

PERYSHKIN, A. V.

Electromagnetism - Study and Teaching

Teaching electromagnetism in a physics course. A. V. Peryshkin., Fiz.v shkole, 12, no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1958. Unclassified.  
2

PERYSHKIN, A. V.

Fizika [Physics]. Moskva, Trudrezervizdat, 1952. 416 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 5, August 1953.

PERYSKIN, A.V.; FALEYEV, G.I.; KRAUKLIS, V.V.; BASOV, Yu.V., red.;  
VEDENEYEV, Ye.A., tekhn.red.

[Physics; a textbook for grade 7 of seven-year and secondary  
schools] Fizika; uchebnik dlia 7-go klassa semiletnei i  
srednei shkoly. Izd.5. Pt.2. Moskva, Gos.uchebno-pedagog.izd-vo  
M-va prosv. RSFSR. 1953. 214 p. (MIRA 12:4)  
(Physics)

PERYSHKIN, A.V. (Moscow).

On the plan outlining the curriculum in physics in the eleven-year secondary school. Fiz.v shkole 7 no.4:42-49 '53. (MIRA 6:11)  
(Physics--Study and teaching) (Education, Secondary--Curricula)

*PERYSHKIN A.V.*

PERYSHKIN, A.V.; BASOV, Yu.V., redaktor; DUKOV, V.M., redaktor; MAKHOVA,  
E.H., tekhnicheskiy redaktor

[Course in physics; textbook for class 10 of the secondary school]  
Kurs fiziki; uchebnik dlia X klassa srednei shkoly. Moskva, Gos.  
uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR. Pt.3.  
[Electromagnetism, optics, and the structure of the atom]  
Elektromagnetizm, optika i stroenie atoma. 1954. 319 p. (MLRA 7:9)  
(Electromagnetism) (Optics) (Atoms)

PERYSKHIN, A.V.; TRET'YAKOV, N.P.

[Physics] Fizika. Moskva, Vses. uchebno-pedagog. izd-vo Trud-  
reservizdat, 1954. 416 p. (MLRA 7:8)  
(Physics)

PERYSHKIN, A. V.

4906. PERYSHKIN, A. V., FALSYEV, S. I. i KRAUKLIS, V. V. Fizika. Uchebnik dlya semilet. i sred. shkoly. Alma-Ata, Kazachpepigiz, 1955. 21sm.--Na kazakh. yaz.  
Ch. 2. dlya 7-go klassa. 7-ye IZD., s 7-go rus. 188s. s Ill. 47.000 BAZ. 2r. bk. V per.--  
(54-58288) 53(075)

SO: Knizhnaya Letopis', Vol. 1, 1955

PERYSHKIN, A. V.,

4905. PERYSHKIN, A. V., FALSYEV, G. I. i KRASKIIS, V. V. Fizika. Uchebnik dlya samilet.  
i sred. shkoly. Izd. 7-ya. M., Uchenpedgiz, 1955. 21 str.  
Ch. 2. dlya 7-go klassa 18-ya. s Ill. 1.000.000 EKZ. (1-y Zavod 1-500 ty ., 1r. 70x.  
V per.--(55-367) 53-(075)

SO: Knizhnaya Letopis', Vol. 1, 1955



PERYSHKIN, A. V.

4904. PERYSHKIN, A. V., FALEYEV G. I. i KRAUKLIS, V. V. Fizika. Uchebnik dlya semilet. 1 sred. shkoly. Ashkhabad, Turkmenuchpedgiz, 1955. 21sm.--Na Turkm. Yaz. Ch. 1 dlya 6-go klassa. 5-ye IZD., s 6-go rus. 146 s. s Ill. 13.000 EKZ. ir. 45k. V per.-- (54-57807) 53(075)

PERYSHKIN, Aleksandr Vasil'yevich; KRAUKLIS, V.V.; DUKOV, V.I., redaktor;  
MAKOVA, N.N., tekhnicheskiy redaktor

[A course in physics; a textbook for class 8 of the secondary school] Kurs fiziki; uchebnik dlia 8-go klassa srednei shkoly. Izd. 2-oe. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR. Pt. 1. [Mechanics] Mekhanika. 1955. 158 p. (Mechanics) (MLRA 9:10)

PERYSHKIN, Aleksandr Vasil'yevich; TRET'YAKOV, Nikolay Petrovich;  
USHAKOV, Mikhail Alekseyevich, redaktor; BOGACHEV, F.V.,  
redaktor; OSTRIROV, N.S., tekhnicheskiy redaktor

[Physics] Fizika. Izd. 2-e, ispr. i dop. Moskva, Vses. uchebno-  
pedagog. izd-vo Trudrezervizdat, 1955. 435 p. (MLRA 8:10)  
(Physics)

SOKOLOV, I.I., prof.; PERYSKIN, A.V., dots., red.; PONOMAREVA, A.A., tekhn.  
red.

[Programs of pedagogical institutes; methods of teaching physics;  
major: mathematics; requirements for the title of Teacher of  
Mathematics and Physics] Programmy pedagogicheskikh institutov;  
metodika prepodovaniia fiziki. Spetsial'nost' - matematika,  
kvalifikatsiia - uchitel' matematiki i fiziki. Moskva, Gos.  
uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1956. 12 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i  
srednikh pedagogicheskikh uchebnykh zavedeniy.  
(Physics--Study and teaching)

PERYSHKIN, Aleksandr Vasil'yevich; PALEYEV, Grigoriy Ivanivich; KRAUKLIS, Vil'gel'm Vil'gel'movich; MIKHALKEVICH, T.V., redaktor; MAKHOVA, N.N., tekhnicheskiy redaktor.

[Physics; textbook for class 6 of the seven-year and secondary schools] Fizika; uchebnik dlia 6 klassa semiletnei i srednei shkoly. Izd. 8-oe. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR. Pt.1. 1956. 126 p. (MLRA 9:5)  
(Physics)

PERYSHEV, Aleksandr Vasil'yevich; BASOV, Yu.V., redaktor; MAKHOVA, N.N.  
tekhnicheskly redaktor

[A course in physics; textbook for class 10 of the secondary school] Kurs fiziki; uchebnik dlia X klassa srednei shkoly. Izd. 3-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSPSR. Pt. 3. [Electricity, optics and atomic structure] Elektrichestvo, optika i stroenie atoma. 1956. 334 p. (MLRA 9:4)  
(Electricity) (Optics) (Atoms)

BELOGORSKAYA, N.I.; GALININ, D.D.; GORYACHKIN, Ye.N.; GLAZYRIN, A.I.; DUBOV, A.G.;  
YEVROPIN, Yu.P.; YEMOKHOVICH, A.S.; ZVORYKIN, B.S.; IVANOV, S.I.; KRAUZLIS,  
V.V.; LAVROVSKIY, K.P.; MENSHTUTIN, N.P.; MINCHENKOV, Ye.Ya.; NABOKOV, M.Ye.;  
PERYSHKIN, A.V.; POPOV, P.I.; POKROVSKIY, A.A.; REZNIKOV, L.I.; SAKHAROV,  
D.I.; SOKOLOV, I.I.; SOKOLOVA, Ye.N.; EVENCHIK, E.Ye.; YUS'KOVICH, V.F.

