

PETUNOV, S. P.
PHASE X

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 737 - X

BOOK

Call No.: AF389154

Author: KARGIN, S. I., PETUNOV, S. P., AND MITROPOL'SKIY, I. S.

Full Title: PRODUCTION OF NITRIC ACID

Transliterated Title: Proizvodstvo azotnoy kisloty

PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing house of
Chemical Literature (Goskhimizdat)

Date: 1949

No. pp.: 335

No. of copies: 5,000

Editorial Staff: Thanks are expressed to V.P. Markov, Kand of Chem. Sci.,
for valuable remarks.

PURPOSE AND EVALUATION: This book is intended as a manual for the course
in nitrogen fixation in chemical technical schools. It may also be useful
to engineers working in the nitrogen industry and allied fields. This
book may interest American chemists because no monograph in the
production of nitric acid has been published in English since the early
thirties. This clearly-written book contains much useful information.
It is based exclusively on the work of Soviet scientists, in particular
on the 1949 monograph Tekhnologiya azotnoy kisloty (Technology of Nitric
Acid) by V. I. Atroshchenko and S. I. Kargin (See: AID 667 - X).

NOTE: See card for KARGIN, S. I. for pages 2-10 of the abstract.

PETUNOV, S. P.

Proizvodstvo Azotnoy Kisloty (Production of Nitric Acid, by) S. P. Petunov,
Kargin, S. I. u I. S. Mitropol'skiy. Moskva. Goskhimizdat, 1949.
335 P. Diagrams., Tables.

SJ: N/5

711.23

.K1

1. BEREKHTIN, A. S., Docent, PETUNOV, V. D., Min. Engr.
2. SSSR (600)
4. Electricity in Mining
7. Review of YU. A. Mikheyev and I. L. Faybisovich's book "Calculating the cable network of a mine section."
Ugol' 27 No. 11, 1952
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. The following information is being furnished to you for your information:

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PETUNOV, V.D., insb.

Analyzing hoisting machine efficiency in Kuznetsk Basin mines. Izv.vys.
ucheb.zav.; gor.zhur. no.7:104-111 '58. (MIRA 12:3)

1. Tomskiy politekhnicheskiy institut.
(Kuznetsk Basin--Mine hoisting)

PETUNOV, V.D., inzh.

Adjustment of magnetic mine hoisting machinery control stations.
Izv.vys.ucheb.zav.; gor.zhur. no.10:123-128 '58.

(MIRA 12:8)

1. Tomskiy politekhnicheskiy institut.
(Mine hoisting) (Automatic control)

1. BEKHTIN, A. S., Docent, PETUNOV, V. D., Min. Engr.
2. SSSR (600)
4. Mikheev, Iu. A
7. Review of Yu. A. Mikheev and K. L. Faybisovich's book "Calculating the cable network of a mine section."
Ugol' 27 No. 11, 1952

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

PETUNOVA, A.A.; MARTINSON, E.E.

Determination of the herbicide alazone in plant tissues by the colorimetric method. Fiziol. rast. 10 no.6:729-733 1963. MIRA 17:1

1. All-Union Plant Protection Institute, Leningrad.

SABUROVA, Polina Vladimirovna; PETUNOVA, Angelina Aleksandrovna; REUTSKAYA,
O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[Use of herbicides in agriculture] Primenenie gerbitsidov v sel'skom
khoziaistve. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 75 p.
(Herbicides) (MIRA 13:7)

PESTENOV, A. A.: Master Pich Gek (dies) -- "The use of mineral fertilizers on cereals plantings, and an investigation of their effect on cultivated crops and woods". Leningrad, 1953. 48 pp. (All-Union Order of Lenin (Order of Lenin), V. I. Lenin, All-Union Scientific Inst. of Plant Protection), Moscow (SU, U.S.S.R., 1953, 1954).

SABIR, I.Y.; PETENKO, A.A.

Physiological and biochemical causes of the selective effect of
triazine herbicide (2-chloro-4,6-bis-ethylamine sym-triazine)
1961. AN SSSR 160 no.5:1215-1217 F 165.

UMIA 181.

1. Vsesoyuznyy institut zashchity rasteniy. Submitted July, 1961.

PETUNOVA, A.A.

Using mineral oils for the control of weeds on coriander fields.

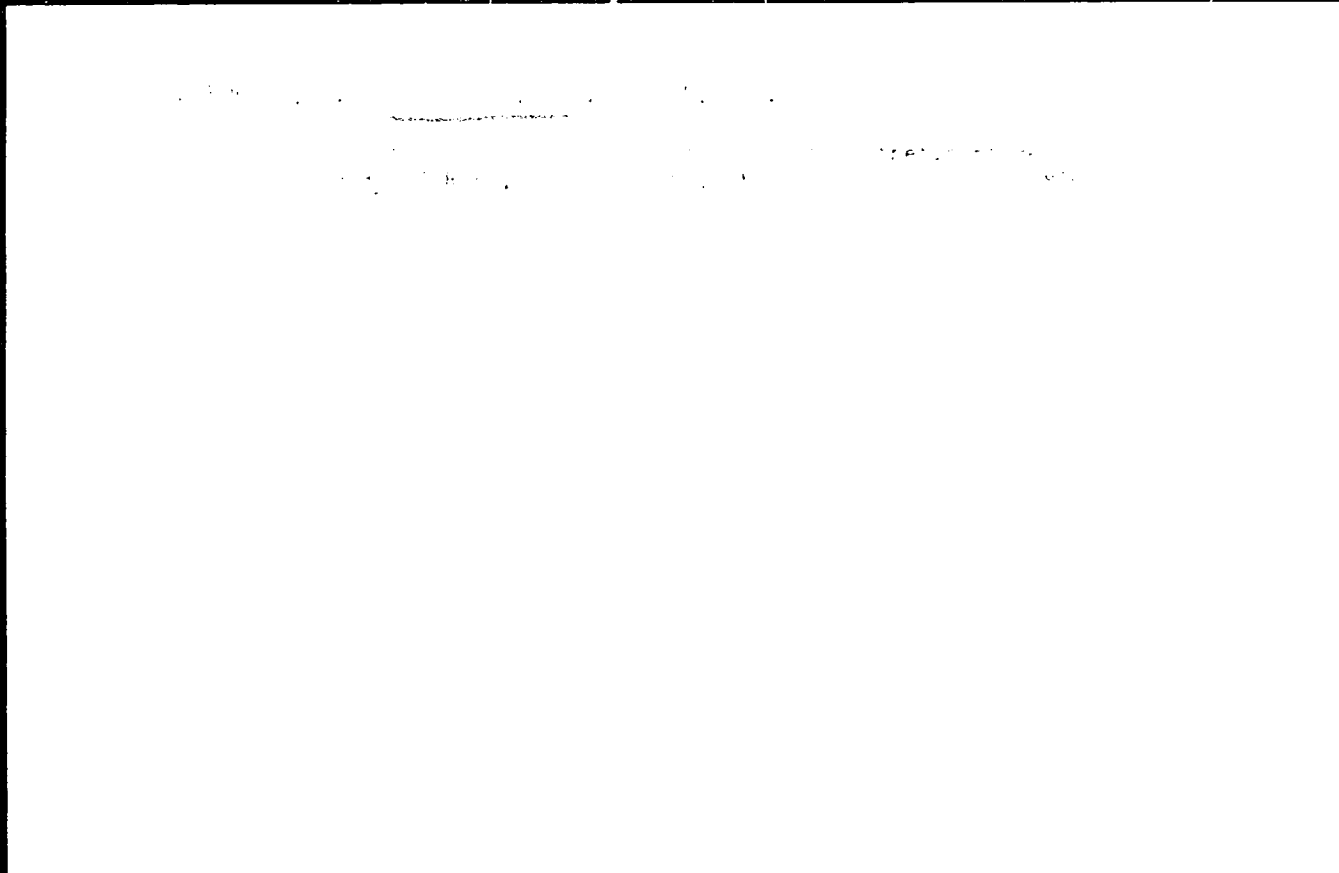
Trudy VIZR no.11:152-165 ' 58.

