

UK KAIN 1580, Y. I.

SOV 59-4-7-15
Laypustiy, A. I., Abramov, A. I., Andreyev, V. K., Buz'manikov, A. P., Gornovskiy, I. I., Galinov, V. I., Golubev, V. I., Gul'ko, A. D., Kuznetsov, A. V., Masichovskiy, G. B., Kuzlova, A. Y., Kravtsov, N. V., Kuznetsov, B. D., Morozov, F. M., Nikolayev, M. M., Saifrankin, G. M., Shchegolev, I. B., Ushakov, F. I., Ushakov, L. M., Fatiyev, N. I., Shermak, L. G.

Investigations of the Physics of Reactors with Fast Neutrons. II (Isolatedlyya po fizike reaktorov na svyaznykh neytronnakh) Atomnaya energiya, 1956, Vol. 5, No. 3, pp. 283-293 (USSR)

The reactivity and the kinetics of the reactor were measured. It could be shown that in the center of the active zone the weight of the 5 Mev neutrons is higher by ~15% than that of 250 Mev neutrons. The effective yield of the delayed neutrons in the reactor with a uranium shield exceeds that of a reactor with a copper shield by 1.4 times its amount. Reactor β is 1.7 ± 0.2 . The active plutonium zone in the case as in reactor BT-1. In the center of the reactor with uranium channel is provided, which is separated from the plutonium zone by a uranium layer

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of 8 cm thickness. The uranium-water lattice consists of cylindrical slugs of normal uranium, which have a diameter of 35 mm. The filling material is aluminum. The ratio between water and uranium is 0.75. The lattice spacing is 40 mm. Measurements were made in the water-uranium lattice instead of with the pure uranium lattice showed:
1) The conversion factor is reduced from 2.45 ± 0.10 to 1.7 ± 0.2 .
2) In the case of a fixed power output of the active zone the velocity with which the total quantity of plutonium 239 and uranium 235 is formed was increased by 55%.
3) The velocity with which plutonium is produced increases by 1.8 times its amount.
4) In the case of a fixed power output of the active zone the total power output of the reactor is increased by 2.2 times its amount.

Reactor β -2)
This reactor was described more in detail in references 1) and 2). Its nominal power output is 120 kW, the maximum output is 200 kW. In the active zone of the reactor β -2, which contains of plutonium rods, mercury is used as a coolant, which takes up

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energy of the total volume of the active zone. The regulating rods (reactor β -1A) were made of copper with a diameter of 10 mm. The external shield consists of uranium slugs encased with stainless steel. Thickness ~25 cm. The uranium shield is surrounded by copper of 1) cm thickness. The presence of mercury in the active zone leads to a decrease of the content of fast neutrons in the spectrum. The conversion factor was 1.6 ± 0.2 . Theoretically the kinetic equation for this reactor was calculated by G. I. Marchuk according to the method developed by V. S. Vladimirov. Theoretical calculation of the critical mass was carried out with an error of 4%, and that of the effective mass of the regulating rods with an error of 6%. The effective yield of the delayed neutrons was found to amount to 1.7%. While the experimental value was 0.24 ± 0.04 . There are 7 figures, 1 table, and 13 references, 9 of which are cited.

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UKRAINISEV, F.

21(4) PHASE I BOOK EXPLOITATION SOV/2583
International Conference on the Peaceful Uses of Atomic Energy,
Zurich, Geneva, 1958.

Doklady sovetskikh nauchnykh yadernykh reaktorov i yadernykh ener-
geticheskikh ustanovok. (Reports of Soviet Scientific Nuclear Reactors and
Nuclear Power Plants). Moscow, 1958. 707 p. (Series: Itsk
Trudy, vol. 2). Mirova also issued. 6,000 copies printed.
General Eds.: M.A. Dolzhabal, Corresponding Member, USSR Academy of
Sciences, A.E. Kvasin, Doctor of Physical and Mathematical Sciences,
A.I. Leybunakki, Member, Ukrainian SSR Academy of Sciences, I.Y.
Sviridov, Corresponding Member, USSR Academy of Sciences, and V.S.
Kurov, Doctor of Physical and Mathematical Sciences; Ed.: A.F.
Al'yab'yev; Tech. Ed.: Ye. I. Musal.

PURPOSE: This book is intended for scientists and engineers engaged
in reactor design, as well as for professors and students of
higher technical schools where reactor design is taught.

COVERAGE: This is the second volume of a six-volume collection on the peaceful
use of atomic energy. The six volumes contain the reports pre-
sented by Soviet scientists at the Second International Conference
on Peaceful Uses of Atomic Energy, held from September 1 to 13,
1958 in Geneva. Volume 2 consists of three parts. The first is
devoted to atomic power plants under construction in the Soviet
Union. The second to experimental and research reactors, the ex-
periments carried out on them, and the work to improve them; and
the third, which is predominantly theoretical, to problems of
nuclear reactor physics and construction engineering. Yu. I.
Koryakin is the section editor of this volume. See SOV/2081
for titles of all volumes of the set. References appear at the
end of the articles.

PART II. EXPERIMENTAL AND RESEARCH REACTORS

Laybunakki, A. I., V.G. Gribin, M.M. Ipatovskiy, I.I. Bondarenko, O.D. Klyachkovskiy, O.I. Kuvshinov, A.A. Fashov, V.V. Pirozhnik, M.K. Zimin, M.Ye. Staryakii, V.V. Ivanovskiy, L.N. Danilov, (Report No. 228)	215
Kiboin, I.F., V.A. Babitskiy, I.S. Grigor'yev, Yu.Yu. Glazkov, E.V. Kozlovskiy, and S.G. Zubovskiy. Pilot-plant reactor with vertical and adjustable W6 (Report No. 230)	232
Goncharov, V.V. and et al. Some New and Rebuilt Thermal Research Reactors (Report No. 2185)	243
Prokhorov, B.V., K.Ye. Goshalovskiy, V.I. Klimenko, P.V. Glazkov, and E.M. Gushchikov. Dismantling an Experimental Graphite-Uranium Isotope Producing Reactor After Four Years of Operation (Report No. 2297)	319
Faybush, I.M., Ye. D. Vozob'yev, V.M. Gryzov, V.B. Klementov, A.A. Lyubchenko, and V.A. Tyrtov. Intermediate Reactor for Obtaining High Intensity Neutron Fluxes (Report No. 2142)	334
PART III. THEORY AND ENGINEERING OF REACTOR DESIGN	
Laybunakki, A. I., A.I. Arzhamai, V.M. Andreyev, A.I. Baryshnikov, G.M. Belykh, V.I. Galikov, V.I. Golobov, A.D. Galko, A.G. Gulyaev, G.M. Gulyaev, V.I. Gulyaev, M.Y. Gulyaev, M.V. Kravtsov, S.D. Kuznetsov, V.I. Gulyaev, M.M. Kizilov, G.N. Saitrenko, V.I. Saitrenko, V.I. Gulyaev, M.M. Kizilov, G.N. Saitrenko, V.I. Saitrenko, V.I. Gulyaev, M.M. Kizilov, G.N. Saitrenko, V.I. Saitrenko, V.I. Gulyaev, M.M. Kizilov, G.N. Saitrenko, (Report No. 2038)	377
Ryakov, V.N. and B.L. Ioffe. Homogeneous Natural Uranium Reactor (Report No. 2236)	398
Faybush, I.M., Ye. S. Antiferov, V.B. Kiselev, L.V. Komissarov, I.K. Lavina, Yu. V. Nikol'skiy, A.M. Kozlov, A.S. Omelchukin, G.K. Gulyaev, M.M. Kizilov, G.N. Saitrenko, V.I. Saitrenko, V.I. Gulyaev, M.M. Kizilov, G.N. Saitrenko, V.I. Saitrenko, V.I. Gulyaev, M.M. Kizilov, G.N. Saitrenko, V.I. Saitrenko, (Report No. 2145)	411
Kidreba, V.A. Self-regulation in a Water-water Power Reactor (Report No. 2186)	534
	199