Sergei Nikolaevich Zharkov. [Obituary]. Fiz.v shkole 16 no.3:94-95 My-Je '56.  
(Zharkov, Sergei Nikolaevich, 1883-1956) (MIRA 9:7)

11.11.1957

POPOV, P.I.; FERYSHKIN, A.V. (Moskva).

Development of higher pedagogical training in the R.S.F.S.R.  
Fiz. v shkole 17 no.6:71-79 N-D '57. (MIRA 10:12)  
(Teachers, Training of)



PERYSHKIN, Aleksandr Vasil'yevich; DUKOV, V.M., red.; MAKHOVA, N.N., tekhn.  
red.

[Physics course] Kurs fiziki. Moskva, Gos. uchebno-pedagog. izd-vo  
M-va prosv. RSFSR. Pt.3. [Electricity, optics and atomic structure;  
textbook for high-school students of the 10th grade] Elektrichestvo,  
optika i stroenie atoma; uchebnik dlia X klassa srednei shkoly. Izd.5.  
1958. 334 p. (MIRA 14:7)

(Physics)

PERYSHKIN, Aleksandr Vasil'yevich; TRET'YAKOV, Nikolay Petrovich;  
BASOV, Georgiy Vasil'yevich, nauchnyy red.; ROGACHEV, F.V.,  
red.; RAKOV, S.I., tekhn.red.

[Physics] Fizika. Izd.3., ispr. 1 dop. Moskva, Vses.  
uchebno-pedagog.izd-vo Trudrezervizdat, 1959. 454 p.

(MIRA 12:11)

(Physics)

BLUDOV, Mikhail Ivanovich; MINCHENKOV, Yevgeniy Yakovlevich; PERYSKIN  
Aleksandr Vasil'yevich; USHAKOV, Mikhail Alekseyevich. Primal  
uchastiye. KRAUKLIS, V.V., ROGACHEV, P.V., red.; TOKER, A.M., tekhn. red.

[Teaching physics; methods manual for teachers of secondary  
technical schools] Prepodavanie fiziki; metodicheskoe posobie  
dlia prepodavatelei srednikh spetsial'nykh uchebnykh zavedenii.  
Pod red. A.V.Peryshkina. Moskva, Vses. uchebno-pedagog. izd-vo  
Proftekhizdat, 1960. 317 p. (MIRA 13:5)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSPSR (for  
Peryshkin).  
(Physics--Study and teaching)

PERYSHKIN, A.V. (Moskva)

Studying physics in the 7th grade according to the new program  
and the new text book. Fiz. v shkole 20 no.6:30-33 N-D '60.

(MIRA 14:2)

(Physics—Study and teaching)

PERYSHKIN, Aleksandr Vasil'yevich; MINCHENKOVA, Ye.Ya., red.;

~~PERYSHKIN, A.V., red.~~

[Physics; a textbook for grade 6 in the secondary school]  
Fizika; uchebnik dlia VI klassa srednei shkoly. Pod obshchei  
red. E.IA.Minchenkova i A.V.Peryshkina. Izd.3. Moskva, Gos.  
uchebno-pedagog. izd-vo, 1961. 190 p. (MIRA 15:11)  
(Physics)

PERYSHKIN, A.V.

[Physics course] Kurs fiziki. Moskva, Gos. uchebno-pedagog.  
izd-vo M-vo prosv. RSPSR, 1961. 223 p.

(MIRA 14:4)

(Physics)

PERYSHKIN, A.V. (Moskva)

International conference on the teaching of natural sciences in  
general schools. Fiz.v shkole 21 no.3:110-111 My-Je '61.  
(MIRA 14:8)

(Science--Study and teaching)

PERYSHKIN, A.V. (Moskva)

Grigorii Ivanovich Faleev. Fiz.v shkole 21 no.3:31-32 My-Je  
'61. (MIRA 14:8)

(Faleev, Grigorii Ivanovich, 1881-)



BELOGORSKAYA, N.I.; BLUDOV, M.I.; GALANIN, D.D.; YEVIOPIN, G.P.;  
POKROVSKIY, A.A.; POPOV, P.I.; ZVORYKIN, B.S.; IVANOV, S.I.;  
KRAUKLIS, V.V.; MINCHENKOV, Ye.Ya.; PERYSHKIN, A.V.; REZNIKOV, L.I.;  
SOKOLOV, I.I.; SUBOROV, N.P.; YUS'KOVICH, V.F.

Evgenii Nikolaevich; obituary. Fiz.v shkole 22 no.1:111 Ja-F  
'62. (MIRA 15:3)

(Goriachkin, Evgenii Nikolaevich, 1895-1961)

BELOGORSKAYA, N.I.; BLUDOV, M.I.; BRAVERMAN, E.M.; BULATOV, N.P.;  
GALANIN, D.D.; GOL'DFARB, N.I.; YEVROPIN, G.P.; YEGOROV, A.L.  
YENOKHOVICH, A.S.; ZVORYKIN, B.S.; IVANOV, S.I.; KAMNETSKIY, S.Ye.;  
KRAUKLIS, V.V.; LISENKER, G.R.; MALOV, H.N.; MANOVETOVA, G.P.;  
MENSHTIN, N.F.; MINCHENKOV, Ye.Ya.; PERYSHKIN, A.V.; FOKROVSKIY, A.A.;  
POPOV, P.I.; RAYEVA, A.F.; REZNIKOV, L.I.; SOKOLOV, I.I.; YUSKOVICH,  
V.F.; ZVENCHIK, Z.Ye.

Dmitrii Ivanovich Sakharov; obituary. Fiz.v shkole 22 no.1:109-  
110 Ja-F '62. (MIRA 15:3)

(Sakharov, Dmitrii Ivanovich, 1889-1961)

PERYSHKIN, A.V.; ROSHOVSKAYA, Kh.D.; SOKOLOVA, Ye.N.; SHAKHMAYEV,  
N.M. Primal uchastiye KRAUKLIS, V.V.; TSICALOV, V.A., red.;  
POLUKAFCVA, Ye.K., tekhn. red.

[Methodology of teaching physics in eight-year schools] Metodi-  
ka prepodavaniia fiziki v vos'miletnei shkole; posobie dlia  
uchitelei i studentov pedvuzov. Moskva, Izd-vo Akad. pedagog.  
nauk RSFSR, 1963. 317 p. (MIRA 16:10)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR  
(for Peryshkin).

(Physics--Study and teaching)

BLUDOV, Mikhail Ivanovich; PERYSIKIN, A.V., retsenzent; SAKHAROV,  
D.I., retsenzent [deceased]; MINCHENKOV, Ye.Ya., retsenzent;  
RAZUMOVSKIY, V.G., red.

