d)/EWT(m)/T/EWA(d)/EWP(w)/EWP(t)IJP(c) EM/JD/HN ACC NR. AP6010088 SOURCE CODE: UR/0129/66/000/003/0016/0018 AUTHOR: Ivanova, V. S.; Terent'yev, V. F. ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii) TITLE: Effect of repeated deformation on the cyclic strength of low-carbon steel SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 3, 1966, 16-18, and bottom half of insert facing p. 32 TOPIC TAGS: steel, low carbon steel, steel treatment, mechanothermal treatment, steel cyclic strength ABSTRACT: The effect of mechanothermal treatment on the cyclic strength of St3 blow-carbon (0.15% C) steel has been studied. Steel specimens were repeatedly (3-6 times) stretched up to the end of the yield-point elongation and after each stretching were aged at 100C for 20 hr. It was found that increasing the number of mechanothermal cycles improves the strength characteristics of the steel. The treatment repeated 5-6 times increased the tensile and yield strength to the same value, 42-48 kg/mm², and lowered the elongation to 17% and the reduction of area to 36%. Annealed steel had a tensile strength of 38.3 kg/mm², a yield strength of 21.5 kg/mm², an elongation of 10.8%, and a reduction of area of 43.5%. The cyclic strength (in push-pull tests with 400 cycles/min) increased from 26 to 35 kg/mm² and the fatigue life increased 50-100 times. Repeated deformation creates in the **C**ard 1/2 620.178.311.868:621.78 UDC:

ferrite a uniform dislocation structure of high density, and aging brings about the precipitation of a finely dispersed secondary-phase which blocks the dislocations. Orig. art. has: 3 figures. [ND]								
SUB CODE:	11, 13/	SUBM DATE:	none/	ORIG REF:	002/	OTH REF:	001/ A	•
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1 21745-66 EVT(d)/EVT(m)/EVP(w)/EVA(d)/T/EVP(t)/EVP(k) JD/III/EM ACC NR: AP6008044 SOURCE CODE: UR/0020/66/166/004/0843/0846 AUTHOR: Ivanova, V. S.; Terent'yev, V. F. ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii) TITLE: On the form of the fatigue curve for low carbon steel SOURCE: AN SSSR. Doklady, v. 166, no. 4, 1966, 843-846 TOPIC TAGS: fatigue strength, fatigue test, mechanical heat treatment, deformation rate, low carbon steel ABSTRACT: In a previous article by one of the authors (V. S. Ivanova, Fatigue Failure of Metals, Moscow, 1963) energy criteria were proposed for fatigue--a (reduced fracture strength) and N (critical number of loading cycles)--which are independent of the loading conditions and the initial structural state of the metal or alloy (due to various forms of heat treatment). Corresponding to the critical number of cycles N is a critical fatigue stress o -- the stress at which submicroscopic cracks appear in the first loading cycles together with the accumulation of inclas-UDC: 539.385 Card 1/3

L 21745-66

Card 2/3

ACC NR: AP6008044

tic distortions in the crystal lattice. Since σ_{c} is a limiting stress above which submicroscopic cracks appear during the first loading cycles, differences should be expected in the behavior of structure-sensitive properties of the metal for cyclic loads above and below o, as well as a change in the slope of the fatigue curve beginning at the critical fatigue stress. Fatigue tests were conducted to verify this hypothesis on specimens of low carbon 20 steel (0.24% C). The specimens had the following mechanical characteristics in the annealed state (900°, 5 hours): = 50.9 kg/mm², $\sigma_{\rm g}$ = 30.6 kg/mm², δ = 37.9%, ψ = 34.7%. Fatigue curves are given for the metal in the annealed state and after repeated thermomechanical treatment. This treatment consisted of active loading at room temperature to a strictly limited degree of deformation equal to the value of the yield surface with intermediate aging at 180° for 20 hours between deformation cycles in the unloaded state. Repetition of this treatment for 6 cycles resulted in complete disappearance of the yield surface and the yield stress was raised to a new value equal to the ultimate tensile strength. The fatigue curves for annealed specimens show a slight increase in slope indicating greater durability at the critical fatigue stress. The behavior of specimens subjected to repeated thermomechanical treatment As just the opposite

L 21745-66
ACC NR: AP6008044

with a much more pronounced change in slope toward Lower durability. Thus the theoretical hypothesis is confirmed and the values of a and N may be used for an exact determination of the critical stresses at which changes in the slope of the fatigue curve should be expected. Orig. art. has: 3 figures.

SUB CODE: 20, 11/ SUBM DATE: 03Aug65/ ORIG REF: 005/ OTH REF: 006

L 23178-66 EWT(m)/EWA(d)/EWP(k)/EWP(t) JD/HW

ACC NR: AP6005562

SOURCE CODE: UR/0122/65/000/010/0059/0062

AUTHORS: Ivanova, V. S. (Doctor of technical sciences); Terent'yev, V. F. (Engineer

ORG: none

TITLE: The effect of plastic deformation and subsequent aging on the cyclic strength of steel

SOURCE: Vestnik mashinostroyeniya, no. 10, 1965, 59-62

TOPIC TAGS: metal, metallurgy, aging, fatigue strength, plastic deformation, steel

ABSTRACT: The effect of deformation and aging on the cyclical strength of steel machine parts is studied. Aging which occurs in the process of cyclical loading is the prototype example of deformation aging. The cyclical strength of steel under temperature increase from 200 - 4000 reaches a maximum similar to the maximum strength limit under static stressing of steel in the temperature interval of blue brittleness. The effect of the degree of preliminary deformation on the increase of cyclical strength as the result of static deformation aging is shown in Fig. 1. It is concluded from this data that the growth of the degree of preliminary

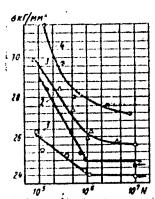
Card 1/3

VDC: 621.7:620.17

L 23178-66

ACC NR: AP6005562

Fig. 1. The effect of static deformation aging on the cyclical strength of low-carbon steel: 1 - normalization; 2, 3 - static deformation of 4% and 9% respectively, aging for 8 hours at 100C; 4 - dynamic deformation 17%, aging for 8 hours at 100C.



deformation is accompanied by an increase in strength from static deformation aging. The magnitude of the strength increases depends not only on the degree of preliminary deformation but also on the mode of preliminary heat transment. Plots are presented showing the effect of static deformation aging for varying degrees of deformation on the cyclical strength of Armco steels, as well as the effect of preliminary plastic deformation and subsequent heat treatment on the cyclical strength of steel S4. The success of the MATO method (multiple mechanical-thermal treatment) is reviewed and the mechanism by which this method increases fatigue Card 2/3

ACC NR: AP6005562

strength is outlined. Reference is made to Soviet, American, and German research in this field. The authors of module that rational application of this type of mechanical thermal treatment can increase the fatigue limit of low-carbon steels by as much as 30 to 40% with corresponding increase in machine parts durability. Orig. art. has: 8 figures.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 005

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755330011-5"

Card 3/3

EWT(m)/T/EWP(w)/EWP(t) IJP(c) ACC NR: Monograph Ivanova, V. S.; Gorodiyenko, L. K.; Geminov, V. N.; Zubarev, P. V.; Fridman, Z. G Liberov. Yu. P.; Terent'vev. V. F.; Vorob'yev, N. A.; Kudryashov, V. G. Role of dislocation in the strengthening and failure 10. of metals (Rol'dislokatsii v uprochnenii i razrushenii metallov) Moscow, Izd-vo "Nauka", 1965. 179 p. illus., biblio. Errata slip inserted. 4500 copies printed. TOPIC TAGS: metal, alloy, metal strength, alloy strength, dislocation, dislocation theory, thermomechanical treatment, metal failure AND COVERAGE: The book is a continuation and development of the ideas of the late Professor I. A. Oding on the theory of dislocations. This theory served as the basis for the elaboration of new methods of strengthening metals, and alloys. In the first part (Chap. I-IV) of this monograph the role of dislocations in the development of plastic deformation and the generation of flaws is discussed. In the second part (Chap. V-VII), the theoretical premises for metal and alloy strengthening with thermomechanical treatment and the effect of this treatment on the mechanical properties of metals and alloys under static and cyclic loads are reviewed. TABLE OF CONTENTS: UDC: *669.018.25:669-17 Card 1/2

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Foreword 5			
Ch. I. Regularities of slop deformation 7	ping and strengther	ning on the different	grades of
Ch. II. Formation of submic multiplication of and inte Ch. III. Effect of grain si teristics of metal fluidit	raction between de ze, temperature, ar	facts of the summed 1.	
Ch. IV. Mechanism of brittle metals during creen 14 73	e rupture and regul	,	
Ch. V. Basic premises for the by means of thermomechanic Ch. VI. Effect of basic technology.	al treatment\%- 103	i	l
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Ch. VII. Increase of cyclic treatment - 148	strength under con	bined thermomechanical	-
References 170			
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ACC NR: AP7005755

SOURCE CODE: UR/0126/67/023/001/0117/0122

AUTHOR: Ivanova, V. S.; Terent'yev, V. F.; Kudryashov, V. G.; Sabitova, N. S.

ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii)

TITLE: Mechanism of hardening during multiple deformation aging

SOURCE: Fizika metallov i metallovedeniye, v. 23, no. 1, 1967, 117-122

TOPIC TAGS: metal deformation, metal aging, metal heat treatment, creep, low carbon

steel

ABSTRACT: The strength of metals can be additionally enhanced if they are deformed in stages alternating with aging. The best results are produced when the metal is subjected at room temperature to successive dynamic loadings up to a rigorously limited degree of deformation equal in magnitude to the creep plateau, alternated with intermediate aging (multiple thermomechanical treatment or MTMT). The MTMT of e.g. iron increases its yield point by 100-150% and ultimate strength by 50-75% while maintaining plasticity at the level of 17%. In this connection the authors investigated the dislocation structure of low-carbon steel and armco iron following their quadruple (i.e. 4-stage) MTMT with intermediate aging (150°C for 5 hr) after each stage of deformation. Dislocations were examined by etching with the reagent

Card 1/2

UDC: 539.4

ACC NR: AP7005755

LZ (100 cc of methyl alcohol + l g FeCl $_3$). Findings: the increase in the static and cyclic strength of armco iron and low-carbon steel following their MTMT is due to the formation of a stabilized dislocation structure which uniformly encompasses the hardened volume of the metal and leads to: a) limitation of surface deformation during cyclic loading of the metal and, as a consequence, retardation of the occurrence of fatigue cracks which, in its turn, prolongs the life of the metal; b) increase in the energy G_{lc} required for the propagation of a crack (per unit length of the crack). Knowledge of the parameters G_{lc} and K_{lc} (relative local increase in tensile stress at the leading end of a crack spreading under conditions of plane deformation) is an important and useful requirement for selecting the optimal regime of hardening treatment. Orig. art. has: 4 figures, 2 formulas.

SUB CODE: 13, 11/ SUBM DATE: 09Oct65/ ORIG REF: 008/ OTH REF: 007

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755330011-5" STETKEVICH, A.A.; TERENT'YEV, V.F.

Data on allergic diagnosis of tick-borne encephalitis.
Trudy Tom NIIVS 12:37-42 *60 (MIRA 16:11)

1. Tomskiy meditsinskiy institut i Tomskiy nauchno-izzledo-vatel*skiy institut vaktsin i syvorotok.

STETKEVICH, A.A., TERENTIYEV, Y.F.

Importance of the embryonic antigen in allergic diagnosis of tick-borne encephalitis. Trudy TomNIIVS 14:24-28 '63. (MIRA 17:7)

1. Tomskiy nauchno-isaledovatel'skiy institut vaktsin i syverotek i Tomskiy meditsinskiy institut.

TERRITY YMV, V.G. Cand Med Sci -- (diss) "Certain reactions of home."

the nervous system of man as offections general vertical vibrations (Clinic-experimental study xx applied to aviation)."

Los, 1958, 15 pp (din of Health USSR. Central List for the Advanced Training of Physicians) 200 copies (KL, 51-53, 102)

- 10 -

1(2) 27(2)

SOV/177-58-1-18/25

AUTHORS:

Borshchevskiy, I.Ya., Colonel of the Medical Corps, Candidate of Medical Sciences; Koreshkov, A.A., Colonel of the Medical Corps, Candidate of Medical Sciences; Markaryan, S.S., Major of the Medical Corps, Candidate of Medical Sciences; Preobrazhenskiy, V.V., Lieutenent-Colonel of the Medical Corps, Candidate of Medical Sciences; Terent'yev, V.G., Lieutenant-Colonel of the Medical Corps

TITLE:

The Effect of the Vibrations of Certain Modern Helicopter and Aircraft Types on the Human Body (Vliyaniye na organizm cheloveka vibratsiy nekotorykh tipov sovremennykh vertoletov i samoletov)

PERIODICAL:

Voyenno-meditsinskiy zhurnal, Nr 1, 1958, pp 74 - 77 (USSR)

ABSTRACT:

Card 1/3

The author reports on his examinations of persons tested by a type VP-70 vibration stand (Figure 1) which produces a single-component vertical vibration.

SOV/177-58-1-18/25

The Effect of the Vibrations of Certain Modern Helicopter and Air-craft Types on the Human Body

By a special adjustment, vibrations reached a frequency of 10 to 70 hz and an amplitude of 0.2 - 2.5 mm. Four series of 3 tests each were performed. During the first two tests of each series, the person to be tested was subjected only to vibration and during the third test simultaneously to vibration and to a 105 to 110-decibel noise. Between tests there were intervals of 3 - 7 days. The data obtained have proved that vibrations with low frequencies and large amplitudes may disturb the pilot's visual orientation during flight and also negatively influence his ability to hit the target. The reactivity of the vestibular analyzer had noticeably increased. Hearing was impaired only by simultaneous vibration and noise effects. Vibrations with frequencies of 40 and 70 hz and amplitudes of 0.3 and 0.4 mm over periods of 4 and

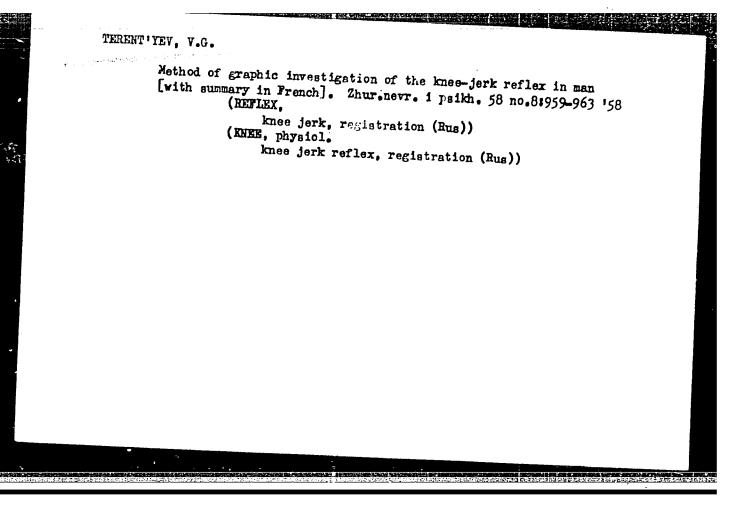
Card 2/3

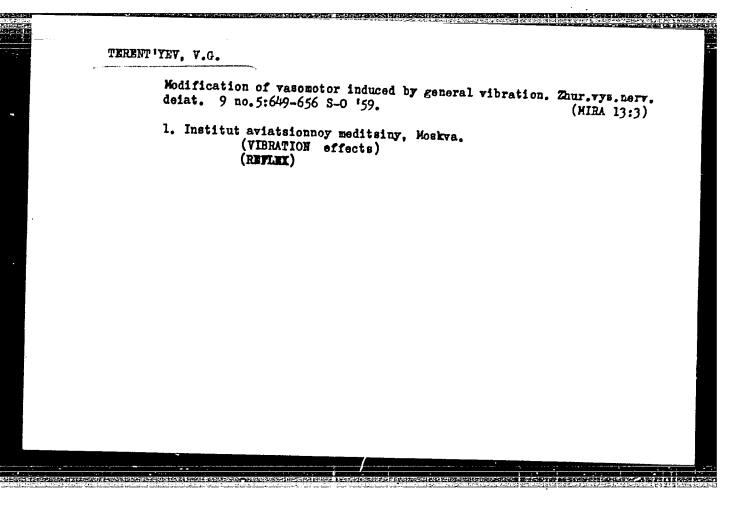
SOV/177-58-1-18/25

The Effect of the Vibrations of Certain Modern Helicopter and Aircraft Types on the Human Body

8 hours, caused insignificant functional changes in the human organism. Vibrations with a frequency of 10 hz and an amplitude of 1.8 and 2.4 mm result in pronounced and permanent functional changes and cannot be recommended as physiologically permissible for the cockpits of helicopters and other aircraft. There is 1 photograph.

Card 3/3





26467

21,2100

S/197/60/000/011/001/003

D219/D302

AUTHORS:

Buyanov, P. V., Galkin, A. V., Karpov, Ye. A., Samukhin, N.V., Terent'yev, V. G., Shevchenko,

A. I.

TITLE:

Contra-indications to the breathing of oxygen at

increased pressure

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 11, 1960, 64 - 68

TEXT: The authors wished to study the effect of systematic breathing of oxygen under pressure and discover medical containdications to its use, especially with regard to personnel suffering from physical defects which do not render them unfit for flying duty. 125 persons, 20 - 40 years old, underwent pressure chamber tests and prolonged clinical observation. All were well and fit for flying duty. 43 had various defects such as pleural synechia and adhesions, hypertensive neurocirculatory dystonia (5), 1st degree thyroid enlargement without malfunction (4) and so on. Normal clinical records were taken and analyses done

