Category: USSR / Physical Chemistry - Crystals

n_

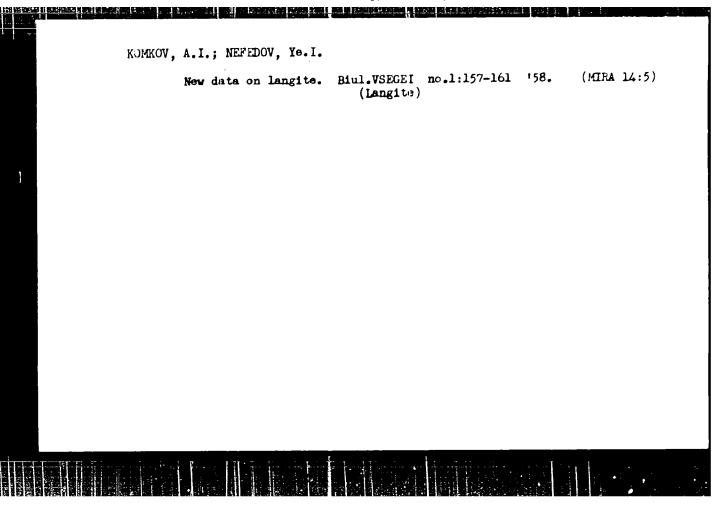
Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29661

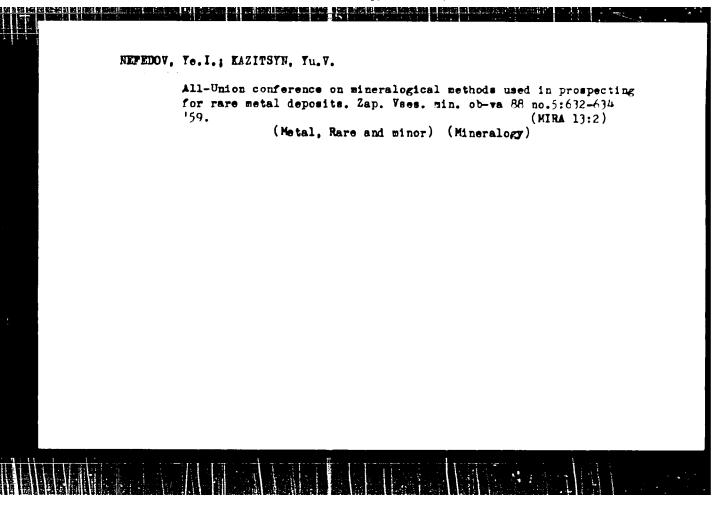
b 10.%, c 5.24 kX; beta 9.00%. It has a rhombic lattice with a 5.13, b 14.70, c 5.72 kX, which is in good agreement with goniometric measurement data. On calcining up to 1000% optical properties and structure of anisotropic I undergo no changes; im metamical variants this brings about a restoration of the original systalline structure.

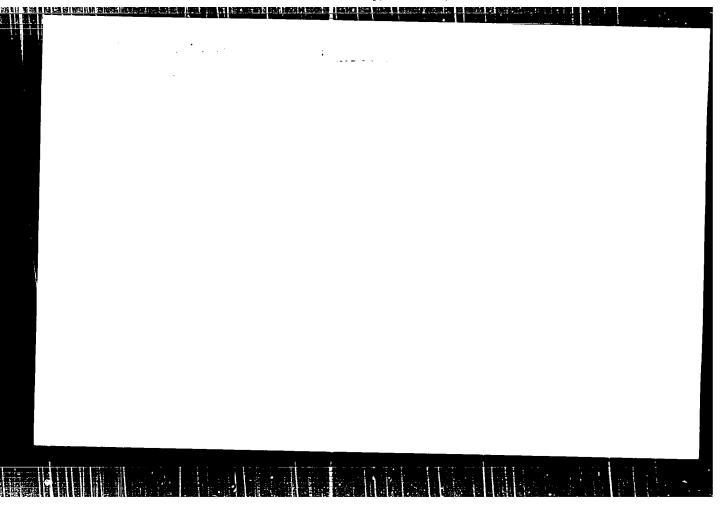
Card : 2/2

医

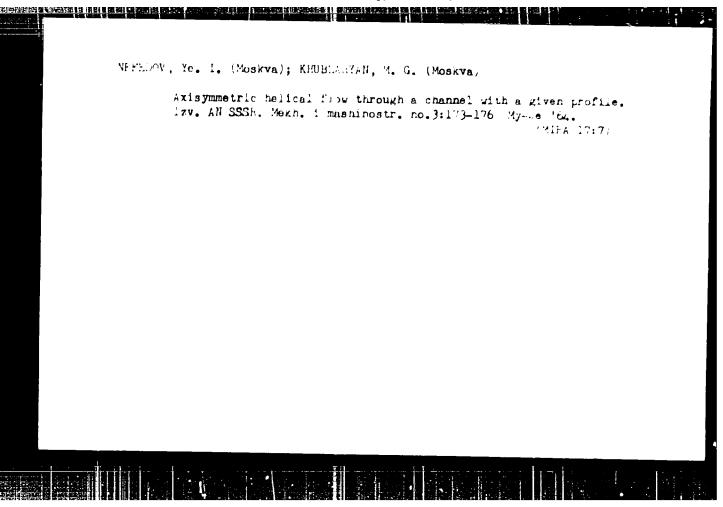
-12-







Advertice types factors of the compression of the c



L 20960-66 EWT(1)/EWA(h)
ACCESSION NR: AP5013341

UR/0109/65/010/005/0879/0889 621.372.822

AUTHOR: Nefedov, Ye. J.

TITLE: Dielectric prism in the bend of a flat wide waveguide 25

SOURCE: Radiotekhnika i elektronika, v. 10, no. 5, 1965, 879-889

TOPIC TAGS: flat waveguide, waveguide bend, dielectric prism, bending prism

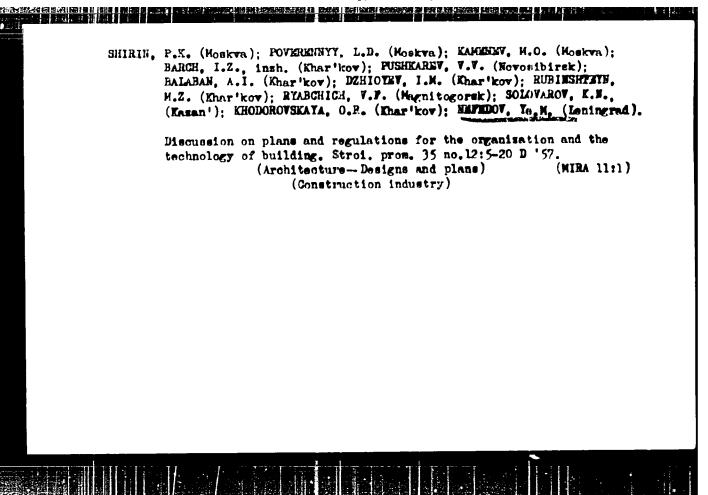
ABSTRACT: A dielectric prism inserted in an easy bend of a wide waveguide compensates the spurious modes caused by one of the waveguide natural modes, when the prism size considerably exceeds the wavelength (at millimeter waves). The problem of falling a natural mode on the prism is solved by the method of longitudinal sections, and the solution is obtained in the form of a small-parameter-m power series, where $m = (1/a)^2 \ll 1$; "I" and "a" are the half-width of the prism base and the waveguide width, respectively. The method permits estimating the variation of amplitude of the mode that passed the prism

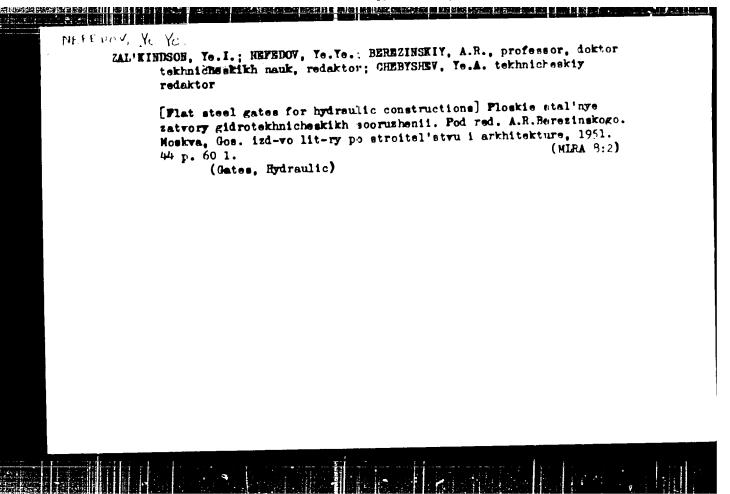
Cord 1/2

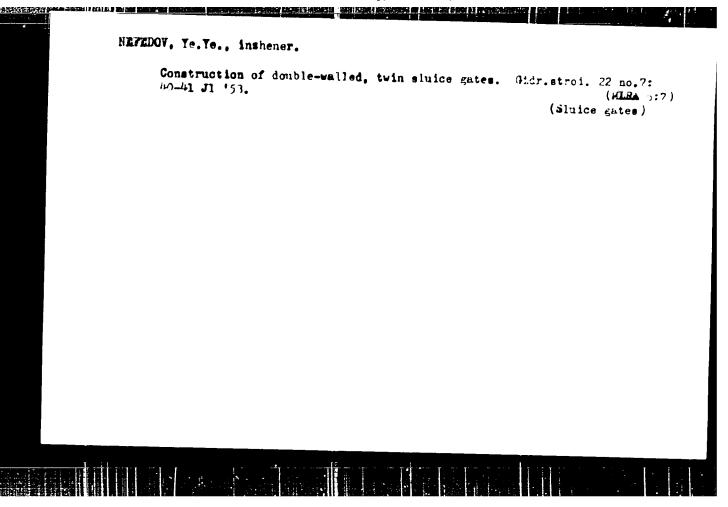
APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

т 50360-06		
ACCESSION NR: AP501334	1	
even in the zeroth order of	m: however, the method	d is inapplicable for high
incident modes. "The authorisement interest and great	or wishes to thank B. Z	. Katsenelembaum for his
Kostroy, and V. V. Malin f	or their attention and u	seful discussions." Orig.
has: 4 figures and 45 form	ulas.	
ASSOCIATION: Institut rad	iotekhniki i elektroniki	AN SSSR (Institute of Rad
Engineering and Electronic	, an sisr)	·
SUBMITTED: 15Apr64	ENCL: 00	SUB CODE: EC
NO REF SOV: 015	O'THER: 001	
NO REF SOV: 015	O'THER: 001	
NO REF SOV: 015	O'THER: 001	







ZAL'KINDSON, Yevgeniy Il'ich; HETTOOY, Yevgeniy Yevgeniymetch; GUROVICH,
I.Ta., red.; VORCEFFERATA, L.V., tekhn. red.; ZABRODIEA, A.A.,
tekhn. red.