[Talks on physics] Besedy po fizike. Moskva, Prosveshchenie.  
Pt.2. 1965. 162 p. (MIRA 18:8)

SHTEPA, Nikolay Ivanovich, kand. fizi.-matem. nauk; SERKOV, Vasily Vasil'yevich, dots.; KHOL', Abram Solomonovich, st. prepod.; MISTYUKOV, Aleksandr Ivanovich, st. prepod.; ARKHANGEL'SKIY, M.M., retsenzent; ALMAZOV, A.B., retsenzent; PERYSHKIN, A.V., retsenzent; CHEBOTAREVA, A.V., red.; VELICHKO, L.L., red.

[Weight and weightlessness; a textbook for the teacher] **ves i nevesmost'**; posobie dlia uchitelia. Moskva, Prosveshchenie, 1964. 46 p. (MIRA 17:10)



137 AND 138 (1958)      PROCESSES AND PROPERTIES INDEX      139 AND 140 (1958)

*AMR*

*Propellers, Fans, Turbines, Pumps, etc.*

1744. Peryca, Stefan. Principles of geometrical design of turbine nozzles (in Polish). *Prac. arch.*, no. 4 6, 8 pp., 1950

Author is concerned primarily with geometrical design of diaphragms with cast-in guide blades. The considerations apply, however, to any other type of turbine nozzles. Author throws away cylindrical sections developed in a plane as they do not offer any particular value or advantage in design and production practice. Following pure geometrical reasoning with a number of simplifying assumptions, author discusses two problems: 1. Proper shape of the nozzle axis in the longitudinal section and 2. determination of the real vane angle at outlet. Special considerations are devoted to proper choice of boundary walls at nozzle outlet. Theoretical investigations are followed up by some examples of detailed geometrical design.

Reviewer believes that this paper represents the first endeavor for a more detailed explanation of the problem than usually appears in turbine literature, and that paper is, therefore, of considerable value to engineers designing steam turbines.

R. Szwalski, Poland

*Apr 51*

ASA 34.4 METALLURGICAL LITERATURE CLASSIFICATION

1320 834174

137 AND 138 (1958)      PROCESSES AND PROPERTIES INDEX      139 AND 140 (1958)

PER'YE M. I.

*\*Determination of Silver by Means of Potassium Ferricyanide. M. I. Per'ye and M. M. Lobanets (Ukrain. Khim. Bull. sci. Rec. chem., 1936, 1, (4), 111-115; C. Abs., 1936, 80, 552d).—(In Ukrainian.)* The  $AgNO_3$  solution is heated to  $80^{\circ}-90^{\circ}C$ . 2-3 gm. of dry  $KNO_3$  are added, and then an excess of  $K_3Fe(CN)_6$  solution is gradually added, with continuous shaking. The solution is heated on a water bath, cooled slightly, and filtered. The precipitate is washed 2 or 3 times by decantation with cold  $2\%$   $KNO_3$  solution. To the cold filtrate 1-2 gm.  $ZnSO_4$  and 10 c.c. of  $20\%$   $KI$  solution are added, and it is then titrated with  $Na_2S_2O_3$ , using starch as indicator. The average error is  $0.3\%$ , or (if titrated without previous filtration)  $0.6\%$ . N. H. V.

ASB-11A DETAILING LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 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



PERIYE M. I.

BC

23

(A) Use of liquid amalgams for analysis of hydroxy-nitro-compounds. M. I. PERIYE and M. M. LOBUNSKY. (B) Determination of dinitrobenzene. M. M. LOBUNSKY. (C) Determination of nitro-group of nitrobenzene. M. I. PERIYE and M. M. LOBUNSKY. (D) Analysis of nitrosalicylic acid. M. M. LOBUNSKY (Dokl. Akad. Nauk, 1930, 2, 65-69, 69-72, 73-79, 81-83).--(a) 0.6-1.0 g. of p-nitrophenol in 4N-HCl is reduced by Zn-Hg to p-nitraniline, which is titrated with 0.2N-NaNO<sub>2</sub>.  
 (b) 15 c.c. of Zn-Hg are added to 0.3-0.4 g. of C<sub>6</sub>H<sub>5</sub>(NO<sub>2</sub>)<sub>2</sub> in MeOH, followed by 40 c.c. of 4N-HCl, the mixture is shaken, and the aq. C<sub>6</sub>H<sub>5</sub>(NH<sub>2</sub>)<sub>2</sub> is diluted to 200 c.c. 1 g. of KBr, 25 c.c. of 0.2N-KBrO<sub>3</sub> and 5 c.c. of 4N-HCl are added to 25 c.c. of solution, the mixture is shaken, and 8 c.c. of 40% KI are added after 15 min. The I liberated is titrated with Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>.  
 (c) PhNO<sub>2</sub> is determined analogously to C<sub>6</sub>H<sub>5</sub>(NO<sub>2</sub>)<sub>2</sub>.  
 (d) Nitrosalicylic acid is determined analogously to nitrophenol.  
 R. T.

ASB 51.6 METALLURGICAL LITERATURE CLASSIFICATION

PER YE M. I.

CP

7

The use of liquid amalgams in the analysis of nitro compounds of benzene homologs. M. I. Per'c. *Ukr. Khim. Pril. Ser., Rec. Chem. No. 3, 37-41(1947); cf. C. A. 31, 2000.* - The *o*-, *m*- and *p*-nitrotoluenes were reduced by shaking with 2-2.5% Zn amalgam in the presence of about 2 N HCl. After reduction, the solu. was dild. to 50 cc. and 50 cc. was used for titration by the bromate method. The *o*-toluidine was titrated directly with starch-iodide paper as an indicator. The method is accurate to within 0.2-0.5% and is more rapid than others. H. Z. K.

ASD-510 METALLURGICAL LITERATURE CLASSIFICATION

1904 574 01104

1904 574 01104

PER'YE M. I

Test of nitronaphthalene reduction by a liquid zinc amalgam for the determination of the nitro group. M. I. Per'ye and M. M. Lobunets. *Chem. Zhit. Akad. Nauk. SSSR, Rec. Chem. No. 3, 43-7 (in English, 48) (1937); cf. C. A. 31, 2869.*—Dissolve a 0.5000-g. sample of nitronaphthalene in 15 cc. of warm HOAc (98%), add rapidly 50 cc. of 2 N HCl, and shake with 20-30 cc. liquid Zn amalgam until the color is light yellow. Add 50 g. ice and 5 cc. concd. HCl and diaotize with starch-white paper as an indicator. Diazotization requires 10 min. The end point should be brighter than that produced by a drop of thiosulfate and the soln. H. Z. Kauch

ADD-314 METALLURGICAL LITERATURE CLASSIFICATION

PERYSHKIN, G.A.; KUNTSEVICH, N.M.

Spillways of fishponds. Dokl. AN BSSR 9 no.10:680-682 0 '65,  
(MIRA 18:12)  
i. Belorusskiy politekhnicheskii institut. Submitted May 18,  
1965.