Card 1/ 3

26467 S/177/60/000/011/001/003

Contra-indication to the breathing... D219/D302

plus X-Ray, neurological, electrophysiological and ENT examination. Subjects took part in 1 - 97 experiments at 7 - 14 day intervals. Physiological effects were noted immediately; rise in heat and respiration rate, arterial pressure, bioelectric respiratory muscle activity; ECG variation; fall of oxyhemoglobin level to 60 - 80% (slowing of circulatory rate; chan ges in latent period of conditioned motor reflexes; occasional subcutaneous emphysema. Subjects usually felt well after tests complaining rarely of fatigue or headache. Clinical examination generally revealed slowing of pulse (by 6 - 18 beats), increase in venous pressure, moderate increase in arterial pressure, slight fall in pulse pressure and increase in heart size. In over 30% of cases heart murmurs - usually pulmonary and aortic-appeared: No pathological ECG changes save extrasystoles in a cases. Changes were often recorded in capillary formation, phethysmograph curves and in vasomotor reflexes. Aftereffects: Lung vital capacity decreased by 200 - 400 ml. A third of the subjects had scattered dry rales. Lung X-Ray showed occasional

Card 2/3

26467

Contra-indications to the breathing...D219/D302 S/177/60/000/011/001/003

shadowing and local disciform atelacteses. There was an increase in neutrophil leucocytes in the peripheral blood and a relative lymphocyte fall. Tendon reflexes became more and more sensitive, finger tremor increased, touch discrimination and co-ordination deteriorated and signs of general fatigue appeared. All changes were reversible, usually in a few hours. As regards personnel suffering from minor defects, the effect of these deficiencies was varies. In some cases e.g., chronic gastritis, longed experimentation, but it was clear that systematic participation in such high altitude tests was contra-indicated in all cases of pulmonary tuberculosis, neurocirculatory dystonia, leucopenia, pronounced emotional instability, endocrine deficiency, chronic ENT conditions, or for persons who became rapidly upper respiratory tract infections or exarcerbations of chronic upper respiratory tract disease.

SURMITTED: August 1960

Card 3/3

VOLYMKIN, Yu.M.; YAZDOVSKIY, V.I.; G-NIN, A.M.; VASIL'YEV, P.V.;
GYURDZHIAN, A.A.; GURCVSKIY, N.N.; GORBOV, F.D.; SERYAPIN,
A.D.; BELAY, V.Ye.; BAYEVSKIY, R.M.; ALTUKHOV, G.V.;
KOPANEV, V.I.; KAS'YAN, I.I.; YEGOROV, A.D.; SIL'VESTROV,
M.M.; SIL-PURA, S.F.; TERENT'YEV, V.G.; KRYLOV, Yu.V.; FCMIN,
A.G.; USHAKOV, A.S.; DEGTYAREV, V.A.; VOLOVICH, V.G.;
STEPANTSOV, V.I.; LYASHIKOV, V.I.; YAZDOVSKIY, V.I.; KASHIN,
P.S., tekhn. red.

[First space flights of man; the scientific results of the redicobiological research conducted during the orbital flights of the spaceships "Vostok" and "Vostok-2"]Pervye kosmicheskie polety cheloveka; nauchny rezul'taty redikobiologicheskikh issledovanii, provedennykh vo vrenia orbital'nykh poletov korablei-sputnikov "Vostok" i "Vostok-2." Koskva, Izd-vo Akad. nauk SSSR, 1962. 202 p. (MIRA 15:11) (SPACE MEDICINE) (SPACE FLIGHT TRAINING)

YEGOROV, A.D.; OGLEZNEV, V.V.; TERENT'YEV, V.G. (Moskva)

Effect of moderately increased doses of positive aeroions on the organism of healthy person; preliminary report. Vop. kur., fizioter. i lech. fiz. kul't. 28 no.2. 135-137 Mr-Ap'63. (MIRA 16:9)

(AIR, IONIZED -- PHYSIOLOGICAL EFFECT)

VOLYNKIN, Yu.M.; YAZDOVSKIY, V.I., prof.; GENIN, A.M.; GAZENKO, O.G.; GUROVSKIY, N.N.; YEMEL'YANOV, M.D.; MIKHAYLOVSKIY, G.P.; GORBOV, F.D.; SERYAPIN, A.D.; BAYEVSKIY, R.M.; ALTUKHOV, G.V.; KOPANEV, V.I.; KAS'YAN, I.I.; MYASNIKOV, V.I.; TERENT'YEV, V.G.; HYANOV, I.I.; FEDOROV, Ye.A.; FOMIN, V.S.; ARUTYUNOV, G.A.; ANTIFOV, V.V.; KOTOVSKAYA, A.R.; KAKURIN, L.I.; TSELIKIN, Ye.Ye.; USHAKOV, A.S.; VOLOVICH, V.G.; SAKSONOV, P.P.; YEGOROV, A.D.; NEUMYVAKIN, I.P.; TALAPIN, V.F.; SISAKYAN, N.M., akademik, red.; KOLPAKOVA, Ye.A., red.izd-va; ASTAF'YEVA, G.A., tekhn.red.

[First group space flight; scientific results of medical and biological studies carried out during the group orbital flight of manned satellites "Vostok-3" and "Vostok-1] Pervyi gruppovoi kosmicheskii polet; nauchnye rezul'taty mediko-biologicheskikh issledovanii, provedennykh vc vremia gruppovogo orbital'nogo poleta korablei-sputnikov "Vostok-3" i "Voskot-4." Moskva, Izd-vo "Nauka," 1964. 153 p.

(MIRA 17:3)

HMEIN, V.T., ken., and, rauk; THEENFYEY, V.G., politynik meditaintvoy aluanty, hand, not. net.

VOLYNKIN, Yu.M.; ARUTYUNOV, G.A.; ANTIPOV, V.V.; ALTUKHOV, G.V.;

BAYEVSKIY, R.M.; BELAY, V.Ye.; AUYAHOV, P.V.; BRYAHOV, I.I.;

VASIL'YEV, P.V.; VOLOVICH, V.G.; GAGARIE, YU.A.; GENIN, A.M.;

GORBOV, F.D.; GORSHKOV, A.I.; GUROVSKIY, N.N.; YESHANOV, N.Kh.;

YEGOROV, A.D.; KARPOV, Ye.A.; KOVALEV, V.V.; KOLOSOV. T.A.;

KORESHKOV, A.A.; KAS'YAN, I.I.; KOTOVSKAYA, A.R.; KALIBERDIN,

G.V.; KOPANEV, V.I.; KUZ'MINOV, A.P.; KAKURIN, L.I; KUDROVA,

R.V.; LEBEDEV, V.I.; LEBEDEV, A.A.; LOBZIN, P.P.; MAKSIMOV,

D.G.; MYASNIKOV, V.I.; MALYSHKIN, Ye.G.; NEUMYVAKIN, I.F.;

ONISHCHENKO, V.F.; POPOV, I.G.; PORUCHIKOV, Ye.P.; SIL'VESTROV,

M.M.; SERYAPIN, A.D.; SAKSONOV, P.P.; TERENT'YEV, V.G.; USHAKOV,

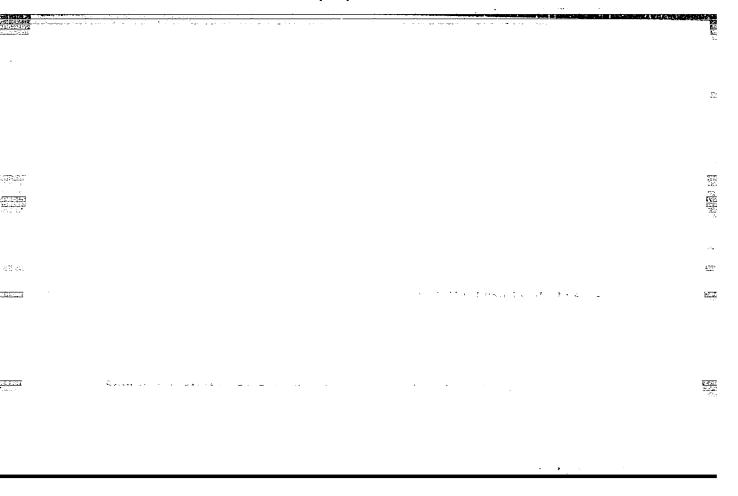
A.S.; UDALOV, Yu.F.; FOMIN, V.S.; FOMIN, A.G.; KHLEBNIKOV, G.F.;

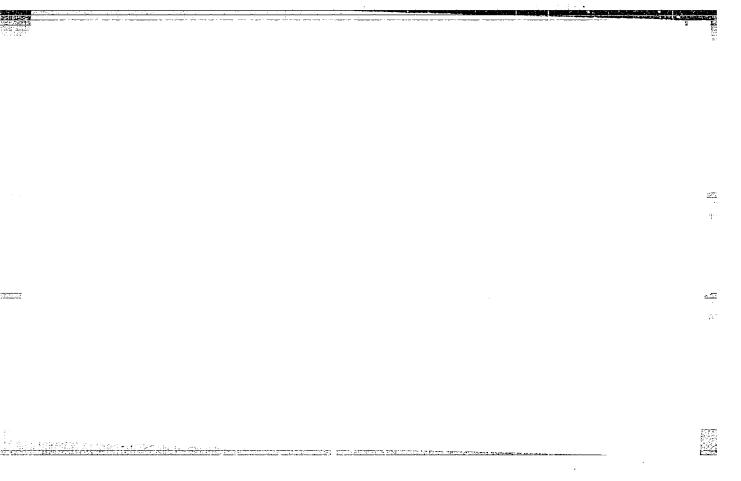
YUGANOV, Ye.M.; YAZDOVSKIY, V.I.; KRICHAGIN, V.I.; AKULINICHEV,

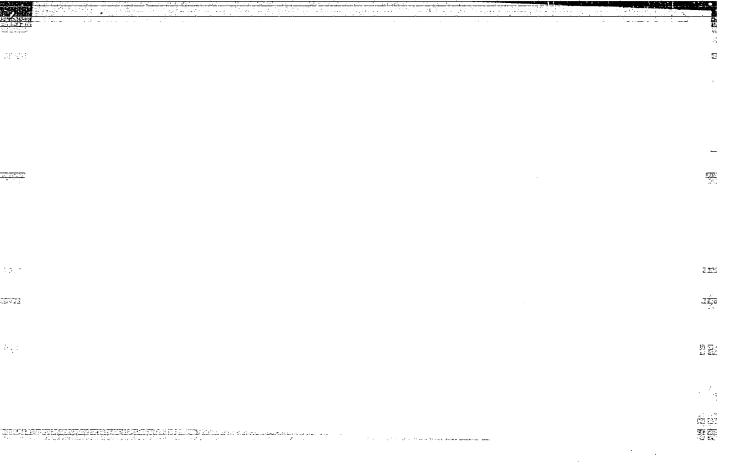
I.T.; SAVINICH, F.K.: SIMPURA, S.F.; VOSKRESENSKIY, O.G.;