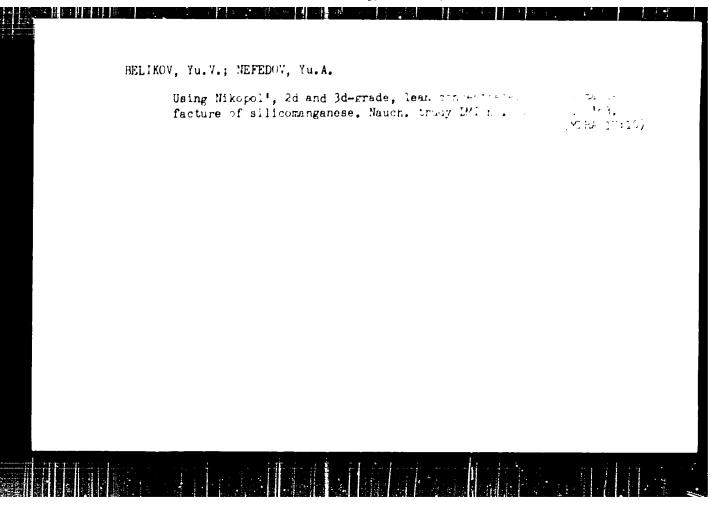
[Steel Taintor gates for hydraulic engineering construction]
Segmentarye stallarye satvory gidrotakhnicheekikh scorushenii.
Moskva, Gos. energ. isd-vo. 1958. 1659. ______ [Atlas of
designs] Atlas konstrukteii. 1958. 39 diagrams. (NIBA 11:9)

(Sluice gates)

```
KHITRIK, S.I.; VIASENKO, V.Yg.; GASIK, M.I.; YEM, A.P.; NEFEDOV, Yu.A.

Refining 75-per cent ferrosilicon from aluminum. Izv.vys.ucheb.
sav.; chern.met. 5 no.4:45-53 '62. (NIRA 15:5)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Ferrosilicon—Metallurgy) (Aluminum)
```



G INCHES OF THE RESIDENCE PROPERTY AS HELD IN MADE EPF(n)=2/EWP(k)/EWT(n)/ETC(n)=6/T/EWA(d)/EWP(w)/EWP(v)/EWP(t)<u>L 20785-66</u> SOURCE CODE: UR/0128/65/000/010/0027/0031 ACC NR. AP6005747 EM/JD/JG AUTHOR: Nekhendsi, Yu. A. (Doctor of technical sciences); Shpindler, S. S. (Engineer) 90 73 OEC: none TITLE: On the theory of the alloying and composition of heat-resistant steels for highly stressed cast turbine blades SOURCE: Liteymoye proisvodstvo, no. 10, 1965, 27-31 TOPIC TAGS: high alloy steel, turbine blade, metal casting, cooling, austenite, ferrite, high temperature strength ABSTRACT: Austenitic steals of the Fe-Cr-Ni system containing various amounts of Cr and Ni, e.g. 20/10, 15/15, 20/20, 15/35, etc., additionally treated with Ho, W, Nb, Ti, Al, and other alloy elements which dissolve in the austenite and form hardening phases (carbides, carbonitrides, intermetallides), are widely used in industry for the temperatures 600-750°C. In this connection, and fince the cooling rate of castings of Cr-Wi steel greatly affects their phase structure and particularly the formation

of ferrite, the author describes new structural diagrams specially developed for highalloy steels of the Fe-Cr-Ni system, as a function of the cooling rates of thin-walled castings of the gas-turbine-blade type, usually produced by the lost-wax process with pouring into ceremic molds heated to 800°C. In addition, formulas quantitatively re-

Cord 1/2

UDC: 669.14.018.44-14

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

L 20785-66

ACC NR. AF6005747

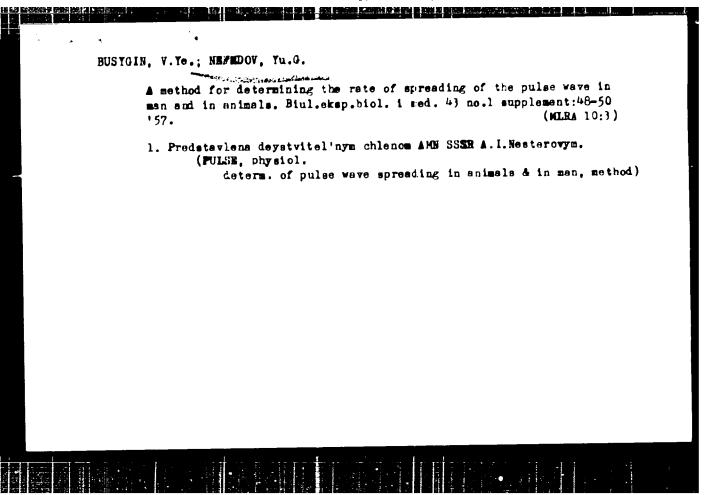
lating the chemical composition of the steel to the possible amount of ferrite in X are presented as substitutes for structural diagrams of this kind; by means of these formulas the phase composition of Gr-Mi steel can be determined as a function of the process of this valled castings in ceramic molds. The alloy elements No? W. Mb create in the y-solid solution a nonuniform and distorted electron distribution, thus considerably enhancing its high-temperature strength. A high Mi content is not always necessary to attain high values of stress-rupture strength and creep strength in steel. Given a specific content of Gr, Mi and C in a steel, a specific amount of ferrite-forming elements is required to obtain the limiting saturation of the y-solid solution under specific production conditions so as to maximize, in relation to a given temperature, the high-temperature strength of the products cast from this steel. These and other principles of the alloying theory expounded here have been experiment, ally confirmed and used to develop new heat-resistant foundry steels Th-1 and Th-2. For the casting of turbine blades and rotors with higher stress-rupture strength, more stable austenitic structure and greater economy (lower content of Mi and Mo). Orig. art. has: 8 figures, 3 tables.

SUB COSE: 11, 13, 20/ SUBM BATE: mone/ CRIG REF: 010/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136



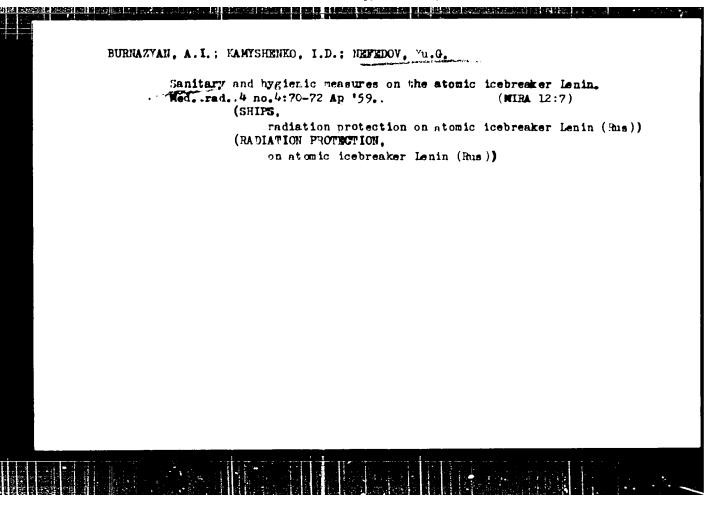
researchise release succession in the cash.

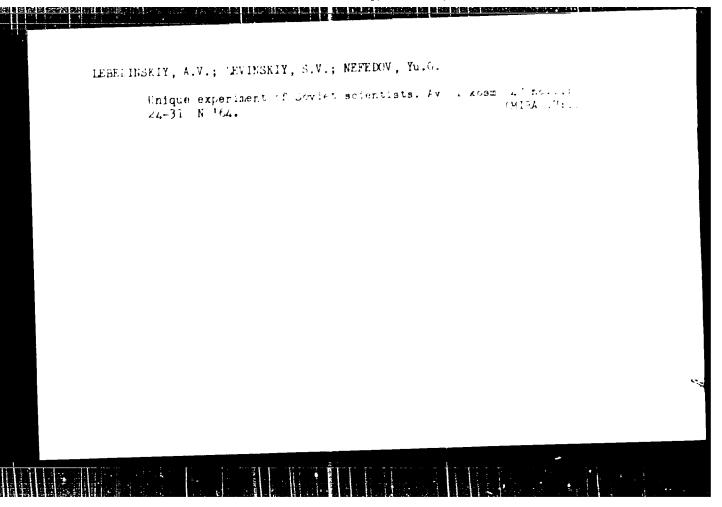
T-4 USSR / Human and Animal Physiology. Blood Circulation. : Ref Zhur - Miologiya, No 1, 1959, No. 3347 Abs Jour : Nefedoy, Yu. G. Author : Not given Inst : On an Experimental Method of Determining Circulating Title blood Volume : Byul. eksperim. biol., i med., 1957 No 1, prilozhenie, Orig Pub 50-52 : 1 ml of an indicator that contained 30 - 40 M Curio Zn65 Abstract was injected into the ear vein of a rabbit. Two minutes later, 0.5 - 1 ml of blood was taken from the vein of the other ear, a smear made on a glass slide of 4 cm²

the other ear, a smear made on a glass slide of 4 cm in surface, and its activity determined by means of a counter. The circulating blood volume was calculated from the formula

LUM the LOLMATO N "

Card 1/2





JIMAZED FENT(m) DIAAP	
ACCESSION DR: AP5005523	8/0205/65/005/001/0072/0076
AUTHOR: Lebedinskiy, A. V. (Dece R. I.; Derensksys, N. G.; Bibikov	sped); Heredov, Yu. G.; Doubhlak, M. P.; Ryzhov, i., A. F.; Outshina, A. H.; Lebedev, B, I.
TITE: Tie biological effects of	fractional irradiation by 10-Mev protons on dogs
SOUNCE: Hadiobiologiya, v. 5, no	1, 1965, 72-76
Months Might energy proton,	biological effect, dog
larger animals. It is theorized of protons on larger animals would test this theory, the authors investigated according to conditions of times over a period of 40 days will include a times over a period time doses in the first group ray [1 to 109 f. The experiments were	sublished on the effect of high-energy protons on by the authors that the biological effectiveness ld be more prenounced than on small animals. To restigated 12 dogs divided into two groups (6 dogs irradiation; the first group was irradiated 19 ith a total dose of 650 r. The second group was of 15 days with a total dose of 690 r. The radianged from 10 to 79 r and in the second group from re conducted at the Joint Institute of Nuclear Remon. The unit was arranged so that a 510-Mev in fiameter at 1 rad/sec. It was found that both
Cord 1/2	
	2000年2月2日

3 (342-63)			
CISSION NR: AP5005523	and and aventions	of severe radiation sickness, clinical data on the effects	•
pical of this type in the period of this type in the protons generally of one exhibited some symptoms more pronounced, and, who is more pronounced, in the period of the p	had the same effects. However, the construction to this radiate on death took place, there ipheral blood and generally	ion; the hemorrhagic syndroms was a relatively higher lower bons-marrow blood	e
origition in the form of a lautic system. An examinat	ion of the structures of the		
initic system. An examinat even led damage to neural an irrulation. Orig. art. has	ion of the structures of the	ruption of blood and fluid [CD]	
origition in the form of a lautic system. An examinat	ion of the structures of the d glial structures and disr. 5 Higures.	sub CODE: 18	
initic system. An examinat evenied damage to neural an irrulation. Orig. art. has	ion of the structures of the definition of the structures and disres.	ruption of blood and fluid [CD]	
initic system: An examinat evented damage to neural an irrulation. Orig. art. has SECCIATION: none	ion of the structures of the d glial structures and disr. 5 Higures.	sub CODE: 18	
initic system: An examinat evented damage to neural an irrulation. Orig. art. has SECCIATION: none	ion of the structures of the d glial structures and disr. 5 Higures.	sub CODE: 18	

NEFEDON YUG

PHASE I BOOK EXPLOITATION

SOV / 5294

Akademiya nauk SSSR. Institut biologicheskoy fiziki

Issledovaniye rannikh reaktsiy organizma na radiatsionnoye vozdaystvije (Study of Early Reactions of the Organism to Radiation Effects) Moscow, Izd-vo AN SSSR, 1960. 220 p. Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut biologicheskoy fiziki.

Resp. Ed.: G.M. Frank, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: B.V. Garian; Tech. Eds.: V. Volkova and Ye.V. Makuni.

PURPOSE: This book is intended for radiobiologists.