(MIRA 12:1)

(Coriander) (Herbicides)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240710011-4



APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240710011-4"

AMATUNI, N.L.; GORBATSUK, B. L.V.; MYLEN, V.V.; PETUKOVA, L.I.

Absolute determination of the e.n.f. value of standard normal
elements on electrochemical cells using the absolute method. Nov. 1964.
Issl.rab.pozn. VNIIM no.4:1-3 '64. (MIRA 18:3)

GORBATSEVICH, S.V.; INDRIK, A.N.; PETUNOVA, A.I.

Standards of electrical resistance units. Trudy inst. Koz. stand., ser
1 izm. prib. no.39:5-11 '60. (MIRA 14:3)
(Electro resistance--Standards)

PETUR, A

3557. Petur, A. and Kurnik, L. Design of wooden beams subjected to bending, with regard to the elastic properties of wood, *Acta Techn. Hung. Budapest* 7, 3-4, 257-274, 1953.

Problem of bending of wooden beams is treated by recognizing the nonlinear elastic stress-strain properties and unsymmetrical strength properties in tension and compression. A semiempirical design chart is presented for prediction of the failure moment of a beam of solid or flanged section, based on the ratio of tensile to compressive strength of the material.

An approach of this type is more rational than conventional modulus-of-rupture and form-factor method, appears to be easier to apply, and limited experimental data indicate better accuracy.

P. K. Sandorff, USA

① JP SH

PETUR, A., FURUTZ, I.

"Design of Wooden Beams Subjected to Bending With Regard to the Elastic Properties of Wood." In English. p. 258 (AZA TECHNIKA, Vol. 7, No. 3/4, 1953) Budapest, Hungary

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

PETUR, Alajos, dr.

The television antenna of Szentes. Magyar nyelv és irodalom 10 no.1:12 '61.

PETER HAZLE

How did Page 141's actions also investigate the author's belief that
20 12.550-959 24 W 65.

PETURCHEV, A., inzh.

Building of the Batak-Debrashtitsa water power system, prime concern
of the entire nation during the second five-year plan. Tekhnika
Bulg 3 no.3:3-5 Mr '54.

PETUSHENKO, Yu.N.

Creative cooperation. Bum.prom. 35 no.10;26 O '60. (MIRA 13:10)

1. Glavnyy mekhanik Korsakovskoy fabriki kartonnykh yashchikov,
Sakhalinskaya oblast'.

(Korsakov--Paper box industry)

PETUSHINOV, M.A., kand.med.nauk (Chita, ul. Babushkina, d. 64, kv. 20)

Subserous lipoma of the transverse colon. Vest.khir. 89
no. 9:123-125 S '62. (MIRA 15:12)

1. Iz gosspital'noy khirurgicheskoy kliniki (zav. - prof. R.P.
Postnikov) Chitinskogo meditsinskogo instituta (rektor -
dotsent Yu.D. Ryzhkov).
(COLON (ANATOMY)—TUMORS)

USSR/General Division. Unprocessed. Original Information. A-1

Abs Jour : Ref Zhur-Biologiya, No 4, 1957, 1957
Author : I. I. Sharov, V. A. Lutskevich, V. E. Gerasimov
Inst :
Title : First Conference of Surgeons of the City of Kuybyshev (3-5 July 1957)
Orig Pub : Vestn. Khirurgii, 1957, 19, No 2, 11-12
Abstract : No abstract

Card 1/1

Petushinov, M.A.

SHAFER, I.I.(Leningrad); PETUSHINOV, M.A. (Leningrad); TEPLOVA, J.N.
(Leningrad)

First Conference of Surgeons of the R.S.F.S.R. in Kuybyshev, held
on July 3-6, 1956. Vest.khir. 78 no.2:149-153 P '57. (MLRA 10:3)
(SURGERY)

PETUSHIN V, M. A.

PETUSHIN V, M. A. -- "The Changes of the Elements of the Intramural Nervous System of the Appendix under Various Forms of Acute and Chronic Appendicitis." Min. Public Health RSFSR, Leningrad Hygienic Med Inst, Leningrad, 1956. (Dissertation for the Degree of Candidate in Medical Sciences.)

KNIZHNAYA LITOFIS
No. 41, October 1956

PETUSHINOV, M.A. (Leningrad, 144, Kirillovskaya ul. d.14)

Changes in the nerve apparatus of the appendix in the so-called
catarrhal appendicitis [with summary in English, p.160] Vest.khir.
77 no.8:79-90 Ag '56. (MLR 9:10)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. P.N.
Napalkov) i kafedry gistologii (zav. - prof. S.I. Shchelkunov)
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta
(APPENDICITIS, pathol.
disintegration of nerve cells in catarrhal appendicitis)

PETUSHKO, P. I.

KISLYAKOV, K.S., laureat Stalinskoy premii, tokar'; PETUSHKO, P.I., inzhener;
DOMSKOY, Ya., redaktor; KUCHERSKIY, I., tekhnicheskiy redaktor.

[Entire brigades of excellent workers] Skvoznye brigady otlichnogo
kachestva. [Kharkov] Khar'kovskoe knizhno-gazetnoe izd-vo, 1952.
36 p. (MLBA 8:2)

1. Khar'kovskiy turbogeneratorsnyy zavod imeni S.M.Kirova (for Kislyakov).
(Kharkov---Turbines)

PHASE I BOOK EXPLOITATION SOV/4266

Progressivnaya tekhnologiya i vysokoproizvoditel'nyy instrument; opyt KhTGZ imeni Kirova (Advanced Processing and Highly-Productive Tools; Experience of the Kharkov Turbogenerator Plant imeni Kirov) Moscow, Mashgiz, 1960. 155 p. 5,500 copies printed.