UKRAINTSEV, F. I., USACHEV, L.N., LEYPUNSKIY, A. I., KAZACHKOVSKIY, O. D.,
AGRAMOV, A. I., ALEKDAVDROV, Y. A., ARISTARKHOV, N. N., BONDARENKO, M. S.,
SMIRENKIN, G. N., STAVISSKIY, Y. Y., SALNIKOV, O. A.,

Physical characteristics of the BR-5 reactor

report submitted for the IAEA Seminar on the Physics of Fast and Intermediate
Reactors, Vienna, 3-11 August 1961

(report presented by G. I. Marchuk)

Acad. Sci. USSR, Moscow

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S/089/61/010/005/001/015
B102/B214

AUTHORS: Blokhin, G. Ye., Blokhintsev, D. I., Blyumkina, Yu. A.,
Bondarenko, I. I., Deryagin, B. N., Zaymovskiy, A. S.,
Zinov'yev, V. P., Kazaohkovskiy, O. D., Kim Khen Bon,
Krasnoyarov, N. V., Leypunskiy, A. I., Malykh, V. A.
Nazarov, P. M., Nikolayev, S. K., Stavisskiy, V. Ya.,
Ukrain'tsev, F. I., Frank, I. M., Shapiro, F. L.,
Yazvitskiy, Yu. S.

TITLE: A pulsed fast reactor

PERIODICAL: Atomnaya energiya, v. 10, no. 5, 1961, 437-446

TEXT: The present paper gives a description of the pulsed fast reactor of the Ob'yedinennyi institut yadernykh issledovaniy (Joint Institute of Nuclear Research) which became critical in June, 1960. This reactor, called WSP (IBR) reactor, serves as pulsed fast neutron source (mean power ≈ 1 kw) for physical investigations, particularly for time-of-flight experiments. Its most distinguishing feature is the very small contribution ($\sim 10^{-4}$) of the delayed neutrons in its normal operation; it is about

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A pulsed fast reactor

one hundredth of that of the usual steady uranium reactor. The pulses appear because whenever the reactor becomes overcritical a burst of prompt neutrons results. The half width of these pulses is 36 μ sec. The frequency with which the pulses are repeated can be varied between 0 and 80 pulses/sec. Fig. 2 shows the construction of this reactor. The periodic change in the reactivity is brought about by the displacement of the two U^{235} blocks placed in two disks that can be rotated. The main block is pressed in the form of a disk, 1100 mm in diameter, and can be rotated with a peripheral velocity of 276 m/sec (at 6000 rpm) during which it passes through the core center. The reactivity change obtainable from the motion of the main block is 7.4 %, that obtainable from the motion of the auxiliary block is 0.4 %. The stationary part of the core consists of plutonium lumps in steel jackets. The reactor is started by a rough regulator, in this case a movable part of the reflector. It gives a reactivity change at the rate of $13 \cdot 10^{-5} - 1.3 \cdot 10^{-5} \text{ sec}^{-1}$. The manually operated rod is also a part of the reflector. Two plutonium rods in electromagnetic suspension serve as scram. They can be separated from the core with an acceleration of 20 g. Their separation causes a reactivity

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A pulsed fast reactor

decrease of 2-1.1 %; the rough regulator allows a reactivity change of 2.4 %, the manual regulator 0.1 %, and the automatic regulator 0.036 %. The reactor possesses also a reactivity booster for the production of one intensive pulse. The control and shield system is an automatically functioning electronic arrangement with BF_3 counters and ionization chambers. The whole reactor is placed in a room of size 10·10·7 m whose concrete walls allow complete protection from radiation. The most important experimental arrangement consists of a 1000 m long neutron conductor, a metal tube, 400 mm in diameter in the first part and 800 mm in the second part in which a pressure of 0.1 mm Hg is maintained. This conductor connects a chain of so-called "intermediate pavilions" (at distances of 70, 250, 500, 750, and 1000 m from the reactor) in which experiments can be carried out. There is also an additional neutron conductor of 100 m length. The reactor chamber is joined to an experimental chamber in which four neutron beams of up to 800 mm diameter are available. There us such an experimental chamber also above the reactor chamber. Various experiments were carried out with the reactor and they are described in the present paper. These are experiments with stand

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A pulsed fast reactor

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assemblies and slowly moving main block for the determination of the most important parameters of the reactor; experiments with a core assembly (unmoved), experiments with rotating (5000 rpm) main block and a Ra- α -Be source in the core for the investigation of the effect of the multiplication factor, etc. The most important results are represented graphically. For example, Fig. 8 shows the dependence of the half width θ of a pulse on the reactivity; the dashed line holds for the quasistationary case, the dot-dash line for the case of $\theta = K(\tau/\alpha)^{1/3}v^{-2/3}$, where v is the velocity of motion of the (rotating) main block; in the quasistationary case $\theta = 2\sqrt{\tau_m/\alpha v^2}$, where τ_m is the reactivity at the maximal multiplication factor; $t = t_m - \alpha x^2$, where x is the displacement of the main block. The reactor has been actually used for the measurement of the total, scattering, capture, and fission cross sections by the time-of-flight method. Further experiments will be carried out with a view to obtaining increase of power and decrease of the pulse duration. There are 15 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: J. Orndorf, Nucl. Sci. and Engng, 2, No. 4, 450 (1957).

Card 4/24

UKRAINTSEV, M.

On the eve of the 21st Congress of the CPSU. Sel'.stroil. 13
no.12:4-5 D '58. (MIRA 12:1)

1. Nachal'nik Novozybkovskogo rayonogo otdela po stroitel'stvu
v kolkhozakh Bryanskoy oblasti.
(Novozybkov District--Farm buildings)

L 21417-65

ACCESSION NR: AP5002006

STANDARD:

SUB CODE: NG

NR REF SOV: 000

ENCL: 00

OTHER: 000

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CIA-RDP86-00513R001857910014-5"

UKRAINTSEV, Ye.F., assistant

Rheumatic heart defects in pregnancy. Akush. i gin. 38 no.5:
20-27 S-0 '62. (MIRA 17:11)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. I.T. Mil'chenko) i fakul'tetskoy terapevticheskoy kliniki (zav. - zasluzhennyy deyatel' nauki RSFSR prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.

S/186/62/004/003/005/022
EO71/E433

AUTHORS: Ukraintsev, Ye.V., Kashcheyev, N.F. (deceased)
TITLE: The extraction of microquantities of cerium from nitric acid solutions with di- and monoisoamyl esters of methylphosphonic acid

PERIODICAL: Radiokhimiya, v.4, no.3, 1962, 279-289

TEXT: In order to elucidate the mechanism of extraction of inorganic nitrates with neutral and acid extracting agents the authors investigated the extraction of trivalent Ce^{144} (used in indicator quantities) with isoamyl esters of methylphosphonic acid. The extraction was done by mechanical mixing in graduated test tubes at $20 \pm 2^\circ C$ and a constant ionic force of about 2. On extraction with diisoamyl ester of methylphosphonic acid (DAMFK) the constants of complex formation were determined: for benzene and xylene as diluents 12 ± 3 and for kerosene 62 ± 1.5 . The thermodynamic constant for benzene as a diluent was determined as being about 30 to 40. The mechanism of the extraction of cerium with monoisoamyl ester of methylphosphonic acid (MAMFK) in the form of a complex
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The extraction of microquantities ... S/186/62/004/003/005/022
E071/E433

$Ce(NO_3)(MAMFK^-)_2 \cdot (MAMFK)$ was proposed. The reaction constant was calculated (0.126 ± 0.002). The influence of the concentration of nitric acid, thorium nitrate and NO_3^- ion in the aqueous phase on the distribution of cerium was studied. A sharp decrease in the coefficient of distribution of cerium in the presence of thorium nitrate was observed. On examining the influence of the presence of mono ester in diester on the extraction of cerium, it was established that the presence of the former increases the extraction of cerium, probably due to synergetic effect. At low acidities, the effect is considerable. The form of the dependence of the activity coefficients of trivalent cerium in nitric acid solutions on the concentration of nitric acid was determined. A sharp decrease of activity coefficients with increasing concentration of nitric acid indicates the prevalence of interactions of the type of ionic associations. There are 10 figures and 5 tables.