COVERAGE: This is a collection of nine articles by different authors on the effects of radiation on life processes. The following are discussed: the relationship between reflector mechanisms and disturbances in hemodynamics; the marked diminution or total absence of hemodynamic reactions under soft irradiation upon preliminary treatment of the skin with novocain; reflector-induced changes in the central nervous system and the almost instantaneous advent of fine physicochemical reactions following irradiation; changes in the stability of the

Card 1/3

erythrocyte level during the first several hours after irradiation; blood changes after irradiation, occurring earlier than believed heretofore by the tists; and new and important data on tissue breathing and disturbances in physicochemical properties of erythrocytes. N.W. Livshits, Doctor of Bio Sciences, is mentioned. Each article is accompanied by references.		
ABLE OF CONTENTS:	3	
reface [A. Lebedinskiy]		
rank, G.M. Introduction. Radiation as a Disruptor of Roontrols of Life Processes	egulative 5	
efedow, Yu.G. Disturbances in Blood Dynamics in Acute	Radiation Injuries 14	
Colivoda, A.I. Changes in the Elasticity and Hysteresis arteries Due to a Total X-Ray Exposure	of Elastic-Type	
eard 2/3		

Study of Early Reactions (Cont.) SOV/5294	
Veyze, L.G., and G.M. Frank. Changes in Blood Dynamics and Changes in t Mechanical Properties of Blood Vessels in Total and Local Irradiation	th e 60
Gamburtsev, A.G. Changes in the Physicochemical Properties of Erythrocytes Under the Effect of Radiation	83
Blokhina, V.D. Albumin Fractions in the Blood Plasma of Animals Exposed to Different Doses of X-Rays	d 93
Vysochina, I.V. Effect of X-Ray Irradiation on the Gas Balance of the Blood	113
Sneznko, A.D. On Changes in the Oxygen Content of Brain Tissues Under the Effect of Radiation	125
Aladzhalova, N.A. Characteristics of Physicochemical Changes in the Central Nervous System for Different Periods of Exposure to Radiation	167
AVAITABLE. Ithweet of Congress	/A/rn/gmp 7-29-61
Card 3/3	1-23-01

21889 \$/177/61/050/002/012/105 D234/D305

170000

AUTHORS: Bogatkov, P.I., Candidate of Chemical Sciences,

Nefedov, Yu.G., Candidate of Medical Sciences, and

Poletayev, M.I.

ompression and something the contract of the c

TITLE: Expired air as a source of carbon monexide intemina-

tion of air in hermetically sealed rooms

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 2, 1961, 37 - 39

TEXT: Carbon monoxide in the expired air of a healthy man is formed endogenously. Shostrand Abstractor's note: No reference given/measured 0.0021 - 0.0024 % and noted a marked rise in diseases darsing an oxygen deficit, after hard physical work and the inspiration of 6 - 7 % CO₂ or oxygen deficient air. Kon-Atre Abstration's note: No reference given/added asphyxias and several other paintingical processes. The blood level of carboxyhaemoglobin may reach 4 % as a result of endogenous formation. The mechanism of formation is not yet established. In vitro, experiments with animal their show that carbon monoxide is formed at 38°, the content increasing Card 1/4

21889

S/177/61/000/102/012/015 D234/D305

Expired air as a source of ...

by 83 % in 20 hours. During haemolysis the carbon monoxide content doubles (Shostrand 1951). It increases in the conversion of them. globin to cholehaemoglobin under the influence of ascorbic acid (1952). Analogous results were obtained in in-vitro work on the combined exidation of myoglobin and ascorbic acid. Myoglobin is converted to bile pigments, giving off carbon monoxide. Endogenous CO is excreted by the reversible dissociation of COHb: CO + $\ddot{\text{H}}\text{b}$ \rightleftharpoons COHb. While studying the air composition in a hermetically sealed room a gradual rise of carbon monoxide concentration was noted. There were no technical sources to cause this, yet by the end of the experiment the concentration was close to the industrially permitted limit. Therefore, the possibility of the rise teing raised by the pulmonary and, perhaps, skin respiration of the jette in the room was investigated. Three subjects were in a .4 m / ermetic chamber doing normal physical and mental work. The temporative in the first experiment was maintained at 80 - 100, in ite at 28° - 30°, relative vapor density 45 - 50 %. A special is aratis was used 'replenish oxygen and remove carbon dickide, a.. wing

Cari 2/4

1089

\$/177/61/00 /002/002/705 D234/D305

Expired air as a source of ...

the air composition in the chamber to be maintained as '3 - 24 % oxygen, 0.2 - 0.8 carbon dioxide. Possible experimental sources of carbon monoxide formation e.g., burning organic material, smcking etc., were excluded as was formation by the replenishing apparatus. Air analysis for CO was made twice per 24 hours using apparatus, type LKB 3267A1. The specificity of the method was checked on onemical components of the chamber air - carbon dioxide, ammonia, methylamines and aldehydes, and found to be reliable. Air analysis: the subject made two full expirations through a gas pipette, volume 250 m3; two successive trials were chosen; air from the lipette passed through the indicator tube and the carbon monoxide content was determined by comparing the color intensity of the reacting sitstance with the standard scale. Data for smokers and non-smokers are given in tabulated form. The expired air of non-smokers ogntains on average 0.016 mg/l of carbon monoxide of smokers 0.038 mg/s1. The results for non-smokers are approximately 20 % below Shostrand's due to the different methods of carbon monoxide determination. Carbon monoxide concentration went on rising as long as Card 3/4

<u>an ar tra bioche, an c'en litter com en company de l'est an activit en l'est en l'établiche de sédents de la c</u>

21889

Expired air as a source of ...

\$/177/61/000/002/002/005 D234/D305

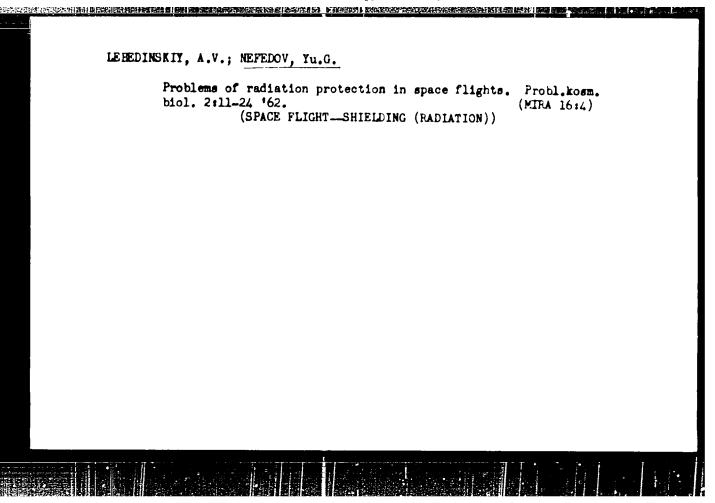
the experiment continued reaching 0.023 + 0.027 mg/l after nine to ten days. Temperature had no effect on the rate of increase or a concentration. It is not yet possible fully to evaluate the significance of this carbon monoxide formation from a sanitary and nyegienic point of view, but such high concentrations of carbon managed may be reckoned disadvantageous especially if people have to be in such hermetically sealed chambers continuously ard for a long time. There are 1 table and 1 figure.

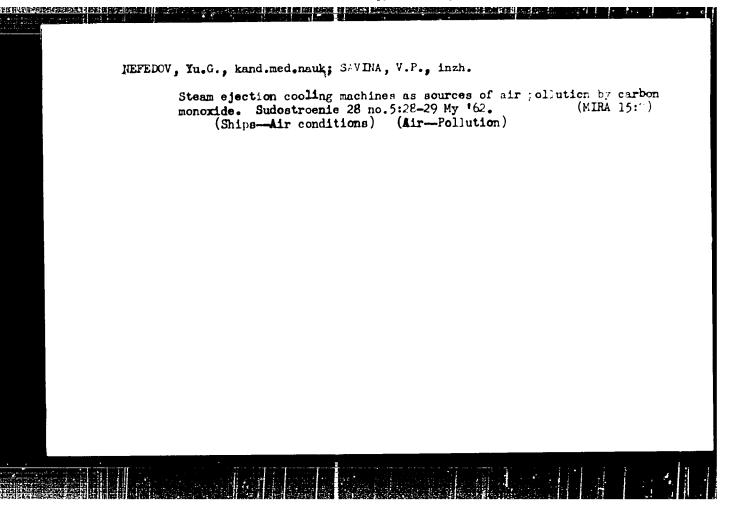
SUBMITTED: December 1959

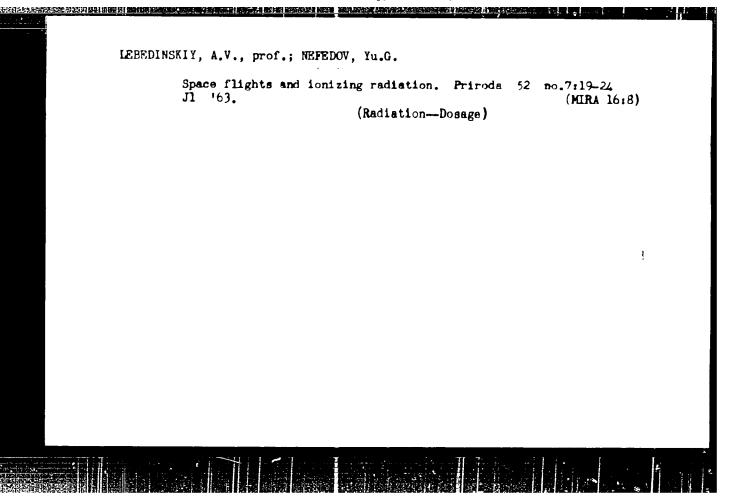
Cart 4/4

BURNAZYAN, A.I., kand.med.nauk; GORODINSKIY, S.M., kand.med.nauk; hamyshenko, I.D.: "FFFDOV, Yu.O., kand.med.nauk; PRAVETSKIY, V.N.

Froviding radiation protection on the atomic icebreaker "Lenin." Sudostroenie 27 no.p.: '-14 Ag '-1. (MIRA 14:9) (Lenin (Atomic ship)) (Radiation protection)







LEBEDINSKIY, A. V.; LEVINSKIY, S. V.; NEFEDOV, Yu. G.

"The general principles in reaction of the organism on the complex environmental factors acting in the cabins of cosmic vehicles."

report submitted for 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

NEFEDOV, Yu.G., red.; GORYACHEVA, N.A., red.

[Problems of the radiation safety of space flights; physical and biological studies with high-energy protons; Problemy radiatsionnoi bezopasnosti kosmicheskikh poletov; fizicheskie i biologicheskie issledovania s protonami bol'shikh energii. Moskva, Atomizdat, 1964. 237 p.

(MIRA 17:12)

L 20727-65 EEO-2/FSF(h)/FSS-2/EWG(r)/EWT(l)/FS(v)-3/EEC(k)-2/EWG(v)/EWA(d)/ EWG(a)/EWG(c)/EWG(j) Pb-4/Po-4/Pe-5/Pq-4/Pac-4/Pae-2/P1-4 BSD/AMD(a)-5/AFWL/ AMD/AFETR/AFTG(k) TT/DD/GW

ACCESSION NR: AP4049501

5/0209/64/000/011/0024/0031

AUTHOR: Lebedinskly, A. V.; Levinskly, S. V.; Nefedov, Yu. G.

TITLE: In anticipation of new space flights; a unique experiment of Soviet scientists

SOURCE: Aviatsiya i kosmonavtika, no. 11, 1964, 24-31

TOPIC TAGS: prolonged isolation, cosmonaut training, ionizing radiation, temperature, noise level, carbon dioxide concentration, adaptation

ABSTRACT: This article deals with the problem of studying the reaction of the human organism to a prolonged stay in an hermetically-sealed chamber. Results will make possible the setting up of further experiments using different environments. These experiments, which varied from 10 to 120 24-hour periods in length, studied the effects of this isolation on the vital functions of 10 human beings. Other conditions, including small doses of ionizing radiation and periodic increases in temperature and noise-level, were simulated. Not only did the varying environments influence the human subjects, but the human organism was found to influence the environment. A considerable increase in the number of bacteria in the air of the chamber and on the skin of the subjects was noted. There was also a marked increase in carbonyl hemoglobin in the blood, and CO₂ in the air of the

L 20727-65

ACCESSION HR: AP4049501

chamber, the latter varying from 10 to 20 times the normal atmospheric content. This caused subjects to experience difficulty in breathing and to demonstrate symptoms of auto-intoxication. During the initial 10 or 15 24-hour periods, major adjustments to the new environment were made. Systole decreased and reaction time delay increased, light sensitivity was lowered and the error factor went up. Nevertheless, adjustment was eventually made, light sensitivity returned, and the number of errors decreased. Fatigue remained constant and heart action was found to be at a sub-normal level. The article also deals with irritability, nervousness, and other non-physical reactions. The influence of the individual on the environment is stressed, with such influences differing from individual to individual. Orig. art. has: 4 graphs.