Reviewer: P. Ye. Dudnik Engineer; Ed.: M. S. Soroka; Chief Ed. (Southern Division, Mashgiz): V. K. Serdyuk, Engineer.

PURPOSE: This booklet is intended for technical personnel and innovators.

COVERAGE: The booklet discusses the experience of innovators and technical personnel in introducing advanced processes and machine tools at the KhTGZ imeni Kirov (Khar'kov Turbogenerator Plant) for the manufacture of steam turbine rotors, for tapping coarse threads, processing steam turbine blades. Experience in introducing artificial cooling for interference fits, and in mastering the manufacture of welded steam-turbine rotors is described. The

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Advanced Processing (Cont.)

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booklet covers the advances in technology developed and introduced at the factory in the last few years. No personalities are mentioned. No references are given.

TABLE OF CONTENTS:

Foreword

Repin, M. N. Development in Turbine Manufacturing Processes at the Khar'kov Turbine Plant imeni Kirov	5
Rubinshteyn, S. Ye., and P. N. Pestushko. Some Special Features in the Processing of Steam Turbine Rotors	13
Pestushko, P. N., and N. I. Bondar'. Machine Tapping of Large Diameter Internal Threads	49
Vol, L. A. Fitting of Keyways in Steam Turbine Disks and Shafts	71

Card 2/3

S/188/61/000/006/007/007
B108/B102

AUTHORS: Gadzhokov, V. I., Ietushkov, A. A., Estulin, I. V.

TITLE: Device for β - γ correlation measurement with recording of the circular polarization of the gamma quanta

PERIODICAL: Moscow Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 6, 1961, 76 - 82

TEXT: The circular polarization of the gamma quanta from a beta-decay depends on the angle Θ between the departing β -electron and gamma quantum:

$W(\Theta) = 1 + A \frac{v}{c} \cos \Theta$, where v = electron velocity. The circular polarization can be observed in β - γ -coincidences. The authors designed a device for the measurement of the asymmetry coefficient A in the β - γ correlation. The circular polarization of the gamma quanta is detected by measurement of the Compton scattering. The direction of polarization of the electrons in the scatterer is frequently changed in order to remove the slow drift of the electronics and of the radiation detectors luminescence spectrometers. The electrons from the radioactive source

Card 1/4

Device for β - γ correlation...

S/158/61/000/006/017/017
R108/B102

are recorded by means of a 2-mm thick anthracene crystal; the gamma quanta are scattered from a magnetic cylinder and strike a 4-by-4-mm NaI(Tl) crystal. The coincidence circuit has a time resolution of $3 \cdot 10^{-8}$ sec. An autocommutation unit controls the automatic operation of the device. The numbers of overall ($N_{\text{source}} + N_r$) and of random coincidences (N_r) at the specific directions of the magnetic field in the scatterer are stored in the respective subcounters. Detailed descriptions of the rapid-operation pulse analyzer and of the autocommutation unit used in the described device are given. The automatic operation of this device reduces the fluctuations of the partial counts and simplifies evaluation. The device is very useful in work with short-lived radiation sources. Yu. V. Gaponov (ZhETF, 36, 193, 1959) and A. S. Melioranskiy (PTE, no. 3, 44, 1961) are mentioned. There are 3 figures and 7 references: 5 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: Hartwig G., Schopper H. Phys. Rev. Lett., 4, 293, 1960.

Card 2/4

Device for, - correlation...

Fig. 1. Schematic diagram of a device for the measurement of γ -correlations with recording of the circular polarization of the gamma-ray.

ASSOCIATION: NIIYaF 147

SUBMITTED: April 14, 1961

Fig. 1. Schematic diagram of a device for the measurement of γ -correlations with recording of the circular polarization of the gamma-ray. Legend: (1) cathode follower and pulse shaping, (2) 6XU-13 (FNU-13) photomultiplier, (3) light pipe, (4) magnet, (5) scatterer, (6) anthracene, (7) source, (8) pulse analyzer, (9) amplifier, (10) coincidence, (11) autocommutation, (12) counters, (13) 60K source + 20K , (14) magnetic control, (15) mains, 50 cps, (16) 60V (11-64) converters.

Card 3/4

MELIORANSKIY, A.S.; PETUSHKOV, A.A.

Coincidence measuring the number of true and random coincidences simultaneously. Prib. i tekhn. eksp. 6 no.1:104-105 Ja-F '61.
(MIRA 14#9)

1. Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.
(Nuclear counters)

PETUSHKOV, A.A.; ESTULIN, I.V.

Measuring the circular polarization of the gamma quanta emitted
in β -decay of Nd ¹⁴⁷. Zhur. eksp. i teor. fiz. 40 no.1:72-75 '61.
(MIRA 14:6)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo
universiteta i Institut obshchey i neorganicheskoy khimii AN SSSR.
(Neodymium--Decay) (Gamma rays)

S/056/62/042/005/004/050
B125/B108

AUTHORS: Petushkov, A. A., Estulin, I. V.

TITLE: Nuclear matrix elements in the β -transition of La^{140}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 5, 1962, 1166 - 1170

TEXT: An experimental arrangement with automatic measuring described in an earlier paper (A. A. Petushkov, I. V. Estulin, ZhETF, 40, 72, 1961) was used to measure the angular $\beta\gamma$ -correlation $A(\theta, \phi)$ in La^{140} by separation of the circular polarization of the 1.6 Mev γ -quanta and of the electrons of the β -spectrum with a maximum energy of 2.2 Mev. The coincidences of scattered γ -radiation (initial energy 1600 kev) and of β -electrons (energies W from $3.9 m_0 c^2$ to $5.3 m_0 c^2$) were measured. The mean scattering angle $\bar{\theta}$ of γ -rays was 50° , the mean angle $\bar{\phi}$ of emission of β -particles was 160° . With $W = 4.2$; $(\bar{v}/c) = 0.97$; $|\cos \theta \cdot d\sigma_c/d\sigma_0| = 0.39$, the result $A(\bar{W} = 4.2; \bar{\theta} = 160^\circ) = 0.15 \pm 0.09$ follows from the measuring effect $\varepsilon = (-0.90 \pm 0.53)\%$. From this value of ω and from the experimental

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Nuclear matrix elements in the...

