

LAPSHIN, Fedor Alekseyevich; KOMAROV, Sergey Georgiyevich; BOCHARNIKOVA,  
K.N., inzhener, redaktor; YUDZON, D.M., tekhnicheskij redaktor.

[Railroad cars] Vagonnoe khoziaistvo. Moskva, Gos.transp.shel-dor.  
izd-vo, 1955. 190 p. (MLRA 8:9)  
(Railroads--Cars)

KOMAROV, S.G.

FRANSMV, Andrey Nikolayevich; KOMAROV, S.G., red.; VERINA, G.P., tekhn.red.

[Machinist's handbook on repair of freight cars] Posobie slesariu  
po remontu gruzovykh vagonov i poezdakh. Moskva, Gos. transp. shel-  
dor. izd-vo, 1958. 190 p. (MIRA 11:5)  
(Railroads--Freight cars--Maintenance and repair)

KOMAROV, S.G.; SAMOKHVALOV, S.F.; BELAVENTSEV, N.V.; BOMBARDIROV, P.P.;  
VERINA, A.A.; BLIZNYUK, V.F.; LADYGIN, V.I.; PEROV, A.N.; VASIL'YEV,  
I.P.; BRODOVICH, N.B.; RABINOV, A.M.; ALEKSEYEV, V.D.; YEGOROV,  
V.A., inzh.,red.; ARSHINOV, I.M., inzh.,red.; VERINA, G.P., tekhn. red.

[Handbook on the repair of freight cars] Spravochnik po remontu  
gruzovykh vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 503 p.  
(MIRA 11:12)

(Railroads--Freight cars--Maintenance and repair)

FRANTSEV, Andrey Nikolayevich; KOMAROV, S.G., red.; VERINA, G.P.,  
tekhn.red.

[Mechanic's manual for the maintenance of freight cars in  
operation] Posobie slesariu po remontu gruzovykh vagonov v  
poezdakh. Izd.2., perer. i dop. Moskva, Gos.transp.shel-dor.  
izd-vo, 1959. 235 p. (MIRA 12:12)  
(Railroads--Freight cars--Maintenance and repair)

KOMAROV, S.G.; KITOV, A.N., inzh.; DOROFYEV, V.G.; SHEHEMET'YEV,  
M.A.; FOMIN, A.A.; KOSAREV, A.A.; SARANTSEV, Yu.S., red.;  
VERINA, G.P., tekhn.red.

[Handbook for the repair of passenger cars] Spravochnik po  
remontu passazhirskikh vagonov. Moskva, Vses.izdatel'sko-  
poligr.ob"edinenie M-va putei soobshcheniia, 1960. 631 p.

(MIRA 13:6)

(Railroads--Passenger cars--Maintenance and repair)

## PHASE I BOOK EXPLOITATION

SCV/5872

Komarov, S. G. Doctor of Technical Sciences, ed.

Spravochnik geofizika, v chetyrekh tomakh. t. 2: Geofizicheskiye metody issledovaniya skvazhin (The Geophysicist's Handbook, in Four Volumes. v. 2: Geophysical Methods in the Exploration of Wells) Moscow, Gostoptekhizdat, 1961. 760 p. Errata slip inserted. 6130 copies printed.

Editorial Board: V. V. Fedynskiy, Chairman, V. N. Dakhnov, V. G. Vasil'yev, Ye. N. Kalenov, S. G. Komarov, M. K. Polshkov, L. A. Ryabinkin; Executive Ed.: Ye. G. Pershina; Tech. Ed.: E. A. Mukhina.

PURPOSE: The book is intended for scientific workers in the field of industrial geophysics.

COVERAGE: This volume of the four-volume Geophysicist's Handbook series deals with the geophysical exploration wells. It contains data on various types of logging: electrical, radioactivity, gas, induction, sonic, magnetic, etc. Problems of ground selection, perforation, and well shooting are analyzed. The theory behind the various methods is briefly outlined. The apparatus and equipment used in various industrial geophysical explorations are described, and the

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APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824110002-3"

The Geophysicist's Handbook (Cont.)

SOV/5872

ways of interpreting the materials obtained are discussed. In addition, the handbook contains information on the organization of geophysical operations, safety measures, and general information on drilling. No personalities are mentioned. There are 341 references: 290 Soviet, 46 English, and 5 French.

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AVAILABLE: Library of Congress

SUBJECT: Geophysics

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2-2-62



KASHCHEYEV, Nikolay Tarasovich; VALETOV, Aleksandr Ivanovich; KOMAROV,  
Sergey Georgiyevich; POGORELYY, B.G., inzh., retsenzent;  
SARANTSEV, Yu.S., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Manual on the structures and equipment of railroad car maintenance  
and repair depots] Spravochnik po sooruzheniam i oborudovaniu  
vagonnogo khoziaistva. Moskva, Transzheldorizdat, 1962. 423 p.  
(MIRA 15:6)

(Railroads- Cars). (Railroads--Repair shops)

KOMAROV, S.G.; SHMAROVA, V.P.

Membrane potential of clay. Prikl. geofiz. no.31:288-293 '61.  
(Clay--Electric properties) (MIRA 15:3)

ANDREYEV, Mikhail Grigor'yevich; SMOL'YANINOVA, Aleksandra Mitrofanovna;  
KOLEDENKOV, Sergey Semenovich; KOMAROV, Sergey Georgiyevich;  
SHMANTSAR', D.N., retsenzent; DOROFYEVA, A.I., retsenzent;  
PESKOVA, L.N., red.; VOROTNIKOVA, L.F., tekhn. red.

[Planning, business accounting and analysis of the administrative  
operations of a railroad car depot] Planirovanie, khozraschet i  
analiz khoziaistvennoi deiatel'nosti vagonnogo depo. Moskva,  
Tranzhaldorizdat, 1962. 149 p. (MIRA 15:12)  
(Railroads---Finance)

KOMAROV, S. I.

Technical conference on industrial water supply to metallurgical  
and by-product coking plants. Prom.energ. 15 no.3:51  
Mr '60. (MIRA 13:6)

(Water--Distribution)

KOMAROV, S.I.

Competition for the best suggestion on the economy of fuel in ferrous metallurgy plants. Prom.energ. 16 no.5:12-14 My '61.

(MIRA 14:7)

(Fuel) (Metallurgical plants)

L 8132-66

ACC NR: AP5025072

SOURCE CODE: UR/0286/65/000/016/0130/0131

AUTHOR: Komarov, S. K. 84

ORG: none

TITLE: Device that prevents winding of net ropes on ship propeller shafts. Class 65, No. 174084

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 130-131

TOPIC TAGS: ship screw, marine propeller 55

ABSTRACT: This Author Certificate presents a device to prevent winding of net ropes, cables, etc onto ship propeller shafts. The device includes a shaft cover placed between the stern post and the ship propeller (see Fig. 1). To provide reliable protection by forming a directed flow which will turn aside the ropes, the cover is made in the form of two cone-shaped rings which are axially joined at their widest diameter and connected to the divider which in turn is attached to the stern post in the diametral plane of the ship.

Card 1/2

UDC: 629.1.037.4:621-783.632.1

L 8132-66

ACC NR: AP5025072

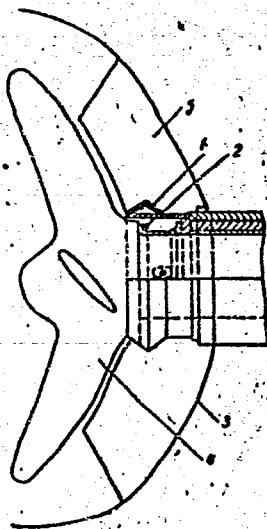


Fig. 1. 1- cover; 2- propeller shaft;  
3- stern post; 4- ship screw;  
5- separator

Orig. art. has: 1 figure.

SUB CODE: PR, GO, IE/ SUBM DATE: 17Mar64

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Card 2/2

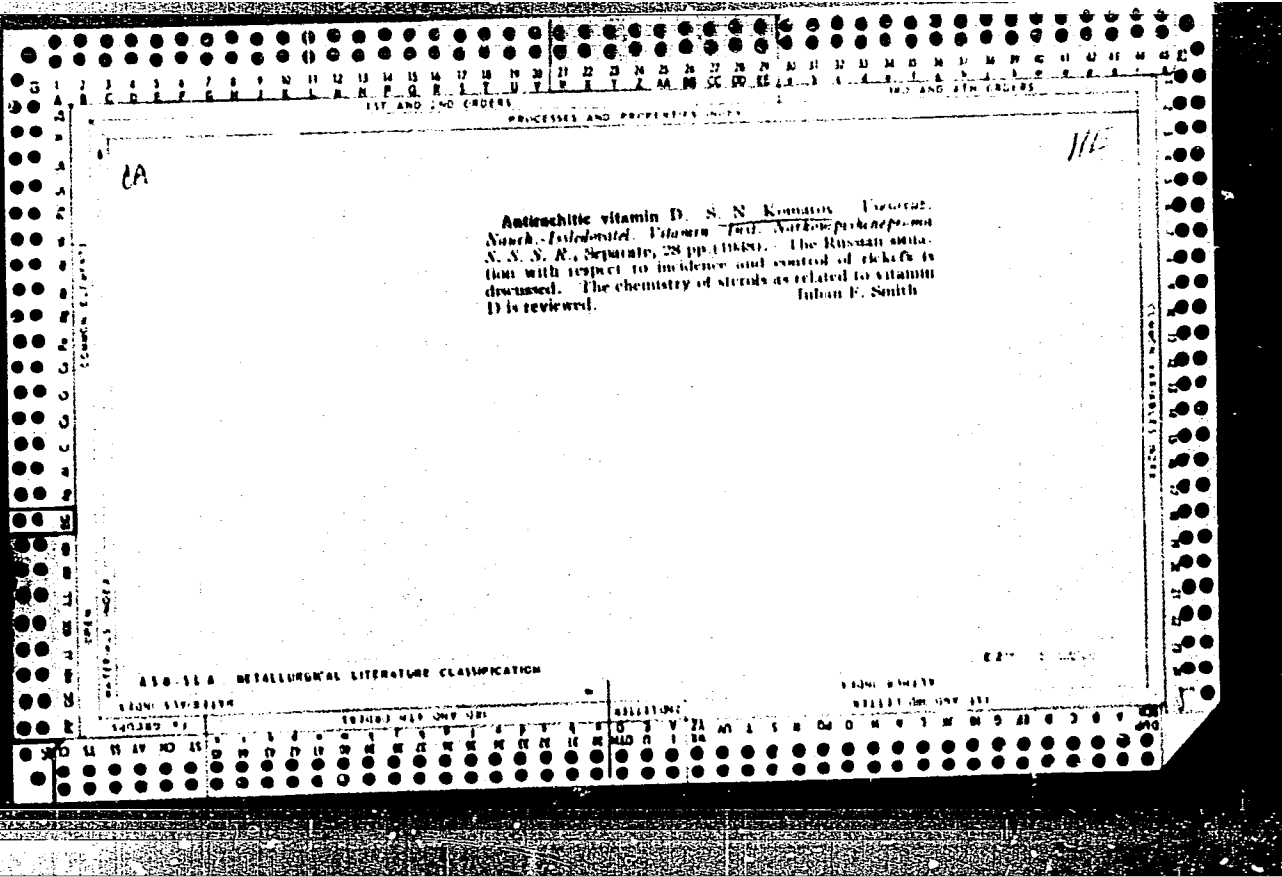
YEL'TSOV, B.V.; KOMAROV, S.M.