ASSOCIATION: none

SUBMITTED: 00

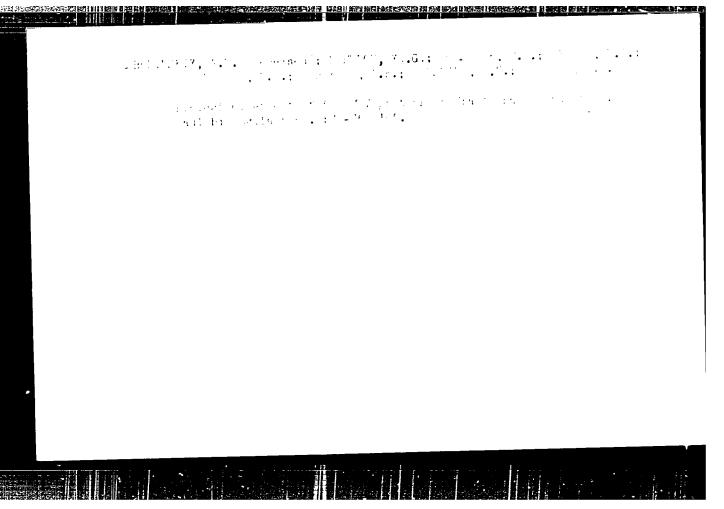
ENCL: (10

SUB CODE: PH

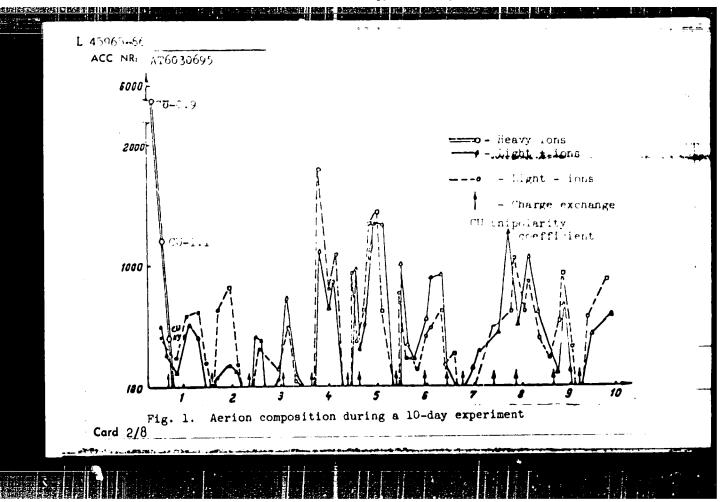
NO REF SOV: 000

OTHER: 000

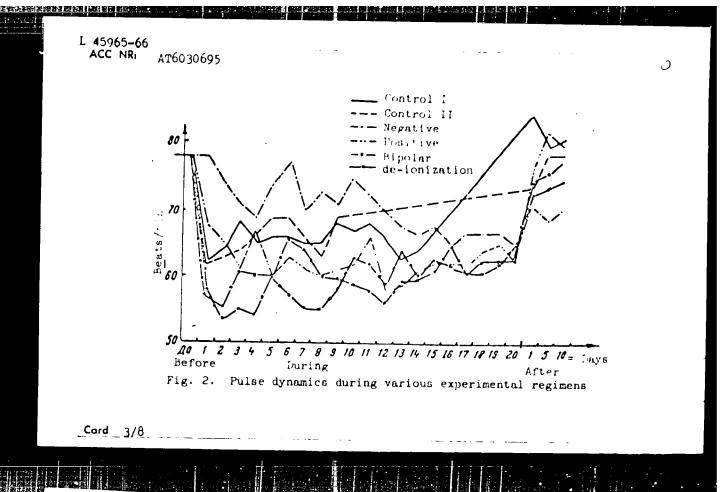
Card 2/2

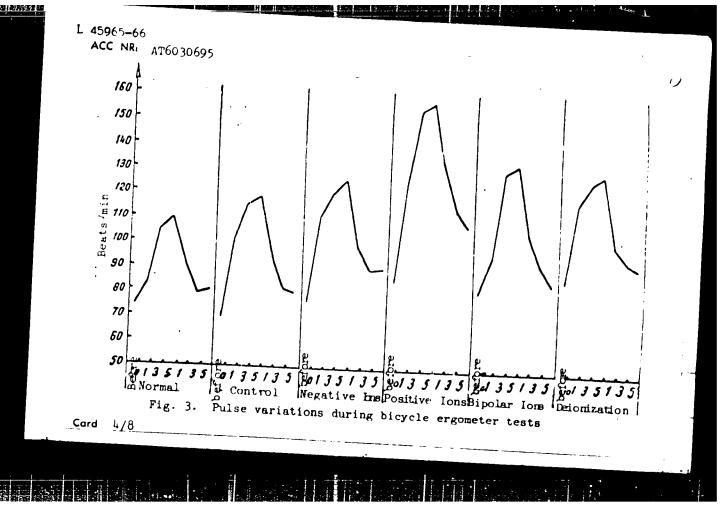


AUTHOR: Nefedov Zhuravlev, V. V. Levinshiy, S. V.	.; Iseyev, L. R.; Komaro	V.; Veselova, A. A.; Zaloguyev, S. E.; v, N. N.; Kartsev, A. N.; Ivanenko. G.	T.;
ORG: none TITLE: The aero the human organi	oion composition of the dism	air of nermetic chambers and its influe.	the or
SOUPCE: Konfere Moscow, Inst. me	entsiya po kosmicheskoy l ediko-biol.problem, 1966	biologii i meditsine, 1964. Materialy.	
TOPIC TAGS: aer	coionization, numan phys:	iology, life support system, space jays	ស្រុក ្
minor consequence functional conditional conditional condition of 20 days duratinated). The first and physiological 50—2000 pairs of exposure to positional constraints of the constrain	te, chronic exposure to the tion of the organism. The density of all data. The density of ions/cm ³ . The second, tive, negative, and biposets.	s have indicated that while aerolous are them can lead to substantial changes in To further study this factor, five expensional evaluateers from a laboratory inconstruct purposes to obtain hygienti, chandons in this experiment ranged from third, and fourth experiments entailed plan ions generated by "Suteynbox" radiositatory zone was To -900 the sand long	the riment
Card 1/8			

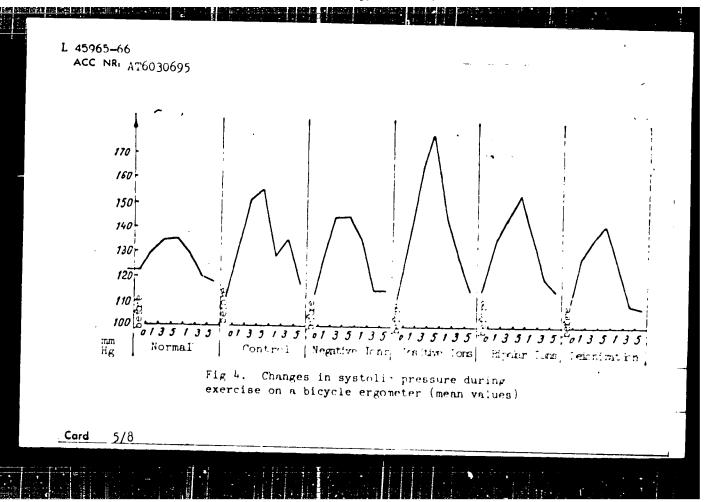


APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

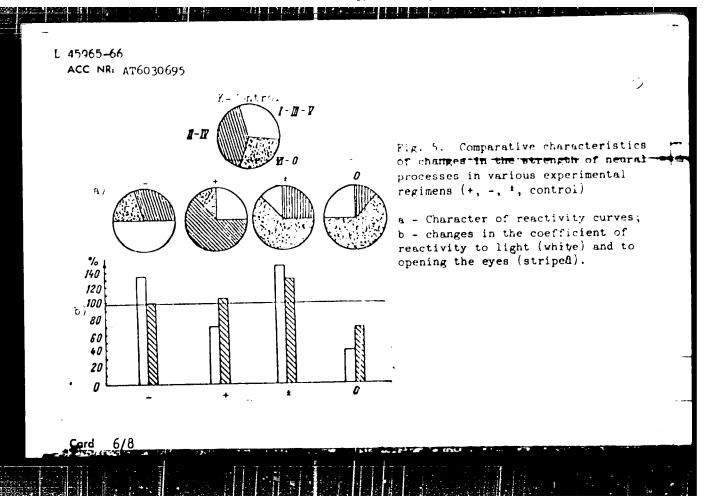




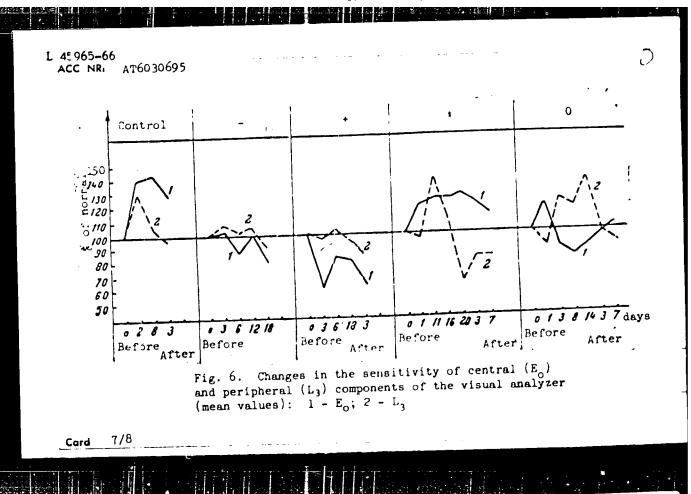
APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

artier emistre in the manager

L 45965-66 ACC NR: AT6030695 0

during experimentation. Allowing that the natural exposure dose for the lungs is 12.87 mrem/week (Sivintsev, 1960), it was calculated that 1 g of lung receives $0.33\cdot 10^{10}$ pairs of ions per day. If, in the respiratory medium, there were 500 pairs of light ions/cm3 and 5000 pairs of heavy ions/cm3, then 0.7·1010 light and 7.1010 heavy pairs of ions would reach the lungs of a man during a day. In these experiments, the average subject received approximately 1011 pairs of light ions per day. In the fifth experiment, the chamber was de-ionized using a system of filters and special ion traps. However, complete de-ionization could not be achieved and the density was 50-60 pairs of ions/cm3. Some results of these The results of the experiment generally showed experiments are shown in Figs. 1-6. Increased muscular working capacity, external respiration, and an increased level of gas exchange during exercise in the experiment with negative aeroionization. Partia, normalization of some indices occurred during the respiration of negative aeroions. However, for a number of indices, a normalizing effect was also noted in response to the respiration of positive and bipolar ions. Nonetheless, the general trend of the majority of shifts noted during experimentation lends credence to the proposition that prolonged exposure to positive ions or a de-ionized air leads to some changes deleterious to human health. It is possible that an effective approach to this problem would be to combine negative ions with positive or bipolar ions. The establishment of optimum aeroion regimens requires additional research. Orig. art. [CD] has: 7 figures.

SUB CODE: 06/ SUBM DATE: 14Apr66/ ORIG REF: 011/ ATD PRESS: 5086

Card 8/8 hs

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

EWT (m) L 04625-67 SOURCE CODE: UR/0000/66/000/000/0235/0241 ACC NR: AT6029632 AUTHOR: Darenskaya, N. G.; Derbeneva, N. I.; Nefedov, Yu. G.; Ryzhov, N. I.; Seraya, V. N.; Domshlak, M. P. (Professor) ORG: none TITLE: The RBE of high-energy protons BOURCE: Voprosy obshchey radiobiclogii (Problems of general radiobiology). Moscow, Atomizdat, 1966, 235-241 TOPIC TAGS: proton, radiation biologic effect, dog, rat, mouse, relative biologic efficiency ABSTRACT: The RBE of 510-, 240-, and 126-Mev protons was studied in comparative experiments with dogs, rats, and mice. A proton flux generated by the OIYaI synchrocyclotron at Dubna was used. Polyethylene and lead absorbers were used to decrease proton energies from 660 Mev, at the same time increasing the beam diameter to enable irradiation of large animals. The dose rate varied from 0.3-1.5 rad/sec. Rats and mice were irradiated in a rotating chamber and dogs were irradiated from two sides in order to equalize the dose distribution. RBE values were determined during both single and multiple irradiation: during multiple irradiation dogs were exposed 8-19 times in the course of 2-5 weeks for total doses of 200-690 rad, and rats were exposed 20 times in the course of 4 weeks for total doses of 750 and 1115 rad. Single

L 04625-67

ACC NR: AT6029632

proton doses amounted to 136-550 rad for dogs and 100-1200 rad for rats and mice. It was observed that irradiation of dogs with small doses of protons altered their immunological reactivity, as indicated by the depressed phagocytic activity of neutrophils in the first days after irradiation. In proton-irradiated dogs a decrease in oxidative processes was also noted: CO2 liberation and oxygen consumption dropped 35-50% shortly after irradiation and remained depressed until the animal died or until most radiation sickness symptoms disappeared. Experimental results showed the same periods of appearance of various symptoms of radiation sickness (such as increased temperature, diarrhea, changes in peripheral blood, etc.) for proton- and gamma-irradiated dogs (except that dogs irradiated once with 510-Mev protons developed symptoms somewhat earlier). RBE values for protons in the energy range indicated were based on comparison of percentage survival, duration of life of surviving animals, severity of individual symptoms and results of laboratory tests. It was concluded that the RBE for dogs during multiple irradiation with 510- and 126-Mev protons is 1.0. For single irradiation, the RBE is 1.15 for 510- and 240-Mev protons, and 1 for 126-Mev protons. It should be noted that these RBE determinations are made on the basis of direct radiation effects, and may have to be altered for longterm radiation effects. Analogous experiments were conducted with white rats weighing 180-220 g and mice weighing 18-22 g. It was found that the RBE of 510-, and 240-, and 126-Mev protons for rats was 0.75, 0.73 and 0.69, respectively, based on the $LD_{50/30}$. The RBE based on the $LD_{100/30}$ was 0.75 for 510-Mev protons, and 0.79 for 240- and 126-Mev protons. For mice the RBE value for 126-Mev protons was set

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

ACC NR: AT6029632 at 0.7. The diffe	rence in RBE values obtained	i for small and large	e animals is
study of the space 2 tables.	indicates the danger of extraplication hazard to r	man. Orig. art. has	: 2 figures and [JS
SUB CODE: 06/ SUB	DATE: 23Apr66/ ORIG REF: 0	006/ OTH REF: 006/ A	TD PRESS: 5063
Card 3/3			

ACC NR. AT6036658

SOURCE CODE: UR/0000/66/000/000/0287/0287

AUTHOR: Nefedov, Yu. G.; Zeloguyev, S. N.; Shilov, V. M.; Borshchenko, V. V.