S/056/62/042/005/004/050
B125/B108

value $B = 0.078 \pm 0.023$ with the correction coefficient $C = 2.2 \pm 0.4$, the following absolute values of nuclear matrix elements are obtained:

$$B_{13}/R = (5.1 \pm 0.26) \cdot 10^{-2}, \quad \langle \vec{r} \rangle / R = 4.5 \cdot 10^{-2}, \quad \langle i[\vec{\sigma}\vec{r}] \rangle / R = 7.25 \cdot 10^{-2};$$

$i\vec{r} = 3.1 \cdot 10^{-2}$, where R is the radius of the nucleus in units of the Compton electron wavelength. After summarizing appreciation of experimental data and present results, the large value of $\log ft$ in the β -transition of La^{140} is not explained by those selection rules according to which the matrix elements of the first rank $\langle \vec{r} \rangle$ and $\langle i[\vec{\sigma}\vec{r}] \rangle$ are small as compared with the matrix element B_{13} . This large value follows from the shortening effect as a result of the selection of the phases of the matrix elements. To determine the nuclear matrix elements of the La^{140} β -transition accurately, experimental errors must be reduced considerably. There are 3 figures. The most important English-language reference is: T. Kotani, Phys. Rev., 114, 795, 1959.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of Moscow State University)

Card 2/3

Nuclear matrix elements in the...

S/056/62/042/005/004/05C
B125/B108

SUBMITTED: November 25, 1961

Card 3/3

ACCESSION NR: AP4017157

S/0053/64/082/002/0253/0285

AUTHORS: Estulin, I. V.; Petushkov, A. A.

TITLE: Circular polarization of Gamma quanta emitted by atomic nuclei following Beta decay

SOURCE: Uspekhi fizicheskikh nauk, v. 82, no. 2, 1964, 253-285

TOPIC TAGS: Gamma quanta, circular polarization, Gamma quantum polarization, Beta decay, parity nonconservation, Beta transitions, allowed Beta transitions, singly forbidden Beta transitions, Gamma polarization measurement

ABSTRACT: This is a review of recent theoretical and experimental papers. The theoretical relations which are the basis of the experiments on the circular polarization of γ rays emitted after β decay are first presented. These include the angular correlation function between the electron (or positron) and the circular polarization,

Card 1/3

ACCESSION NR: AP4017157

the coefficients that depend on the characteristics of the transition, and the degree of circular polarization. The experimental procedures for measuring circular polarization of γ quanta are reviewed. A survey is then presented of the experimental data obtained through the middle of 1963 for both allowed and singly-forbidden β transitions. The experiments yield the absolute values and the phase relations of nuclear matrix elements for many nuclei. The need is mentioned of improving the accuracy of the data and for theoretical calculations of the nuclear matrix elements. The section headings are: 1. Introduction. 2. Fundamental theoretical relations. a. Circular polarization and character of the radiative transition. b. Circular polarization in allowed β transitions. 3. Measurement of circular polarization of γ quanta. 4. Survey of experimental data. a. Allowed β transitions. b. Singly forbidden β transitions. Orig. art. has: 12 figures, 23 formulas, and 12 tables.

ASSOCIATION: None

Card: 2/3

L 42419-65 ENG(j)/EWT(m)/EPF(c)/EPR/ETP(t)/ETP(b) Pr-4/ps-4 IJP(c) JD
ACCESSION NR: AP5008775 S/0240/65/000/003/0042/0048

AUTHOR: Sobol', N. V.; Breger, A. Kh.; Petushkov, A. A.

TITLE: Materials used for calculating air exchange in rooms with powerful gamma-radiation units

SOURCE: Gigiyena i sanitariya, no. 3, 1965, 42-48

TOPIC TAGS: gamma radiation, air exchange, radiation environment

ABSTRACT: The formation of ozone and nitrogen oxides is the basic permanent factor which must be considered when calculating air exchange during irradiation. The authors give experimental data collected during the calculation of air exchange in rooms used for powerful Co^{60} units (K-6000, GURKh-40000, TsNIIKOP). The air was analyzed for ozone content as well as nitrogen oxides and nitrogen dioxide. After irradiation under conditions which permitted no air exchange, the amount of nitrogen dioxide in the total oxides present in the irradiated air ranged from 36 to 83%. The deviation from the average nitrogen dioxide concentration was as much as 50% in individual cases, but for the total content of nitrogen oxides it did not exceed 5%. Hence, the authors determined only the total content of nitrogen oxides.

Card 1/2

L 42419-65

ACCESSION NR: AP5008775

2
Equations derived from theoretical calculations and nomograms were used to determine the air flow and air exchange rate in irradiation chambers and these were related to the size of the room and the activity of the irradiation unit. The validity of the equations was confirmed experimentally. Orig. art. has: 6 figures, 2 tables.

ASSOCIATION: Institut gigiyeny truda i profzabolevaniy AMN SSSR (Institute of Industrial Hygiene and Occupational Diseases, AMN SSSR); Fiziko-khimicheskiy institut im. L. Ya. Karpova, Moscow (Institute of Physical Chemistry)

SUBMITTED: 15Apr64

ENCL: 00

SUB CODE: NP

NO REF SOV: 009

OTHER: 000

llc
Card 2/2

L 14678-66 EWI(m)/EPF(n)-2 DIAAP

ACC NR: AP6008262

SOURCE CODE: UR/0089/65/019/002/0201/0201

AUTHOR: Sobol', N. V.; Petushkov, A. A.; Breger, A. Kh.

ORG: none

TITLE: Air-exchange calculation in rooms for high-power gamma units

SOURCE: Atomnaya energiya, v. 19, no. 2, 1965, 201

TOPIC TAGS: radiation chemistry, nitrogen oxide, ozone, explosive gas, gamma radiation, ventilation engineering, radiation shielding

ABSTRACT: Correlations were made of various data on radiochemical yields and permissible doses of nitrogen oxides and ozone formation and toxicity. The possibility of explosive gas accumulations in case of mixed shielding and water shielding of the source was analyzed, and it is suggested that regular ventilation of the room excludes the danger of explosive gas accumulations. Orig. art. has: 3 formulas. [NA]

SUB CODE: 18, 07 / SUBM DATE: 24Nov64 / ORIG REF: 007

Card 1/1

UDC: 697.92: 539.122

SOBOL', N.V.; PETUSHKOV, A.A.; BREGER, A.Kh.

Calculation of fresh air requirements in rooms housing high-
power gamma-ray sources. Atom. energ. 19 no.2:201 Aug '65.
(MIRA 18:9)

L 22607-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6005834

SOURCE CODE: UR/0374/65/000/006/0146/0151

AUTHOR: Geller, V. E. (Kalinin); Vysotskaya, Z. P. (Kalinin); 52
Ayzenshteyn, E. M. (Kalinin); Petukhov, B. V. (Kalinin) B

ORG: none

TITLE: Investigation of orientational drawing of lavsan monofilament 15445

SOURCE: Mekhanika polimerov, no. 6, 1965, 146-151

TOPIC TAGS: polyester plastic, polyethylene plastic, physical chemistry property, heat effect, temperature dependence, drawing, synthetic fiber

ABSTRACT: The paper represents an investigation and comparison of two versions of orientational drawing of lavsan monofilament, one being the conventional method of hot water drawing based on the difference in speeds of rotating discs and the other, the method of drawing the fiber through the hole of a draw plate. The nature of tensile and structural properties has been studied in the 2

Card 1/2

UDC: 678.677.4

L 22607-66
ACC NR: AP6005834

temperature range of 70 to 100C. Orig. art. has: 9 figures. [Based
on author's abstract]

SUB CODE: 07, 11/ SUBM DATE: 12Apr65/ ORIG REF: 006/
OTH REF: 014/

Card 2/2 *SW*

VAKHIDOV, V.Yu.; BAYKOV, B.K.; KANASH, I.M.; LUTCHIKOV, V.Yu.;
G. GABDULIN, V.I.; GORLYY, A.V.

hardening of crankshafts by the method of loading. Part. I
Sovetskoye Mashinostroyeniye, no. 11-12, N 165. MIRA 1965

PETUSHKOV, G.Ye.