PERYSKHIN, G.A., prof.; FILIPPOVICH, I.V., inzh.

"The concrete establishment at large construction projects" by  
G.D. Petrov. Reviewed by G.A. Peryshkin, I.V. Filipovich. Izv.-  
vys.uch.zav.; stroi. i arkhitekt. 5 no.4:181-182 '62. (MIRA 15:9)

1. Belorusskiy politekhnicheskiy institut.  
(Concrete plants) (Petrov, G.D.)

BRUNOV, S. A.

246734

USSR/Engineering - Construction, Hydro-  
electric Power Plant Dec 52

"Tsimlyansk Hydroelectric Power Station," Engels  
N.V. Razin, G.A. Peryshkin, and K.I. Smirnov

"Gidrotekh Stroi" No 12, pp 6-11

Describes construction (materials, dimensions,  
volume, components, operating equipment, cranes,  
locks) of the following structures of Tsimlyansk  
(on the Don River) hydroelectric power plant:  
1. Earthen dam; 2. Reinforced concrete spillway;  
3. Power plant; 4. Navigation structures, outer  
harbor, two navigation locks controlling 26-m

246734

water-level drop; 5. Irrigation flow control  
structure. States that for the construction  
8.5 million tons of material were delivered via  
railroad, 1.4 million tons via water. 37 mil-  
lion tons soil, concrete, and other loads trans-  
ported via truck. Gives total cost and types con-  
struction equipment used, also sources and total  
amount (300 million kWh) of electric power used  
in construction.

246734

~~PERYSKIN, I.N.~~

Tornado in White Russia. Meteor. i gidrol. no.5:29-30 My '57.  
(White Russia--Tornadoes) (MLRA 10:8)

*PERYSUKIN, G.A.*

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.;  
BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVY, G.A.; BULEV, M.L.; BURAKOV,  
N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;  
GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DEMELAT,  
Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.;  
GORBACHEV, V.N.; GRZHIB, B.V.; GREKULOV, L.P., kand. e.-kh. nauk;  
GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,  
Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK,  
A.P.; ZERKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;  
KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.;  
KOSKIN, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;  
KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;  
LIKHACHIV, V.P.; LCGUNOV, P.I.; MATSKEVICH, K.F.; MEL'NICHENKO,  
K.I.; MERDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;  
MUSIYEVA, R.M.; NATANSON, A.V.; NIKITEN, M.V.; OVIS, I.S.;  
OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSUKIN,  
G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ye.D.; REMEZOV, N.P.;  
ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.;  
RYBCHESKIY, V.S.; SADCHIKOV, A.V.; SEMERTSOV, V.A.; SIDENKO, P.M.;  
SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,  
Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRISOVA,  
Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;  
TSISHLEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN,  
N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,  
I.N.; ENZEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A.; ARKHAND'EL'SKIY,  
(Continued on next card)



ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzant, red.; AKHUTIN, A.N., retsenzant, red.; BALASHOV, Yu.S., retsenzant, red.; BABAEANOV, V.A., retsenzant, red.; BATUSKER, P.D., retsenzant, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzant, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzant, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzant, red.; GUBIN, M.F., retsenzant, red.; GUDAYEV, I.N., retsenzant, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzant, red.; KARAULOV, B.P., retsenzant, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzant, red.; LIXIN, V.V., retsenzant, red.; LUKIN, V.T., retsenzant, red.; LJSKIN, Z.D., retsenzant, red.; MATIROSOV, A.Kh., retsenzant, red.; MENDELEYEV, D.M., retsenzant, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzant, red.; OBRIZKOV, S.S., retsenzant, red.; PETRASHEN', P.N., retsenzant, red.; POLYAKOV, L.M., retsenzant, red.; RUMYANTSEV, A.M., retsenzant, red.; BYABCHIKOV, Ye.I., retsenzant, red.; STASENKOV, N.G., retsenzant, red.; TAKANAYEV, P.F., retsenzant, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzant, red.; TIZDEL', R.E., retsenzant, red.; FEDOROV, Ye.M., retsenzant, red.; SHEVYAKOV, M.N., retsenzant, red.; SHIMAKOV, M.I., retsenzant, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; FUSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,  
tekhn. red.; GERKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.  
red.

[Volga-Don; technical account of the construction of the V.I. Lenin  
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,  
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-  
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-  
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati  
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural  
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.  
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-  
struction. Specialized operations in hydraulic engineering] Orga-  
vizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 4.

Glav. red. S. IA. Zhuk. Red. tom I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro  
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-kor-  
respondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy  
chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin,  
Razin).

(Volga Don Canal--Hydraulic engineering)

PERYSHKIN, G.A. [Peryshkin, H.A.]; VASIL'CHENKO, G.V. [Vanil'chanka, H.V.]

Stability of vertical scarps. Vestsi AN BSSR. Ser. fiz.-tekh.  
nav. no.3:132-137 '61. (MIRA 14:10)  
(Soil stabilization)

VINOKUROV, F.P., prof.; PERYSHKIN, G.A., prof.; MIKHAYLOV, S.I., dotsent,  
kand. ~~tekhn.~~ nauk

Research in the field of water resources development in the White  
Russian S.S.R. Sbor. nauch. trud. Bel. politekh. inst. no. 66:167-178  
'57. (MIRA 16:9)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR;  
chlen-korrespondent AN BSSR (for Vinokurov ).

1. RAZIN, N.A. PEPYSHIN, G.A. SMIRNOV, K.I., Engs.
2. USSR (600)
4. Hydraulic Engineering
7. TSimlyansk hydro development. Gidr.stroi. No. 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Uncl.

MAKAROCHKIN, M.F., doktor tekhn.nauk; PERYSHKIN, G.A., prof.

Organizing the preparation of a course project. Sbor. metod.  
rab. Bel. politekh. inst. no. 1:67-69 '59. (MIRA 14:1)  
(Project method in teaching) (Technical education)

PERYSHKIN, I.P.

Frost prediction in White Russia. Sbor. rab. po sinop. no.3:3-24  
'59. (MIRA 12:11)

1.Minskoye byuro pogody.  
(White Russia--Frost)



ACC NR. AT6023034

SOURCE CODES: UR/2925/64/000/010/0051/0059

AUTHOR: Peryshkin, Ye. I.

ORG: Scientific-Research Building Institute, Krasnoyarsk (Nauchno-issledovatel'skiy institut po stroitel'stvu)

TITLE: Feasibility of using floating construction-material factories in the far north

SOURCE: AN SSSR. Komissiya po problemam severa. Problemy severa, no.10, 1964, 51-59

TOPIC TAGS: construction material, cost estimate, industrial development, structural engineering, concrete, mineral

ABSTRACT: The enormous power stations and power-using industries planned for Siberian rivers requires large scale construction projects which cannot be carried out under present conditions within the desired time and cost schedules. The far North and northern Siberia, where population centers are highly localized, transportation means are sparse or nonexistent, and climate is severe, can be provided with needed construction facilities and supplies by highly mechanized floating factories. Such factories can ply the Ob', Yenisey, and Lena Rivers and their branches the Yana, Indigirka, and Kolyma in northeast Siberia, and coastal waters of the Arctic Ocean, and thereby bring fabrication facilities directly to the desired building sites.