ORG: none

TITLE: Problem of designing a habitable spacecraft cabin environment [Paper present at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966] [Paper presented

SCURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow 1966, 287

TOPIC TAGS: automicroflora, closed ecological system, life support system, space cabin habitability, space hygiene, immunology

ABSTRACT:

Prolonged spaceflights require that man remain in a closed enviroment with an altered medium under the influence of a series of unfavorable spaceflight factors. In sealed-chamber experiments with human subjects during which certain spaceflight factors were simulated along with various work and rest schedules, in addition to physiological, psychological, and clinical observations, special attention was given to the study of the microfiora of the medium, and the automicroflora and immunological reactivity of the human organism.

Card1/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

40. 1 May 11. 1736658

Experiments with humans in sealed chambers have indicated that as experiments increase in duration, there is an increase in general bacteriological contamination of the surrounding medium in the chamber and that the number of pathogenic microorganisms increases significantly.

Studies of the processes of interchange of microorganisms between humans are of particular interest. Results of preliminary investigations based on phagocytic and serum studies have indicated an exchange of microorganisms between humans under these conditions.

Along with bacterial contamination of the environment, definite shifts in the immunological reactivity of the organism were noted. These shifts are characterized by disruption of the bactericidal function of the skin surfaces, depression of the phagocytic activity of leukocytes, and a reduction in the lysozyme content of the saliva.

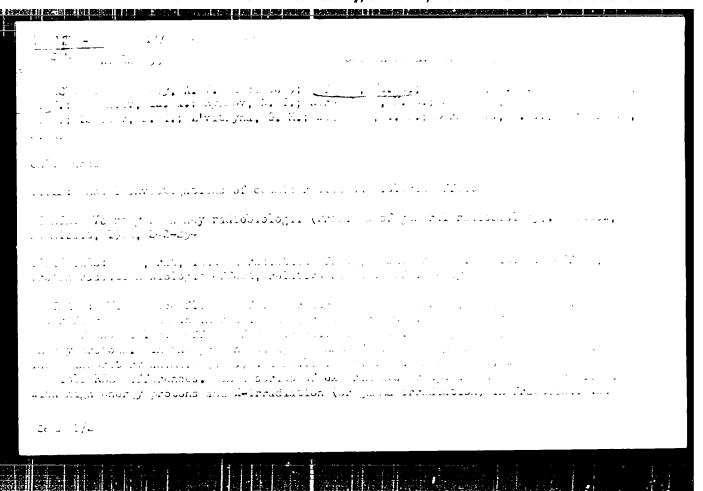
The observed changes call attention to the need for finding methods of preventing the occurrence of infectious and autoinfectious diseases, which can arise as a result of the depression of immunological reactivity of the organism, changes in environmental microflora, and disruption of

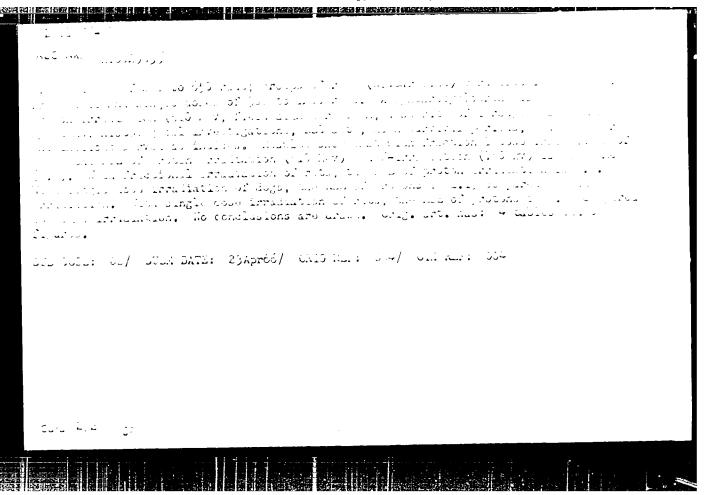
Card 2/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

The problem of biological o individual differences of sp	compatibility of microflora in relation ace crew members deserves consideration.	
W. A. No. 22; ATD Report 66-1		
SUB CODE: 06,22 / SUBM DATE:	00Hay66	
	·	
	•	
		•••
•		
v .		
<u>,</u>		
Card 3/3		





ACC NR: AT 6036473

SOURCE CODE: UR/0000/66/000/000/0020/CO21

AUTHOR: Aleksandryuk, S. P.; Anisimov, B. V.; Komarov, N. H.; Nefedox, Yu. Potapov, A. N.; Sorova, L. V.; Tikhonova, G. P.

ORG: none

TITLE: Air ionization as a spaceflight factor [Paper presented at the Conference on Problems of Space Midicine 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, 20-21

TOPIC TAGS: aeroionization, closed ecological system, life support system, human physiology, aeroion biologic effect, cosmic radiation biologic effect

ABS TRACT:

The physical and enemical properties of space cabin atmospheres may be changed by cosmic radiation, which produces ions and dissociated molecules with high (10 to 15 ev) potential energies. The latter have considerable chemical activity. A study was therefore made of the ionization of space cabin air. Radiation equivalent in intensity to average galactic radiation (0.3 ber) produces an atmospheric ion concentration of 105 mol/cm3, which is easily reproduced under laboratory conditions.

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

ACC NR: AT 6036473

Data from the literature and our own experiments show that air ionization is an active factor causing definite changes in the state of the organism, particularly during stress or injury. Twenty-day experiments have shown that an appropriate air-ion regime can reduce the adverse effects on man of prolonged sojourns in sealed cabins. Single exposures of animals to ionized air caused changes in the resistance of peripheral blood erythrocytes to osmotic hemolysis and in the vital stain sorption properties, shifts in the metabolism of a number of physiologically active substances, changes in the ion permeability of the skin, and increased mitotic activity in the tissues. All these data confirm that even brief exposure to air ions in doses approaching those possible in a space cabin (1 to 5 105 ion/cm3) has a definite effect on the organism.

Because air ionization is an unavoidable spaceflight factor having definite biological effects, its mechanisms of action must be studied further and wavs found to realize energy recombination of ions in the living organism.

[W. A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUB CODE: 00May66

Card 2/2

BELLESSEN BELLESSEN BELLESSEN BELLESSEN BELLESSEN L 38519-66 EWT(m)/EWP(w) IJP(c) EM/WW ACC NR: AR6020062 SOURCE CODE: UR/0124/66/000/001/AC14/AO14 AUTHOR: Nefedov, Yu. M. Determination of forced vibrations of nonlinear statilization TITLE: systems 26 SOURCE: Ref zh. Mekhanika, Abs. 1A98 REF SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 44, 1964, 43-52 TOPIC TAGS: forced vibration, frequency characteristic, approximation methods, stabilization eyetten ABSTRACT: The article deals with the application of the method of 2' approximation for determining forced vibrations of nonlinear systems based on logarithmic frequency characteristics for the study of multicircuit nonlinear stabilization systems. Bibliography of 5 titles. [Translation of abstract] SUB CODE: 20/ SUEM DATE: none/ Card 1/1 lel

HERE WEST COMPANIES IN A STREET SERVICE OF S

L 34411-66 EWT(1) SCTB DD/GD

ACC NR: AT6009451 SOURCE CODE: UR/0000/65/000/000/0297/0301

AUTHOR: Malakhov, A. N.; Maksimov, A. S.; Nefedov, Yu. Ya.

ORG: None

TITLE: Electromagnetic hypothesis on biological communication

SOURCE: AN SSSR. Nauchnyy sovet po kompleksnoy probleme Kibernetika. Bionika (Bionics). Moscow, Izd-vo Nauka, 1965, 297-301

TOPIC TAGS: communication, electromagnetic radiation, spectrum, very low frequency, bionics, animal physiology

ABSTRACT: The authors measured the spectrum of the biopotentials of certain biological objects. The spectrum included the frequency band from 1 to 500 cps. The electromagnetic radiation from biological objects was also measured at frequencies of 3 to 150 kc. These measurements were conducted in order to verify the other results (e.g., W. K. Volkers, W. Candib. 1960. Detection and analysis of high frequency signals from muscular tissues with ultra-low noise amplifiers. —IRE International Convention Record, part 9.). The apparatus and conditions for these measurements are discussed. The results show that the biological activity spectrum of animals is compact and falls with frequency Card 1/2

1

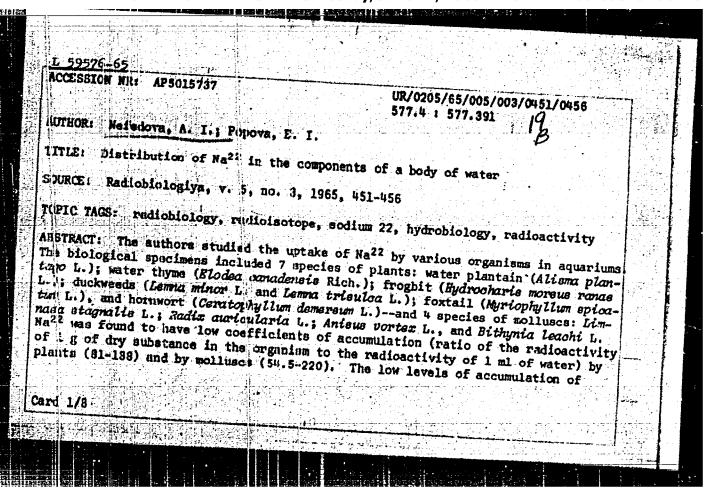
L 34411-66

ACC NR: AT6009451

increase. The compactness of the spectrum indicates a stochastic noisy character of the biopotentials. The dimensions of the spectrum at high frequencies indicate that the energy of biological activity occurs at subsonic frequencies. It is shown that electromagnetic radiation of bloobjects does exist. The final results show that electromagnetic emission by biological objects cannot serve the function of information carrier in biological communication. This conclusion is based on the fact that the electromagnetic emission is too weak up

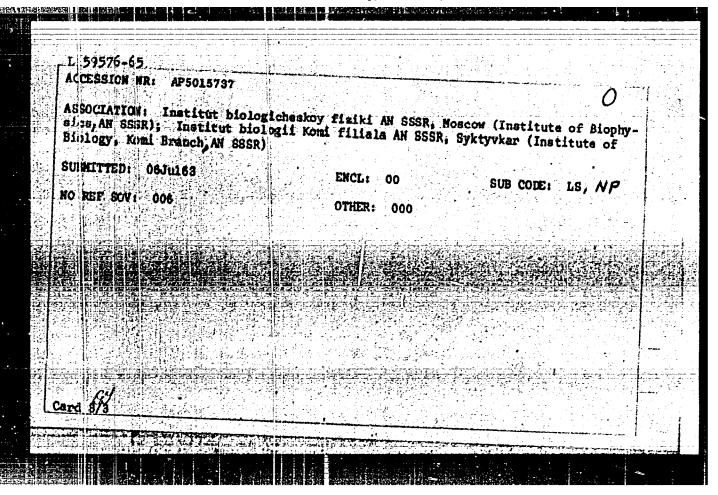
SUB CODE: 06,09 SUBM DATE: 260ct65 / ORIG REF: 002 / OTH REF: 001