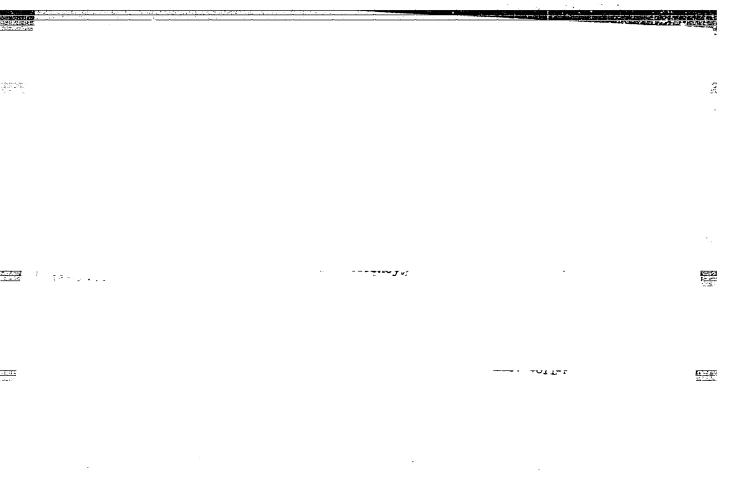
GAZENKO, O.G., SISAKYAN, N.M., akademik, red.

[Second group space flight and some results of the Soviet astronauts' flights on "Vostok" ships; scientific results of medical and biological research conducted during the second group space flight] Vtoroi gruppovoi kosmicheskii polet i nekotorye itogi poletov sovetskikh kosmonavtov na korabliakh "Vostok"; nauchnye rezul'taty medikobiologicheskikh issledovanii, provedennykh vo vremia vtorogo gruppovogo kosmicheskogo poleta. Moskva, Nauka, 1965. 277 p. (MIRA 18:6)









L 11364-67 EWT(1) SCTB DD/GD

ACC NR: AT6036509

SOURCE CODE: UR/0000/66/000/000/0081/0083

AUTHOR: Buyanov, P. V.; Galkin, A. V.; Torent'yov, V. G.; Sheludyakov, Ye. Ye.; Pisarenko, N. V.; Yaroshenko, G. L.

ORG: none

TITLE: Problems of the selection of candidates for special crews Paper presented at conference on problems of space medicine held in Moscow from 24-27 May 1966

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 81-83

TOPIC TAGS: cosmonaut selection, bioastronautics, space physiology, space psychology, psychophysiology, cosmonaut training

ABSTRACT: The systematic exposure of young test pilots to aviation or space-flight conditions is of importance relative to perfecting methods for selecting pilots and cosmonauts. Considering the caliber of professional activity, the test pilot must be in excellent physical and mental condition.

Selection takes place in three stages: preliminary ambulatory selection, stationary examination in special medical establishments, and elimination during the first months of occupational activity.

Card 1/3

L 11364-67

ACC NR: AT6036509

During preliminary selection, the medical commission was given documents describing anamnesis data, general and physical development, and medical treatment in the preceding year. After familiarization with these documents, nearly half the applicants were rejected due to therapeutic status or poor eyesight. During preliminary ambulatory examinations, medical specialists (therapists, otolaryngologists, neuropathologists, surgeons) analyzed blood, urine, EKG's during rest and after exercise, x-ray films of thoracic organs and nasal accessory sinuses, and conducted vestibular and other functional tests. In some cases, spinal x-rays, pressure chamber exposure, etc., were conducted.

Rejections during the first examination phase were high. The main reasons for rejection were ear, nose, and throat ailments, neurocirculatory dystonia, and vestibulo-autonomic instability.

During the stationary phase, an expanded program of clinical, physiological, and specialized tests was used. From 25 to 50% of the candidates who had passed the first phase of examinations were rejected. The main causes of rejection were diseases of internal organs (nearly half the rejects), vestibulo-autonomic instability, ear, nose, and throat diseases, and spinal disorders.

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L 11304-07 ACC NR: AT6036509

In recent years, rejection of candidates during the second phase has declined as a result of a more detailed examination during the first phase and new methods of examination. For instance, substitution of the standard OR-10 vestibular test with I. I. Bryanov's test (summation of vestibular stimuli during Coriolis accelerations) significantly decreased the number of rejects due to vestibular disorders. At the same time, ear, nose, and throat rejects were more accurately diagnosed by substituting otoscopy and manometric examinations (Boyachev and Gerasimov manometers) with pressure chamber tests. Spinal x-rays curing the ambulatory phase could not be justified.

The occupational activity of a number of candidates produced some changes which precluded their further participation and caused their rejection from testing work. About 10% of the candidates were found to be unsatisfactory during this phase.

These data permit the examiner to foresse probable deviations in health under occupational conditions during the selection phase, to evaluate individual methods applicable to selection, and to prognose work capabilty under the influence of external factors. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 05,06 / SUBM DATE: 00May66

u 21348-66 EWT(1)/FSS-2/EEC(k)-2/EWA(d) ACC NRI SCTB TT/DD/GW AP6007746 . SOURCE CODE: UR/0293/66/004/001/0151/0155 AUTHOR: Buyanov, P. V.; Kovalev, V. V.; Terent'yev, V. G. Fedorov, Ye. A. Khlebníkov, G. F. ORG: none TITLE: Results of preflight and postflight medical examinations of Voskhod-1 crew SOURCE: Kosmicheskiye issledovaniya, n. 4, no. 1, 1966, 151-155 TOPIC TAGS: cosmonaut, physiological change, cardiovascular system, enzyme, encephalogram, muscular tonus, leukocyte/waskingtat. ABSTRACT: Results of preflight and postflight examinations of the Voskhod-1 cosmonauts were compared and physiological shifts were noted. The physiological profile of each cosmonaut was determined from background data compiled for two weeks before the flight. Examination of the cosmonauts after preflight training showed ircreased resistance to flight factors in all of them, especially Komarov. By comparison, Feoktistov and Yegorov showed less adaptability, especially in the cardiovascular system. In the week preceding the flight, Komarov and Feoktistov were somewhar teserved in behavior. Prelaunch tests conducted at the cosmodrome emphasized the nervous and emotional state of the cosmonauts. The four-day postflight medical examination began 15 minutes after landing. To ensure uniformity, all postflight tests Card 1/2 UDC: 629.198.61

ACC NR.

AP6007746

(including laboratory tests) were conducted by the same people who had performed the preflight checks. Clinical investigation begun six hours after landing showed a moderate decrease in working capacity, revealed in an increase in the number of errors and a lengthening of latent periods during performance of psychological tests. Encephalograms showed intensification of retardation processes in the cerebral cortex. Slight variations in digestive enzyme activity were also observed in the cosmonauts after the flight: the activity of amylase, enterokinase, alkaline phosphatase, and trypsin increased. The following shifts were noted in cosmonauts immediately after the flight: slight instability in the Romberg position, tremor of fingers, increased tendency to perspire, moderate decrease in muscle tone, quickening of the pulse, and decrease in blood pressure due to increased diastolic pressure. Body weight decreased 2.6% for Koamrov, 4% for Fecktistov, and 3.9% for Yegorov. In addition, moderate shifts in metabolic processes were noted: increased energy consumption while resting, increase in blood urea and cholesterol, and increased elimination of nitrogenous components from urine. Some decrease in the phagocytic activity of leukocytes was also observed. The changes noted were attributed to fatigue and stress. They were of a strictly functional nature and usually disappeared within several days after the flight. Individual characteristics and differences in preflight preparation were reflected in the varying character of these physiological [JS]

SUB CODE: 06/ SUBM DATE: 28Jul65/ ATD PRESS: 42/9

Card 2/2

S/803/62/000/003/003/012 D201/D308

AUTHORS:

Popov, P.I. and Terent'yev, V.G.