Strengthening hollow chamfers of crankshafts. Mashinostroitel'
no.12:22-23 D '65. (MIRA 18:12)

PERDUEV, G.Ye.; sen., PERAS, L.M.; sen.; CVCHARENKO, V.I., sen.

Surface hardening of hollow chambers of crankshafts by plasma.
Mashinostroenie no. 37-38 May-June 1965. MISA 12,1

PETUSHKOV, I.S.

1234. RESULTS OF EXPERIMENTAL OPERATION OF KS-2 CUTTER-LOADER.
Potushkov, I.B., Vishnevskii, B.P. and Dushkovskii, A.I. (Khokhlov, Izd.
Gosnauk. Khab. (Mash. i. Arm. in. M. 1956, 15-18). An illustrated
description and performance data are given for a machine intended for working
in longwall in gently dipping seams 0.9 to 2.3 thick. Coal is removed from
the face by a number of cutters on a "shuttle" which is drawn along it by a
cable, and is loaded on to a face conveyor. The coal on which it was tested
was too hard for the machine, but performance was better than that of the
Donbass cutter-loader, which has been in use for some time under similar
conditions. (1).

PETUSHKOV, I.S., gornyy inzhener; VISHNEVSKIY, B.P., gornyy inzhener;
DASHKOVSKIY, A.I., gornyy inzhener.

Results of the experimental operation of the KS-2 coal cutter-loader.
Mekh.trud.rab. 10 no.2:15-18 P '56. (MLRA 9:5)
(Coal mining machinery)

PETUSHKOV, I.S., inzh.; SHVAL'BE, V.A., inzh.; DYMNIKOV, V.S., inzh.

Selecting a type of power for Kuznetak Basin mines. Ugol' 4/
no.li:10-12 '65. (MIRA 18:11)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut.

YEKTOV, I.M.; ZARUYEV, V.M.; GUROV, S.A.; REVENKO, I.F.; V rabote
prinimali uchastiye : KALMANOVICH, Yu.R.; GRIGOR'YEV, F.N.;
KOSHCHENKO, A.M.; LITVINENKO, Yu.P.; DMITRIYEV, V.D.;
POLYAKOV, V.V.; PETUSHKOV, Ye.S.; FIRSOV, P.V.

Rolling double bulb-bar shapes with longitudinal cutting in
the finishing mill. Stal' 20 no. 12:1113-1115 D '60.
(MIRA 13:12)

1. Stalinskiy metallurgicheskiy zavod i Donetskiy politekhnichesk-
skiy institut.
(Rolling (Metalwork))

IVANOV, P. (g. Khar'kov); PETUSHKOV, G. (g. Khar'kov)

Hardening the axle box part of streetcar axles. Zhil.-kom. 12
no.4:24-27 Ap '61. (MIRA 14:6;
(Kharkov--Streetcars--Maintenance and repair)

PETUSHKOV, G.Ye.

Hard facing of axles by burnishing with rollers. Mashinostroitel'
no.11:31 N '61. (MIRA 14:11)

(Hard facing)

PETUSHKOV, V. N.

USSR/Medicine - Blood Transfusions, Compli- Nov 48
cations and Sequels
Chemistry - Blood, Analysis

"Cases of Serious Complications in Blood Transfu-
sions," V. N. Petushkov, Chief, Blood Transfusion
Sta of Kazan Repub, 2 pp

"Sov Med" No 11

Problem is under intensive study. Frequent compli-
cations arise due to transfusion of blood with dif-
ferent Rh and types. Heating and bacteria are pri-
mary cause of impurities. Even small amount of in-
correct type of blood (40-50 cu cm) will cause serious
complications. Suggests great care in blood transfu-
sion technique.

24/49T50

BABAYANTS, R.S.; BLAGOVESHCHENSKAYA, V.T.; VERELESOVA, ...; ... YU.V.;
VIALOVA, N.A.; GLAZUNOV, I.S.; ...; ...; ...
KUTOVA, B.G.; KURCHAK, V.N.; ...; ...; ...
KAYENKOVA, M.S.; PETUCHENKO, V.N.; ...; ...; ...
STUDENIKIN, A.A.; ...; ...; ...; ...
A.Ya.; SHTEKENBERG, Yu.M.; ...; ...; ...

[Apostrophe to the author of the book] Gorky, Maxim
in the book. Moscow, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 26

1. Golden-Korrespondent AMN 1.1.1 (for Korrespondent).

IVANOV, V.A., prof.; PETUSHKOV, V.N. (Moskva)

Radiation burns. Khirurgiia 38 no.10:11-15 0 '62.

(MIRA 15:12)

(RADIATION SICKNESS)

PETUSHKOV, V. N. V. A.

PHASE I BOOK EXPLOITATION

SOV/6344

7

Alekseyeva, O. G., A. P. Bibikova, N. A. Vyalova, A. Ye. Ivanov, N. A. Krayevskiy, N. A. Kurshakov, N. V. Paramonova, V. M. Petushkov, V. V. Snegireva, L. A. Studenikina, Yu. M. Shtukkenberg, and A. Ya. Shulyatikova

Sluchay ostroy luchevoy bolezni u cheloveka (A Case of Acute Radiation Sickness in Man) Moscow, Medgiz, 1962. 149 p. 10,000 copies printed.

Ed. (Title page): N. A. Kurshakov, Corresponding Member Academy of Medical Sciences USSR, Professor; Ed.: S. P. Landau-Tylkina; Tech. Ed.: N. A. Yakovleva.

PURPOSE: This monograph is intended for physicians and biologists.

COVERAGE: This book describes an actual case of acute radiation sickness in its severe form. It describes in detail clinical symptoms, changes in biochemical indexes, morphological changes in the nervous system, and the distribution of depth doses and energy absorption.

Card 1/31

PETUSHKOV, V. N.

23659.

K VOPROSU O PRIKRYTOY PERFORMATIVNOY YAZVE ZHELUDKA I DVENADTSATIPERSTNOY KISHKI
KHIRURGIYA, 1949, NO. 7, s. 77-80.

SO: LETOPIS' NO. 31, 1949

PETUSHKOV, YE. YE.