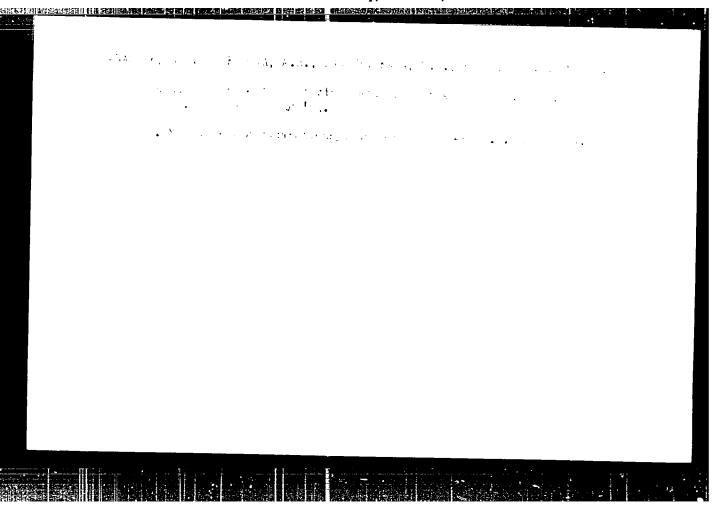
Card 2/2 BLG

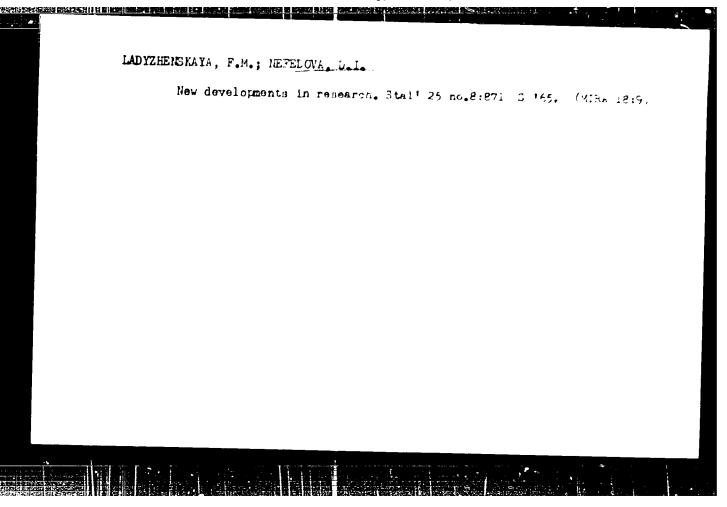


Z. 59576#65 ACCESSION NR: AP5015737 radiosodium by the hydrobiorits and its weak absorption by the ground determine the hydrotropic type of distribution of radiosodium by the basic components in the water; at the end of the experiments an average of about 80% of the radioisotope remained in solution while the other 20% was redistributed between the ground and the hydroblonts. Among the plants, the highest degree of Na²² uptake was noted in the frog-bit (activity up to 17x10⁶ decay/min; coefficient of accumulation up to 1138); the Lowest degree in hornwort (activity 1.5x106 decay/min; coefficient of accumulation about 81.5). The molluscs exhibited insignificant species differences in this respect. The bodies of the molluscs invariably contained much more radiosodium than did the shells. The distribution of Na22 in bodies of water is very similar to that of its chemical analog-cesime. The latter too is generally characterized by low values of the coefficients of accumulation by aquatic organisms. "The authors thank their coworkers N. V. and Ye. A. Timofeyev-Resovskiy at the Institute of Blology UFAN SSSR for providing working space and for valuable comments, I. N. Verkhovskaya of the Institute of Biophysics AN SSSR for reviewing the manuscript and advice, and laboratory assistant L. L. Kononova for help with the experiments." Orig. art. has: 2 figures, 1 table. Caid 2/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136







SOV/78-3-8-12/48

AUTHORS:

Adamovich, L. P., Nefedova, E. I., Vetrova, I. M.

TITLE:

On the Problem of the Isomolarity of Solutions According to the Ostromyslenskiy-Zhob Method (K voprosu ob izomolyarnosti rastvorov, izpol'zuyemykh v metode Ostromyslenskogo-Zhoba)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol. 3, Nr 8, pp. 1785-

1790 (USSR)

THE RESIDENCE OF THE PARTY WAS

ABSTRACT:

It is shown that in working with non-equimolar solutions the position of the maximum in general does not only depend on the initial concentration but also on the parameter characteristic of the equilibrium investigated. A theoretical consideration of the method according to Ostromyslenskiy-Zhob was dealt with. By means of practical examples of complexes with a composition of 1:1,1:2 and 1:3 it was found that the displacement obtained for the maximum satisfactory agreed with the one calculated. In using non-equimolar solutions also a displacement of the maximum to the middle of the diagram may occur. The Ostromyslenskiy-Zhob method with non-equimolar solutions may also be employed in investigations of complexes of higher co-

Card 1/2

ordination numbers.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86

CIA-RDP86-00513R001136

SOV/78-3-8-12/48

On the Problem of the Isomolarity of Solutions According to the Ostromyslens-kiy-Zhob Method

There are 4 figures, 2 tables, and 11 references, 5 of which

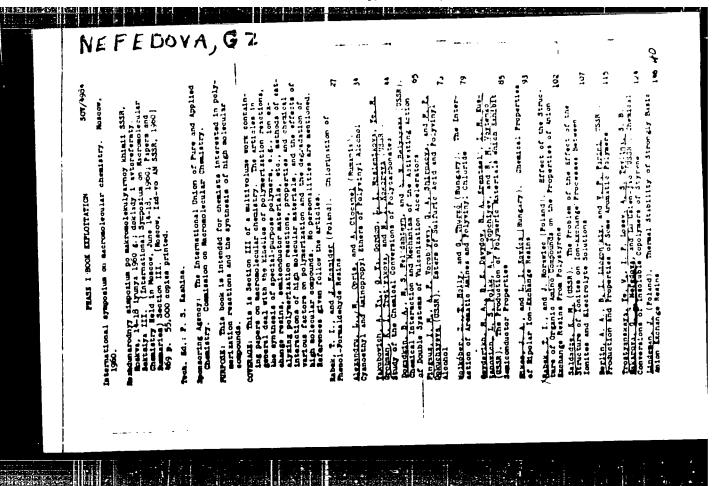
are Soviet.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet A. M. Gor'kogo

(Khar'kov State University A. M. Gor'kiy)

SUBMITTED: July 8, 1957

Card 2/2



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

TROSTYANSKAYA, Ye.B.; LOSEV, I.P.; NEFEDOVA, G.Z.

Synthesis of insoluble polymer complexes. Zhur. VKHO 5 no.1:108
'60. (MIRA 14:4)

1. Moskovskiy khimiko-tekhnologioheskiy institut imeni D.I.
Mendeleyeva.
(Complex compounds) (Polymers)

411-415 J1 '62.

TROSTYANSKAYA, Ye.B.; NEFEDOVA, G.Z.

Cation exchangers of higher selectivity in the processes of ion exchange (polymer complexons). Zhur.anal.khim. 17 no.4:

(MIRA 15:8)

1. D.I.Mendeleev Moscow Chemico-Technological Institute.
(Complexons) (Ion exchange)

S/190/63/005/001/007/020 B101/B186

Trostyanskaya, Ye. B., Neiedova, G. Z. AUTHORS:

Synthesis of insoluble polymer complexones TITLE.

rERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 1, 1965, 49-56

TEXT: Styrene diviny, benzene (SD) copolymer containing 3% divinyl benzene was used as initial substance to synthesize insoluble complexones for ion exchange chromatography, which together with cations form chelates. (A) Styrene diviny, benzene was swollen in dichioro etnane, chloromethylated with HCl and paraform in the presence of ZnCl, then aminated in chloroform containing nexamethylene tetramine, and acetylated with chloroacetic, bromoacetic, and iodoacetic acids or with ethyl

chloracetate. The resulting products had a very low acid number and no complex-forming capacity. They probably contained more aminoacetic than iminodiacetic radicals. (B) Chloromethylated SD was aminated with dietnanol amine, the degree of amination of chloromethyl groups reaching 80%. The hydroxyl groups were then oxidized into carboxyl groups. Experiments with KMn_{Q} , chromate mixture, and HNO_3 showed that the optimum Card 1/3

CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000

S/190/63/005/U01/007/020 B101/B186

Synthesis of insoluble polymer ...

PER TERRESCONIES

oxidant was 56% HNO, at 70° C in the presence of FeCl₂. The resulting -2 (KT-2) complexone had an acid number of 3.5 - 3.7 mg-equ/g and contained 1.7 - 1.9% N. Oxidative degradation of the copolymer occured as side reaction. Because of this reaction the copolymer is assumed to contain 73% iminodiacetic radicals and 27% carboxyl radicals. Potentiometric titration confirmed a two-stage dissociation. (C) Chlorometnylated SD was aminated with iminodiacetic (I) dinitrile or dietnyl ester, immnodipropylic (II) dinitrile or diethyl ester, and was then saponified in 0.1 - 0.5 N NaOH. Oxidative degradation did not occur and the degree of amination reached only 60 - 70% in 1, 50% in 11. Dichloro ethane was the best solvent. The degree of amination was lower in tetrahydrofuran, dimethyl formamide, dioxane, nitromethane, or ethanol. The acid number of -2 (KT-2N) complexone, a copolymer containing I -4 (KT-4) complexone, a groups, was 2.5 - 2.7 mg-equ/g, that of the copolymer containing II groups, was 2.6 - 2.8 mg-equ/g. The swelling capacility of these complexones in 0.1 NaOH was 20 - 25%. If the K* sorption is put at unity the following values are obtained for the complex-forming capacities of KT-2N, KT-2, and KT-4:Cu2+ 0.625, 0.432, Card 2/3

CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000

全世紀初期公司

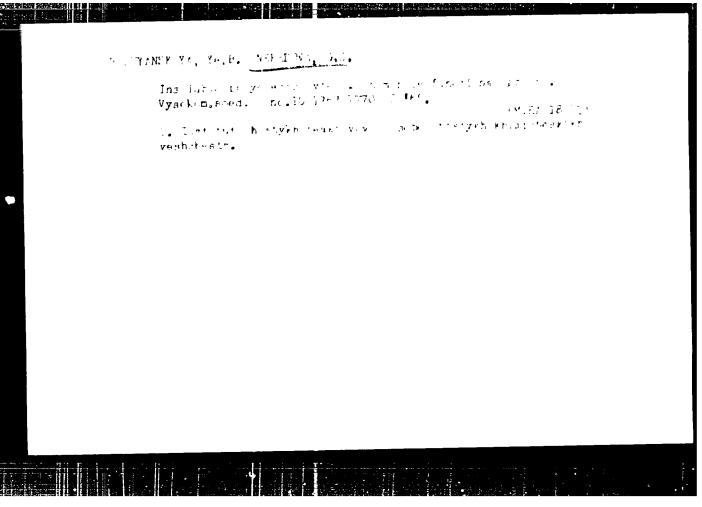
Synthesis of insoluble polymer ... S/190/63/005/001/007/020

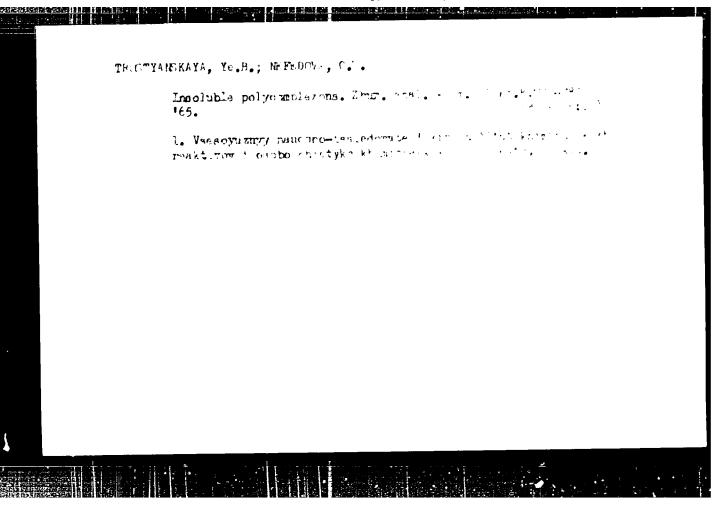
and 3.380 respectively; Zn²⁺ 0.657, 0.370, and 0.350 respectively;
Ca²⁺ 0.544, 0.228, and 0.170 respectively. The weaker complex-forming degradation and that of AT-4 by the greater distance between the nitrogen atom and the carboxy. group. There are 4 figures and 2 tables.