TITLE:

Increasing the reliability of protection systems in

the presence of noise

SOURCE:

Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika, no. 3, 1962. Sistemy upravleniya

yadevnymi energeticheskimi ustanovkami, 22-25

TEXT:

The authors show that in reactor protection systems,

with differentiating circuits having a frequency response

$$W(j\omega) = \frac{T_1 j\omega}{(T_1 j\omega + 1)(T_2 j\omega + 1)}$$
(1)

a well designed period meter must satisfy the condition $T_1 - T_2$.

Card 1/1

5/803/62/000/003/004/012 D201/D308

AUTHORS:

Popov, P.I., Terent'yev, V.G. and Filipchuk, Ye.V.

TITLE:

Some methods of increasing the reliability of electron tube amplifiers

SOURCE:

Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika, no. 3, 1962. Sistemy upravleniya yadevnymi energeticheskimi ustanovkami, 26-34

TEXT: The authors analyze the following methods: 1) Parallel connection of the main and the standby amplifier, the latter being connected via a summing device utilizing negative feedback. 2) Standby amplifier switching by means of an anode load impedance, applicable to power amplifiers or oscillators with tungsten filaments. 3) A special circuit excluding the variation of gain and load current in the case of failure of heater circuit. Gain variations (with respect to normal gain) and design criteria are discussed. There are

Card 1/1

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AUTHORS:

Popov, P.I. and Terent'yev, V.G.

TITLE:

Reliability of some circuits for switching in the

standby equipment

SOURCE:

Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika, no. 3, 1962. Sistemy upravleniya yadevnymi energeticheskimi ustanovkami, 39-43

TEXT: The authors discuss the reliability of some basic circuits used for the switching in of the standby equipment and switching out of the faulty equipment. The probability of faultless operation P(t) for 1,000 hours was taken as the quantitative reliability criterion. The rates of failure λ was assumed as follows: electron tubes $\lambda_{\rm c}=(0.08$ - 0.11) x 10⁻³; high stab. resistors $\lambda_{\rm c}=(0.0035$ - 0.013) x 10⁻³; capacitors $\lambda_{\rm c}=(0.0035$ - 0.018) x 10⁻³; relays $\lambda_{\rm r}=0.00035$ x 10⁻³. The following basic circuits were analyzed: 1) A single-shot, cathode coupled multivibrator with Card 1/2

Reliability of some circuits ...

S/803/62/000/003/006/012 D201/D308

P(t) = 0.923-0.90. 2) A differential amplifier with P(t) = 0.926 - 0.904. 3) A diode and relay circuit with P(t) = 0.926 - 0.904. 4) A capacitive-relay circuit with P(t) = 0.9988, the most effective as a switching-over circuit. 5) A neon stabilizer circuit for positive and negative power supplies failure signalling with the same probability as 4. There are 5 figures.

Card 2/2

38444 5/089/62/012/006/007/019 B102/B104 Popov, P. I., Terent'yev, V. G., Filipchuk, Ye. V. 21.1000 The safety factor of the emergency shielding system of AUTHORS: Atomnaya energiya, v. 12, no. 6, 1962, 497 - 502 nuclear reactors TEXT: Some principles of automatic reactor shielding systems and their TITLE: reliability are considered. The systems have to meet the following requirements: (1) If the object to be shielded breaks down, the processes PERIODICAL: quirements: (1) It the object to be shrethed breaks down, the processes taking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (2) a breakdown of elements or contaking place therein must be stopped; (3) a breakdown of elements or contaking place the contaking place therein must be stopped; (4) a breakdown of elements or contaking place the contaking taking place therein must be supper; (2) a breakuogn of elements of the shield must not affect the technical processes.

The reliability of such sufficient agents on he improved by increasing the reliability of such sufficient agents. necting pieces of the shield must not affect the technical processes.

The reliability of such automatic systems can be improved by increasing The reliability of such automatic systems can be improved by increasing their safety factor. The reliability with ard without reserve is studied their safety factor. The reliability with ard without reserve is studied their safety factor. The reliability with ard without reserve is studied their safety factor. The reliability of the following quantitative characteristics:

The reliability of uninterrupted operation the probability of the probability of uninterrupted operation. gimultaneously, using the lollowing quantitative characteristics, the probability Q(t) of probability P(t) of uninterrupted operation, the probability Q(t) of integrantion. Interruptions in probability x(t) of uninterrupted operation, the probability y(t) of interruption. Interruptions in the interruption, and the hazard $\lambda(t)$ of interruption. interruption, and the nazara A(t) of interruption. Interruptions in the shielding systems are regarded as being socidental and independent, and the heart is considered to be constant. the hazard is considered to be constant. For the i-th element, of the

S/089/62/012/006/007/019 B102/B104

The safety factor of the ...

system one finds $P_i(t) = \exp(-\lambda_i t)$. A distinction is made between dangerous and harmless interruptions in the shielding system. The latter are daused by defects in this system, while the former are due to actual breakdown. Simple shielding systems, shields with coincidence circuit, the connection of spare channels, and systems with reserve are described. The reliability of a system in the most favorable case (P, Q) and in the most unfavorable case (P^*, Q^*) is characterized by P(1000), P(1000), most unfavorable case P(1000) for 1000 hours of operation each. These values are P(1000) and P(1000) for a shielding system with general reserves and for a numerically given for a shielding system with general reserves and for a system with reserves for each element. These systems use electron tubes system with reserves for each element. These systems use electron tubes and semiconductor elements. In addition, a system with increased reliability (coincidence circuit) is described (Fig. 6), for which the following numerical values can be obtained:

lowing numerical values can be obtained:

P(1000)
O.79
O.21
Operation with electron tubes
O.89
O.11
O.79
O.21
Operation with semiconductor
elements
There are 6 figures and 3 tables.

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Legend to Fig. 6. (MK) ionizati (AY) logarithmic amplifiers; (AY down detector; (6CY) trigger dev coincidence circuit; (3M) electr	on chambers; (K) "contac") differentiating amplifice unit; (Ny) reversing omagnet; (K) switch	tless" switches; iers; (OH)break- switch; (CC)	*
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Car: 4/20 3			
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ACCESSION NR: AP4025741

8/0144/64/000/002/0228/0238

AUTHOR: Panin, Valerian Valerianovich (Engineer); Popov, Petr Ivanovich (Candidate of technical sciences, Docent); Terent'yev, Vladimir Georgiyevich (Assistant)

TITLE: Investigation of reliability of contactless-element switching circuits

SOURCE: IVUZ. Elektromekhanika, 7no. 2, 1964, 228-238

TOPIC TAGS: switch, cyclic switch, sequence switch, contactless switch, contactless switch reliability

ABSTRACT: The successive cyclic switching of channels in telemeter or remote-control systems is theoretically considered. An optimum structure of the (ring or binary) switch scheme is determined on the basis of the number of channels N and failure rates of the scheme components. Formulas for the number of transistors, diodes, and the faultless-operation probability are developed for the

Card 1/2

ACCESSION NR: AP4025741

ring scheme and the binary scheme (with a rectangular, pyramidal, or minimal matrix). It is found that the required number of channels always determines the dimensionality k of the matrix with a selected switch structure. The proper choice of k has an important bearing on the required number of diodes and the resulting reliability. With an optimum k, the reliability of all switch schemes is practically the same. Orig. art. has: 6 figures and 30 formulas.

ASSOCIATION: none

SUBMITTED: 10Apr62

DATE ACQ: 16Apr64

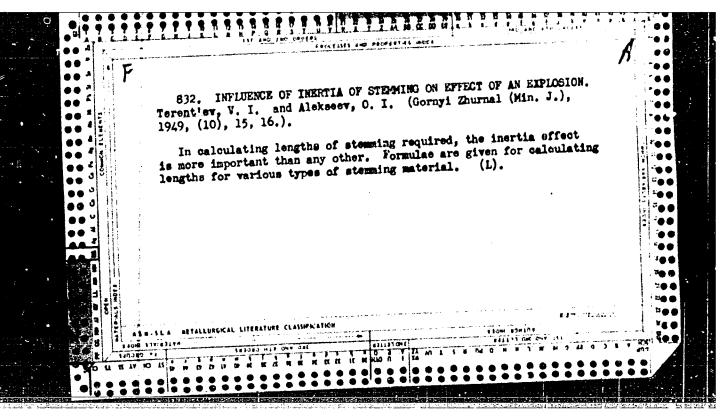
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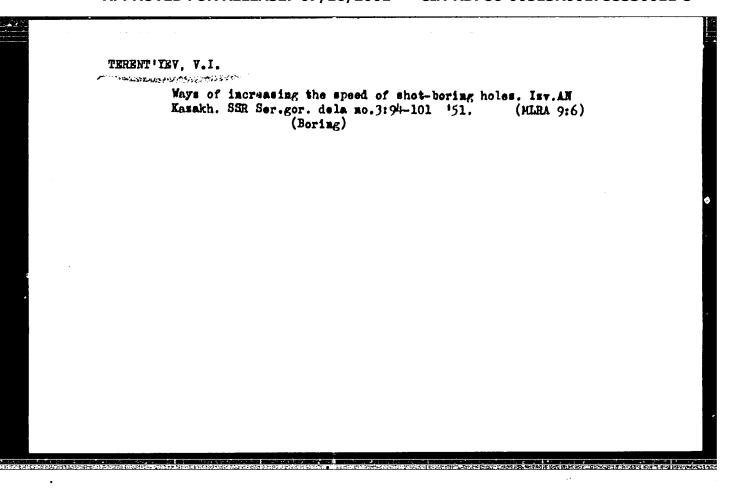
Card 2/2



TERREAT'YEV, V.I., kand. tekhn. nook, ctv. red.; KONEKYTYEVA, V.I., red.