SUBMITTED: March 21, 1961

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L 36059-66 EWT(m)/EWP(t)/ETI LJP(c) ES/JD/WW/JG

ACC NR: AP6014722 / (N) SOURCE CODE: UR/0186/65/007/006/0641/0648

AUTHOR: Ukreintsev, Ye. V.

33

ORG: none

B

TITLE: Mechanism of the extraction of thorium and uranium by the mono- and diisoamyl esters of methyl phosphonic acid

27 27

SOURCE: Radiokhimiya, v. 7, no. 6, 1965, 641-648

TOPIC TAGS: solvent extraction, thorium, uranium, phosphonic acid

ABSTRACT: The extraction was done from solutions of nitric acid. Indicators for the extraction were UX_1 and U^{233} . It is shown that the extraction of thorium with the diisoamyl ester of methyl phosphonic acid is accompanied by the formation in the organic phase of di- and trisolvates, whose effective formation reaction constants are equal, respectively to 5.75×10^3 and 3.1×10^4 , at a constant ionic strength equal to approximately 2. It is proposed that the mechanism of the extraction of thorium and uranium by the monoisoamyl ester of methyl phosphonic acid involves the formation of the complexes $UO_2 \cdot (\text{monoisoamyl ester of methyl phosphonic acid})_2$ and $Th \cdot (\text{monoisoamyl ester of methyl phosphonic acid})_4$. The calculated reaction constants for the formation

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UDC: 542.61:546.791.6:546.841

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ACC NR: AP6014722

of these complexes were equal, respectively to $3.2 \times 10^3 + 250$ and $4.75 \times 10^3 + 350$, at an ionic strength of about 2. Extraction of uranium and thorium with the monoisoamyl ester of methyl phosphonic acid was applied to dilute solutions (10^{-4} - 10^{-5} M). In this case, the coefficient for the separation of thorium from uranium was determined by the equation $\beta = (14.8 + 1.4) \times (\frac{\text{monoisoamyl ester of methyl phosphonic acid}}{[H^+]})$. Orig. art. has: 10 formulas, 4 figures and 5 tables.

SUB CODE: 07/ SUBM DATE: 06Sep65/ ORIG REF: 014/ OTH REF: 004

Card 2/2 vrb

L 39814-66 EWT(m)/EPE(n)-2 JD/HW/CD-2/JG
ACC NR: AE6011009 (N) SOURCE CODE: UR/0080/66/039/003/0513/0522
AUTHOR: Ukravtsev, Ye. V.; Kashchev, N. F. 13
ORG: none B
TITLE: Extraction of thorium with diisoamyl methylphosphonate from nitric acid solutions 21
SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 3, 1966, 513-522
TOPIC TACS: thorium, metal extracting, partition coefficient
ABSTRACT: The extractive properties of diisoamyl methylphosphonate (DAMP) in the extraction of thorium from nitric acid solutions were studied. Since water and nitric acid are integral parts of these systems, their extraction with DAMP was also investigated. The diluents employed for the extracting agent were benzene, p-xylene, and CCl₄. DAMP solutions in xylene and benzene were found to be more effective extractants than tributyl phosphate. Extraction of HNO₃ with DAMP involves the formation of the complex HNO₃·H₂O·DAMP with K = 0.41 ± 0.03. Extraction of H₂O involves formation of a complex of the composition n·H₂O·DAMP, where n depends on the DAMP
Card 1/2 UDC: 546.841! + 542.61

L 39814-66

ACC NR: AP6011009

concentration in xylene and is equal to 3 for 100% DAMP and 1 for $\leq 30\%$ DAMP. The partition coefficient for the extraction of thorium from nitric acid solutions increases sharply with decreasing HNO_3 concentration; this may be explained by the equation



A comparative evaluation of the number of theoretical plates required for a 99% extraction of thorium with TBP and DAMP shows that use of the latter leads to a decrease in the size of the extraction apparatus. Water and weak ammonia solutions can be used for the reextraction of thorium from a 0.8 M solution of DAMP in xylene; the number of theoretical plates then varies from 1.2 to 3. Orig. art. has: 15 figures and 2 tables.

SUB CODE: 11,07/ SUBM DATE: 15May64/ ORIG REF: 007/ OTH REF: 003

Card 2/2 *MLP*

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UKRAINTSEVA, E.A.

Reaction of sodium phosphates with concentrated hydrogen peroxide.
Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:14-24 '63. (MIRA 16:8)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,
Novosibirsk, i Institut obshchey i neorganicheskoy khimii im.
N.S. Kurnakova AN SSSR, Moskva.
(Sodium phosphates) (Hydrogen peroxide)

RUCHKIN, Ye.D.; UKRAINTSEVA, F.A.

Refraction of crystallizing hydrogen peroxide. Zhur.strukt.khim.
4 no.6:923-924 N-D '63. (MIRA 17:4)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

UKRAINTSEVA, Ye.F.

Hemodynamic changes in women with heart defects during pregnancy, during labor, and after labor. Sov. med. 24 no.4:70-76 Ap '60.

(MIRA 13:8)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. I.T. Mil'chenko) i fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta (dir. - kandidat meditsinskikh nauk D.A. Voronov).

(PREGNANCY)

(LABOR (OBSTETRICS))

(HEART—DISEASES)

(BLOOD (CIRCULATION))

UKRAINTSEVA, Ye.F.

Electrocardiographic changes in women with heart defects
during pregnancy, labor, and puerperium. *Klin.med.* 38
no.1:98-103 Ja '60. (MIRA 13:10)
(RHEUMATIC HEART DISEASE) (PREGNANCY, COMPLICATIONS OF)
(ELECTROCARDIOGRAPHY)

RYABOV, N.A., vrach; VARIN, I.Ye., vrach; ARKHANGEL'SKIY, V.N., prof.;
LUBOTSKAYA-ROSSEL'S, Ye.M., vrach; BELETSKIY, V.G., dotsent
(Smolensk); UKRAN, M.L., dotsent; USTINOV, S.D., starshiy
prepodavatel' gimnastiki

Health hints. Zdarov'e 9 no.2:30-31 F '63.
(HYGIENE)

(MIRA 16'3)

UKRAYNSKAYA, N. I.

Androgens - Therapeutic Use

Results of application of methyl-testosterone in certain vascular diseases. Klin. med. 30
No. 2, Feb. 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

УКРАИНСКАЯ, Н. И.

Heart - diseases

Result of application of methyl-testosterone in certain vascular diseases. Klin. med. 30
No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952, UNCLASSIFIED.

UKHAYNSKAYA, N. I.

Blood - Circulation, Disorders of

Result of application of methyl-testosterone in certain vascular diseases. Klin. med. 30,
No. 2, Feb. 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

UKHAYNSKAYA, N.I.

Result of application of methyl-testosterone in certain vascular diseases. *Klin. med.*, Moskva 30 no.2:75-76 Feb 1952. (CIML 22:1)

1. Of the Central Polyclinic (Head Physician -- V. N. Kharushin; Head of Neurological Division -- Candidate Medical Sciences G. H. Masunina), Ministry of Public Health USSR, Moscow.