ASSOCIATION: Moskovskiy Animiko-teknnologicheskiy institut im. D. I.

Mendeleyeva (Moscow Institute of Chemical Technology imeni

SUBMITTED: July 14, 1961





ACCESSION NR: AT4033532

8/0000/63/000/000/0162/0169

AUTHOR: Nefedova, I. D. (Candidate of chemical sciences); Somova, A. A.; Maslennikova, A. A.

TITLE: Stainless steel for equipment producing caprolactam by air exidation of cyclohexane

SOURCE: Poluprodukty*dlya sinteza poliamidov (Intermediates for polyamide synthesis). Moscow, Goskhimizdat, 1963, 132-169

TOPIC TAGS: stainless steel, steel corrosion resistance, caprolactam, adipic acid, cyclohexane, cyclohexane air oxidation, caprolactam production, adipic acid production, cyclohexane oxidation equipment

ABSTRACT: Samples of ten stainless steels (designations and chemical composition given) were tested for effects of corrosive environments present in the reactor, separator, filter, distillation column, reservoir and sedimentation tank of a plant producing caprolactam and adipic acid by air oxidation of cycloherene. Temperatures ranged from caprolactain and adipte acid by all oxidation of cyclonic exposures from 784 to 849 140C to room temperature, pressures from 0 to 18 ati. exposures from 784 to 849 hours. Analysis of the results, expressed in terms of cor osion rates and presented graphically and in tabular form, indicates that Mo alloyed steels are best suited for the

Card 1/2

ACCESSION NR: AT4033532

basic separator components of a plant. Steels containing 0.03 to 0.04% and the Nb alloyed steel Kh19N14B exhibited best corrosion resistance in the principal components of a plant producing adipic acid. Orig. art. h is: 3 tables and 3 graphs.

ASSOCIATION: None

SUBMITTED: 12Oct63

DATE ACQ: 06Apr64

ENCL: 00

SUB CODE: MM, OC

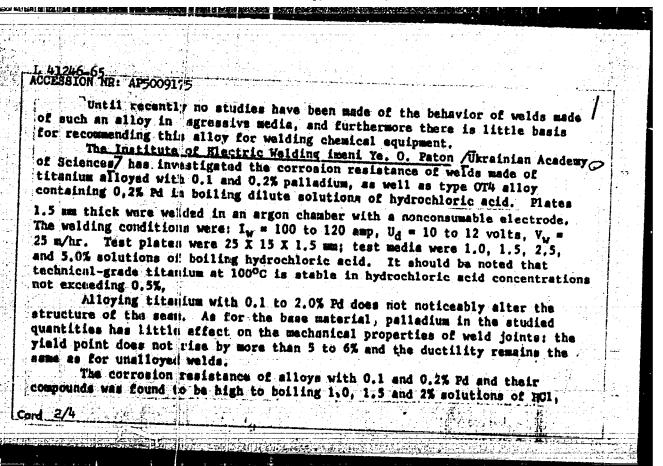
NO REF SOV: 000

OTHER: 000

Card 2/2

124119

	NR: AP5009175	St History	/EMP(v)/T/EMP(t)/E	MP(K)/EWP(b)/EWA(o) .
UTHOR: (Jurevich, S. H.	i lisfedovo. I. D.;	Yagupol'skave T	/64/000/011/0092/0 N.; Kamenskaya,)	
nd 0.2% [A PATE JOINT	of titanium alloy	s containing 0.1	40
AVRCE: A	vtomaticheskays	// . nvarka, no. 11, 19	964, 92-93		39
PIC TAGS	: titanium, ti , hydrochloric	tanium alloy, pall	Adium metal weldi	ng, corrosion	B.
esistance alladium alladium	my investigation attions of titar was solved by was one of the to the solved by	the naturally high come in chemical mains have been carridum. The problem diloying it with votost effective additionally increased acids as well as	corrosion resistant chinery is continued out in the last of further improviations elements.	few years on	
				of fig. In this order.	12



T 47546-62

in identical amples. Thus, we may say that titanium alloys with 0.2% and 0.2% and 1% boiling solution of HCl in seams are less and their weld from the seams and heatbe apted in the corrosion rate reaches 0.2 mm/year. Alloys with 0.1 and 0.2% Rd are stable in a 2.5% boiling HCl, but their weld seams are less stable because of the extensive disorder of the metal in the seam and heataffected some. A boiling 5% solution of HCl deteriorates the alloys and their weld joints atill more, and the latter to an even greater degree. It should be apted in the corrosion tests made on the alloys and their weld seams in in identical amples. Thus, we may say that titanium alloys with 0.1 and 0.2% acid of up to 2% commentration. In 2.5% HCl solutions of hydrochloric their passive state, which in individual instances breaks down. In 5% state is observed more frequently.

The OT4 siley with 0.2% Pd is resistant only to boiling 1% HCI; a further increase in concentration accelerates corresion appreciably. In active corresion processes of weld joints, a deterioration of the weld metal is observed primarily in the heat-affected some. This indicates that 0.1 and

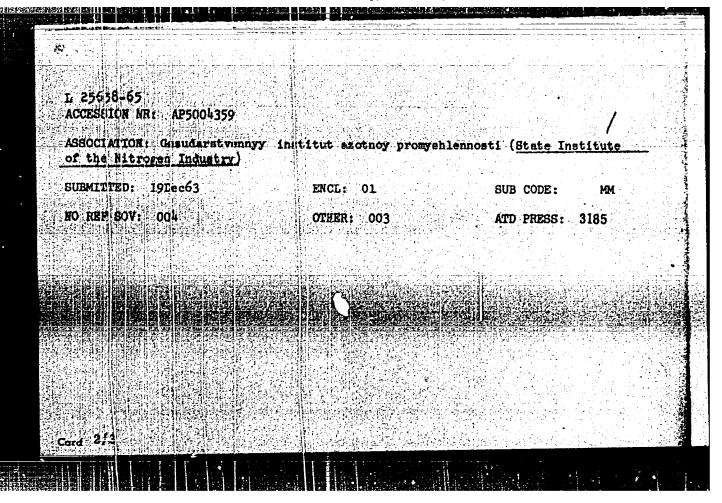
Card 3/4

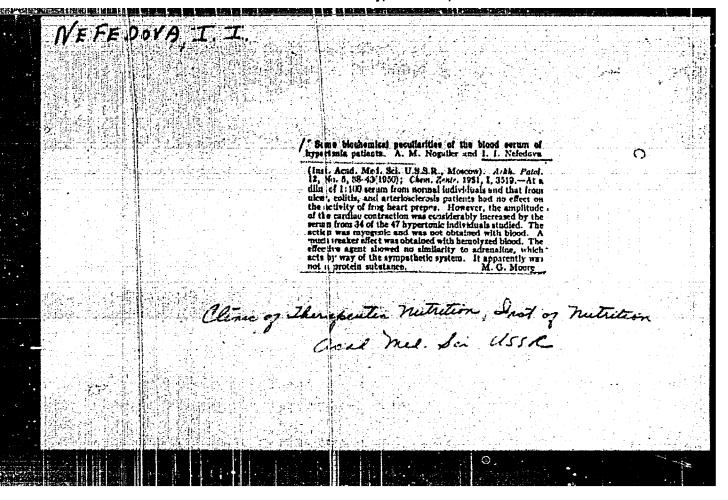
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

L 41241-65		
ACCESSION NR: AP5009	hiving a coarse-grain structure of	
he worked out to inc	n the base metal-rolled alloy. Speed the corresion registance of the carmined bare. Orig. art, hast	mid joints wade of
ASSOCIATION: none SUBMITTED: 00	ENCL: 00	SUB CODE: MM, IE
NO REP BOY: 000	OTHER! 600	SUB CODE: MM, IE
Cird 1/4		
		보다 선생님 보다 보고 있다. 그 전에 되는 것 같아 있는 것 같아. 기가 발생들은 사람이 발생들이 되었다. 그는 그는 그는 사람이 있는 것 같아.

医原性 医多种性 医性神经 网络拉斯斯 计图像分类的控制 L 25638-65 EPF(m)-2/swT(m)/MP(b)/EWA(d)/EWP(t) Pm-4 IJP(c) JD/JG/WB
ACCESSION NR: AP5001359 8/0076/65/039/001/0181/0184 AUTHOR: Pakhomeva, H. M.; Maksinova, N. P.; Nefedova, I. D.; Krasil'shchil A. I. Anodic behavior of titarium-nipbium alloys TITLE BOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 1, 1965, 181-18h TOPIC TAGS: titanium, titanium alloy, niobium containing alloy, alloy corrosion. allog anodic behavior, alloy passivation ABSTRACT: The snodic behavior of Ti-No alloys in 5N H2804 at 25C has been investigated. Additions of 2 and 10% No decrease the density of the critical passivation current from 222 pamp/cm2 for uralloyed Ti to 116 and 71 pamp/cm2 (see Fig. 1 of the Enclosure). However, these additions do not appreciably affect the current density in the passive region. An addition of 35% No decreases the critical passivation current density to 7.5 µamp/cm2 and also the current in the passive region. Additions of 10 and 35% No shift the steady potential toward more positive values, from -0.37 to -0.32 and -0.23 v but at 2% No the steady potential becomes more [MS] negative. Orig. art. has: 3 figures. Card 1/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136



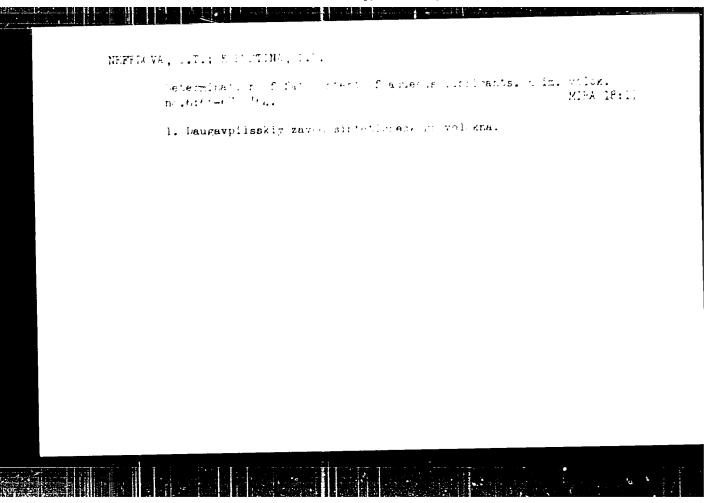


MUCHERUK, V.V.; NEFEDOVA, I.N.; DUNAYEVA, T.N.

On the importance of small mammal self-defense against the larvae and nymphs of ixodid ticks [with English summary in insert].Zool, shur. 35 no.11:1723-1727 D 156. (MIRA 10:1)

1. Otdol pararitologii i meditsinskoy scologii Instituta epidemiologii i miktobiologii imeni N.F. Gamaleya Akademii meditsinskikh nauk SSSR.

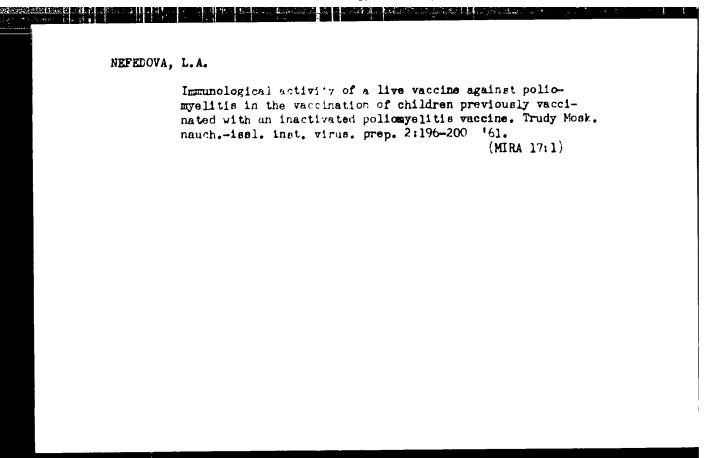
(Ticks) (Parasites---Rodentia) (Parasites---Insectivora)



NEFEDOVA, L.A.