Card 1/2

0915

1569

PERYSHKINA, A. Z.

16

PHASE I BOOK EXPLOITATION

SOV/6177

Akademiya nauk SSSR. Institut neftekhimicheskogo sinteza

Radioliz uglevodorodov; nekotoryye fiziko-khimicheskkiye problemy  
(Radiolysis of Hydrocarbons; Some Physicochemical Problems)  
Moscow, Izd-vo AN SSSR, 1962. 207 p. Errata slip inserted.  
5000 copies printed.

Resp. Eds.: A. V. Topchiyev, Academician, and L. S. Polak,  
Doctor of Physics and Mathematics; Ed.: L. T. Bugayenko;  
Tech Ed.: Ch. A. Zentsel'skaya.

**PURPOSE:** This book is intended for physical and industrial chemists  
interested in the properties and behavior of irradiated hydro-  
carbons.

**COVERAGE:** The book gives a systematic presentation of the results  
of research on the radiolysis of hydrocarbons carried out from  
1957 through 1961 at the Laboratory of Radiation Chemistry,  
Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petro-

Card 1/4

## Radiolysis of Hydrocarbons (Cont.)

SOV/6177

chemical Synthesis, Academy of Sciences USSR). Although the results were obtained for individual compounds, they may be generalized and applied to other members of the same homologous series. The following persons participated in making the experiments and in writing the text: V. G. Beryozkin, V. E. Glushnev, Yu. A. Kolbanovskiy, I. M. Kustanovich, V. D. Popov, A. Ya. Temkin, V. D. Timofeyev, N. Ya. Chernyak, V. A. Shalchray, E. B. Shlikhter, A. S. Shcherbakova, B. M. Negodov, A. Z. Peryshkina, N. M. Rytova, T. A. Tgina, Yu. B. Emin, A. M. Brodskiy, V. V. Voyevodskiy, P. Ya. Glazunov, B. A. Smirnova, and Yu. L. Khait. References, mainly Soviet and English, follow individual chapters.

## TABLE OF CONTENTS [Abridged]:

Foreword	3
Ch. I. Physicochemical Characteristics of Hydrocarbon Radiolysis	5
Card 2/4	

L. 42983-66 FWT(1)/EWT(01) AT/DS/CM

ACC NR: AR6014101

SOURCE CODE: UR/0272/65/000/011/0124/0125

AUTHORS: Bogolyubov, Ya. Kh.; Peryshkina, N. G.; Soldatov, V. S.

TITLE: A calorimeter for measuring thermal effects accompanying ion exchange processes

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 11.32.1108

REF SOURCE: Izv. AN BSSR. Ser. kh'... n., no. 1, 1965, 35-38

TOPIC TAGS: calorimeter, calorimetry, ion exchange, thermistor / MMT-1 thermistor

ABSTRACT: The calorimeter described here makes it possible to conduct an experiment isothermally and adiabatically, the latter condition being attained automatically by a special apparatus maintaining an equal temperature within the calorimeter and in the casing (maximum difference 0.01--0.2C). The thermal process is conducted in a hermetically sealed vessel of small volume (50 cm<sup>3</sup>), well isolated from the external medium. Measurements are taken with a thermistor of type MMT-1 sensitive to 0.0005C. Thermal effects are measured with an accuracy of 0.5--1.0%. Yu. Vaysberg  
/Translation of abstract/

SUB CODE: 14

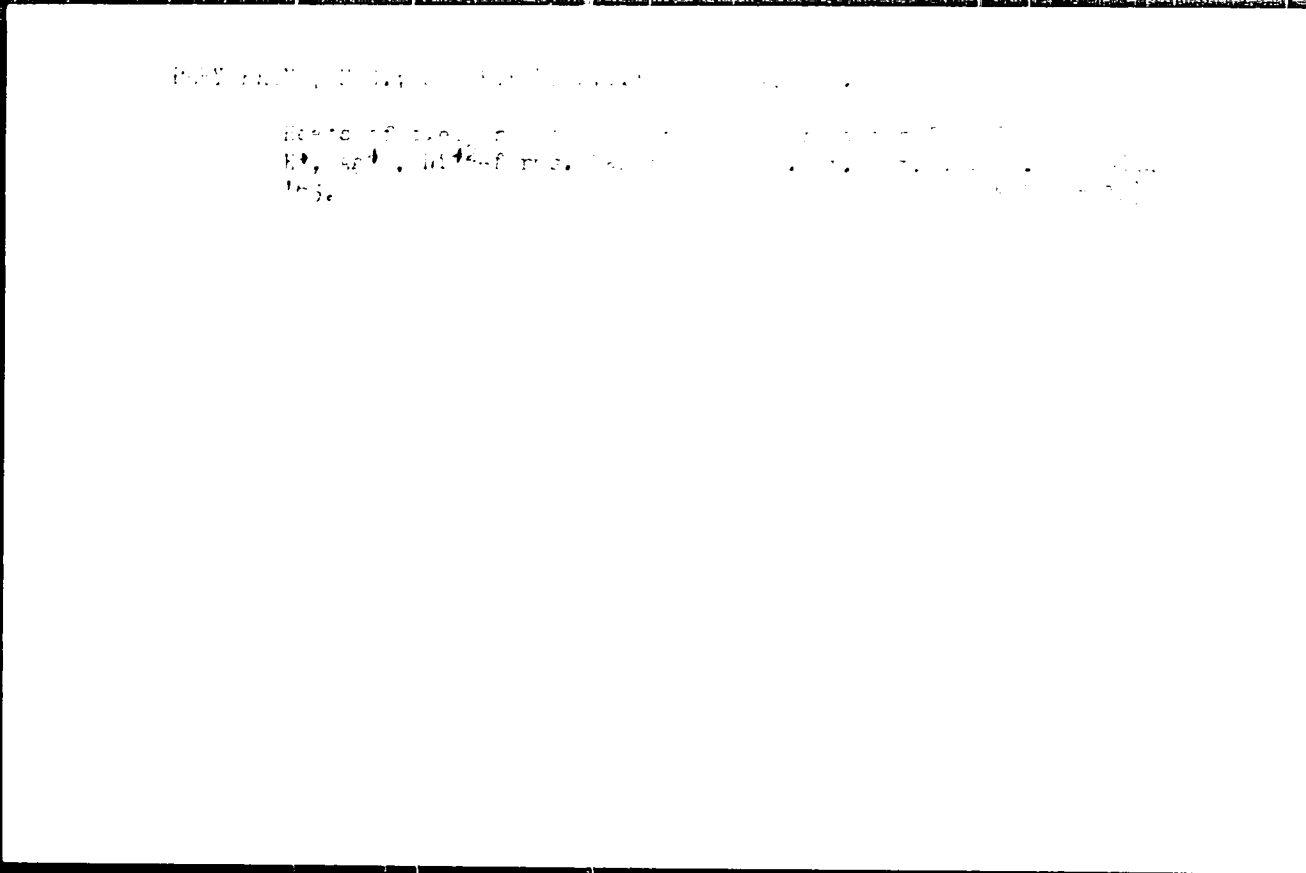
Card 1/1 hs

UDC: 389:536.628.3

*Pervushina, L.A.*  
PERVUSHINA, L.A.