Using ZAUS regulators at the Novosibirsk Heat and Electric Power  
Plant no.4. Priborostroenie no.5:22-23 My '64. (MIRA 17:6)



TIMOSHIN, V. S., inzh.; KOMAROV, S. M., inzh.

Adjustment of an impulse device controlling the loading of ball  
mills according to a "level" pulse. Energetik 12 no.4:12-14  
Ap '64. (MIRA 17:7)



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137 AND 139 CSERIES

17

CA

Making preparations of vitamin B complex, suitable for parenteral administration. S. N. Kozmicos and O. H. Shewman. *Proc. Soc. Ind. Hygiene Research U. S. S. R.* 3, No. 1, 98-234(1941). A simplified method has been developed for prep. B vitamins (chiefly B<sub>1</sub>) from fresh brewers' yeast for parenteral administration. No expts. were made with aq. alc. because of its cost; full attention was given to extn. with hot water. Flavins (B<sub>2</sub>) and B<sub>6</sub> do not respond to the same extn. conditions. Yield of B<sub>1</sub> was doubling, whereas yield of I was decreased, by preautolysis of the yeast in presence of CHCl<sub>3</sub> at 57°C or by extg. the boiled yeast 24 hrs. at room temp. The optimum conditions for extg. I are pH 4, boiling time about 30 min.; for B<sub>2</sub>, pH 6-8, boiling time 2-4 min. Both I and B<sub>2</sub> are about 80% recovered from the aq. ext. by adsorption on gumbrin, a Caucasian bleaching earth; at pH 3.5-4.5 in 10-20 min. Adsorption with gumbrin. 80% B<sub>2</sub> recovers about 80% of the adsorbed B<sub>2</sub> and is superior to the pyridine method of Green and Black (*C. A. B. 66, 685P*). A 2% NaOH soln. was used for elution of I. The B<sub>1</sub> eluate was extd. with 80% EtOH, which was then dild. with Et<sub>2</sub>O and extd. with H<sub>2</sub>O in small portions. The final aq. ext. contained about 60% of the adsorb. B<sub>1</sub>. To recover I the 2% NaOH eluate was acidified w. HCl, extd. with NaCl and extd. with 80% EtOH. By fractional distn. a combined eluate was finally obtained with 0.15 mg. I and 1.5 mg. B<sub>2</sub> per ml. Presence of all the B vitamins in this prepn. was indicated by a biol. assay. J. P. Scith

ASA-ILA METALLURGICAL LITERATURE CLASSIFICATION

6-27-42, 137-139

FROM DIVISION OF CHEMISTRY

RECEIVED ONE NOV 1941

KOMAROV, S. N.

The vitamin D content of the Baltic codfish. S. N. Komarov. *Trudy Vsesoyuz. Nauch.-Issledovatel. Vitamin. Inst.* 4, 209-11(1953).—The liver fat of the Baltic codfish contains 80-250 I.U./ml. of vitamin D, the Murmansk fish 10-40 I.U./ml. B. B. Levin

Vitamins in nutrition of children: feeding flour with vitamins A and D. S. N. Kontarov and I. N. Vol'ner (All-Union Sci. Research Vitamin Inst. and Food Concentrate Combine, Leningrad). *Voprosy Pitaniya* 13, No. 6, 32-4 (1954).—A good quality wheat flour contains only traces of vitamins A and D. For feeding children, 25-50 I.U. vitamin D and 30-35 I.U. vitamin A/g. can be mixed with the flour. The vitamins in the flour remained unchanged during 8.5 months storage under normal conditions. E. W.

KOMAROV, S.P., podpolkovnik, Geroy Sovetskogo Soyuza

When regulations are not followed. Vest.Vozd.Fl.  
no.7:64-65 JI '60. (MIRA 13:7)  
(Aeronautics--Safety measures)

KOMAROV, S.<sup>p.</sup> podpułkownik, bohater Związku Radzieckiego; GRECZYŃ, W., kapitan,  
inz.

Elimination of premises causing aeronautical accidents. Wojsk  
przeł 13 no.10:22-26 0 '60.

KOMAROV, Sergey Vasil'yevich; GROMOVA, V.A., red.; NAZAROVA, A.S., tekhn. red.

[How a motion picture is produced] Kak sozdaetsia kinofil'm. Moskva, Izd-vo "Znanie" Vses. ob-va po rasprostraneniu polit. i nauchn. znani, 1961. 39 p. (Narodnyi universitet kul'tury. Fakul'tet literatury i iskusstva, no.6) (MIRA 14:7)  
(Motion pictures--Production and direction)



KAMINSKIY, P.; KOMAROV, V.

Safe work methods. Stroitel' 8 no.9:28-29 S '62. (MIRA 15:12)  
(Building--Safety measures)

KOMAROV, V.

Our aid to collective farms. Posh.delo 3 no.4:30 Ap '57.

(MIRA 10:7)

(Firemen)

KOMAROV, V., kapitan

Improve the performance of warehouses. Voen.svias. 16 no.4:26  
Ap '58. (Warehouses) (MIRA 11:4)

KOMAROV, V.

Russia - Economic Policy

Stalinist program of communist construction. V. pom.profaktivu 14, no. 8, 1953.

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

KOMARKOV, V.; GETMANENKO, V., starshiy master stantsii

Nonflammable cleaning solutions. Posh.delo 5 no.7:14 Jy '59.  
(MIRA 12:9)

1. Nachal'nik Novosibirskoy posharno-ispytatel'noy stantsii  
(for Komarkov)  
(Cleaning compounds)

LISTOPAD, G. (Velikiy Ustyug, Vologdskaya obl.); KOMAROV, V.  
(Novgorodskaya obl.); FEDOROVYKH, I. (Toguchinskiy rayon,  
Novosibirskaya obl.); SUVOROV, A. (Omsk); TROSHKOV, D.  
(Permskaya obl.); ZAGOROVSKIY, L.; GLOBUSOV (Sverdlovskaya obl.)

1. Readers' letters. Pozh.delo 8 no.12:31 p '62. (MIRA 16:1)  
(Fire prevention)

KOMAROV, V.

What automation leads to under capitalism ("Automation and social process" by S.Lilly. Reviewed by V.Komarov). Sov.profsoluzy 7 no.10:59-61 My '59. (MIRA 12:9)  
(Labor laws and legislation--Dictionaries)  
(Lilly, S.)

ZOTOV, I.; KOMAROV, V.

Posters are a form of concrete propaganda of leading work methods.  
Sots. trud. no. 8:122-126 Ag '58. (MIRA 11:9)

1. Sekretar' partkoma metallozavoda Moskovskogo oblastnogo sovnarkhoza (for Zotov). 2. Nachal'nik otdela truda i zarabotnoy platy metallozavoda Moskovskogo oblastnogo sovnarkhoza (for Komarov).  
(Moscow Province--Metal industries) (Posters)



SHNEY DERMAN, M., insh.; KOMAROV, V.

Machine for straightening wheel disks. Avt.transp. 38  
no.3:28-29 Mr '60. (MIRA 13:6)  
(Machine tools)

GRAKHOVSKIY, R.; KOMAROV, V.

Heater for automobiles. Za rul. 18 no.10:24-25 0 '60.

(Automobiles—Cold weather operation)

(MIRA 14:10)

KOMAROV, V., inzh.

Safety regulations for preparing mortars and concrete mixes.  
Stroitel' no. 12:26-27 D '60. (MIRA 13:12)  
(Industrial safety) (Mortar) (Concrete)

KOMAROV, V., inzh.

Taking measures to improve working conditions. Stroitel' no.6:25-26  
Je '61.

(MIRA 14:7)

(Construction industry—Safety measures)

KOMAROV, V., polirovshchik, udarnik kommunisticheskogo truda

(Cool eyes, warm smile and good spirits. Obshchestv. pit.  
no.11:48-49 N '61. (MIRA 15:2)

1. Zavod "Moskabel".  
(Restaurants, lunchrooms, etc.)

KOMAROV, V., polirovshchik

Warmhearted woman. Obshchestv. pit. no.10:19-21 0 '61. (MIRA 15:1)

1. Zavod "Moskabel".  
(Moscow--Restaurants, lunchrooms, etc.--Management)

KOLCHIN, A.; KOMAROV, V., mekhanik; ARENDT, G.

Where is the new ER-10 excavator? Stroi. truboprov. 7 no.4:25  
Ap '62. (MIRA 15:5)

1. Nachal'nik stroitel'nogo uchastka No.6 tresta  
Soyuzprovodmekhanizatsiya (for Kolchin). 2. Nachal'nik  
spetsial'nogo konstruktorskogo byuro Gazstroy Mashina (for  
Arendt).

(Excavating machinery)

KOMAROV, V.

Guarantee certificate as an indicator of the work performed. Stroitel'  
8 no.4:10-11 Ap '62. (MIRA 15:7)  
(Building—Contract and specifications)



L 12897-63 EWP(r)/FGS(g)/EWT(d)/EWT(l)/EWT(m)/BDS AFFTC/APGC

ACCESSION NR: AP3000179

S/0029/63/000/005/0018/0018

57

56

AUTHOR: Komarov, V. (Student)

TITLE: Uniform-strength structures -- the limit of possibility

SOURCE: Tekhnika molodezhi, no. 5, 1963, 18

TOPIC TAGS: uniform-strength wing, stress calculation, sandwich-type construction

ABSTRACT: V. Komarov was awarded a gold medal for his research on and calculations of a uniform-strength wing having only one point of attachment. The wing investigated had diverging longerons and the metal was so distributed as to assure a structure of maximum rigidity. The study showed that uniform-strength wings are the lightest in weight. However, their manufacture is complicated, since the sandwich-construction edges have a variable cross section. Therefore, calculations were made for a uniform-strength wing with longerons and edges having a constant cross section. Calculations showed that it was advantageous to use sectional edges. The increased rigidity of the edges decreased the stress on the long longerons and increased the stress on the short ones. The stress in a uniform-strength structure is the same in all of

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ACCESSION NR: AP3000179

its cross sections, proportional to the load. Therefore, the method of calculation is not based upon the stress diagram and is equally accurate for metals, plastics, reinforced plastics, and other materials not subject to Hooke's Law. Orig. art. has: 1 figure.