UKRAYNSKIY, V. T.

Grasses

Field viability and vitality of perennial grass shoots in the steppe zone. Sov. agron. 11, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

UKRAYNTSEV, A. A.

Technology

Mortoristy radiofikatsii (Technicians of the establishment of radio facilities). Moskva, Sviaz'izdat, 1951. 24 p.

Monthly List of Russian Accessions. Library of Congress. November 1952. Unclassified.

1. GUDYNOVICH, V. S., UKRAYNTSEV, G. A.

2. USSR (600)

4. Founding

7. Preparing mold cores without use of straw. Lit. proiz. no. 9, 1952.

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

UKROPINA, Dusan

Coccygodynia. Srpski arh. celok. lek. 91 no.5:505-509 My '63.

1. Klinika za ortopedsku hirurgiju i traumatologiju Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Svetislav Stojanovic.

(COCGYX) (BACKACHE)

S

STOJANOVIC, Svetislav; MARENIC, Slavija; UKROPINA, Dusan

Diseases in ballet dancers. Srpski arh. celok. lek. 91 no.10:
903-912 0'63.

I. Klinika za ortopedsku hirurgiju i traumatologiju Medicinskog
fakulteta Univerziteta u Beogradu. Upravnik: prof.dr.Svetislav
Stojanovic.

S

UKROPINA, R.

Ten years of geodetic survey service. II. p.1695. TEHNIKA.
Beograd. Vol. 10, no. 12, 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, No. 6, June 1956

SOV/136-59-9-12/25

AUTHORS: Tselik, I.N. and Ukshe, N.S.

TITLE: Chlorination of a Titanium-Containing Slag

PERIODICAL: Tsvetnyye metally, 1959, Nr 9, pp 49-53 (USSR)

ABSTRACT: Investigations of titanium-containing materials is important. One of these is the slag obtained by melting an ilmenite concentrate with a determined quantity of coke. This contains 70 to 80% TiO_2 . Normally a chlorine-air mixture, obtained from the electrolysis of $MgCl_2 \cdot NaCl_2$ mixtures, is used for chlorination. The slags were first ground, made up in briquettes, dried and heated at $800^\circ C$ for 8 hours. Chlorination was carried out for 7 hours. Table 2 shows the effect of temperature on chlorination. $700^\circ C$ is the optimum temperature. Further increases in temperature cause films of calcium and magnesium chlorides, and aluminium and silicon oxides which prevent contact of the particles with chlorine. Table 3 shows the influence of carbon content in the briquettes on chlorination. There is an increase of 5% with an increase of carbon content from 15 to 20%. Further increases in carbon content are not recommended. The anode chlorine was compared with concentrated chlorine. Table 4 shows a

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SOV/136-59-9-12/25

Chlorination of a Titanium-Containing Slag

comparison of the degree of chlorination and Table 5 of the rate of chlorination. Concentrated chlorine is better in both cases. Table 6 shows analyses of the commercial $TiCl_4$ produced from concentrated and anode chlorine. There is no difference in impurities. There are 2 figures and 6 tables.

ASSOCIATION: Bereznikovskiy Filial VAMI (Berezniki Branch VAMI) ✓

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NOVAKOVSKIY, V.M.; UKSHE, N.S.

Effect of chromium anhydride¹ on steel corrosion in fused
sodium bisulfate. [Trudy] UNIKHIM no.9:59-70 '61. (MIRA 15:12)
(Steel—Corrosion)
(Chromium oxide)

REZNIKOV, I.L.; BEZUKLADNIKOV, A.B.; UKSHE, N.S.; GLADYSHEV, A.F.; ZEZYANOV, S.P.;
KURMAYEV, R.Kh.

Formation of phosgene during the chlorination of titanium slag in
electric shaft furnaces and chlorinators. Titan i ego splavy no.9:
140-146 '63. (MIRA 16:9)

(Titanium—Metallurgy) (Chlorination)
(Phosgene)

ACC NR: AF0019018

(N)

SOURCE CODE: UR/003/66/032/001/0024/0025

AUTHOR: Lazarev, A. I.; Lazareva, V. I.; Ushko, N. S.

ORG: Institute of New Chemical problems, AN SSSR (Institut novykh khimicheskikh problem Akademii nauk SSSR)

TITLE: Determination of titanium in titanium nitride by photometric titration in a photometric colorimeter

SOURCE: Zavodskaya laboratoriya, v. 32, no. 1, 1966, 24-25

TOPIC TAGS: titanium, titanium compound, photometric analysis, colorimetric analysis, λ_{max}

ABSTRACT: Photocolorimetric analysis is carried out in a FEA-type photoelectrocolorimeter by using two methods. The first method requires special devices: a cell-paralolepipida wooden cell holder, and a mixer. The second method is less convenient but does not require any special arrangement. Titrant is added into a flask containing a titrated solution, the cell is filled with a colored solution, the absorbance is measured with respect to water, the solution is again poured from the cell into the flask, etc. Solutions having an initial absorbance of <1 (better ~ 0.5) should be used with a noticeably high absorption of light and without photo-current intensification. For making the analysis, an 0.3 g sample of Ti nitride is placed into a 100 ml flask, 20 ml of H_2SO_4 solution (1:1) and 2 g of Na nitrate are added, and the mixture is heated. If

Card 1/2

ZENCHENKO, Aleksey Fedorovich [Zenchanka, A.]; UKSUSOV, D. [Uksusau, D.],
red.; SLAVIANIN, I., tekhn.red.

[Let's show you Snov', a new collective farm village] Vos' iano,
novae kalhasnae sialo Snou. Minsk, Dziarsh.vyd-va BSSR, 1959.
31 p. (MIRA 13:4)

(Collective farms)

KLIMOV, Arkadiy Frolovich [Klimau, A.F.]; UKSUSOV, D. [Ukeusau, D.], red.;
SLAVYANIN, I., tekhn. red.

[Words and deeds] Slova i spravy. Minsk, Dziarzh. vyd-va BSSR. Red.
masava-palit. lit-ry, 1960. 35 p. (MIRA 14:10)

1. Sekretar' Semenskogo rayonnogo komiteta Kommunisticheskoy partii
Belorussii (for Klimov).

(Senno District—Seine—Feeding and feeds)

DAYNEKO, Filipp Petrovich [Daineka, P.P.]; UKSUSOV, D. [Uksusau, D.],
red.; SLAVYANIN, I., tekhn.red.

[Our most important potential] Nash halouny rezerv. Minsk,
Dziarzh.vyd-va BSSR, Red.masava-palit.lit-ry, 1960. 40 p.
(MIRA 14:3)

I. Sekretar' Mostovskogo rayonnogo komiteta Kommunisticheskoy
partii Belorussii (for Dayneko).
(Mosty District--Agricultural administration)

DORKIN, Vasilii Grigor'ievich, [Dorkin, V.R.]; UKSUSOV, D. [Uksusau, D.], red.;
SLAVYANIN, I., tekhn.red.

[Selecting and training collective-farm specialists] Padbor
i vykhavanne kalhasnykh kadrau. Minsk, Dsiarzh.vyd-va BSSR,
Red.masava-palit.lit-ry, 1960. 52 p.

(MIRA 14:3)

(Collective farms)

(Agricultural education)

LAGUNOVSKIY, Matvey Ignat'yevich; UKSUSOV, D., red.; YERMOLENKO, V.,
tekhn. red.