Bactericidal properties of the skin. Zhur.mikrobiol.epid. i  
immun. no.8:70-75 Ag '55. (MLRA 8:11)

1. Iz kafedry mikrobiologii (zav.--laureat Stalinskoy premii  
prof. A.V.Pshenichnov) Molotovskogo meditsinskogo instituta  
i Instituta vaktsin i syvorotok (nauchnyy rukovoditel'--  
prof. G.V.Peshkovskiy)  
(SKIN, physiology,  
bactericidal properties)



LIPATOV, Yu.S.; PERYSHKINA, N.G.; VASILENKO, Ya.P.; SERGEYEVA, L.M.

Relationship between the adhesion of polymers to a solid surface  
and their adsorption from solutions. Dokl. AN BSSR 6 no.1:42-44  
Ja '62. (MIRA 15:2)

1. Institut obshchey i neorganicheskoy khimii AN BSSR.  
Predstavleno akademikom AN BSSR M.M.Pavlyuchenko.  
(Polymers)(Adhesion)

LIPATOV, Yu.S.; PERYSHKINA, N.G.; SERGEYEVA, L.M.; VASILENKO, Ya.P.

Interaction of fillers with polymers. Part 4: Adsorption of polymethacrylic acid and its copolymers from solutions by glass fiber of gelatin. Vysokom.sob. 4 no.4:596-600 Ap '62. (MIRA 15:5)

1. Institut obshchey i neorganicheskoy khimii AN BSSR.  
(Methacrylic acid) (~~Adsorption~~) (Glass fibers)



ACCESSION NR: AR 4042251

S/0081/64/000/008/S021/S021

SOURCE: Ref. zh. Khimiya, Abs. 8S107

AUTHOR: Lipatov, Yu. S.; Pery\*shkina, N. G.

TITLE: Influence of small quantities of filler on thermomechanical properties of polystyrene

CITED SOURCE: Sb. Vysshokomolekul. soyedineniya. Adgeziya polimerov. M., AN SSSR, 1963, 45-51

TOPIC TAGS: polystyrene, thermomechanical property, fiberglass filler, filler

TRANSLATION: The thermomechanical properties of polystyrene containing different quantities (2, 5, 10 and 20 wt%) of fiberglass filler are investigated. It was determined that the introduction of even small quantities of filler leads to a change of the entire form of the thermomechanical curve and to expansion of the region of the independence of the magnitude of deformation from temperature. These results

Cord

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ACCESSION NR: AR4042251

are explained by the cross-linking action of filler particles. From data on the kinetics of development of a deformation at constant temperatures and data on the reduction of deformation after removal of loads, the magnitude of highly elastic and viscofluid deformation, depending upon content of filler, are determined. Both deformations decrease with introduction of filler. The modulus of highly elastic deformation increases with the growth of filler content, but this growth is less noticeable at higher temperatures; this is connected with the disintegration of bonds between surface of polymer and filler occurring with an increase in temperature. It is shown that in the filled polymer the speed of the relaxation processes is sharply lowered, which is connected with the limitation of mobility of chains owing to their interaction with the surface of the filler. Some hypotheses about mechanism of deformation of filled polymer are given, and the conclusion is made that the noticeable influence rendered by even small quantities of the introduced filler is connected with the fact that in the formation of the structural lattice of the filled polymer there participate not separate molecules in direct contact with the surface, but secondary molecular structures.

SUB CODE: OC, MT

ENCL: OO

Card 2/2

ACCESSION NR: AR4042250

S/0081/64/000/008/S020/S021

SOURCE: Ref. zh. Khimiya, Abs. 8S106

AUTHOR: Lipatov, Yu. S.; Peryshkina, N. G.

TITLE: Filling and plasticization of atactic and isotactic polystyrene

CITED SOURCE: Sb. Vysshokomolekul. soyedineniya. Adgeziya polimerov. M., AN SSSR, 1963, 107-112

TOPIC TAGS: polystyrene, atactic polystyrene, isotactic polystyrene, plasticization, thermomechanical property, polymer, plasticizer, filler, fiberglass filler

TRANSLATION: Investigates the thermomechanical properties of atactic and isotactic crystalline and amorphous polystyrene, depending upon content of filler (fiberglass) and plasticizer (dimethyl phthalate). It was determined that the introduction of a filler has the greatest influence on the thermomechanical properties of atactic polystyrene and least effect on the properties of crystalline isotactic polystyrene.

Card 1/2

Peryshkina, N. G.

Complex compounds of gluconic acid with some metallic cations. I. The aqueous system  $UO_2(III)$ -gluconic acid. Ye. A. Feller and N. G. Peryshkina (Post Graduate Inst., Kiev). *Zhur. Neorg. Khim.* 3, 139-140 (1957).—A physico-chem. study of the  $Fe^{3+}$ - $C_6H_8O_7(OH)(COOH)$  system by potentiometric titration with NaOH showed that 3 types of complex compds. are formed, depending upon the pH of the soln. In a strongly acid soln. the complex cations  $[C_6H_7O_7Fe]^{2+}$  or  $[C_6H_6O_7Fe]^+$  are formed. As the pH is increased from 2 to 4 this ion is converted into the acid  $H[C_6H_5O_7Fe]$ . At higher pH values, starting at 4-5 to 13, the sodium salt of this acid is formed. The acid and its sodium salt are stable complex compds. and their optical activity  $[\alpha]_D^{25} = +64$  indicates the presence of a ring group- ing in their structure. The acid is a very weak electrolyte. ( $K_{1,2}$  values  $\approx 2 \times 10^{-4}$ ); the Na salt is a strong electrolyte.