ASSOCIATION: Kuybyshhevskiy aviatsionnyy institut (Kuybyshev Aviation Institute)

SUBMITTED: 00

DATE ACQ: 10Jun63

ENCL: 00

SUB CODE: AP

NO REF SOV: 000

OTHER: 000

Card 2/2

KOMAROV, V.

KOMAROV, V.

~~From three whales to the geoid. IUn.tekh. 2 no.1:16-21 Ja '58.~~

(MIRA 11:1)

(Earth--Figure)

KOMAROV, V.

Why did giant pangolins die out? IUn. tekhn. 2 no.7:41-46  
Jl '58. (MIRA 11:10)  
(Extinct animals) (Paleontology--Mesozoic)

KOMAROV, V.

Cosmic chemistry. *IUn.tekh.* 2 no.8:27-30 Ag '58.  
(MIRA 12:7)

(Cosmogony)

KOMAROV, V.

The 61st satellite. IUn.tekh. 3 no.1:53-54 Ja '59.  
(MIRA 12:1)  
(Satellites)

KOMAROV, V.

Volcano on the moon. IUn.tekh. 3 no.3:37-41 Mr '59.

(MIRA 12:4)

(Moon--Surface)

KOMAROV, V.

Solar system in 1959. IUn.tekh. 3 no.4:13-16 Ap '59.

(MIRA 12:4)

(Solar system)



KOMAROV, V., lektor

Road to outer space. Mast. ugl. 8 no. 12:3-4 D '59.  
(MIRA 13:4)

1. Moskovskiy planetariy.  
(Space flight)

KOMAROV, V., lektor

Man strives to conquer outer space. Sov.shakht. 10 no.8:42-  
44 Ag '61. (MIRA 14:6)

1. Moskovskiy planetariy.  
(Astronautics)

KOMAROV, V.

The new and progressive are winning out ("Fighter planes take  
off" by I. Grebeniuk. Reviewed by V. Komarov. Kryl.rod.  
12 no.4:19 Ap '61. (MIRA 14:7)

(Flight training)  
(Grebeniuk, I.)

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1003/1203

**AUTHORS:** Komarov, V., and Smirnov, M. V.

**TITLE:** Equilibrium potentials of hafnium in mixed fluoride-chloride melts <sup>1</sup>

**SOURCE:** Akademiya nauk SSSR. Ural'skiy filial. Institut elektrokhemii. Trudy, no, 1961, Elektrokhemiya rasplavlennykh soleyvykh i tverdykh elektrolitov. 19-22

**TEXT:** The formation of stable hafnium-fluorine complexes in the above salts can be deduced from the results of equilibrium potential measurements of hafnium and from the fact that no solid phase of any hafnium compound containing fluorine is formed when NaCl-KCl fused salts containing up to 3.4 wt % of Hf and up to 35 wt % of NaF are heated between 700 and 900°C. The equilibrium potentials of hafnium were measured against a chlorine reference electrode in NaCl-KCl fused salts containing from 0.99 to 3.4 wt % of Hf and 1.36 to 15.8 wt % of fluorine at 700, 800, and 900°C. Formulas representing the temperature dependence of the equilibrium potential and of the instability coefficient of the  $HfF_6^{2-}$  ion are given. There are 2 figures. J

Card (1/1) <sup>1</sup> REFERENCE S/631/61/002/002/013

KOMAROV, V., general-polkovnik

Acquire combat training in the field. Starsh.-serzh. no.5:10  
My '62. (MIRA 15:6)

1. Zamestitel' glavnokomanduyushchego Sukhoputnymi voyskami,  
nachal'nik Glavnogo upravleniya boyevoy podgotovki.  
(Military education)

KOMAROV, V.

Farther and farther into the outer space. Sov.shakht. 11  
no.11:41-43 N '62. (MIRA 15:11)

1. Chlen Vsesoyuznogo astronomo-geodesicheskogo obshchestva pri  
Akademii nauk SSSR.

(Astronautics)

KOMAROV, Viktor'

Satellites over the planet. Prir i znanie 15 no.9:18-19 N '62.

1. Nauchen komentator na Agentsiata po pechata Novosti.

KOMAROV, V.

Star map. Nauka i znan' 29 no.7:109 J1 '62.  
(Stars--Atlases)

(MIRA 16:6)



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(np)/TR (nq)/TR (nr)/TR (ns)/TR (nt)/TR (nu)/TR (nv)/TR (nw)/TR (nx)/TR (ny)/TR (nz)/TR (oa)/TR (ob)/TR (oc)/TR (od)/TR (oe)/TR (of)/TR (og)/TR (oh)/TR (oi)/TR (oj)/TR (ok)/TR (ol)/TR (om)/TR (on)/TR (oo)/TR (op)/TR (oq)/TR (or)/TR (os)/TR (ot)/TR (ou)/TR (ov)/TR (ow)/TR (ox)/TR (oy)/TR (oz)/TR (pa)/TR (pb)/TR (pc)/TR (pd)/TR (pe)/TR (pf)/TR (pg)/TR (ph)/TR (pi)/TR (pj)/TR (pk)/TR (pl)/TR (pm)/TR (pn)/TR (po)/TR (pp)/TR (pq)/TR (pr)/TR (ps)/TR (pt)/TR (pu)/TR (pv)/TR (pw)/TR (px)/TR (py)/TR (pz)/TR (qa)/TR (qb)/TR (qc)/TR (qd)/TR (qe)/TR (qf)/TR (qg)/TR (qh)/TR (qi)/TR (qj)/TR (qk)/TR (ql)/TR (qm)/TR (qn)/TR (qo)/TR (qp)/TR (qq)/TR (qr)/TR (qs)/TR (qt)/TR (qu)/TR (qv)/TR (qw)/TR (qx)/TR (qy)/TR (qz)/TR (ra)/TR (rb)/TR (rc)/TR (rd)/TR (re)/TR (rf)/TR (rg)/TR (rh)/TR (ri)/TR (rj)/TR (rk)/TR (rl)/TR (rm)/TR (rn)/TR (ro)/TR (rp)/TR (rq)/TR (rr)/TR (rs)/TR (rt)/TR (ru)/TR (rv)/TR (rw)/TR (rx)/TR (ry)/TR (rz)/TR (sa)/TR (sb)/TR (sc)/TR (sd)/TR (se)/TR (sf)/TR (sg)/TR (sh)/TR (si)/TR (sj)/TR (sk)/TR (sl)/TR (sm)/TR (sn)/TR (so)/TR (sp)/TR (sq)/TR (sr)/TR (ss)/TR (st)/TR (su)/TR (sv)/TR (sw)/TR (sx)/TR (sy)/TR (sz)/TR (ta)/TR (tb)/TR (tc)/TR (td)/TR (te)/TR (tf)/TR (tg)/TR (th)/TR (ti)/TR (tj)/TR (tk)/TR (tl)/TR (tm)/TR (tn)/TR (to)/TR (tp)/TR (tq)/TR (tr)/TR (ts)/TR (tt)/TR (tu)/TR (tv)/TR (tw)/TR (tx)/TR (ty)/TR (tz)/TR (ua)/TR (ub)/TR (uc)/TR (ud)/TR (ue)/TR (uf)/TR (ug)/TR (uh)/TR (ui)/TR (uj)/TR (uk)/TR (ul)/TR (um)/TR (un)/TR (uo)/TR (up)/TR (uq)/TR (ur)/TR (us)/TR (ut)/TR (uu)/TR (uv)/TR (uw)/TR (ux)/TR (uy)/TR (uz)/TR (va)/TR (vb)/TR (vc)/TR (vd)/TR (ve)/TR (vf)/TR (vg)/TR (vh)/TR (vi)/TR (vj)/TR (vk)/TR (vl)/TR (vm)/TR (vn)/TR (vo)/TR (vp)/TR (vq)/TR (vr)/TR (vs)/TR (vt)/TR (vu)/TR (vv)/TR (vw)/TR (vx)/TR (vy)/TR (vz)/TR (wa)/TR (wb)/TR (wc)/TR (wd)/TR (we)/TR (wf)/TR (wg)/TR (wh)/TR (wi)/TR (wj)/TR (wk)/TR (wl)/TR (wm)/TR (wn)/TR (wo)/TR (wp)/TR (wq)/TR (wr)/TR (ws)/TR (wt)/TR (wu)/TR (wv)/TR (ww)/TR (wx)/TR (wy)/TR (wz)/TR (xa)/TR (xb)/TR (xc)/TR (xd)/TR (xe)/TR (xf)/TR (xg)/TR (xh)/TR (xi)/TR (xj)/TR (xk)/TR (xl)/TR (xm)/TR (xn)/TR (xo)/TR (xp)/TR (xq)/TR (xr)/TR (xs)/TR (xt)/TR (xu)/TR (xv)/TR (xw)/TR (xx)/TR (xy)/TR (xz)/TR (ya)/TR (yb)/TR (yc)/TR (yd)/TR (ye)/TR (yf)/TR (yg)/TR (yh)/TR (yi)/TR (yj)/TR (yk)/TR (yl)/TR (ym)/TR (yn)/TR (yo)/TR (yp)/TR (yq)/TR (yr)/TR (ys)/TR (yt)/TR (yu)/TR (yv)/TR (yw)/TR (yx)/TR (yy)/TR (yz)/TR (za)/TR (zb)/TR (zc)/TR (zd)/TR (ze)/TR (zf)/TR (zg)/TR (zh)/TR (zi)/TR (zj)/TR (zk)/TR (zl)/TR (zm)/TR (zn)/TR (zo)/TR (zp)/TR (zq)/TR (zr)/TR (zs)/TR (zt)/TR (zu)/TR (zv)/TR (zw)/TR (zx)/TR (zy)/TR (zz)

APR 5 1965 NR: AP5001808 5 0209104 000 017 010 17,2M/ML/DW

AUTHOR: Komarov, V. (Engineer, Colonel, Hero of the Soviet Union, Aviator, Cosmonaut) 60 B