[Party organization and the mass-introduction of technological
innovations] Partorganizatsia i massovoe tekhnicheskoe tvorche-
stvo. Minsk, Gos.izd-vo BSSR, 1962. 44 p. (MIRA 15:12)

1. Sekretar' partiynogo komiteta Minskogo motovelezavoda (for
Lagunovskiy).
(Minsk—Motorcycle industry) (Minsk—Bicycles and tricycles)
(Communist Party of the Soviet Union—Party work)

KULIK, P.A.; HEKHSISOV, V.A.

Automatic machine for cutting blanks from crude rubber sections
obtained on worm presses. Kauch.i rez. 21 no.12:16-17 D '62.

(MIRA 16:1)

1. Sverdlovskiy zavod rezinovykh tekhnicheskikh izdeliy.
(Rubber industry—Equipment and supplies)

UKSVÄRAV, R.; TOOMASPOEG, J., otv. red.

[Production cycle and methods for determining its duration in a machinery plant; synopsis of a lecture] Tootmis-
tsükkel ja selle kestuse kindlaksmääramise meetodid ma-
sinahitusettevõttes; loengukonspekt. Tallinn, Tallinna
Polutehniline Instituut, 1963. 35 p. [In Estonian]
(MIRA 17:9)

GLINYANYI, Valeriy Georgiyevich; UKTAM, KOCHEROV, I.V., red.;
SALAKHUTDINOVA, A., tekhn. red.

[For high labor productivity; from the experience of the "Savai"
State Farm, Andizhan Province] Za vysokuiu proizvoditel'nost'
truda; iz opyta raboty soykhoza "Savai" Andizhanskoi oblasti.
Tashkent, Gos.izd-vo UzSSR, 1961. 40 p. (MIRA 15:1)
(Andizhan Province--Agriculture--Labor productivity)

UKUBAYEV, A.U.

Success depends on specialists. Zemledelie 7 no.11:27-30 E '59
(MIRA 13:3)
1. Sekretar' Barankul'skogo raykoma kommunisticheskoy partii
Kazakhstana.
(Akmolinsk Province--Reclamation of land)

KOYRANSKIY, B.B.; UKVOL'BERG, L.Ya.

Maintaining proper atmospheric conditions in industrial buildings. Gig.i san.
no.8:30-39 Ag '53. (MIRA 6:9)

1. Leningradskiy institut gigiyeny truda i professional'nykh zaolevaniy.
(Industrial hygiene)

UKVOL'BERG, L. Ya.

137-58-3-6309

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 267 (USSR)

AUTHORS: Koyranskiy, B. B., Ukvol'berg, L. Ya., Kuksinskaya, T. V.

TITLE: On the Acclimatization to High Air Temperatures (Ob akklimatizatsii k vysokim temperaturam vozdukha)

PERIODICAL: Tr. Yubileyn. nauchn. sessii, posvyashch. 30-letney deyat-sti Gos. n.-i. in-ta gigiyeny truda i profzabolevaniy. Leningrad, 1957, pp 59-66

ABSTRACT: A study of changes occurring in thermoregulatory mechanisms of the human system after prolonged and repeated exposure to high temperatures of fairly still air (0.1-0.2 m/sec) and at relatively small humidity (15-20 percent). An analysis of gas-exchange data revealed that the reaction to high temperature differed from one individual to another; however, certain regular patterns were established. In one type of reaction no changes in gas exchange were observed during a 2-hour exposure to a temperature of 40°C, whereas in another instance a sharp reduction in oxygen consumption was noted. On the strength of the data, indicating that no increases in the rate of gas exchange were observed in the individuals investigated, the authors conclude that the human system is capable of adapting itself to prolonged exposure to high temperatures. Ye. L.

Card 1/1

KOVRANSKIY, B.B., prof.; UKVOL'BERG, L.Ya., kand.med.nauk;
DMITRIYEV, M.V., mladshiy nauchnyy sotrudnik

Influence of air ionization on mental efficiency. Gig. i
san. 26 no.7:33-39 J1 '61. (MIRA 15:6)

1. Iz Leningradskogo instituta gigiyeny truda i
professional'nykh zabolevaniy.

(AIR, IONIZED--PHYSIOLOGICAL EFFECT)
(REASONING (PSYCHOLOGY))

KOYRANSKIY, B.B., prof.; UKVOL'BERG, L.Ya., kand.med.nauk;
DMITRIYEV, M.V., mladshiy nauchnyy sotrudnik; KOLODINA, N.S.,
mladshiy nauchnyy sotrudnik

Influence of air ionization on work efficiency. Gig. i san.
26 no.7:29-33 J1 '61. (MIRA 15:6)

1. Iz Leningradskogo instituta gigiyeny truda i professional'nykh
zablevaniy.

(AIR, IONIZED—PHYSIOLOGICAL EFFECT)
(WORK)

L 53898-65

ACCESSION NR: AP5017368

TR 0040/65/000/10/003/0000

Author: [illegible] PROFESSOR [illegible] (A. Candidate of medical

TITLE: Effect of weak cold stimuli on the body's heat-regulation mechanism

SOURCE: *Soyuzna i stranizna, no. 10, 1964, 21-27*

TOPIC TAGS: experiment animal, medical experiment, human physiology, nervous system, heat biologic effect

Abstract: [illegible]

Summary: [illegible]

...the skin temperature fell, the pulse rate...

1 5309-65
ACCESSION NR: AP501 368

cold.

The observed effect is explained by an inhibitory effect of the centre

orig. art. has 10 tables.

ASSOCIATION: Leningradskiy nauchno-issledovatel'skiy institut (NII) (NII
occupational diseases)

SUBMITTED: 08 Jul 63

ENCL: 00

INT. USE: 00

NO REF SOV: 010

OTHER: 000

JPRS

Card 2/2

L 40163-56

ACC NR: AP6024418

SOURCE CODE: UR/0240/66/000/007/0023/0029

30
B

AUTHOR: Koyranskiy, B. B. (Professor); Ukvol'berg, L. Ya. (Candidate of medical sciences); Dmitriyev, M. V.

ORG: Leningrad Scientific Research Institute of Industrial Hygiene and Occupational Diseases (Leningradskiy nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy)

TITLE: Effect of weak cold stimuli (subnormal temperatures) on human thermoregulation

21

SOURCE: Gigiyena i sanitariya, no. 7, 1966, 23-29

TOPIC TAGS: hypothermia, hypothermia biologic effect, human physiology, human thermoregulation, *BODY TEMPERATURE, TEMPERATURE ADAPTATION, PHYSIOLOGIC PARAMETER, BIOLOGIC ECOLOGY*

ABSTRACT: Three series of experiments were conducted in a meteorological chamber at 0C, 5C, and 8C with 50—60% humidity and 0.1—0.2 m/sec air current. The purpose of these tests was to determine the effect of cold on human thermoregulation. Six or seven healthy subjects aged 20—26 were used in each series. They were dressed in ordinary clothing and remained in a resting position in the chamber until their removal and observation for an hour at 20—23C. Every half hour, the subjects were examined for: 1) cold receptor mobility; 2) cold sensitivity (8C); 3) oxygen consumption; 4) skin temperature in different areas; 5) pulse rate; 6) arterial pressure; and 7) CNS reaction. Each test series lasted 50—60 days and a total of 650 observations were

Card 1/2

UDC: 612.55:612.59

L 40163-66

ACC NR: AP6024418

made. It was found that the temperatures used caused a weak thermoregulatory reaction. This inadequacy of reaction was judged to be the main cause of predominant overcooling in this experiment. Orig. art. has: 5 tables. 0

SUB CODE: 06/ SUBM DATE: 29May65/ ORIG REF: 006/ ATD PRESS: 5049 [CD]

Cord 212 MLP

MURANI, Laslo [Muranyi, Laszlo]; BODA, Domokosh [Boda, Domokos]; KOVACH,
Ferents [Kovacs, Ferenc]; UL, Karoy [UL, Karoly]

Use of controlled respiration in combination with curare for
treating acute convulsive states in childhood. Zhur.nevr.i psikh.
62 '62. (MIRA 15:9)

1. Budapeshtskaya gorodskaya infektsionnaya bol'nitsa "Laslo".
(CURARE) (ARTIFICIAL RESPIRATION) (CONVULSIONS)

UL, V.