J. Rostar Lesch

T 4E4j

fm

AUTHORS: Fialkov, Ya.A., Paryshkina, N.G. 301, 78-3-7-19/44

TITLE: Complex Compounds of Gluconic Acid With the Cations of Some Metals (Kompleksnyye slyeseniya glyukonovoy kisloty s metalami i ikh fiziko-khimicheskiye svoystva). II. Compounds of Chromium and Aluminum (II. Soyedineniya khroma i al'yuminiya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol. 3, Nr. 7, pp. 1578-1588 (USSR)

ABSTRACT: The system of chromium nitrate and aluminum nitrate gluconic acid (or its sodium salt) were produced in an aqueous solution with a wider pH interval. It was found that the chromium gluconate complex is to be considered as a polynuclear chromogluconic acid in which there exist two free carboxyl groups:  $Cr_2(OH)_2C_{18}H_{32}O_{21}$ . In a highly basic medium there exists a uninuclear chromogluconic acid complex which can be expressed by the following formula:  $H[CrC_6H_8O_7]$ . Also in the system aluminum nitrate-gluconic acid-water a similar compound was found:  $Al_2(OH)_2C_{18}H_{32}O_{21}$ . Uninuclear aluminum gluconic acid in a free state was not insulated from an acid medium. (On the other hand,  $NaAlC_6H_8O_7$  is precipitated by the

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Complex Compounds of Gluconic Acid With the Cations of  
Some Metals. II. Compounds With Chromium and Aluminum

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addition of methyl alcohol from a solution of 0.5 mol.  $Al(NO_3)_3$   
and  $NaC_6H_{11}O_7$  and 0.5 NaOH at  $pH=8.2$ .)

The results obtained by physical-chemical and preparatively-analytical investigations confirm the fact that chromium and aluminum do not form normal salts with gluconic acid but complex compounds both in acid and in alkaline solutions. The complexes are more stable in an alkaline medium.

The complex compounds of aluminum and chromium, which are multinuclear complexes of gluconic acid, are precipitated by means of organic solvents from the acid medium. The results obtained by investigations of the systems  $Me^{3+}$ -gluconic acid ( $Me^{3+} = Fe, Al, Cr$ ) were compared with one another and it was found that the constant of the complex decreases in the following order:  $Fe^{3+} > Al^{3+} > Cr^{3+}$ . There are 10 figures, 4 tables and 9 references, 3 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR  
i Kiyevskiy institut usovershenstvovaniya vrachey (Institute of  
General and Inorganic Chemistry AS USSR and Kiyev Institute for  
the Advanced Training of Physicians)

Card 2/3

Complex Compounds of Gluconic Acid With the Cations of  
Some Metals. II. Compounds With Chromium and Aluminum

SOV/ 78-3-7-19/44

SUBMITTED: June 1, 1957

1. Complex compounds--Chemical analysis
2. Complex compounds  
--Properties
3. Gluconic acid--Properties
4. Chromium ions  
--Properties
5. Aluminum ions--Properties

Card 3/3

PIALKOV, Ya.A.; PERYSHKINA, N.G.

Gluconic acid complexes with cations of various metals. Part 2:  
Chromium and aluminum compounds. Zhur. neorg. khim. 3 no.7:  
1578-1588 J1 '58. (MIRA 11:9)

1. Institut obshchey i neorganicheskoy khimii AN USSR i Kiyevskiy  
institut usovershenstvovaniya vrachey.  
(Chromium organic compounds) (Aluminum organic compounds)  
(Gluconic acid)



1. K. Y. G. ...  
FIALKOV, Ya.A.; PLAYSHEINA, N.G.

Complex compounds of gluconic acid with cation of certain metals.  
Part 1: Investigation of the system  $Fe^{3+}$  - gluconic acid in aqueous  
solutions. Zhur. teore. khim. 2 no. 4: 749-759 April 1967. (Ukrainian)

L. Kirevskiy Institute sovvershenstvovaniya vrachey i Institut vrachey  
i neorganicheskoy khimii Akademii nauk Ukrainirskoy SSR.  
(Complex compounds)  
(Chemistry)

S 3200  
S 1105

S/190/62/004/004/016/019  
B117/B138

AUTHORS: Lipatov, Yu. S., Peryshkina, N. G., Sergeyeva, L. M., Vasilenko, Ya. P.

TITLE: The interaction of polymers with fillers. IV. Adsorption of gelatin, polymethacrylic acid and their copolymers by glass fibers from solutions

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 596-600

TEXT: The adsorption of edible gelatin and polymethacrylic acid from aqueous solutions, as well as of the copolymers of styrene and methacrylic acid from solutions in organic solvents, was studied with glass fibers at 30°C. It was intended to clarify the effect of the nature of solvent on adsorption and to check previous conjectures. In the concentration range with noticeable structure formation of the gelatin (0.2%), the adsorption of gelatin from aqueous solutions was found to reach a diffuse maximum and to disappear at a concentration of 0.4%. This confirms previous assumptions (Ref. 2: Yu. S. Lipatov, Dokl. AN BSSR, 5, 69, 1961) that the transition of molecular aggregates to the surface becomes more difficult with progressive

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S/190/62/004/004/016/019  
B117/B138

The interaction of polymers...

structure formation. For solutions in urea, which prevents structure formation of gelatin, a slighter adsorption and a lower maximum, shifted towards higher concentrations, were ascertained. No adsorption was found in the case of polymethacrylic acid, owing to globular coiling of molecules. During partial neutralization (5-50%) of the acid, which causes uncoiling of the chain, the adsorption values found did not exceed the measurement errors. Copolymer with a low number of methacrylic acid links (1.6%) was adsorbed from benzene solution, but not from cyclohexanone, which confirmed the theory of the effect of the solvent quality on adsorption. In the concentration range of 0.1 - 2%, copolymer with 24% methacrylic acid links was not adsorbed from any of the solvents used (dioxane, acetone/benzene mixture). Beside the chemical nature of the polymer, the form of its chains and degree of structure formation, other factors must also be considered during the adsorption of water-soluble polymers from aqueous solutions: strong blocking of gelatin molecules (owing to reaction with water), strong intramolecular bonding of carboxyl groups (in the case of polymethacrylic acid) and the interaction between solvent (water) and the surface of the adsorbent. Conclusion: The following main factors affect adsorption of polymers from solutions: (1) shape of the macromolecule; (2) degree of intermolecular

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S/190/62/004/004/016/019  
B117/B138

The interaction of polymers...

interaction in solutions; (3) nature of the solvent. The latter determines the degree of molecular interaction and is able to block active groups of the polymer or the surface of the adsorbent. There are 1 figure and 2 tables. The two English-language references are: N. Widerhorn, A. R. Brown, J. Polymer Sci. 8, 651, 1952; P. Graham, M. Glackman, J. Polymer Sci., 38, 417, 1959.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN BSSR (Institute of General and Inorganic Chemistry AS BSSR)

SUBMITTED: March 24, 1961

Card 3/3

L 08911-67 EMT(m) DG/UM

ACC NR: AF6023070

(A)

SOURCE CODE: UR/0191/66/000/004/0060/0063

AUTHOR: Peryshkina, N. G.; Soldatov, V. S.; Sudarikova, N. I.