TITLE: For the good of all mankind (the flight of the three-man "Voskhod" spacecraft) 2

SOURCE: Avfatsiya i kosmonavtika, no. 12, 1964, 27-30

TOPIC TAGS: "Voskhod" series, astronaut training, manned satellite, spacecraft, spacecraft instrumentation, weightlessness, space flight, space observation, "Voskhod" spacecraft

ABSTRACT: The author was one of the three-man crew aboard the Soviet "Voskhod" spaceship which was launched on 12 October 1964 and landed, after 10 orbits around the Earth, on 13 October 1964. In the present article, he discusses some of the aspects of that historic space flight. The presentation is in a popular and non-technical style and is aimed at the non-specialist reader. The other members of the crew (K. P. Feoktistov, the scientist, and B. B. Yegorov, the astronaut-medic) are identified and their duties are briefly defined. The flight program, which the author states was scheduled for execution in a single 24-hour period and which was carried out completely, included the following basic goals: 1) the testing

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ACCESSION NR: AP5001808

of the design and operational characteristics of the new multi-place piloted spacecraft, its systems and its instrumentation; 2) the study of the capability for work and cooperation in flight of a group of astronauts, consisting of specialists in various fields; 3) the conducting of scientific investigations of a physical-technical and medical-biological nature during the conditions of an extended space flight; 4) the continued study of the effect of various spaceflight-related factors on the human organism. The need for a close spirit of cooperation and friendly mutual assistance among all 3 crew members for the successful execution of this flight program is noted. Mention is made of the training of the crew that preceded the actual launching, and attention is called to the fact that the crew took an actual part in the creation of the "Voskhod" vehicle, and of its systems and instrumentation. The author states that the so-called "medical-biological preparation" (that is, testing and training) was carried out according to an "abbreviated program". This program apparently included vestibular, G-force-support and emotional training elements. Noting that all six "Vostok" spacecraft were single-man flights, the author points out that the expanded 3-man "Voskhod" spacecraft made it possible not only to enlarge the scope of the scientific program of the undertaking considerably, but also to place the observations on a more scientific and higher level. The need to suspend observa-

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ACCESSION NR: AP5001808

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tions for the time required by the astronaut for sleep, for example, which was inherent in the "Vostok" flights, was easily eliminated in the case of the "Voskhod" by the simple expedient of conducting the observations in shifts. Greater objectivity through a diversity of interpretation is also afforded by a crew rather than by a single astronaut. Among the other items mentioned by the author one might single out the fact that for the first time the astronauts were not encumbered by the usual "space-suit", the fact that the "soft-landing" system performed perfectly, the fact that a "new principle for the control of the spacecraft was experimentally checked out" (this "new principle" is not further discussed or identified), and the fact that a series of experiments with liquids and gases under the conditions of weightlessness were carried out. Orig. art. has: 3 photographs.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: SV, PH

NO REF SOV: 000

OTHER: 000

Card 3/3 *mb*

ACC NR: AP7005431

SOURCE CODE: UR/0209/66/000/009/0040/0043

AUTHOR: Komarov, V. (Colonel; Cosmonaut; Hero of the Soviet Union)

ORG: none

TITLE: Scientific expeditions in space

SOURCE: Aviatsiya i kosmonavtika, no. 9, 1966, 40-43

TOPIC TAGS: astronaut, spaceborne earth observation, aurora, space flight

## ABSTRACT:

Cosmonaut V. Komarov quotes his fellow cosmonaut K. P. Feoktistov who made observations from space: "Observations of the horizon were made for obtaining data on the clarity of the boundary of the horizon for the purpose of selecting a reference layer in the optical range for ensuring navigation and orientation in orbital and interplanetary flights when it is necessary to use the earth as a reference celestial body during astronavigational measurements and for orientation of space-ships and automatic space vehicles. In most cases on the daytime side of the earth the horizon is observed both as the boundary of the atmosphere and the earth and a "layer" of a blue aureole with a clear upper boundary. The upper boundary of this aureole is clearer than the apparent boundary between the earth and atmosphere. After the ship entered the earth's shadow it was possible to observe a layer of brightness at an altitude of 60-100 km above the boundary between the earth and atmosphere. The brightness of the layer was close to the brightness observed at the horizon of the earth, illuminated by the moon. The crew

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ACC NR: AP7005431

was most impressed by an aurora which was observed in Antarctica prior to emergence from the shadow. The picture was as follows: horizon, dark sky, upper layer of brightness illuminated by the moon, and above it -- rays perpendicular to the horizon with an altitude of 6-8° and intervals of about 2°. Along the horizon the aurora occupied the entire visible field of view. It was found possible to measure the altitude of stars above the visible horizon, which in the future will make it possible in space flights to automatically determine spacecraft position and compute its trajectory of motion and necessary corrections. It was possible to observe luminescent particles in the portholes of the ship when the direction of observation was perpendicular to the sun's rays. Presumably those were dust particles separated from the ship, illuminated by the sun and situated several meters from the ship." The objective of this article is to demonstrate that the role of the scientific specialist aboard a spacecraft is exceptionally varied and important for direct observations in space. A table accompanying the text lists different types of possible scientific flights, the recommended orbital altitude, optimum number of crew members and duration of flight and the equipment which should be carried and the experiments to be carried out (however, it is noted that this information was taken from the foreign press). Orig. art. has: 1 table. [JPRS: 38,677]

SUB CODE: 22 / SUBM DATE: none

KOMAROV, V. #

MEH, S.A., dots.; KOMAROV, V.A., red.; BEGICHEVA, M.N., tekhn.red.

[Conveying machines and installations] Transportiruiushchie mashiny  
i ustanovki. Moskva, Izd-vo M-va rechnogo flota SSSR, 1951. 503 p.  
(Conveying machinery) (MIRA 11:2)

VOROBTSOV, Yevgeniy Stefanovich; KOMAROV, V.A., retsenzent; ANDREYEVA,  
L.S., red.; TIKHONOVA, Ye.A., tekhn.red.

[Mechanization of transfer operations of hold, freight car, and  
warehouse materials in seaports] Mekhanizatsiia triumnykh,  
vagonnykh i skladskikh peregruzochnykh rabot v morskikh portakh.  
Moskva, Izd-vo "Morskoi transport," 1961. 346 p.

(MIRA 15:5)

(Materials handling)

(Harbors)

Komarov, V. A.

AID P - 4069

Subject : USSR/Power

Card 1/1 Pub. 26 - 27/33

Author : Komarov, V. A., Eng.

Title : Defects in preassembled current transformers.

Periodical : Elek. sta., 12, 55, 1955

Abstract : The article describes defects found in transformers delivered at a new power plant's construction site. Gaging transformers were shipped back to the factory.

Institution : None

Submitted : No date



KOMAROV, V.A.

KOMAROV, V.A., insh.

Rope carrying system in repairing 400 kv cutouts. Energetik 5  
no.10:19-21 0:157. (MIRA 10:12)  
(Electric lines--Maintenance and repair)

BAZHINOV, A.G., podpolkovnik meditsinskoy sluzhby; KAMORSKIY, N.M., podpolkovnik;  
KOMAROV, V.A., podpolkovnik, kand.khimicheskikh nauk

New substances and methods for disinfecting hospital rooms (as  
revealed by foreign studies). Voen.-med. zhur. no.7:53-56 J1 '61.

(MIRA 15:1)

(DISINFECTION AND DISINFECTANTS) (HOSPITALS-SANITATION)

KOMAROV, V.A.

Ecology of penduline titmouse (*Remiz pendulinus caspius* Poelsam)  
in the Volga Delta. Trudy Astr. zap. no.5:262-268 '61.  
(MIRA 16:8)

(Volga Delta--Titmice)

BOGOMOLOV, V. P.; ZHEREBTSOVA, K. I.; KRASNOV, L. V.; KOMAROV, V. A.; LITVIN, V. F.;  
NEPOMNOV, Yu. A.

"Investigations of the Reactions of Type (d,p) on Isotopes of Zn, Ni,  
and Fe<sup>58</sup>."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22  
Feb 64.

Radiyevyy Institut (Radium Inst)

KOMAROV, V.A.; MUSIYACHENKO, T.I.

Let's overcome our shortcoming. Zemledelie 26 no.12:20-23 D '64.  
(MIRA 18:4)

1. Direktor sovkhosa "Yarul'skiy", Rybinskogo proizvodstvennogo upravleniya, Krasnoyarskogo kraya (for Komarov). 2. Glavnyy agronom sovkhosa "Yarul'skiy", Rybinskogo proizvodstvennogo upravleniya, Krasnoyarskogo kraya (for Musiyachenko).