Growth of capacity in petroleum refining. Neftoper. i neftekhiz.
no.8:44-45 '64. (MIRA 17:10)

UL', Ye.F.

Results of the survey of the studies of temperature and
seasonal soil freezing in the U.S.S.R. Trudy Inst. merzl.
AN SSSR 17:94-102 '61. (MIRA 15:2)
(Cryopedology)

ULADZIMIRAVA, M.

~~Peace, friendship, and love. Rab. i sial. 33 no.8:12-14 Ag '57.~~
(Moscow--Youth--Congresses) (MLRA 10:8)

ULADZIMIRAVA, M.

Beloved sister of our Il'ich, Rab. i sial. 39 no.2:10 P '63.
(MIRA 16:4)

(Ul'ianova, Maria Il'ichna, 1878-1937)

ULAGA, P.

Education of cadres in the Jasenica Ironworks. p. 293. (NOVA PROIZVODNJA,
Vol. 5, no. 3/4, Sept. 1954. Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions, (SOAL), LC, Vol. 4, No. 4,
Apr 1955, Uncl.

ULAKHOVICH, A.; SUZDAL'TSEV, I.

"Telecommunication

Experience of working with the population. Sov. sviaz. 3, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

ULAKHOVICH, A.P.

The: might of socialist competitions. Vest. svyazi 25 no.4:
18-19 Ap '65. (MIRA 18:6)

1. Nachal'nik Kazanskogo ekspluatatsionno-tekhnicheskogo uzla
svyazi.

STEIN, P.R.; ULAM, S.M.

Nonlinear transformation studies on electronic computers.
Rozprawy matemat 39:1-65 '64.

ZOLOTUKHIN, K.S.; ULAMOV, I.M.

Thermocouples for measuring temperatures of the hot blast and
of the crowns of hot-blast stoves. Stal' 25 no.8:690-691 Ag
'65. (MIRA 18:8)

1. Cherepovetskiy metallurgicheskiy zavod.

YAGUDAYEV, M.D., red.; GORBACHEV, P.P., red.; AKHMEDOV, D.B., red.;
ULAN, F.V., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Research on the utilization of solar energy] Issledova-
niia po ispol'zovaniiu solnechnoi energii. Tashkent, Izd-
vo AN Uzb.SSR. No.1. 1963. 107 p. (MIRA 16:9)
(Solar energy)

TALANIN, Yu.N., otv. red.; BAKLITSKAYA, A.V., red.; ULAN, V.F.,
red.; GOR'KOVAYA, Z.P., tekhn. red.

[Radiation effects in solids] Radiatsionnye efekty v tver-
dykh telakh. Tashkent, Izd-vo Akad. nauk UzSSR, 1963. 164 p.
(MIRA 16:7)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut yadernoy
fiziki.

(Solids, Effect of radiation on)

ULANOV, A.

Ulanov, A. "Seismic Observations in the Far East." Nauchnye Novosti Dal'niago Vostoka, Vladivostok, No. 4/5, 1929, pp. 19-22.

ULANOV, A.

Ulanov, A. "A Contribution to Materials on the Seismology of the Far East."
Izvestia Dal'nevostochnogo Geofizicheskogo Instituta, Vladivostok, No. 1, 1991,
pp. 100-137.

ABRAMOV, V.; ULANOV, A.

Financing the operational expenses of water-supply organizations. Fin.
i kred. SSSR no.6:55-59 Je '53. (MLBA 6:6)

(Agricultural credit)

ULANOV, A.

ABRAMOV, V.; ULANOV, A.

Shortcomings in financing the administrative organs of state
irrigation systems. Fin.SSSR 16 no.9:69-71 S'55. (MIRA 8:12)
(Irrigation--Finance)

ULANOV, A.

SOBOLEVSKIY, L.; ULANOV, A.

Business accounting in composite crews. Nauka i pered. op. v sel'-
khoz. 7 no.5:17-18 My '57. (MLRA 10:6)

1. Nauchnyye sotrudniki Severo-Kavkazskogo filiala Vsesoyuznogo
nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva.
(Collective farms--Accounting)

ULANOV, A.

More on the transfer of irrigation systems to a business accounting
basis. Fin. SSSR 23 no.2:49-51 F '62. (MIRA 15:2)
(Kuban--Irrigation farming--Finance)

ULANOV, A.

Supply irrigation systems with norms for working capital. Fin.
SSSR 37 no. 3243-46. Mr '63. (MIRA 16:4)
(Uzbekistan--Water resources development--Finance)

GOLUBENKO, V.; KALININ, N., pensioner (Moldavskaya SSR); ULANOV, B.,
traktorist (Stavropol'skiy kray)

Readers relate, advise and criticize. Sov. profsoiuzy 19 no.6:
16-17 Mr '63. (MIRA 16:3)

1. Inspektor obshchestvennogo trgovogo otdela pri Staro-Oskol'skom
gorodskom sovete, Belgorodskaya obl. (for Golubenko).
(Labor and laboring classes)

ADDITIONAL INFORMATION

Technical sciences, Docent); Ulanov, B.

TITLE: Residual stresses during end milling of heat resistant and titanium alloys
SOURCE: Vestnik masinostroyaniya, No. 11, 1974, p. 11-12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

one cutter made of VK6M (R9K10 for alloy EI766) were experimentally investigated. Specimens (6 x 20 x 70/mm) were machined over a range of cutting conditions (along the axis of the specimen to obtain the axial residual stresses, and stresses perpendicular to the axis to obtain tangential stresses). The residual stresses as a function of depth of cut, cutting speed, and feed rate were determined. The results of the bending of the longitudinal specimens were also presented. Residual stresses were obtained for a range of cutting conditions: cutting speed 100, 150, 200 (VPS) and feed rate 0.1, 0.2, 0.3 (mm/rev).

L 23028-65

ACCESSION NR: AP4049499

(VT6) mm/tooth; depth of cut $t = 1.0$ (EI766) -- 3.5 (OT4) mm; tool wear $h_3 = 0.05$ (EI766) -- 0.5 (VT6) mm, and cutting tool angle $\gamma = 10^\circ$ (OT4) -- 20° . It was found that: alloys VT6 and OT4 had essentially compressive residual stresses, while more plastic materials (KHL8N10T) had tensile residual stresses; the compressive residual stresses were $1.5-2.5$ times and the tensile residual stresses were $1.5-2.5$ times smaller than the yield strength of the materials.

Work was done in the Laboratory of Metal Cutting, Institute of Metalworking, Academy of Sciences of the USSR, Moscow, U.S.S.R.

Submitted by: [illegible]

SUBMITTED: 00

RECEIVED: [illegible]

OTHER: 000

Card 2/2

KRUGLYAKOVA, K.Ye.; ULANOV, B.P.; ZYBINA, D.L.; EMANUEL', N.M.

Kinetic characteristics of the effect of chemical mutagens (ethyl-
enimine derivatives) on DNA. Dokl. AN SSSR 161 no.3:718-720 Mr '65.
(MIRA 18:3)

1. Chlen-korrespondent AN SSSR (for Emanuel').

ZHIL'TSOVA, V.M.; KRUGLYAKOVA, K.Ye.; ULANOV, B.P.; GINDIN, L.G.