2
The electric conductivity of cotton wool and its relation to moisture. I. V. Kuvshinov and Ye. Ye. Petushkov. *Trudy Vsesoyuzn. Nauch. Tsentra*, No. 17, 1954, p. 1016. *Referat Zhurn.*, No. 1954, No. 1016. In analysis of the errors in data, the moisture of cotton wool with an electric hygrometer shows that an increase in the d. of the samples to 0.08 g./cc. does not increase the precision significantly. Small changes in the prepri. of the samples lead to large errors owing to the hysteresis in the elec. cond. for cyclic changes in the moisture because of the different absorption properties of the fibers. The linear relation between the moisture and the log of the cond. holds in the moisture range 0-15% only when the cotton wool is prepri. in a certain way. L. Ruytar, Czech.

PETUSHKOV, YE. YE.

5610

Novyye elektrovlagomery dlya khlopka-syrtsa i produktov yego pererabotki.
Tashkent, Izd-vo Akad. Nauk uzbek. SSR, 1954. Obl., 4S. S. 111 22sm.
(Referaty rabot akad. Nauk uzbeck. SSR, vnedryayemykh v nar. Khozyaystvo.
Fiz. Tekhn, in-t) 150 Ekz. B. Ts. (54-57746) 677.21.03: 543.812

60: Knizhnaya Letopis', Vol. 1, 1955

1941, No. 10.

"Experimental study of electrical properties of cotton wool." Land
Physiol Sci, Physiol Technol, vol. 1, no. 1, 1941, p. 1-10.
(RZNFiz, Feb 44)

21: Sum. of 121, 122 and 123 - Survey of scientific and technical assistance
provided at USSR Higher Educational Institutions (1)

PETUSHKOV, YE. YE.

PETUSHKOV, YE. YE.--"Experimental Investigation of the Electrical Properties of Raw Cotton." Published by the Central Asia State U. Min Higher Education USSR. Central Asia State U imeni V. I. Lenin. Tashkent, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences).

SO: Knizhnaya Letopis' No. 2", 2 July 1955

PETUSHKOV, Ye.Ye.

KAZANSKIY, V.V.; KORDUB, N.V.; PETUSHKOV, Ye.Ye.

Simple method for increasing the precision of capacitance
meters used for measuring the moisture of raw cotton. Trudy
FTI AN Uz. SSR 6:78-81 '55. (MLRA 9:12)

(Cotton---Testing) (Electric measurements)

PETUSHKOV, Ia. Ye.

Selecting a control method for the determination of moisture
content in raw cotton. Trudy FTI AN Uz. SSR 6:54-61 '55.
(MLRA 9:12)

(Cotton--Testing) (Moisture--Measurement)

U K
KAZANSKIY, V.V.; PETUSHEV, Ye.Ye.

Effect of temperature on the electric conductivity and dielectric penetrability of cotton raw materials. Trudy Fiz.-mat. inst. AN Uz. SSR 5: 102-107 '53. (MLRA 9:1)

(Cotton--Electric properties)

KULAGIN, A.I.; PETUSHKOV, Ye.Ye.

Formation of rollers from cottonseeds in planetary delinting.
Dokl. AN Uz. SSR no.11:17-21 '57. (MIRA 11:5)

1. Fiziko-tekhnicheskly institut AN UzSSR. Predstavleno akad. AN
UzSSR U.A. Arifovym.
(Cottonseed) (Linters)

Petushkov, Ye Ye.

KORDUB, I.V.; PETUSHKOV, Ye.Ye.

Electric conductivity of cotton raw materials and its variations with humidity. Trudy Fiz.-mat. inst. AN Uz. SSR 5: 108-117 '53. (MLRA 9:1)

(Cotton--Electric properties)

PETUSHKOVA, A., inzh.; SOLOV'YEV, I., kand. tekhn. nauk

Ways of developing the shipping of lumber cargoes in the Volga-Kama basin. Rech. transp. 24 no. 10:32-33 '65. (MIRA 18:12)

1. Institut kompleksnykh transportnykh problem Gosudarstvennogo nauchno-ekonomicheskogo soveta Soveta Ministrov SSSR.

PETUSHKOVA, A.G.

20998 Orlov, M.R., Rodionova, N.F. i Petushkova, A.G. Reaktsiya organizma zhivotnykh na vvedeniye Tripanblau Pri Razlichnykh dozakh i sposebakh primeneniya Izvestiya Akad Nauk Kazakh SSR, No. 44, Seriya Parazitol, Vyp. 6, 1948, s.168-76-Rezyume Na. Kazaki, Yaz.

SO: LETOPIS ZHURNAL STATEY- Vol. 28, Moskva, 1949

VOROZHTSOV, M.N., ml.; PETUSHKOVA, A.T.

Study of isocoumarin derivatives. Part 2: Preparation and some reactions of the diethyl ester of isocoumarin-3,4-dicarboxylic acid, Zhur. ob. khim. 27 no.8:2282-2287 Ag '57. (MIRA 10r9)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleeva.

(Coumarin) (Esters)

PETUSHKOVA, A.T.

USSR

✓ Investigation of wormwood of the Kazakhstan flora for its alkaloid contents. M. I. Gorynev, A. T. Petushkova, and N. A. Sviridova. *Trudy Alma-Atinskogo Zool. Inst.* 7, 748-81 (1953); *Referat. Zhur. Khim.* 1954, No. 32700. — The amt. of alkaloids (1) was studied in 29 species of wormwood (*Artemisia*) collected in different regions of Altai in 1950. It is concluded that all species contain 1. The richest and poorest species with respect to 1 are indicated. E. Wierbicki

PETUSHKOVA, I.K., inzh., red.

[Protecting junctions and stations from snow drifts] Za-
shchita uzlov i stantsii ot snezhnykh заносов. Moskva,
Transport, 1964. 32 p. (MIRA 18:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
zheleznodorozhnogo transporta.

KUT'IN, I.M.; TERPUGOV, G.A.; PETUSHKOVA, I.K., red.; MEDVEDEVA, M.A.,
tekhn. red.

[New speedy centralized train traffic-control system] Novaia bystro-
deistvuiushchaia sistema dispetcherskogo kontrolya dvizheniya poezdov.
Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniya,
1961. 24 p. (MIRA 14:6)
(Railroads--Signaling--Centralized traffic control)

BYSTRITSKIY, Khariton Yakovlevich, inzh.; DUBKOVSKIY, Leonid
Moiseyevich, inzh.; REZNIK, Boris Nikolayevich, kand.
tekhn. nauk; PETUSHKOVA, I.K., red.