2

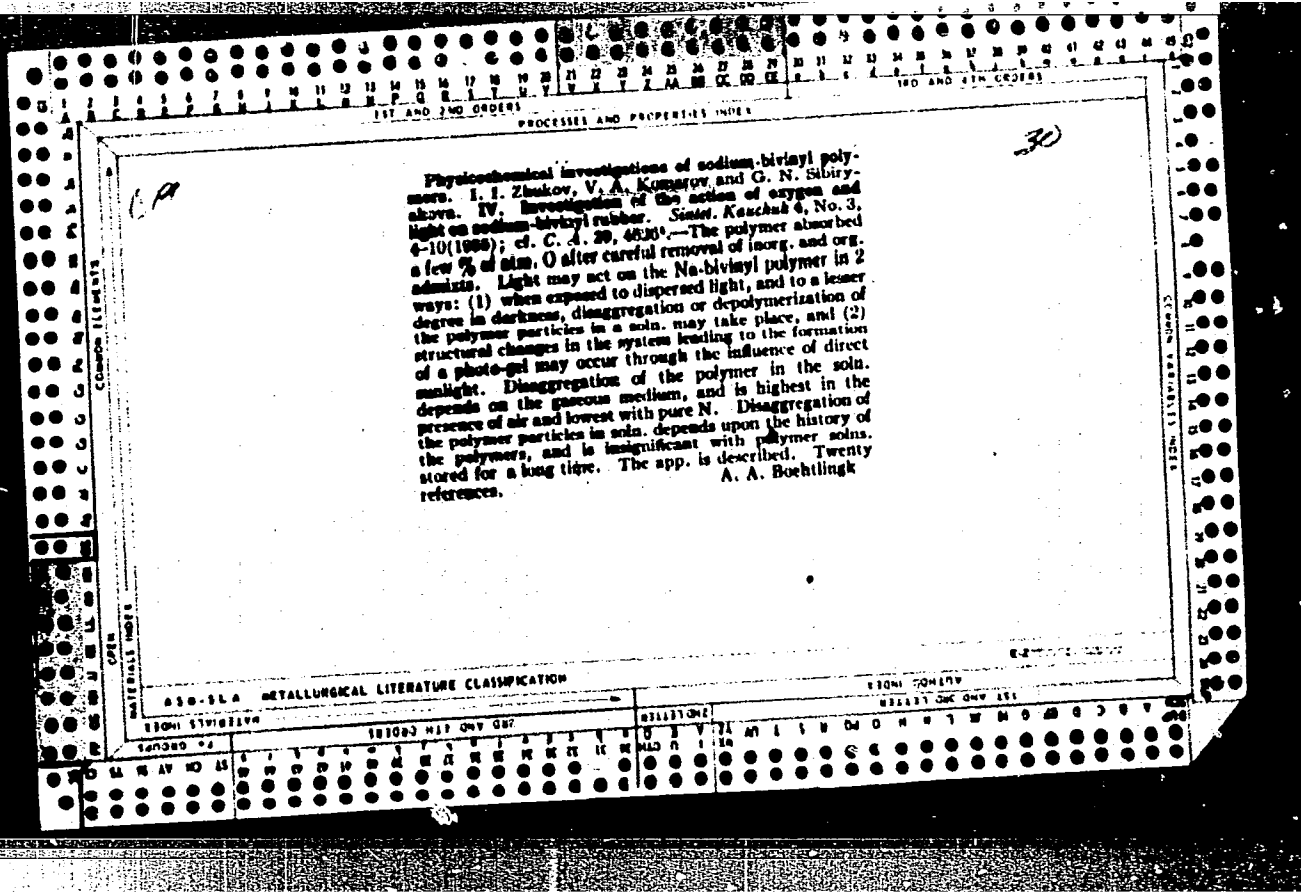
CA

Colloid-chemical properties of sodium divinyl polymers. I. I. Zhukov, V. I. Koryukov and V. N. Sokolova. *Colloid J. (U. S. S. R.)* 1, 5-8 (1935).—A discussion of various formulas and their application to data in the literature. II. Action of oxygen and light on polymers. I. I. Zhukov, V. A. Kornatov and O. A. Bibiryukova. *Ibid.* 9-10.—Curves show that in the dark the viscosity of polymers of plasticity 0.4 increases twice as fast in air as in CO<sub>2</sub>, while in the light it increases twice as fast almost independently of the gas (air, CO or N<sub>2</sub>) used. III. Swelling of sodium divinyl polymers. I. I. Zhukov and P. M. Simkhovich. *Ibid.* 11-15.—Data are given for polymers vulcanized with 2 to 24% S. IV. Fractionation of polymers. I. I. Zhukov, F. M. Simkhovich, S. L. Talmud and V. P. Nikol'skaya. *Ibid.* 16-20.—Various fractions are obtained by means of petroleum ether, benzene and CHCl<sub>3</sub>.

V. Glass-like properties of sodium divinyl polymers. The elements of glass capacity and the methods of its measurement. I. I. Zhukov and S. L. Talmud. *Ibid.* 20-5.—Rupt. data are given on the adhesion and cohesion of various synthetic and natural rubbers. F. H. R.

ASB 33A METALLURGICAL 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
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Microfilm frame containing a document page. The page is titled "PROCESSES AND PROPERTIES INDEX" and contains a handwritten "ca" in the top left and a handwritten "2" in the top right. The main text is a scientific abstract:

Kinetics of the oxidation of iron chloride by atmospheric oxygen under pressure. V. V. Ipatieff, Jr., V. A. Kurmanov and D. E. Kurmansev. *J. Phys. Chem.* (U. S. S. R.), 6, 1043-50 (1935).—FeCl<sub>3</sub> was oxidized by O<sub>2</sub> at 35° to 75° and at pressures of 10 to 40 atm. The velocity of reaction is a function of H-ion concn. (it varies for different temps.; increase in H<sup>+</sup> at low temp. increases, and at high temp. decreases, the rate of reaction). Above 150° FeCl<sub>3</sub> recomposes to FeCl<sub>2</sub>. The rates of oxidation are given by the Arrhenius equation. F. H. R.

Below the abstract, there is a section for "ASSOCIATED LITERATURE CLASSIFICATION" with a grid of classification codes. The grid includes columns for "CLASSIFICATION" and "ASSOCIATED LITERATURE".



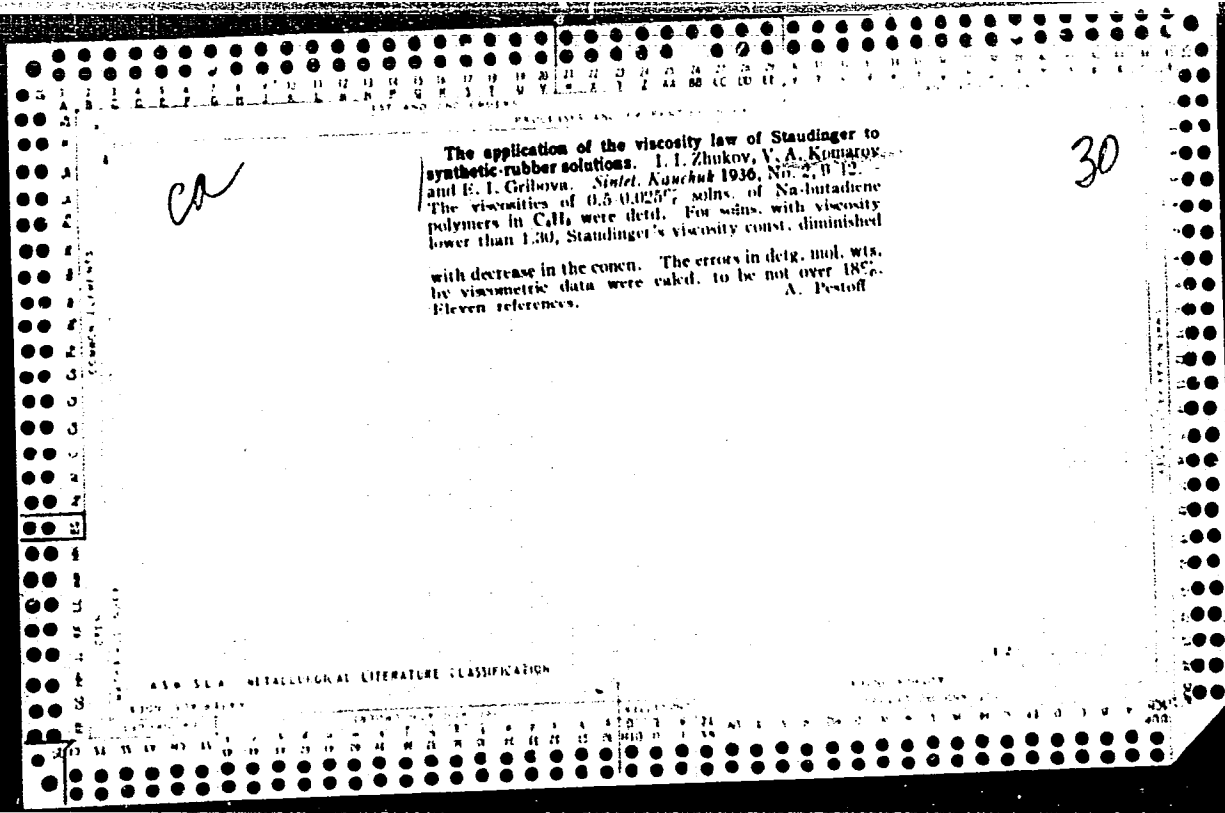
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*Ca*

**The influence of heating on sodium butadiene rubber in solution.** I. I. Zhukov, V. A. Komarov, S. F. Val'ter and R. I. Gribova. *Sistat. Kázhchú* 1936, No. 2, 4-9. - Na butadiene rubber (I) was purified by pptn. with alc. from  $C_6H_6$  soln. and dried *in vacuo* to const. wt.  $C_6H_6$  solns. of prepd. I of 0.1, 0.2, 0.3, 0.5 and 1.5% concns. were sealed and heated at 100°, 115°, 130° and 150°, resp. for different times. The changes were followed in 2 ways: (1) by viscosity changes in an Ostwald viscometer at 25° in N; the relative viscosity  $\eta_r$  (the ratio of the time of flowing of the soln. to the time of flowing of pure solvent) was detd. and by using  $\eta_r$ , the mol. wt. of the polymer in soln. (M) and the sp. vol. of polymer in soln. (f) were calcd.; and (2) by measuring the surface tension between a  $C_6H_6$  soln. of rubber and water ( $\sigma$ ) (the surface tension showed the degree of oxidation). Heating up to 100° slightly changed  $\eta_r$ , M, f and  $\sigma$ , but from 100° to 150°,  $\eta_r$ , M, f and  $\sigma$  decreased rapidly, and  $\eta_r$  nearly approached the viscosity of the solvent. The time of heating had the same effect upon  $\eta_r$ , M, f and  $\sigma$ , the values of which decreased to a certain min., after which further heating increased them. The 0.5% solns. of I in several org. solvents were heated for 24 hrs. at 130° and  $\eta_r$ , M, f and  $\sigma$  were detd. It was found that the nature of the solvent has a decided influence on the degree of depolymerization (the ratio of the mol. wts. after and before heating of the polymer M1/M2). For *l*-pinene, M1/M2 was 0.54; *d*-pinene 0.29; PhCl 0.10;  $C_6H_6$  0.11;  $CHCl_3$  0.070;  $CCl_4$  0.07; xylene 0.18; cyclohexene 0.12; dichloroethylene 0.23; cumene 0.33. To 100 cc. of 0.5% soln. of polymer in  $C_6H_6$  was added 0.01 g. of antioxidant (Agerite, Neozone, Albazan, etc.), the mixts. were sealed in ampoules and heated for 24 hrs. at 130°. These tests were made in air, N and *in vacuo*. All antioxidants prevented decrease in viscosity and surface tension on heating. With decrease in the antioxidants from 0.5 to 0.0156%, their stabilizing action diminished. In the absence of an antioxidant *in vacuo*, depolymerization was much less, but the antioxidant exerted its stabilizing action in air, N and *in vacuo*. The heating of the polymer with an antioxidant *in vacuo* resulted in less depolymerization than without antioxidant ( $\sigma$  without antioxidant 28.0, with 20.2; M 37,200 and 52,700; f 60.6 and 77.3;  $\eta_r$  1.01 and 2.28). Therefore, the antioxidant exerted its stabilizing action upon the polymer, even when O was practically absent. The action of the antioxidant consisted: (1) in preventing oxidation of the polymer, and (2) in a general stabilizing effect upon high-mol. substances. The authors suggest that these antioxidants be designated: "stabilizers" or "antiagers." Seventeen references are included.