Study of immunogenesis following the application of associated vaccines. Vop. virus. 7 no.2:206-211 Mr-Ap 162. (MIRA 15:5)

1. Moskovskiy nauchno-issledovateliskiy institut virusnykh preparatov. (VACCINATION)



SOKOLOVA, N.N.; APANASHCHENKO, N.I.; NEFEDOVA, L.A.

Study of the reactogenicity and immunological effectiveness of influenza-diphtherial and influenza-diphtherial-whosping cough vaccines. Vop.virus. 7 no.6:688-693 N.D '62. (MIRA 16:4)

1. Institut virusologii imeni D.I.Ivanoskogo AMN SSSR i Institut epidemiologii i mikrobiologii imeni N.F.Gamelei ANN SSSR, Moskva, (INFLUENZA...-PREVENTIVE INCCULATION)

(DIPHTHERIA...-PREVENTIVE INCCULATION)

(WHOOPING COUCH...-PREVENTIVE INCCULATION)

STAROSEL'SKAYA, K.B.; BERIM, M.G.; NAUMOVA, Ye.X.; NEFEDOVA, M.G.

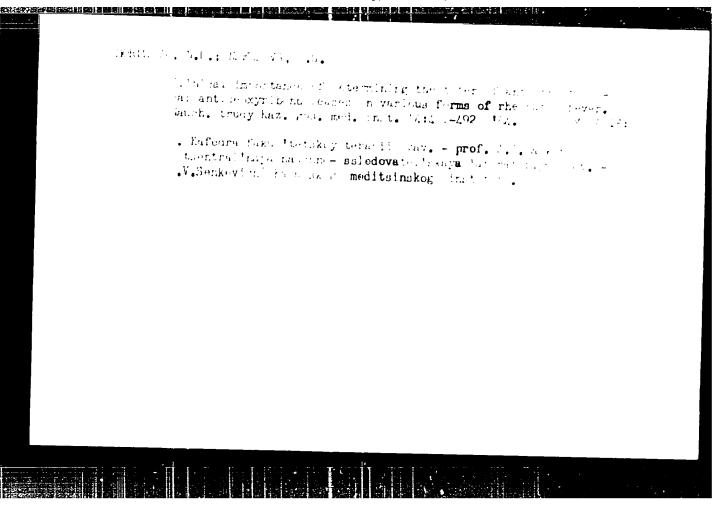
Action of some organic phosphorus compounds on microorganisms.

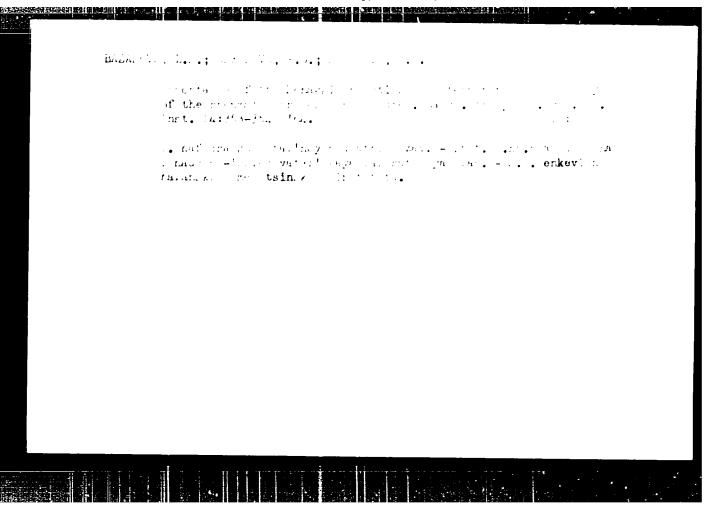
Zhur.mikrobiol., epid. i immun. 32 no.li87-91 N '61.

1. Iz Kazanskogo gosudarstvennogo meditsinskago instituta.

(PHOSPHORUS ORGANIC COMPOUNDS—PHYSIOLOGICAL EFFECT)

(BAGTERIA, PATHOGENIC)

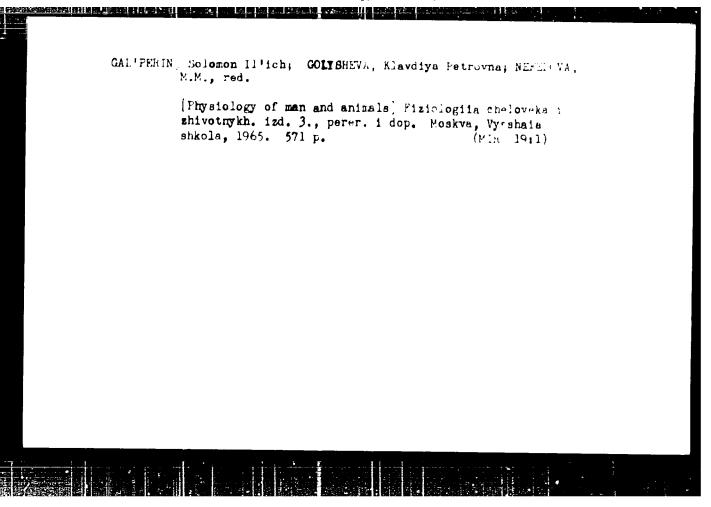




```
BILICH, I.L.; NEFEDOVA, M.G.

Saturation of the organism with vitamins in peptic withers.
Nauch. trudy Kaz. gos. med. inst. 14:373-375 *** (MIMA 18:7)

1. Kafedra gospitalinoy terapii (zav. - prof. K.A.Mayanshava.
i teentralinaya nauchno-issledovatelishaya laboratoriya (nav. -
S.V.Senkevich) Kazanskogo meditsinskogo instituta.
```



ACC NR. AP6026P99	SOURCE CORE: UR/ 0.62/05/ 0.4/0.1/0.218/2020
TITIE: Isotopic exchange of hydrog SOURCE: AN SSSR. Izvestiya. Seri TOPIC TAGS: isotope, hydrogen, fer chemical kinetics ABSTRACT: The reaction of the iso was used as a model for investigat in aromatic systems. Ferrocene reacetyl groups introduced into the exchange rate of the hydrogen atom effect of electron-donor substitut authors determined the rate constant methyl. ethyl- and 1.1'-diethylfo trifluoroacetic acids. It was shown enhances the reactivity of the ferthan that of the benzone nucleus. of the ferrocene nucleus participal isotopic exchange is not affected the various positions. Orig. art.	topic exchange of hydrogen in acid media ing the laws of electronalic substitution adily enters into this reaction and the ferrocene molecules markedly reduce the s on the nucleus. By investigating the es in ferrocene on its reactivity, the ents of the isotopic exchange of hydrogen of process in a mixture of deuteroacetic and we that the introduction of alkyl groups recene nucleus to a much smaller degree. In alkylferrocenes all the hydrogen atoms to in the exchange, and the kinetics of by the differences in the reactivity of has: 4 tables. [JPRS: 36,455].
SUB CODE: 07 / SUBM DATE: 21Ap	UDC: 542.957+546.72+546.11.2

	L 55127-65 EMT(m)/EPF(c)/T/EWP(j) Pc-4/Pr-4 RM ACCESSION NR: AP5012767 UR/0020/65/161/006/1349/1351
	AUTHOR: Negmeyanov, A. N.; Kursanov, D. N. (Corresponding member AN SSSR); 36
	TITIE: The replacement of a halogen by a proton in halogenoferrocenes Source: AN SSSR. Doklady, v. 161, no. 6, 1965, 1349-1351
	TOPIC TAGS: halogen, ferrocene, deuterium
	ABSTRACT: In studying the isotopic exchange of hydrogen in acid media an unexpect- ed reaction of iodoferrocene with the acid was detected. In treating solutions of fluoroacetic acid (95 atomic percent deuterium) there is a rapid formation of the ferricine cation and a complex compound of iodoferrocene with iodine. The ferri- percent deuterium, which corresponds exactly to the replacement of the iodine atom terium for the halogen also is observed but to a lesser extent than with iodoferro- cene. For the tests 1 ml of deuterotrifluoroscetic acid (95 atomic percent deu-
	Card 1/2
do.	

L 55127-65 ACCESSION NR: API012787		
was added to a so ution of 0 of 45-460, from methanol) in Immediately a violet color at After 1-2 hours the precipit from the filtrate with water sulfite until a yellow color off the ether the yield was was washed with binzene and ferrocene and chloroferrocen art. has: two sets of equat	72°) which had been previously saturate for the same (0.0019 ncl) of iodoferrocer 1.5 ml of benzele in a stream of purpopered and a black-violet precipitate was removed and the ferricine care was removed and the ferricine care appeared and was extracted with ether 0.09 grams (0.005 mol) of ferrocene. purified through sublimation in a value were treated in a generally similar ions.	re dry nitrogen. te settled out. tion was extracted ted with sodium er. After driving The precipitate cuum. The bromo- r manner. Orig.
of Elementoorganic Synthesis	Academy of Sciences, SSSR)	3.42 (1.4)
SUBMITTED: 230ct64	ENCLI: OU	UB CODE: GC, OC
NO REF SOY: DOS	OTHER: 005	
Card 2/2		

34023-66 SOURCE CODE: UR/0079/66/036/001/0122/0126 ACC NR. AP6025536 64 AITHOR: Nefedov. V. A.: Nefedova, M. N. P ORG: none TITLE: Synthesis based on organic derivatives of mercury. I. Reaction of mercurated ferrocenes with copper salts SOURCE: Zhurnal obshchoy khimii, v. 36, no. 1, 1966, 122-126

TOPIC TAGS: chemical synthesis, mercury, ferrocene, copper compound, mercury compound, anion, reaction rate, IR spectrum

is in comparing the base water is expected that in the many party description and

ABSTRACT: Halo-, thiocyanato-, acetoxy- and phthalimidoferrocenes were prepared from mercurated ferrocenes by exchange of the mercury group for the anion of a copper salt. The rate of exchange of the mercury residue was found to be proportional to the strength of the acid corresponding to the anion of the copper salt. The halogen in bromoferrocenes was replaced by the phonoxy group, yielding proviously undescribed phenoxyferrocenes, with potassium phenolate according to the Ulmann reaction. A series of new sulfur derivatives of ferrocene were synthesized from the thiocyanatoferrocenes. The structures of the products were confirmed by their infrared spectre. The authors thank V. N. Drozd for providing some of the substances for comparison. They also thank E. G. Porovalova for her critical remarks on the work. [JPRS: 35,998] 07, 20 / SUBM DATE: 12Jun64 / ORIG REF: 008 OTH Rain: CO. SUB CODE:

L 35 327-66 EWT (m)/EWP(j) RM

ACC NR. AP6026836

SOURCE CODE: UR/0020/66/166/002/0374/0377

AUTHOR: Nefedova, M.N.; Kursanov, D.N. (Corresponding member AN SSSR); Setkina, V.N.; Perevalova, E.G.; Nesmeyanov, A.N. (Academician)

ORG: none

TITLE: Effect of substituents on the rate of isotopic hydrogen exchange in ferrocene derivatives

SOURCE: AN SSSR. Doklady, v. 166, no. 2, 1966, 374-377

TOPIC TAGS: ferrocene, electron donor, dissociation constant, substituent, reaction rate

ABSTRACT: The authors determined the rate constants for acid isotopic exchange of hydrogen in six monosubstituted and four disubstituted ferrocenes. The relative rate constants K_{rol} were then calculated assuming unity for unsubstituted ferrocene. The substituents studied included both electrodonor and electrom-acceptor types. An analysis of the resultant data shows that the effect of the substituent on the reaction rate in an aromatic compound may be described as a combination of induction and conjugation. The conjugation effect is much less important in this case than it is in electrophilic substitution in the benzene series. It was found that the substituent

Card 1/2

UDC: 546.11.2+542.957+546.7?

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