Kinetics of DNA denaturation following ultraviolet irradiation.
Dokl. AN SSSR 164 no.1:198-200 S '65. (MIRA 18:9)

1. Vsesoyuznyy zaachnyy politekhnicheskiy institut i Institut
khimicheskoy fiziki AN SSSR. Submitted March 25, 1965.

ACC NR: AP6027739

SOURCE CODE: UR/0020/66/169/004/0965/0966

AUTHOR: Ulanov, B. P.; Li'yashenko, B. N.; Tashpulatov, R. Yu.; Engel'gardt, V. A.
(Academician)

ORG: Institute of Physical Chemistry, AN SSSR (Institut khimicheskoy fiziki AN SSSR);
Institute of Epidemiology and Microbiology im. N. F. Gamaleya, AMN SSSR (Institut
epidemiologii i mikrobiologii AMN SSSR)

TITLE: Electron micrographic studies of phage 1F7 DNA

SOURCE: AN SSSR. Doklady, v. 169, no. 4, 1966, 965-966

TOPIC TAGS: electron microscope, bacteriophage, DNA, molecular structure

ABSTRACT:

Sedimentation analysis and studies of fragmented phage DNA reveal the DNA of phage 1F7 to be a closed circular polynucleic chain with a molecular weight between $1.6-1.7 \times 10^6$ units, with single-stranded DNA. The authors are convinced that circular stranded DNA is not an artifact and present preliminary data to support their view. [WA-50; CBE No. 11]

SUB CODE: 06/ SUBM DATE: 16Nov65/ ORIG REF: 002/ OTH REF: 007

Card 1/1

UDC: 576.858.579

ULANOV, F. I.

USSR/General Problems - Problems of Teaching

A-3

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33614

Author : Ulanov, F. I.

Institution : None

Title : Purpose and Construction of Ballistic Pistol

Original

Periodical : Sb.: V Pomoshch' Uchitelya, No 11, Mal'chik, Kabardinsk Book Publishing House, 1956, 96-108

Abstract : Description of an instrument intended for the demonstration of the movement of bodies thrown at an angle with the horizontal and horizontally.

Card 1/1

ULANOV, F. S.

ULANOV, F. S. -- "The Agricultural Engineering of Foxtail Millet in the Region of Irrigated Agriculture of Alma-Ata Oblast." Min Higher Education USSR. Kazakh State Agricultural Institute. Alma-Ata, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences.)

So; Knizhaya Letopis' No 3, 1956

ULANOV, G.

Repairing anvil blocks of drop hammers at the Kharkov
Tractor Plant. Mashinostroitel' no.12:14 D '63.

(MIRA 17:1)

... G. M.

PA 13/49T31

USSR/Electronics
Regulators; Electronic
Regulators, Voltage

Jul/Aug 48

"Proceedings in the Institute of Automatics and
Telemechanics, Academy of Sciences USSR," G.M.
Ulanov, 1 1/2 pp

"Avtomatika i Telemekh" Vol IX, No 4

Summarizes first year of seminar on theory of
automatic regulation. Mentions titles of some
papers, giving names of authors. Seminar is respon-
sible for 40% of the world total of articles on the
theory of automatic regulation.

13/49T31

ULANOV, G. M.

USSR/Electronics
Regulators, Electronic
Circuits, Electronic

May/June 1948

"Maximum Deviation of the Regulated Quantity in a
Transition Process," G. M. Ulanov, Inst of Automatics
and Telemech, Acad Sci USSR, 8 pp
"Automat i Telemekhan" Vol IX, No 3

Solves problem of evaluating maximum deviation of
regulated quantity in linear systems of automatic
regulation by means of du Hamel's integral. Shows
values of the limits of transition process, which

USSR/Electronics (Contd)

May/June 1948

arises in the system when it is disturbed by a single
force applied suddenly. Quotes examples of calcula-
tion of upper limit of maximum deviation of regu-
lated quantity in some dynamic systems, and in
particular, the concrete system of automatic control
of pressure charging in aero-engine. Submitted 30
May 1947.

76716

ULANOV, G. M.

USSR/Electricity - Automatic Control Systems

Card : 1/1

Authors : Ulanov, G. M.

Title : Automatic-control system and servo-systems, operating on open and closed cycles and the invariance principle

Periodical : Dokl. AN SSSR, 96, Ed. 5, 979 - 981, June 1954

Abstract : After a brief analysis of the basic principles used in the design of various automatic-control and servo-systems, specifically the open and closed cycle system, the author discusses a method based on the invariance principle applied to the above system, in order to reduce to a minimum the dynamic error of the system's operation. The author demonstrates that the conditions, for designing a system operating at a highest degree of accuracy, are necessarily the same conditions which must be adhered to when applying the principle of invariance. A typical layout of the above-mentioned automatic control system is shown, and a mathematical formulation of the invariance principle, as applied to this layout, is offered. One diagram; 12 references, 4 of which are USSR references (1940-1953)

Institution :

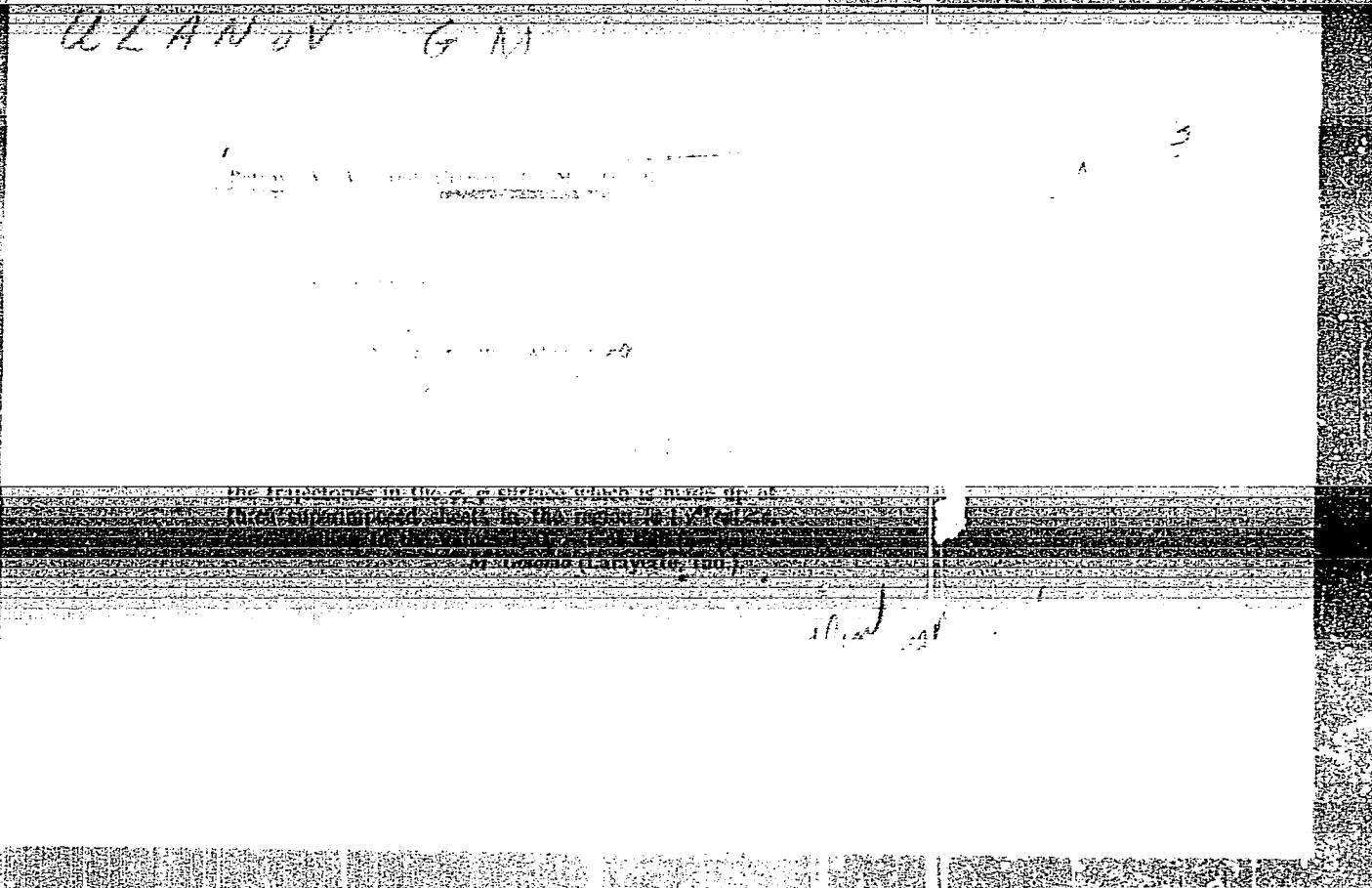
Presented by : Academician, V. S. Kulebakin, March 13, 1954