A. Petroff

ALSO SEE METALLURGICAL LITERATURE CLASSIFICATION



PROCESS AND PROPERTIES INDEX

30

Applicability of the Staudinger viscosity law to synthetic rubber solutions. I. I. Zhukov, V. A. Komarov and B. I. Gribova. *Colloid J. (U. S. S. R.)* 7: 119-120(1965); cf. *C. A.* 50, 4717. Data on dil.  $C_6H_6$  solns. of Na divinyl polymers and of chloroprene and Na isoprene (0.02 to 0.5%) show that the Staudinger const.:  $KM = (\eta - 1)/c$ , increases with increasing concn. Z., K. and G. hold that this is due not to a change in mol. wt. with concn., but to the approximation character of the viscosity law, which is valid only at low concns. The plasticities and mol. wts., resp., of the polymers used were: Na divinyl I, 0.24, 88,000; Na divinyl II, 0.28, 30,000; Na divinyl III, 0.44, 35,500; chloroprene 27,500; Na isoprene 33,000.

F. H. Rathmann

METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

1ST AND 2ND CROSS

3RD AND 4TH CROSS

5TH AND 6TH CROSS

7TH AND 8TH CROSS

9TH AND 10TH CROSS

11TH AND 12TH CROSS

13TH AND 14TH CROSS

15TH AND 16TH CROSS

17TH AND 18TH CROSS

19TH AND 20TH CROSS

21ST AND 22ND CROSS

23RD AND 24TH CROSS

25TH AND 26TH CROSS

27TH AND 28TH CROSS

29TH AND 30TH CROSS

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33RD AND 34TH CROSS

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39TH AND 40TH CROSS

41ST AND 42ND CROSS

43RD AND 44TH CROSS

45TH AND 46TH CROSS

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51ST AND 52ND CROSS

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67TH AND 68TH CROSS

69TH AND 70TH CROSS

71ST AND 72ND CROSS

73RD AND 74TH CROSS

75TH AND 76TH CROSS

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79TH AND 80TH CROSS

81ST AND 82ND CROSS

83RD AND 84TH CROSS

85TH AND 86TH CROSS

87TH AND 88TH CROSS

89TH AND 90TH CROSS

91ST AND 92ND CROSS

93RD AND 94TH CROSS

95TH AND 96TH CROSS

97TH AND 98TH CROSS

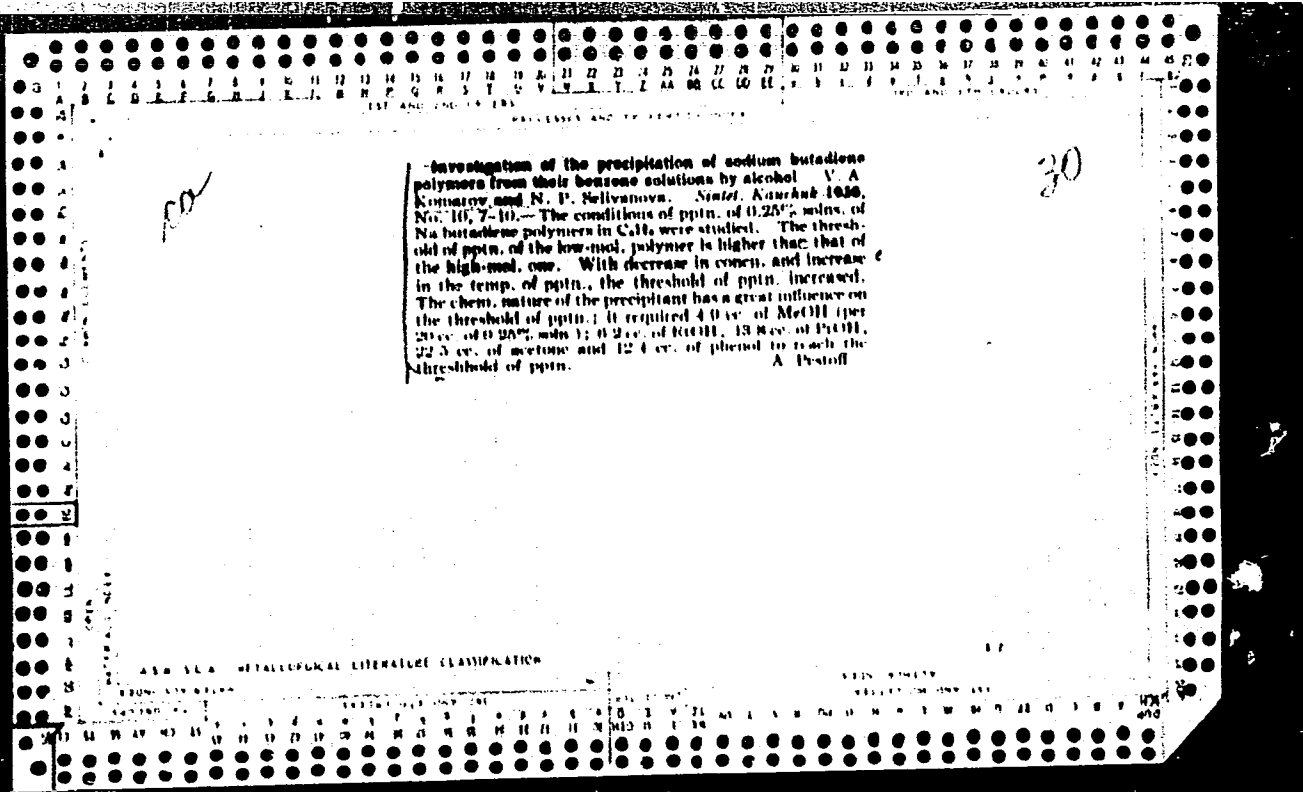
99TH AND 100TH CROSS

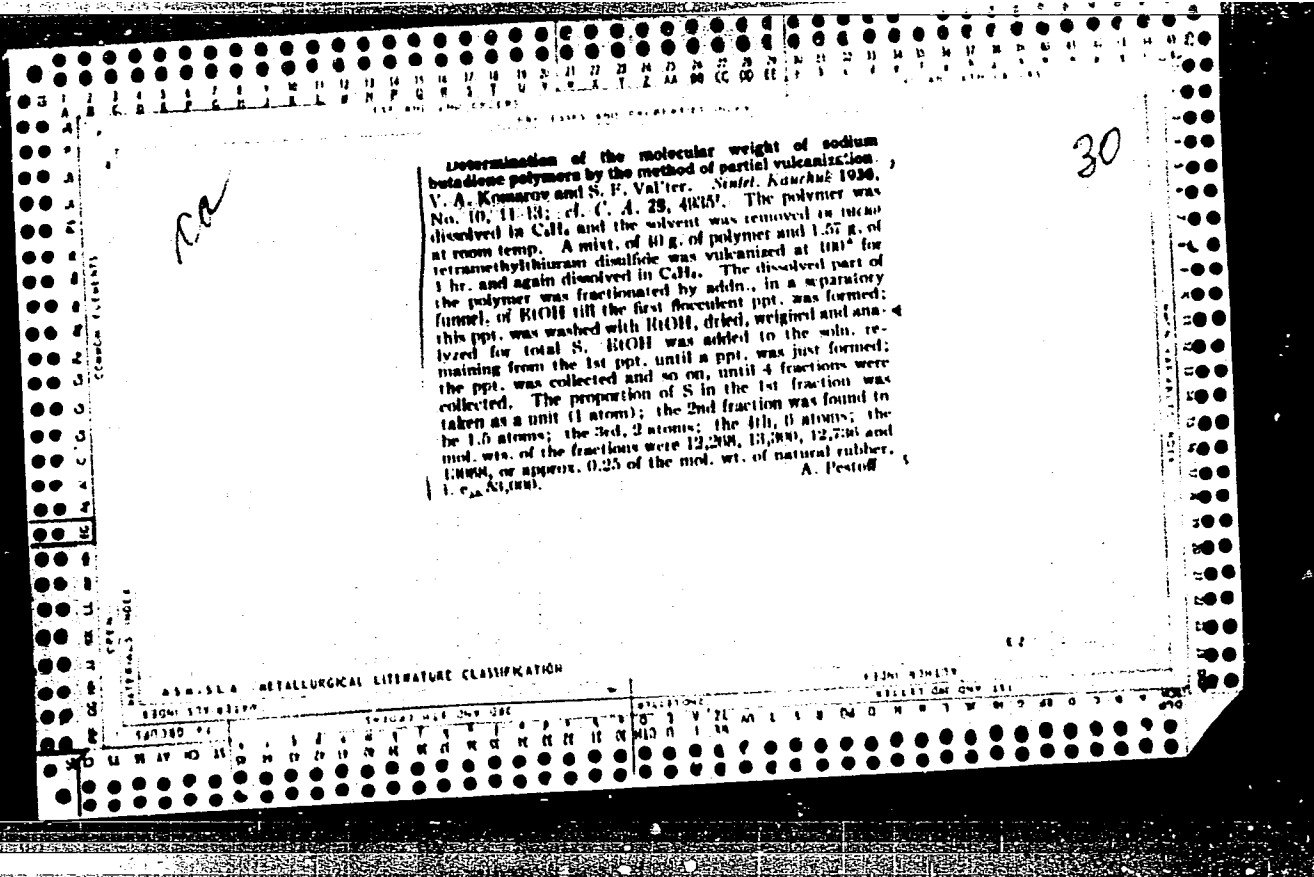
PROCESSES AND PROPERTIES INDEX

30

The influence of milling on the colloidal chemical properties of sodium butadiene rubber. I. I. Zhukov, V. A. Kuznetsov, G. I. Gribova and N. L. Selivanova. *Soviet Rubber* 1956, No. 1, 4-8. Na butadiene rubber (I) of plasticity 0.1-0.2 (Karrer) was milled at 15° and 60° for 3 min. to 3 hrs. with and without Agcrite (II). The mol. wt. of I decreased with increase in the time of milling: from 72,000 after 3 min. to 3000 after 2 hrs.; therefore the sol. form of I was depolymerized. This depolymerization was less in the presence of II. The proportion of the insol. form of the polymer increased from 68.0% after 3 min. of milling to 83.4% after 2 hrs. of milling at 15° without II; with II it decreased from 69% (10 min.) to 6% (3 hrs.). The viscosity of a 0.25% soln. of I in C<sub>6</sub>H<sub>6</sub> decreased from 1.90 after 3 min. of milling to 1.04 after 2 hrs. The interfacial tension between water and a soln. of the polymer in C<sub>6</sub>H<sub>6</sub> did not change. The viscosity of I after being milled without II and then let stand increased with the time of rest from 1.26 (25 min. of rest) to 1.77 (2 hrs., 40 min. of rest). The proportion of the insol. form of the polymer did not change after rest. Nineteen references. A. P.