ORG: none

TITLE: Effect of heat treatment on the properties of the ion-exchange resin KB-4 2P

SOURCE: Plasticheskiye massy, no. 4, 1966, 60-63

TOPIC TAGS: ion exchange resin, heat resistance, thermal effect, pyrometer

ABSTRACT: The present studies of cationic KB-4 2P have been prompted by the theoretical and the practical interest in the heat resistance of carboxyl ionites and the possibility of their regeneration. The commercial ionite KB-4 2P (copolymer of meta-crylic acid and 2% divinyl benzene) in its hydrogen and potassium forms was used. The potassium form was obtained by treating the ionite with 2N solution of caustic potash. Both forms were air-dried. The exchange volume of the resin was 10.4 meq/g. Water sorbtion of the original H- and K- forms of the ionite was 0.63g and 2.20 g of H<sub>2</sub>O/g of dry ionite, respectively. The differential thermograms (Figure 1) were obtained with the aid of a Kurnakov pyrometer at a cooling rate of 80/min. Weight loss was determined for a continually rising temperature, and for a constant temperature before the specimen's weight became constant. The temperature dependence of the exchange volume of the ionite is shown in Figure 2. The separation of water at tempera-

Card 1/3

UDC: 661.183.123.01 : 536

L 08911-67

ACC NR: AP6023070

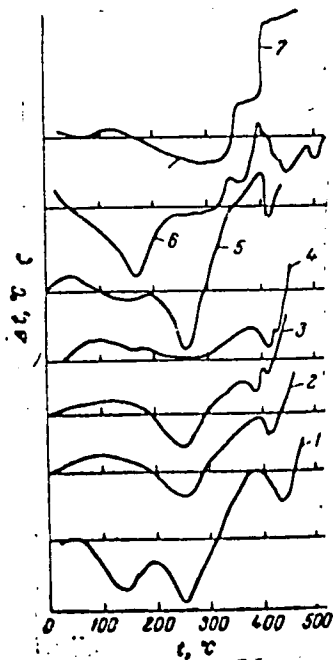


Figure 1. Differential thermograms  
 Curves 1-4: H<sup>+</sup>-form, air-dried ionite, heat treated at 110, 160, 200, and 260C  
 Curve 5: specimen heat-treated at 200C with the exchange volume restored by alkali, dried at 100C  
 Curve 6-7: specimens of the K<sup>+</sup>-form, air-dried and heat-treated at 160C, respectively

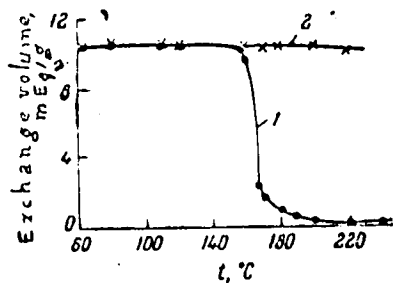


Figure 2. Temperature dependence of the exchange volume of the ionite

Curve 1: heat-treated ionite  
 Curve 2: specimens of the same ionite heat-treated and treated with alkali (hence converted to H<sup>+</sup>- form to determine the exchange volume)

[Abstractor's Note: It seems that the unit of exchange volume is in error. In the text it was given as mEq/g. In the Figure the Russian letter for g is omitted.]

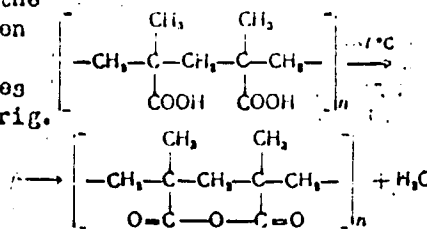
Card 2/3

L 08911-67

ACC NR: AF6023070

tures between 160-260C and the corresponding minimum at 260C (curves 1, 2 in Figure 1) are conjectured to result due to the deformation of a polymeric anhydride:

The elementary analysis of the original and heat-treated ionite confirm this conjecture. The heat resistance of the ionite was studied under production conditions, i.e. when the ionite was exposed to hot electrolytes at pH > 8 and subsequent regeneration. The heat treatment not only does not reduce the exchange volume but even increases it. Orig. art. has: 5 fig. and 1 formula.



SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002

Card 3/3 *pld*

1. 51526-65

ACCESSION NR: AP5015323

UR/0286/65/000/009/0077/0077  
535.885.5(088.8)

AUTHOR: Vinogradov, G. E.; Zavodchikov, G. I.; Tel'tevskiy, I. A.; Kolomiytsov, Yu. V.; Golubovskiy, Yu. M.; Mikhaylova, K. A.; Kudryavtsev, M. P.; Peryshkov, N. S.; Nefedov, B. L.; Tkachuk, N. N.; Rodzevich, I. V.; Samurov, L. A.

TITLE: A photoelectric autocollimation tube. Class 42, No. 170707

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 77

TOPIC TAGS: collimator, optical equipment, photocell

ABSTRACT: This Author's Certificate introduces a photoelectric autocollimation tube which contains an optical system for projecting an image of the working slit on a reflecting autocollimation mirror. The optical system then projects the autocollimation image onto photocells which are connected in an electric measuring circuit. This circuit puts out a signal which corresponds to the position of the sight axis of the optical system with respect to the autocollimation mirror. The instrument is designed for reliable operation and simplified construction. The working slit is made up of reflecting fins, e.g., mirrors, fastened to a transpa-

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rent plate in the focal plane of the main lens of the projection system. These reflectors direct the autocollimation image of the working slit along auxiliary optical channels to the photocells which operate on an on-off basis. The photocell located in the main channel, which receives the autocollimation image passed by the working slit, also operates on an on-off basis.

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Card 2/2

KOWARZYKOWA, Zofia; ZARZYCKI, Jan; KARPIAK, Stanislaw E.;  
KOWALEWSKA, Danuta; PERYT, Alina; CZECHOWICZ, Kazimierz

Metabolic gradient of the embryonic heart. Postepy hig. med.  
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1. Z Instytutu Immunologii i Terapii Doswiadczalnej PAN im.  
L. Hirszfelda we Wroclawiu.

(MYOCARDIUM) (METABOLISM)  
(STAINS AND STAINING)  
(CHICK EMBRYO)

PERYT, Alina

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2. "Comparative Study of Methods of Identifying Bone Marrow Cells Transplanted into Animals with Severe Irradiation and Effects of the Rejection of Free For and Preservation of Health." (Zaklad Ochrony Zdrowia i Pracy) Research Institute (Instytut Badawczy) of the Polish Academy of Sciences (Prof. Dr. B. NOJAK); pp 23-26.
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PERYT, A.

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POLAND

KOWARZYKOWA, Zofia, ZABRZYCKI, Jan, KARPIAK, Stanislaw E.,  
KOWALEWSKA, Danuta, PERYT, Alina, and CZECHOWICZ, Kazimierz;  
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[Polska Akademia Nauk, Polish Academy of Sciences], Wroclaw

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Abstract: Preliminary report. Comparative studies of the  
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the carbohydrate metabolism in pulps and extracts of these  
tissues. Biochemical determinations revealed a metabolic  
gradient, not previously noted to the knowledge of the  
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(CARCINOGENS) (GLUCOSE PHOSPHATASES)  
(LIVER ENZYMOLOGY) (KIDNEY)  
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