[Construction and operation of a.c. locomotives] Ustroistvo
i rabota elektrovozov peremennogo toka. Moskva, Transport,
1965. 446 p. (MIRA 18:1)

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order. The names are: [illegible]

2. The second part of the document is a list of the topics that were discussed at the meeting. The topics are listed in alphabetical order. The topics are: [illegible]

BELIAYEV, V.A., kand.tekhn.nauk; KABENIN, N.G., kand.tekhn.nauk;
SATSEVICH, Ye.A., inzh.; LUGININ, N.G., kand.tekhn.nauk;
MIRONENKO, N.P., kand.tekhn.nauk; USHAKOV, S.S., kand.tekhn.
nauk, retsenzent; PETUSHKOVA, I.K., inzh., red.; KHITROVA,
N.A., tekhn.nauk

[Unit replacement system and concentration of locomotive repair
work] Agregatnyi metod i kontsentratsiia remonta lokomotivov.
Moskva, Vses. izdatel'sko-poligr.ob"edinenie M-va putei
soobshcheniia, 1962. 179 p. (Moscow. Vsesoiuznyi nauchno-
issledovatel'skii institut zheleznodorozhnogo transporta.
Trudy, no.226). (MIRA 16:2)

(Locomotives--Maintenance and repair)
(Railroads--Cost of operation)

BYLEYEV, A.M., doktor tekhn.nauk, prof.; **SHISHLYAKOV**, A.V., kand.tekhn.nauk; **PUGIN**, D.K., kand.tekhn.nauk; **YEFIMOV**, G.E., inzh.; **MOZHAYEV**, S.S., inzh.; **GRIGOR'YEV**, N.I., inzh., retsenzent; **KAZAKOV**, A.A., kand.tekhn.nauk, retsenzent; **PETUSHKOVA**, I.K., inzh., red.; **USENKO**, L.A., tekhn.red.

[New systems of coded automatic block signaling] Novye sistemy kodovoi avtoblokirovki. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va puti soob., 1961. 135 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.219) (MIRA 15:1)

(Railroads—Signaling—Block system)

PLATONOV, Ye.V., kand.tekhn.nauk; NIKUSHIN, A.I., inzh.; KAMENETSKIY, B.G., kand.tekhn.nauk; FILINOV, L.K., inzh.; STEPANOV, A.D., dokt.tekhn.nauk, retsenzent; PETUSHEKVA, I.K., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Results of the studies of electric power transmission systems on diesel locomotives] Rezul'taty issledovaniia elektricheskikh peredach teplovozov. Moskva, Vses.izd-vo poligr. ob"deinenie M-va putei soob., 1961. 120 p. (Moscow. Vsesoiyuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.213)

(MIRA 14:9)

(Diesel locomotives)

SHAKHUNYANTS, G.M., doktor tekhn.nauk, prof.; NECHAYEV, B.I., kand.
tekhn.nauk; KLEVTSOV, I.A., kand.tekhn.nauk; PASHCHENKO,
B.V., inzh.; PETUSHEVA, I.F., inzh., red.; BOBKOVA, Ye.,
tekhn.red.

[Landslide protection on railroads of the U.S.S.R.] Opytbor'bys
opolzniamina zheleznykh dorogakh SSSR. Moskva, Vses. Izdatel'sko-
poligr. ob"edinenie M-va putei soobshchenia, 1961. 183 p.
(Moscow. Moskovskii institut inzhenerov zheleznodorozhnogo
transporta. Trudy, no.211.) (MIRA 14:7)
(Landslides) (Railroads--Earthwork)

PETUSHKOVA, I. K.

KARYAKIN, R.N.; PETUSHKOVA, I.K., red.; GROMOV, Yu.V., tekhn.red.

[Methods of calculating the resistances of a.c. traction
networks] Metodika rascheta soprotivlenii tiagovykh setei
peremennogo toka. Moskva, Transzheldorizdat, 1962. 36 p.
(MIRA 15:10)

(Electric railroads—Current supply)
(Electric lines—Overhead)

SMIRNOV, Aleksandr Ivanovich; STUKALKIN, Andrey Nikolayevich;
PETUSHKOVA, I.K., red.

[Resistances in the electrical circuits of electric locomotives] Soprotivleniia v elektricheskikh tsepiakh elektrozovozov. Moskva, Transport, 1965. 73 p. (MIRA 18:3)

RAYKHMAM, S.P.; PETUSHKOVA, I.K., red.; GROMOV, Yu.V., tekhn. red.

[Protective air-filled suits for workers engaged in tank cleaning] Zashchitnyi ventiliruemyi kostium dlia rabochikh, zaniatykh
ochistkoi tsistern. Moskva, Transzheldorizdat, 1962. 20 p.
(MIRA 15:12)

(Clothing, Protective)

PAKHOMOV, E.A.; KORENEV, M.S., kand.tekhn.nauk, retsenzent; PETUSHKOVA,
I.K., inzh., red.; VOROB'YEVA, L.V., tekhn.red.

[Results of testing and methods for designing air filters for diesel locomotive engines] Rezul'taty issledovaniia i metody rascheta vozdukho-ochistitelei dlia teplovoznnykh dvigatelei. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1962. 97 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.237).

(MIRA 15:8)

(Diesel locomotives--Equipment and supplies)

(Air filters)

YEGORENKOV, N.G., inzh.; KARVATSKIY, S.B., inzh.; IENKIN, N.F., kand.tekhn.
nauk; SOBOLEV, V.Ya., kand.tekhn.nauk; TERPUGOV, G.A., inzh.;
PETUSHKOV, I.N., inzh.,red.; BOBKOVA, Ye.N., tekhn.red.

[ChTs-TsNII system frequency-operated centralized traffic control]
Chastotnaia dispetcherskaia tsentralizatsiia sistemy ChTs-TsNII.
Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobsh-
chenia, 1961. 174 p. (Moscow. Moskovskii institut inzhenerov
zheleznodorozhnogo transporta. Trudy, no.210.) (MIRA 14:7)
(Railroads--Signaling--Centralized traffic control)

OVLASYUK, V.Ya., inzh.; SUKHOPRUDSKIY, N.D., kand.tekhn.nauk;
PETUSHKOVA, I.K., inzh., red.; BOEROVA, Ye.N., tekhn.red.

[Noncontact remote control devices of electrified railroads]
Beskontaktnye ustroystva teleupravleniya elektrifitsirovannykh
zheleznnykh dorog. Moskva, Izdatel'sko-poligr.ob"edinenie
M-va putei soob., 1960. 241 p. (Moscow. Vsesoiuznyi nauchno-
issledovatel'skiy institut zheleznodorozhnogo **transporta**).
Trudy, no. 205) (MLRA 14:2)

(Electric railroads—Electric equipment)
(Remote control)

KLIMOVA, O.M.; PETUSHKOVA, L.P.

Studying the process of deacetylation of acetyl cellulose. Zhur. ob.
khim. 27 no.8:2096-2099 Ag '57. (MLRA 10:9)

1. Leningradskiy tekhnologicheskii institut imeni Lensovet.
(Cellulose acetates)

PETUSHKOVA, S.M.; TANANAYEV, I.V.