A.S.M.S.A. METALLURGICAL LITERATURE CLASSIFICATION





1ST AND 2ND ORDERS  
PROCESSES AND PROPERTIES INDEX

16D AND 17M ORDERS

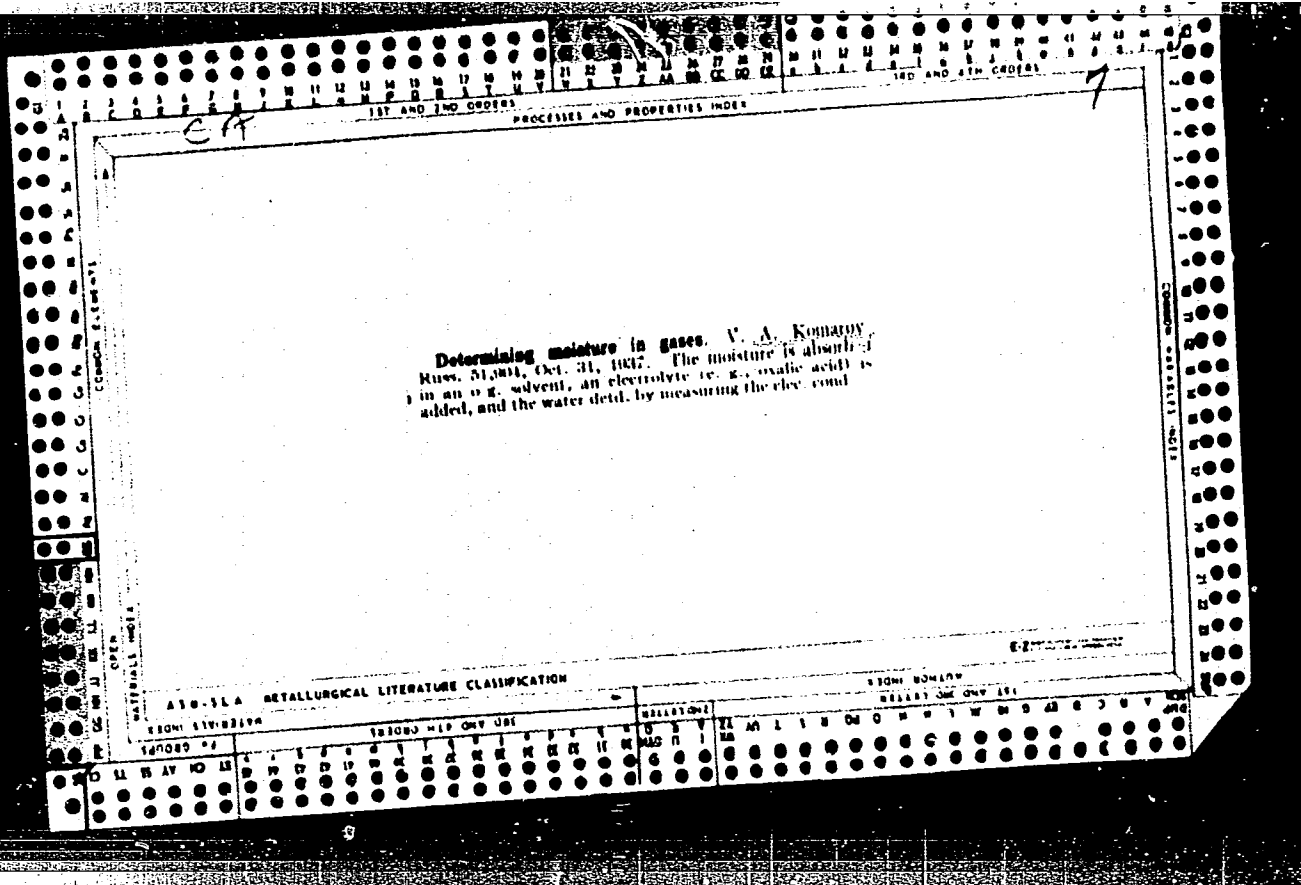
CO

The solution of sodium butadiene polymers in solutions.  
V. A. Komarov and E. I. Gribova. *Sintet. Kautschuk*  
1956, No. 11-12, 9-12; cf. C. A. 29, 2051<sup>1</sup>.—The change  
of viscosity of 0.2% solns. of Na butadiene polymer  
(plasticity 0.1) in CCl<sub>4</sub>, Et<sub>2</sub>O, CCl<sub>4</sub> and BuOAc with the  
addn. of EtOH (as a precipitant) was studied. The viscos-  
ity of the solns. decreased with the addn. of a precipitant  
(the proportion of EtOH used was less than the amt. re-  
quired to reach the threshold of pptn.) which condition  
is indicative of desolvation. Seven references. A. P.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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16D AND 17M ORDERS





PROCESSES AND PROPERTIES INDEX

*ca* *30*

**Methods for determining the colloidal-chemical characteristics of sodium-bivinylyl rubber.** I. I. Zhukov and V. A. Komarov. *Sbornik Trudov Opytnogo Zavoda im. S. V. Lebedeva* 1938, 3-11; *Khim. Referat. Zhur.* 2, No. 5, 19(1939); cf. C. A. 33, 4100'. —The colloidal-chem. properties of Na-bivinylyl rubber were detd. from the soly. of the rubber, from its fractional coupn., and from the  $\eta$  of its dil. solns. A detailed description of the methods of these detns. is given. Measurements of the  $\eta$  were performed in an Ostwald viscometer for volatile substances (the vol. of the upper ball was 1 cc, and the diam. of the capillary 0.2 mm.). 0.25% solns. of the polymers in  $C_6H_6$  were used for the detns. The soly. detns. were made by shaking the samples of the polymers in little batiste bags in  $C_6H_6$  and by detg. the soly. of the polymer from the concn. of the soln. The soly. of the coreless rubber increased from milling (after 45 min.'s milling the rubber dissolved in 24 hrs.). The rate of soln. was increased 10-fold by heating the rubber on a water bath. The ratio solvent:sample, can vary between wide limits without important changes in the soly. The soly. of rubber decreased when the rubber was kept in storage. The sepn. of the polymers was performed by fractional pptn. with alc. from  $C_6H_6$  solns. of the polymers. To 3 portions of 25 cc. of 1% soln. of the polymer add 7.6, 17.4 and 34.7 cc. of alc., resp., let stand overnight and det. the wt. of the ppt. by drying to const. wt. at 75-85°. These amts. of alc. correspond in general to the pptn. of the 1st and the 2nd fractions. The 3rd fraction is pptd. by an excess of alc. and the 4th fraction remains in soln. and is detd. from the difference. W. R. Henn

METALLURGICAL LITERATURE CLASSIFICATION

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13000 13000 13000 13000

117 AND 118 CROSS  
119 AND 120 CROSS

PROCESSES AND PROPERTIES INDEX

2

*Ca*

Organogels and organosols. Colloid-chemical properties of sodium-divinyl polymers. I. I. Zhukov, V. A. Komarov and B. L. Talmud. *Bull. acad. sci. U. R. S. S., Chem. Div. Math. Nat., Ser. Chem.* 1965, 775-90 (in English, 700-2). *Ch. C. A.* 30, 6402-9, 7909-3.—A review of 27 expts. and of some literature on the subject. The Na-divinyl polymers consist of a mixt. of  $C_{11}$ -sol. and -insol. forms, possessing different phys. properties based on the difference in their mol. wt. Heating to 100° does not appreciably affect the mol. wt., but at higher temps. the mol. wt. is sharply reduced and the viscosity is close to that of the pure solvent. At const. temp. the mol. wt. rapidly diminishes with increase in duration of heating. With heating under const. conditions the change in the mol. wt. is independent of the concn. of the soln. Expts. with 44 org. solvents showed that unsatn. promotes swelling. Na-divinyl polymers treated with antioxidants are transformed into an insol. form in sunlight or elec. arc light, the ultraviolet part of the spectrum with  $\lambda < 280 m\mu$  producing a further polymerization. 30 references. J. G. Tolpin.

AUG-61A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBOLS

FROM SYMBOLS

RELATIONS

RELATIONS

GROUP #1

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KOMAROV, V.A.

✓ New trends in the scientific research work of the Chemical Institute of the Leningrad University, V. A. Komarov, Vestnik Leningrad Univ. 2, No. 1, 201-2 (1947).—A discussion of the work which is planned for the coming 5-year period. Special emphasis is placed on the study of alloys and the production of synthetic (Fischer-Tropsch) fuels. I. Koytar Leach. 1

CA

2

Surface determination by the method of adsorption of vapors. V. A. Komarov, V. M. Dronova, and E. A. Chernikova. *Zh. Fiz. Khim.* 23, 1141-51(1949).—Adsorption of  $N_2$  by  $MgO$ ,  $ZnO$ ,  $CdO$ , and  $Cr_2O_3$  (all pptd. from nitrate salts with  $NH_3$  and heated to  $500^\circ$ ), by  $Cr_2O_3$  from  $(NH_4)_2Cr_2O_7$  by a natural and 3 artificial samples of  $SiO_2$ , and by metallic  $Mg$  and  $Zn$  was detd. at  $-185^\circ$ . The surface  $S_1$  calcd. from the adsorption at which the linear portion of the isotherm starts usually was smaller than that,  $S_2$ , calcd. from the Brunauer-Emmett-Teller theory (C.A. 22, 40379), the greatest difference being 60%, whereas surface  $S_3$  calcd. from the Harkins-Jura equation (C.A. 22, 5125) was, on the av., = 0.75  $S_1$ . In several instances, the latter equation was applicable only if its coeffs. had 2 different values at small and great relative pressures. Adsorption of butane at  $0^\circ$  was detd. for  $ZnO$ ,  $MgO$ , the 4  $SiO_2$  samples, and one of the  $Cr_2O_3$  samples. Here also  $S_1$  usually was greater than either  $S_2$  or  $S_3$ . If the areas occupied by a mol. of  $N_2$  and butane after long adsorption was in all instances smaller than that accessible to  $N_2$ ; the ratio was, e.g. (1.17-1.48) for the  $SiO_2$  samples and 0.21, 0.39, and 0.75 for  $ZnO$ ,  $Cr_2O_3$ , and  $MgO$ . The amts. of butane adsorbed within a few min. were smaller than those after long adsorption. Apparently, there are 3 fractions of the total surface: (a) rapidly and (b) slowly accessible to butane and (c) accessible only to  $N_2$ . Heating in EtOH at  $320-440^\circ$  for hrs. lowered  $S_1$  of  $MgO$  and  $ZnO$  and increased  $S_2$  of  $CdO$  on kaolin, of  $Mg$ , and  $Zn$ .