[Improving the technology of open pit mining of iron ore deposits in the Kursk Magnetic Anomaly] Bovershenstvevanie tekhnologii otkrytoi razraletki zhelezorudnykh mostor zhdenii KMA. Moskva, izd-vo "hauka," 1964. 166 p.

1. Nauchno-issledovatel'skiy institut po problemam beceksy magnitney anomalli in. L.D. thevyskova.



TIRRET YEV, V.I.

Effect of charge depth on the change in the specific consumption of explosives. Izv.AN Kasakh.SSR.Ser.gor.dela,met.i stroimat. no.1:21-24 152. (NIRA 9:8)

BAHON, L.A., doktor tekhnicheskikh nauk; TERENT'YEV, V.I., kandidat tekhnicheskikh nauk; KALOSHIN, S.G., gornyy inshener.

Reducing the occurrence of silicosis and increasing the effectiveness of perforatory drilling by using bits with hard tips set at an angle. Bor'ba s sil. 1:76-82 '53. (MLRA 7:10)

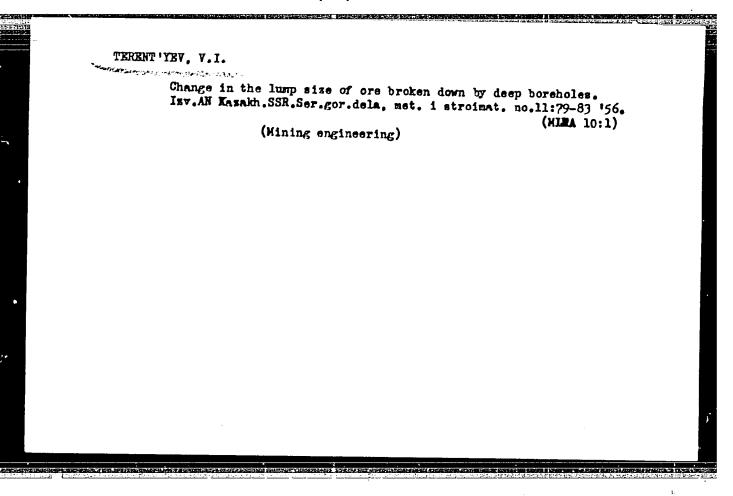
1. Komissiya pri Akademii nauk SSSR po bor'be s silikozom (for Baron). 2. Institut gornogo dela Akademii nauk Kasakhskoy SSR (for Kaloshin).

(MINE DUSTS) (BORING MACHINERY)

BARON, L.I., doktor tekhnicheskikh nauk; KEKIN, A.A., kandidat tekhnicheskikh nauk; TERENT'YEV, V.I., kandidat tekhnicheskikh nauk; AKHMETOV, M.M., kandidat tekhnicheskikh nauk; ZHANABATYROV, Ye.S., gornyy inzhener

Studying the effectiveness of different systems used for the precipitation of dust in boring with pneumatic hammors. Bro'ba s sil. 2:118-131 '55. (MLRA 9:5)

- 1. Komissiya pri Akademii nauk SSSR po bor'be s silikozom (for Baron)
- 2. Insitut gornogo dela Akademii nauk Kazakhskoy SSR.
 (DUST COLLECTORS) (BORING)



TERENT'YEV, V.I., kandidat tekhnicheskikh nauk.

The study of the size of ore fragments as related to factors in blasting operations. Vest.AN Kazakh.SSR 12 no.3:83-92 Mr '56.

(MIRA 9:7)

1.Predstavlena deystvitel'nym chlenom AN KazSSR A.S.Popovym.

(Blasting)

Changing the output of large-size ore depending on the spacing of explosive charges. Izv. AN Kazakh. SER. Ser. gor. dela, mat., stroi. i stroimat. no.2:121-124 '57. (MLRA 10:9)

TERENT YEY VI

PHASE I BOOK EXPLOITATION

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Akademiya nauk SSSR. Institut gornogo dela.

Voprosy teorii razrusheniya gornykh porod deystviyem vzryva (Theoretical Problems in Crushing Rock by Blasting) Moscow, Izd-vo AN SSSR, 1958. 161 p. 2,500 copies printed.

Resp. Ed.: Mel'nikov, N.V., Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: Klimovitskiy, Ya.A.

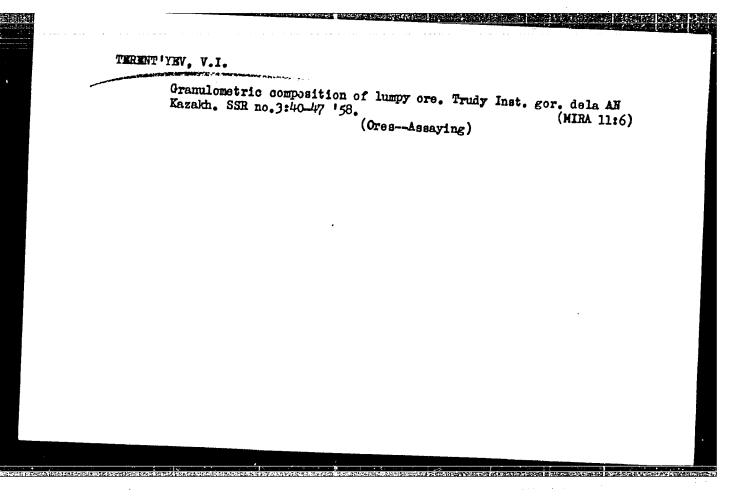
PURPOSE: This collection of articles is of interest to mining specialists.

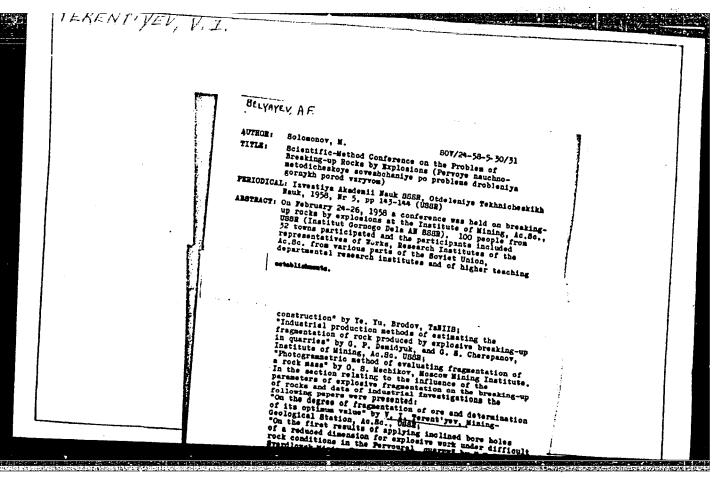
COVERAGE: The present collection of 9 articles by various authors presents the results of scientific research in the field of rock crushing in mining by means of blasting. The studies conducted are of both theoretical and practical nature. The articles examine the distribution of explosive energy and the propagation of spherical explosive waves in soil. Theoretical principles in determining the size of charges for certain types of mining operations are discussed and analysed. The articles are accompanied by diagrams, photographs, tables and bibliographic references.

Card 1/3

Theoretical Problems (Cont.)	
TABLE OF CONTENTS:	
Poreword	
Khanuayev, A.N. The Physical Nature of the Disintegration Process in Bocks Due	3
Vlasov, O.Ye. Principles of the Theory of the Disintegration of Rocks by	7
Lukhanov, A.F. Disintegrating Rocks by Blasting	46
Kovashenkov, A.V. [Deceased] Study of Rock Disintegration by Single Cylindrical	61 1
Terent'yev, V.I. A Study of the Relationship Between Ore Lumpiness and Factors	
Belayenko, F.A. Study of Stress Fields and the Process of Fissuring in Cylin- drical Blasting Charges in Hard Rocks	100
Card 2/3	126

Theoretical Problems (Cont.)	
Pokrovskiy, G.T. Prerequiates as it	
Pokrovskiy, G.I. Prerequisites of the Theory of Rock Crushing by Blasting	140
Rakhmatulin, Kh.A. and Stepanova, L.I. Propagation of the Explosive Shock	2,0
	149
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TERENT'YEV, V.I., kand.tekhn.nauk; PALHY, I.A., inzh.; IVANOV, L.A.,

Jse of transducers in testing pneumatic boring machines.

Gor.zhur. no.8:45-46 Ag *60. (MIRA 13:8)

(Boring machinery—Testing)

(Transducers)

TERENT' YEV. V.I., otv. red.; PEVZNER, G.Ye., red. izd-vr; RYLINA, Yu.V., tekhn. red.

[Problems in mining the deposits of the Kursk Magnetic Anomaly] Voprosy razrabotki mestorozhdenii Kurskoi magnitnoi anomalii; abornik statei. Moskva, 1961. 307 p.