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Ulanov, G. M., "The Maximal Deviation of a Controlled Value in the Transition Process", Avtomatika i telemekhanika, Vol 9, No. 3, pp 168-175, 2 illustrations, bibliography, 6 titles.

Jan

Ulanov



ULANOV, G. M.

USSR/ Engineering - Servo-mechanisms

Card 1/1 Pub. 22 - 12/62

Authors : Ulanov, G. M.

Title : On the theory of dynamic precision in the non-linear system of indirect regulation

Periodical : Dok. AN SSSR 102/3, 465 - 467, May 21, 1955

Abstract : Methods of determining dynamical precision, i. e., the maximum deviation, from theoretical figures, in a non-linear system of indirect regulation are discussed. In particular the application of the method of poly-phylous phase plane to the problem is outlined. Eleven USSR references (1887-1955). Diagram.

Institution :

Presented by: Academician V. S. Kulebyakin, November 4, 1954

ULANDV G.M.

126/1110

621-52

On the Maximum Deviation of a Non-Linear Automatic Control System

Dokl. Akad. Nauk

(Sov. Acad. Sci.) 1971, 7:1-7:2

62

G.M. Ulanov

U.S.S.R.

Department of a

174

SOV/124-57-9-9945

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 9, p 10 (USSR)

AUTHOR: Ulanov, G. M.

TITLE: On Some Applied Methods of Investigation of Linear Automatic-control Systems With Variable Parameters (O nekotorykh prikladnykh metodakh issledovaniya lineynykh sistem avtomaticheskogo regulirovaniya s peremennymi parametrami)

PERIODICAL: Sb. statey po avtomatike i elektrotekhn. Moscow, AN SSSR, 1956, pp 42-62

ABSTRACT: Some examples of automatic-control systems are presented. Their transient processes are described by systems of linear equations with variable coefficients. A stability condition is obtained for the obvious solution of the equation

$$\sum_{i=0}^n (a_i + b_i t) \frac{d^i x}{dt^i} = 0 \tag{6}$$

consisting in $\text{Re } S_i < 0$ ($i=1, \dots, n$) where S_1, \dots, S_n are the roots of the equation

$$b_n s^n + \dots + b_1 s + b_0 = 0 .$$

Card 1/2

SOV/124-57-9-9945

On Some Applied Methods of Investigation of Linear Automatic-control (cont.)

As an illustration of the possible application of Lyapunov's second method, the problem of the stability of the system

$$\frac{dx}{dt} = y, \quad \frac{dy}{dt} = -b(t)x + ay$$

is investigated by an approach which the author attributes to M. A. Ayzerman. Actually, the first results obtained by an application of Lyapunov's method are found in N. G. Chetayev's book "Ustoychivost' dvizheniya" (Stability of Motion) and in other works. References thereto do not appear in the paper. The possibility of applying the Laplace transform is demonstrated on the example of the equation

$$\frac{d^2\phi}{dt^2} + \frac{1}{t} \frac{d\phi}{dt} - k^2\phi = 0 \quad (38)$$

Further on, the findings of V. V. Solodovnikov and Ye. L. Chernov are explained. These are based on an application of the convolution theorem. In conclusion the author shows the possibility of the determination of a transient process by means of an impulse function based on the Duhamel integral. The paper does not contain any new results.

B. S. Razumikhin

Card 2/2

PETROV, B.N.; PETROV, V.V., kandidat tekhnicheskikh nauk; ULANOV, G.M.,
kandidat tekhnicheskikh nauk.

Conference on the theory of automatic control. Vent, AN SSSR 26 no.8:
60-62 Ag '56. (MLRA 9:9)

1. Chlen-korrespondent AN SSSR (for Petrov, B.N.)
(Liblice, Czechoslovakia--Automatic control--Congresses)

SOV/124-58-5-4993

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 8 (USSR)

AUTHORS: Petrov, B.N., Ulanov, G.M.

TITLE: Aspects of the Theory of Combined Control (Voprosy teorii kombinirovannogo upravleniya)

PERIODICAL: Sessiya AN SSSR po nauchn. problemam avtomatiz. proiz-
va. Nauchno-tekhn. problemy avtomatizirov. elektroprivoda.
Moscow, AN SSSR, 1957, pp 191-209

ABSTRACT: What is meant by "combined control" is the blending in one system of the ordinary closed loop (displacement control) with an additional open loop (perturbation or guidance control). Combined control makes it possible to achieve invariance and at the same time eliminate the forced error component of automatic systems. Mathematical relationships are given for the problem of ϵ invariance in linear combined-control systems. A harmonic-balance method is used to investigate the effect of invariance in sinusoidally perturbed nonlinear systems. The effect of invariance in a relay servo system is investigated by the phase-plane method. Included is an example of investigation of the effect of invariance in a nonlinear automatic-control system by means of an electronic analog simulator. Ye.P. Popov

Card 1/1

1. Control systems--Theory

ULANOV, G.M.

TOPCHIIYEV, A.V., akademik, glavnyy redaktor; PETROV, B.N., otvetstvennyy redaktor; AYZERMAN, M.A., redaktor; BERNSHTEYN, S.I., redaktor; VASIL'YEV, R.V., redaktor; IVANOV, V.I., redaktor; KARAGODIN, V.M., redaktor; KOGAN, B.Ya., redaktor; LETOV, A.M., redaktor; PORTNOV-SOKOLOV, Yu.P., redaktor; SOLODOVNIKOV, V.V., redaktor; ULANOV, G.M., redaktor; TSUPKIN, Ya.Z., redaktor; KRUTOVA, I.N., redaktor; ASTAF'YEVA, G.A., tekhnicheskiiy redaktor

[A session of the Academy of Sciences of the U.S.S.R. on scientific problems in automatization of production, October 15-20, 1956; principal problems of automatic control] Sessia Akademii nauk SSSR po nauchnym problemam avtomatizatsii proizvodstva, 15-20 oktiabria 1956 g.; osnovnye problemy avtomaticheskogo regulirovaniia i upravleniia. Moskva, 1957. 334 p. (MIRA 10:5)

1. Adakemiya nauk SSSR. 2. Chlen-korrespondent AN SSSR. (for Petrov)
(Automatic control)

ULANOV, G. M.; PETROV, V. V. (Cands. Tech. Sci.)

"Condition and Problems of the Study of the Dynamics of Non-linear Systems with the Help of Phase Space and Questions of Dynamic Precision,"

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Avtomatika i telemekhanika, No. 2, p. 182-192, 1957.

9015229

ULANOV, G. M.; PETROV, V. V. (Cand. Tech. Sci.)

"Research on Combined Systems of Automatic Regulation with Application of Electro-hydro Drive,"

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Avtomatika i telemekhanika, No. 2, p. 182-192, 1957.

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