J. J. Bikerman

KOMAROV, V. A., DROZDOVA, V. M., SHIF, G. A.

Reduction, Chemical

Determination of the starting temperature of reduction of metallic oxides with hydrogen. Uch.zap. Len.un. No. 150, 1951.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.

1. KOMAROV, V. A.
2. USSR (600)
4. Chemical Reaction - Velocity
7. Connection between initial temperatures of reactions and variations of free energy for monotype reactions, Dokl. AN SSSR 87, No. 4, 1952.

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

K. V. ...

50

... separating ...

grad. Univ. No. ... The relation between ...

$T_{AF} = 0$  calculated from ... The relation between ...  
association reaction. *Ibid.* 38-40. The relation between  
 $T_H$  of Ca, Mg, Fe, Mn, Zn, Ni, Cr, and Pb carbonate dis-  
solution and changes in free energy ( $\Delta F_{100}$ ) and the temp. at  
which  $\Delta F_{100} = 0$  was studied. According to literature data  
there is an approx. linear relation ...  
well as between  $T_H$  and  $T_{AF} = 0$ . III. Reduction of metal  
oxides with alcohols. *Ibid.* 41-8.  $T_H$ ,  $\Delta F_{100}$ , and  $T_{AF} = 0$   
were studied for the reactions:  $BtOH + MO = C.H.O +$   
 $M + H_2O$  and  $PrOH + MO = C.H.O + M + H_2O$  where  
 $MO$  is  $CuO$ ,  $CoO$ ,  $CrO$ ,  $ZnO$ ,  $Cr_2O_3$ ,  $TiO_2$ ,  $MnO$ , and  $NiO$ .  
 $T_H$  was determined from the appearance of gas evolution and also  
with an indicator (HCl soln. of  $NiCl_2 \cdot 6H_2O$ ).  $\Delta F_{100}$  and  $T_{AF} = 0$   
were calculated from tabulated data. For the 2nd of the above  
reactions there was a linear relation between  $T_H$  and  $\Delta F_{100}$   
as well as for  $T_H$  and  $T_{AF} = 0$ . For the 1st reaction the rela-  
tion was expressed by a rising curve. *Referent. Zhur., Khim.*  
1954, Nos. 37452-53-54. M. Hosh

Handwritten initials and scribbles.

KOMAROV, V.A.

2

Relation between initial temperatures of reactions and changes of free energy for reactions similar in kind. V. A. Komarov (A. A. Zhukov State Univ., Leningrad). *Zhur. Fiz. Khim.* 27, 1748-50 (1953); cf. Tsvetkov, *Trudy Inst. Geol. Nauk, Akad. Nauk S.S.S.R.*, 105, 87 (1949).—The initial ( $T_i$ ) and equil. ( $T_e$ ) temps. of reaction,  $\Delta F_{298}^\circ$ , and  $\Delta F_{298}^\circ$  were calcd. from literature data for the reduction by H of the oxides of the bivalent metals Cu, Zn, Cd, Ni, Fe, Co, Pb, and Mn and for the thermal decompn. of the carbonates of Ca, Mg, Fe, Zn, Ba, Pb, and Sr. The values of  $T_i$  and  $T_e$  for the reduction by EtOH and iso-PrOH of MgO, MnO, TiO<sub>2</sub>, Cr<sub>2</sub>O<sub>3</sub>, ZnO, CdO, Fe<sub>2</sub>O<sub>3</sub>, CuO, and Cu<sub>2</sub>O were measured; values of  $\Delta F_{298}^\circ$  were calcd. The value of  $T_i$  is a nearly linear function of  $\Delta F_{298}^\circ$  for these reactions. Data are tabulated and graphed. The linear relation between  $\Delta F_{298}^\circ$  and  $T_i$  is predicted in a theoretical discussion. J. W. Loweberg Jr.



**KOMAROV, V.A.**

Connection between the initial reaction temperature and the variation of free energy. Part 1. Reactions of the reduction of metal oxides by hydrogen. Uch.zap.Len.un.169:29-35 '53.  
(MIRA 9:6)  
(Oxides) (Reduction, Chemical) (Chemical reaction, Heat of)

**KOMAROV, V.A.**

Connection between the initial reaction temperature and the variation of free energy. Part 2. Carbonate dissociation reactions. Uch.zap.Len.un.169:36-40 '53. (MLRA 9:6)  
(Carbonates) (Dissociation) (Thermal analysis)

KOMAROV, V.A.

Connection between the initial reaction temperature and the variation of free energy. Part 3. Reduction of metal oxides by alcohols. Uch.sop.Len.un.169:41-48 '53. (MLRA 9:6)  
(Oxides) (Reduction, Chemical)

KOMAROV, V.A.

USSR/ Chemistry - Physical chemistry

Card 1/2 Pub. 147 - 15/21

Authors : Komarov, V. A., and Chernikova, Ye. A.

Title : Effect of certain hydroxide admixtures on the dehydration of  $Al(OH)_3$

Periodical : Zhur. fiz. khim. 29/10, 1876-1882, Oct 1955

Abstract : The process of  $Al(OH)_3$  dehydration (pure aluminum hydroxide and  $Al(OH)_3$  containing admixtures of other hydroxides) was investigated by the continuous oven suspension and thermographic methods. A strong effect of other hydroxide admixtures on the dehydration of  $Al(OH)_3$  was definitely established. Foreign hydroxide admixtures result in the reduction in the

Institution : Leningrad University im. A. A. Zhdanov, Inst. of Chem.

Submitted : March 19, 1955

Card 2/2 Pub. 147 - 15/21

Periodical : Zhur. fiz. khim. 29/10, 1876-1882, Oct 1955

Abstract : number of endothermal maxima corresponding to the maximum rate of water separation and in the reduction of the temperature interval between the maxima. The specific surface of  $Al(OH)_3$  compounds containing admixtures was found to be smaller than the surface of pure compounds. Nine references: 6 USSR and 3 Germ. (1924-1954). Tables; graphs.

Komarov, V. A.

a

~~U.S.S.R. N. P. Timofeeva, *Zh. fiz. khim.* 48, 2482 (1974)~~  
~~LENINGRAD, U.S.S.R. — Passage of iso-PrOH over Mn~~  
~~oxide, cf. C.A. 48, 9799g. — MnO<sub>2</sub> was examd. up to 400°. On~~

*U.S.S.R.*

all instances...  
mol. wt. of the alc. from EtOH, CH<sub>3</sub>OH, C<sub>2</sub>H<sub>5</sub>OH, and C<sub>3</sub>H<sub>7</sub>OH.  
H<sub>2</sub>O. The final product of action is an Mn oxide cor-  
responding to MnO<sub>2</sub>·MnO<sub>2</sub> which retains the x-ray a

*Handwritten text, possibly a signature or name, partially obscured by a horizontal line.*

*Vertical handwritten text or markings on the right margin.*

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Reaction of metallic oxides with alcohols. V. A. Kuznetsov and  
D. Timofeeva (State Univ., Leningrad). *Zh. Fiz. Khim.* 36, 2474-2476 (1962).  
The reaction of metallic oxides with alcohols was studied in the presence  
of the acid catalyst. The results of the study are presented. Under these conditions, the reaction proceeds  
essentially as a dehydrating reaction, which is catalyzed by the  
dehydrating catalyst. The rate of reaction is  
affected by the nature of the metal oxide, the nature of the alcohol,  
the concentration of the catalyst, the temperature, and the pressure.  
The reaction is accelerated by water, which is accelerated by ether, which is accelerated by ether, which is accelerated by ether.  
Reaction begins to be evident on  $V_2O_5$  only at about 280°C.  
G. M. Kasaloff





K

Diatri (MEL/ME2013)

Interaction of metallic iron with oxides of Copper  
oxides and isopropyl alcohol.

of 51.3% CuO, 31.5% Cu<sub>2</sub>O, and 17.2% FeO  
following reactions:  $iso-PrOH + 3 CuO \rightleftharpoons Me_2CO + Cu_2O$   
 $+ H_2O$ ;  $iso-PrOH + Cu_2O \rightleftharpoons Me_2CO + 2Cu + H_2O$

After prolonged reaction the catalyst contains 14-16%  
of metallic copper.

by catalytic activity.

II. Iron oxides and isopropyl alcohol. Res. 200-11.  
The interaction of gaseous iso-PrOH (I) with the following

oxidized to Fe<sub>2</sub>O<sub>3</sub> and FeO. The reaction is catalytic. II.

KOMAROV, V A -

SOV/2924

5(3)

PHASE I BOOK EXPLOITATION

Bolotov, Boris Aleksandrovich, Vyacheslav Aleksandrovich Komarov,  
and Tat'yana Vsevolodovna Nizovkina

Prakticheskiye raboty po organicheskomu katalizu (Practical  
Studies in Organic Catalysis) [Leningrad] Izd-vo Leningr.  
univ., 1959. 194 p. Errata slip inserted. 4,120 copies printed.

Sponsoring Agency: Leningrad. Universitet. Redaktsionno-izdatel'skiy  
sovet.

Resp. Ed.: B. N. Dolgov, Professor; Ed.: Ye. V. Shchemeleva;  
Tech. Ed.: Ye. G. Zhukova.

PURPOSE: This book is intended for the personnel of scientific  
research institutes and factory laboratories. It will be of  
~~interest~~ to teachers and students of advanced courses in  
chemistry and chemical technology vuzes. It may also be used  
as a manual to aid in setting up and performing various

Card 1/6

Practical Studies in Organic Catalysis

SOV/2924

operations with catalytic methods, and in organizing effective work practices.

COVERAGE: The book describes the principal apparatus used to produce catalytic reactions at normal and higher pressures, methods of producing and studying catalysts, and the methods of producing those catalytic reactions which embrace the main branches of organic catalysis. The authors thank K. P. Katkova, I. M. Stroyman, Ye. A. Chernikova, N. P. Usacheva, and R. M. Adrov. References accompany each chapter.

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2. Apparatus for producing catalytic reactions under pressure	25

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