(MIRA 14:5)

1. Akademiya nauk SSSR. Institut gornogo dela.

(Kursk Magnetic Anomaly--Iron mines and mining)

TERENT'YEV, V.I., kand. tekhn. nauk, otv. red.; PEVZNKR, G.Ye., red. izd-va; LAUT, V.G., tekhn. red.

[Geology, engineering geology, and hydrogeology of deposits in the Magnetic Anomaly] Voprosy geologii, inzhenernoi geologii i gidrogeologii mestorozhdenii KMA; sbornik statei. Moskva, Izd-vo Akad.nauk, SSSR, 1961. 92 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Institut gornogo dela.
(Kursk Magnetic Anomaly—Geology, Economic)

TERENT'YEV, V.I., otv. red.; BANKVITSER, A.L., red.izd-va; SIMKINA, G.S., tekhn. red.

[Mining and dressing ores of the Kursk Magnetic Anomaly] Voprosy razrabotki i obogashcheniia rud KMA. Moskva, Izd-vo Akad. nauk SSSR, 1962. 183 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Institut gornogo dela. (Kursk Magnetic Anomaly—Iron mines and mining) (Ore dressing)

AGOSHKOV, M.I.; TERENT'YEV, V.I., kand.tekhn.nauk; TERPOGOSOV, Z.A., kand.tekhn.nauk; KARYAKIN, V.F., gornyy inzh.

Practice of using a flat bottom is a mine of the Kursk Magnetic Anomaly. Gor. zhur. no.9:28-31 S '62. (MIRA 15:9)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

(Kursk magnetic anomaly--Iron mines and mining)

TERENT'YEV, V. I.; BABAYANTS, G. M.; KARYAKIN, V. F.

Systems of underground mining of ferrous quartzites at the Kursk Magnetic Anomaly. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst. nauch. i tekh.inform. no.10:3-8 62. (MIRA 15:10)

(Kursk Magnetic Anomaly-Iron mines and mining)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755330011-5"

TERENT'YEV, V.I., kand. tekhn.nauk, otv. red.; MAKOVSKIY, G.M., red.; ZUDINA, V.I., tekhn. red.

[Mining and dressing iron ores of the Kursk Magnetic Anomaly] Razrabotka i obogashchenie zheleznykh rud KMA; sbornik statei. Moskva, Izd-vo AN SSSR 1963. 138 p. (MIRA 17:1)

1. Akademiya nauk SSSR. Nauchno-issledovatel'skiy institut po problemam KMA.

TERENT'YEV, V.I., kand. tekhn. nauk, otv. red.; MAKOVSKIY, G.M., red.; PEVZNER, G.Ye., red.izd-va; GUS'KOVA, O.M., tekhn. red.

[Geology, mineralogy and engineering geology of the Kursk Magnetic Anomaly] Geologiia, mineralogiia i inzhenernaia geologii KMA. Moskva, Izd-vo AN SSSR, 1963. 140 p. (MIRA 17:2)

1. Gubkin. Institut po problemam KMA.

ACC NR: AT6020407 (N) SOURCE CODE: UR/0000/65/000/000/0103/0111

AUTHOR: Kalmykov, A. A.; Tereshin, V. I.; Chebotarev, V. V.

ORG: none

TITLE: Traversal of a spatially nonuniform magnetic field by plasmoids

SOURCE: AN UkrSSR. Issledovaniye plazmennykh sgustkov (Study of plasma clusters). Kiev, Naukovo dumka, 1965, 103-111

TOPIC TAGS: plasmoid, plasma magnetic field, plasma conductivity, spectroscopy

ABSTRACT: Plasmoid motion in a nonuniform magnetic field is studied with particular emphasis on the blocking of the slow-moving tail part which carries a large amount of impurities and is not strongly ionized. Periodic space perturbation of magnetic field was introduced in such a way that the high conductivity pure part of the plasmoid was not greatly affected, while the cooler tail end interacted strongly with the field. These experiments were performed on straight sections of a plasma guide using magnetic probes, spectroscopy and a pulsed plasmascope for the study of plasmoid properties. Magnetic probes showed the almost complete expulsion of the magnetic field by the fast (5·10⁶ cm/sec) portion of the plasmoid. These measurements were used to determine the extent of a high-conductivity plasmoid as its position in the guide changed. It was

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shown that as the ar	mplitude of t	the nonunifor	m field incre	ased, the	upper limit	on the ,
ion velocity moved of the high conduct	ivity part of	the plasmoi	was further s	hown that	the greates	t losses
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ACC NR. AT6020408 (V) SOURCE CODE: UR/0000/65/000/000/0112/0118

AUTHOR: Kalmykov, A. A.; Tereshin, V. I.; Chebotarev, V. V.

54 B+1

ORG: none

TITLE: Stabilization of plasmoid boundaries in the traversal of corrugated magnetic fields

SOURCE: AN UkrSSR. Issledovaniye plazmennykh sgustkov (Study of plasma clusters). Kiev, Naukova dumka, 1965, 112-118

TOPIC TAGS: plasmoid, plasma magnetic field, plasma velocity, plasma stability

ABSTRACT: The results in this work indicate that corrugated magnetic guiding fields can replace high frequency stabilization of a plasmoid surface. The period of corrugation in the guiding fields was 10 cm, which at a plasma velocity of 2·10⁷ cm/sec corresponded to a frequency of 2 Mc. The modulation amplitude was about 15%--sufficient to stabilize the instability leading to a spiraling of the plasma. This is demonstrated by a plasmascope adapted for pulsed operation. When the modulation amplitude reached 25% of the constant guiding field, some assymmetry of plasma boundary was observed. At higher plasma velocity, the corrugated field failed to stabilize the plasma and tongue-like protuberances were observed. Energy loss measurements show that some 20% of the energy remained in the plasmoid for long travel distance. This, the authors

Card 1/2

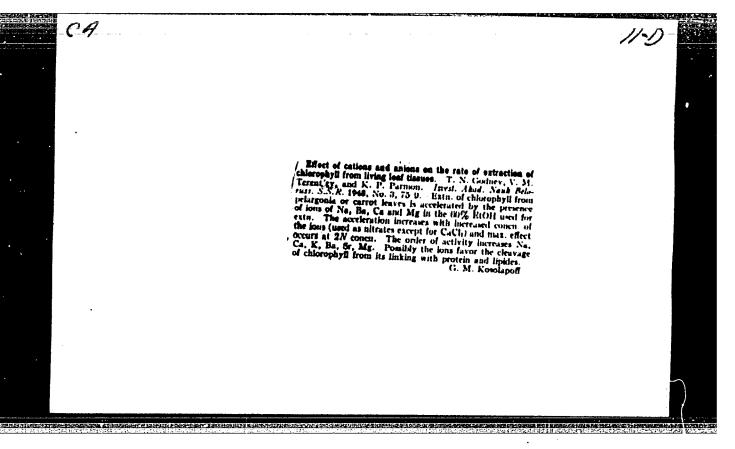
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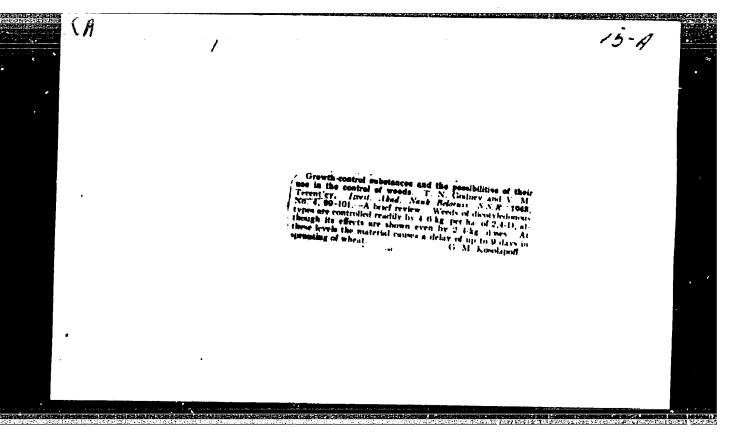
TERENT'IEV, V.L., inzhener; LORANOV, A.I.

High-speed cutting on multispindle lathes. Sel'khozmashina
no. 7:30-32 Jl '54.

(Turning) (Metal cutting)

(Turning) (Metal cutting)

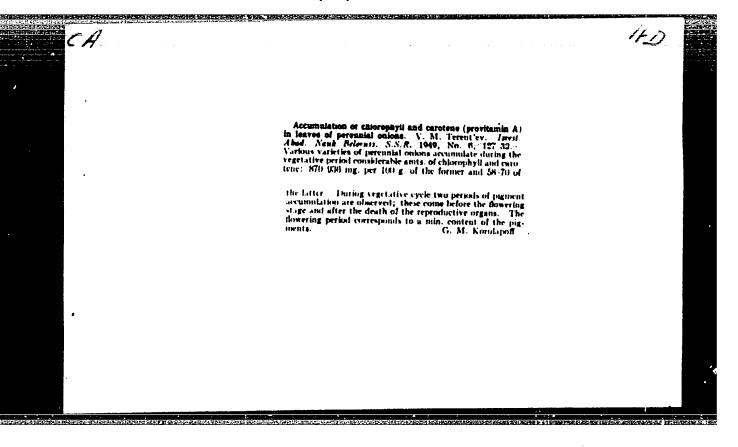




TERRITYET, 7.1.