Gadolinium phosphates. Zhur.neorg.khim. 8 no.5:1064-1067 My
'63. (MIRA 16:5)
(Gadolinium phosphate)

FETUSHKOVA, S.M.; TANANAYEV, I.V.

Interaction between $GdCl_3$ and sodium salts of ethylenediaminetetraacetic acid. Zhur.neorg.khim. 8 no.2:434-438 F '63. (MIRA 16:5)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova
AN SSSR.

(Gadolinium chloride) (Acetic acid)

TANANAYEV, I.V., PETUSHKOVA, I.V.

Interaction of gadolinium pyrophosphate with phosphoric acid.
Zhur. neorg. khim. 9 no.5, 1964, 1098-1099, 10 fig.

Gadolinium pyrophosphates. Ibid. 1964, 1092 (MIRA) 109

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ACCESSION NR: AP4040728

S/0192/64/005/003/0397/0403

AUTHOR: Kuznetsov, V. G.; Petushkova, S.M.; Tananayev, I.V.

TITLE: Radiographic investigation of gadolinium phosphates

SOURCE: Zhurnal strukturnoy khimii, v. 9, no. 3, 1964, 397-403

TOPIC TAGS: gadolinium phosphate radiography, gadolinium phosphate, powder radiography

ABSTRACT: Using methods of powder radiography, solid phases formed at 250 in systems $GdCl_3-H_2PO_4-Na_2O$ and $GdCl_3-Na_3PO_4-H_2O$ were investigated. The article contains a table of radiographic analysis covering the obtained products: $GdPO_4$, $Gd_2(PO_4)_3$, $GdPO_4 \cdot H_2O$, $4GdPO_4 \cdot Na_3PO_4 \cdot 12H_2O$, as well as the products of their heat treatment: $GdPO_4$, $GdPO_4 \cdot 0.33H_2O$, $Gd_2(PO_4)_3$ and $4GdPO_4 \cdot Na_3PO_4$. It was found that $GdPO_4$ has two crystalline modifications: hexagonal ($a=6.89\text{\AA}$, $c=6.33\text{\AA}$; spatial group $R\bar{3}m$) and monoclinic ($a=6.89\text{\AA}$, $b=6.89\text{\AA}$, $c=6.33\text{\AA}$; spatial group $C2/m$), which is isostructural with the hexagonal modifications of lanthanum, cerium and neodymium phosphates, and probably monoclinic isostructural monazite. The results obtained may serve for the identification of the compounds. Orig. art. has: 6 tables.

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B017/B054

AUTHORS: Glushkova, M. A., Petushkova, S. M.

TITLE: Ferrocyanides of Gadolinium

PERIODICAL: Zhurnal neorganicheskoy khimii, 1961, Vol. 6, No. 2,
pp. 349 - 353

TEXT: The authors studied the reaction of the gadolinium ion with alkali ferrocyanides by solubility determinations, measurements of electrical conductivity, and analysis of the solid phases. Results of investigation of the system $GdCl_3 - M_4[Fe(CN)_6] - H_2O$ ($M = Li, Na, K, Rb, Cs$) are given in Fig. 4. It was found that a simple gadolinium ferrocyanide of the composition $Gd_4[Fe(CN)_6]_3$ was formed in the reaction of $GdCl_3$ with $Li_4Fe(CN)_6$. The existence of this compound was confirmed by measurements of electrical conductivity and emf. The reaction of $GdCl_3$ with $Na_4[Fe(CN)_6]$ proceeds stepwise. First, $Gd_4[Fe(CN)_6]_3$ is formed, and then $NaGd[Fe(CN)_6]$. Fig. 4

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Ferrocyanides of Gadolinium

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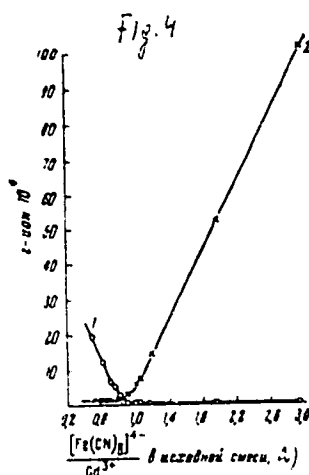
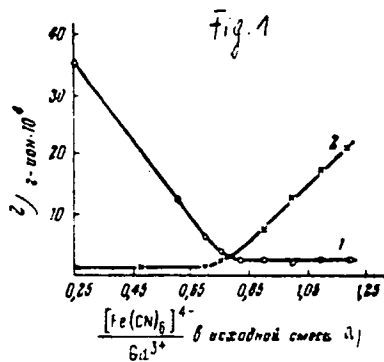
shows the interaction in the system $GdCl_3 - Na_4[Fe(CN)_6] - H_2O$, and Fig. 5 shows the change in emf and the potential jumps. In the reaction of $GdCl_3$ with the ferrocyanides of potassium, rubidium, and cesium, compounds of the type $MGd[Fe(CN)_6]$ ($M = K, Rb, Cs$) are formed. The solubilities of $Gd_4[Fe(CN)_6]$, $NaGd[Fe(CN)_6]$, $KGd[Fe(CN)_6]$, $RbGd[Fe(CN)_6]$, and $CsGd[Fe(CN)_6]$ in water at $25^\circ C$ are: $1.6 \cdot 10^{-4}$, $6 \cdot 10^{-4}$, $2.2 \cdot 10^{-4}$, $1.2 \cdot 10^{-4}$, and $2.8 \cdot 10^{-5}$ mole/l. With the solubility determination of $CsGd[Fe(CN)_6]$, gadolinium can be determined in pure solutions by the potentiometric method. The authors refer to corresponding investigations carried out at the laboratoriya khimii i analiza redkikh elementov Instituta obshchey i neorganicheskoy khimii AN SSSR im. N. S. Kurnakova (Laboratory of Chemistry and Analysis of Rare Elements of the Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the AS USSR), and mention I. V. Tananayev, M. A. Glushkova, G. B. Seyfer, and G. V. Shevchenko. There are 11 figures, 2 tables, and 8 references: 5 Soviet.

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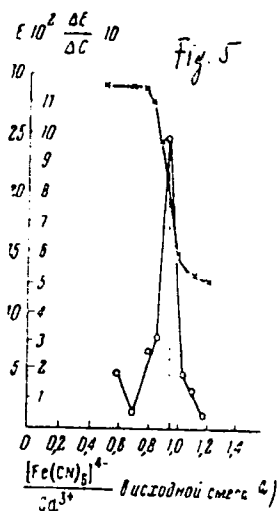
Ferrocyanides of Gadolinium

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Legend to Fig. 1: a) in initial mixture; b) $g/ion \cdot 10^4$; 1: Gd^{3+} ; 2: $Fe(CN)_6^{4-}$. Legend to Figs. 4, 5: a) in initial mixture; 1, 2 as in Fig. 1

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