Godney, T. M., <u>Terentivey</u>, <u>V. I</u>. and Parmon, M. P. "On the relative rates of diffusion of chlorophyll and the products of its rutual relation with weakly-dissociating acids of high molecular weight", Izvestiya Akad. neuk HUSR, 1949, No. 1, p. 93-66, - Bibliog: 6 items.

So: U-3261, 10 April (Letopis 'Zhurnal 'ny h Statey, No. 12, 1949).



GODNEY, T.N., professor; TERENT'YEY, V.M., kandidat biologicheskikh neuk.

Study of the effect of potassius and phosphate nutrition on the formation of structural tissues and on stalk firmness of cereals in connection with lodging. Sbor.nauch.trud.Inst.biol.AN ESSR no.1: 25-34 '50.

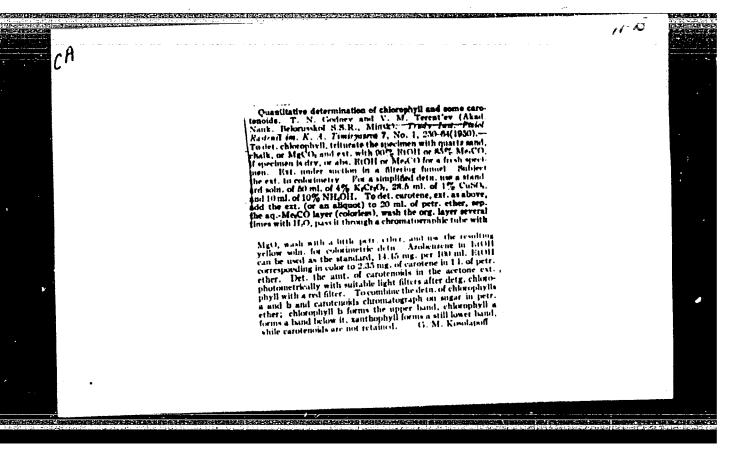
1.Deystvitel'nyy chlen AN ESSR (for Godney).

(Grain) (Plants--Mutrition)

GODNEY, T.N., profesor; TERENT'YEV, V.M., kandidat biologicheskikh nauk.

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- 1. GODNOV, T.N.; TERRITYY, V.E.
- 2. USSE (600)
- 4. Grain
- 7. The fight against lodging of cereal crops on peat soils, T.M. Godnev, V.M. Terent'ev, Priroda 42 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, ARIL 1953, Unclassified.

TERENTYEY, VM.	
	VThe amounts of cellulose and lights in the grain stalks in relation to the lying down of crops V M Ferences and
	A. N. Khrobestova Isree Ishal Mank Belorent S.J. R. 1935, No. 1, 103-60m Russian).—At full physiol, maturity the stalks of the normal and lain-down eats and barley contain dry substance 90.5-91.0 and 90.9-91.0, cellulose 30.5-50.9 and 23.5-47.5, and lignin 14.2-22.0 and 16.5-22.4% of the dry substance, resp. At milky physiol, maturity the relative chem. companied the stalks is the some but the abs. arms. of dry substance, cellulose, and lignin are slightly below the values found for the matured stalks cellulose is the main factor detg. the resistance of crops against lying-down.
	B. Wierbidel

USSR/Cultivated Plants. Cereals:

Μ

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77575.

Author : Torentlyov, V.M.; Stasenko, N.N.; Konovalov, L.N.

Inst : Institute of Diology AS DSSR.

Title : On Several Features of Growth and Development of

Grain Crops on Peat Soil.

Orig Pub: Tyul. In-ta biol. AN ESSR, vyp. 2, 1956 (1957),

94-99.

Abstract: Observations were conducted for the development

of plants of Kitchener wheat on peat and mineral soils. On the peat soil, tillering and shooting up was more intensive, but in the fruit-bearing organs, less dry substance accumulated than on the mineral soil, in connection with which the

Card : 1/2

USSR/Cultivated Plants. Cereals.

Abs Jour: Ref Zhur-Eiol., No 17, 1958, 77575.

seeds obtained were biologically less valuable.

Card: 2/2

I.

USSR/Plant Physiology - Water Regimen

: Ref Zhur - Biol., No 18, 1958, 32010 Abs Jour

: Stasenko, N.N., Terentyev, V.M. Author

: Institute of Biology, AS BSSR Inst

: The Influence of the Soil Moisture on the Water Regime Title

and on the Carbohydrous Exchange of Oat Plants

: Byul. In-ta biol. AN BSSR, vyp. 2, 1956 (1957), 100-106 Orig Pub

: The types of water (according to the A.V. Dumanskiy method Abstract

and the content of sugars (according to the Bertrand's method) were determined in the leaves of oats of the "Zolotoy dozhd'" (golden rain) variety. They were grown in vegetation vessels with peaty soil of the lowland ty-

pe with a moisture of 50 to 75% of full capacity. Greater content of free water and a lesser amount of bound water were discovered. At the same time smaller

Card 1/2

USSR/Plant Physiology - Water Regimen.

I.

Abs Jour : Ref Zhur - Biol., No 18, 1958, 82010

contents of separate forms of carbohydrates and a greater accumulation of dry substances were also discovered in the phase of tillering in the presence of smaller soil moisture. The total content of water was identical in both cases.

During the blossoming phase, the total water contents and the amount of free water descreased whereas the contents of bound water increased when soil moisture was lower in opposition to high moisture conditions. The formation, transportation and utilization of carbohydrates increased in intensity.

Bibliography, 15 titles. -- B.E. Kravtsova

Card 2/2

- 17 -

DSSR / Soil Science. Mineral Fortilizers.

J-4

Asset discovering a management of the first first transfer of the

Abs Jour: Ref Chur-Biol., No 3, 1958, 34422.

Abstract: of Bolorussia - an increase in yield of grain on the average by 36 - 108% and that of straw by 18-63%; the absolute weight of grain was also increased. Pre-sowing soaking of soads in the solution of CuSO₄, strengthened the growth, development and nower of shrubbing in oats, and increased the yield of grain by 33-52%, and straw by 65-74%, and also the resistance of it in respect to breaking down. I and B had still stronger effect on the sturdiness of the stems of oats. The work was carried out in the Institute of Biology of Academy of Sciences of BSSR. -- A. P. Sheherbakov.

Card 2/2

41

TAMPINE UNIVERSE	t BESR. * OUTNIATED PLANTS, Grains, Leguminous Grains,
135. 7000.	: 528101., No. 1 1900, No. 1575
AJENOR	: Godney, T.N.; Terent'yev, V.M.
ICT.	: AS USSR
r irlai	The Effect of Water Table Lovels and Moistura in Peat Soil on Cereal Grain Growth and Resistance to Lodging.
02TG. PU3.	1 V ab.: Biol. canovy oposhayers. zemledel., M., AS SSSR, 1957, 624-632
FDaging Ca	The influence of water table level and soil moisture on the development, growth, light and cellulose content and yield of wheat. oats and barley was studied at Kossovskara Experimental Bog Station in Brestskaya Other while testing optimum water and air for these cereals on bog soils. A comparison was made between sluiced and unsluiced plots where the run-off grains were placed 40, 20 and 10 m apart. The sluiced plot distin-
CARD:	1/3
	19

Country CATEGORY CULTIVATED PLANTS. ABB. JCUP. : PZBiol., Fo. 1 1959, No. 1975 AUPEOR THEY. TIME CRIG. PUB. 1 133TFACT t grished itself from the non-sluided by highs. ground water level and soil moisture. Only cats reacted favorably i yield to the higher water table; lower moisture conditions awwed! more beneficial to barley; wheat took an intermediate position. Notable effects on the formation of the mechanical tissues or the stalks were not produced by variations in the soil meisture conditions. The root mystems of the coreals developed for the :GRAD 2/3

Some specific features of the growth and development of cereal plants on peat soils. Biul. Inst. biol. AN BSSR no.2:94-99 '57. (MIRA 12:2) (Grain) (Peat soils)

TEUNIT'IRV, V.M.; STASHNKO, N.N.

***Riffect of soil moisture on the water cycle and carbohydrate metabolism of the oat plant. Biul. Inst. biol. AN BSSR no.2:100-106 '57.

(Soil moisture) (Peat soils) (Oats) (MIRA 11:2)

TERENT'YEV, V.E., Doc Bio Sci-(dies) "Basic problems of the physiclegy of cereal plant in peat soil." Minsk, 1958. 46 pp (Inst of Biology Acad Sci BSSR), 150 copies. List of author's work at end of text (15 titles) (EL, 30-58, 124)

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WASHTAKOV, S.M., prof., doktor biolog.nauk, otv.red.; GODNEV, T.N., akademik, red.; TERENT YEV. V. H. kand.biolog.nauk, red.; SHLYK, A.A., kand. khimicheskikh nauk, red.; BULAT, O., red.izd-ve; TIKHANOVICH, K., tekhred.

> [Biochemistry and physiology of plants; collection of scientific works] Biokhimiia i fiziologiia rastenii; sbornik nauchnykh rabot. Minsk, Izd-vo Akad. nauk BSSR, 1958. 295 p. (MIRA 12:1)

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(Botany--Physiology) (Biochemistry)

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(ROOTS (BOTANY)) (GRASSES)

(MIRA 13:7)