```
3/844/62/000/000/038/129
                                                      D214/D307
                   Chernova, A. I., Orekhov, V. D. and Proskarnin, M. A.
                   Radiochemical nitration of aromatic compounds in aqueous
       AUTHORS:
                    Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-
                    mii. Ed. by L. J. Polak. Woscow, Izd-vo AN SSSR, 1962,
                    solutions
        TITLE:
          TEXT: A study of the mechanism of radionitration of aromatic com-
         SOURCE:
          TEXT: A study of the mechanism of reasons trations of G_0H_0, pounds in aqueous solution is described. The nitrations of G_0H_0,
          C_6H_5COOH, phenolsulfonic acid, salicylic acid and naphtharene-sul-
   1
          fonic acid by irradiating their H<sub>2</sub>O solutions, in the presence of
           HNO3, with rays, were achieved under mild conditions. opectro-
  f_{\mathcal{O}}
           photometric analysis of the nitro products showed a shift to lower
  . . .
           frequencies as compared to the spectra of the corresponding com-
  5 / 1
 \mathcal{I}_{i_5}
 E_{\epsilon} \frac{0}{\epsilon} .
 tulle
           _Card 1/2
ASSUC,
                                                              This is
                                                   and only ofter a more to
Cara 2,
```

- are 4 figures. Jokly institut im. i. 11. narwya and Institute im. L. in.

DELEASE: Tuesday, August 01, 2000 POV CIA-RDP86-00513R00

3/844/62/000/000/033/12: 2214/2307

AUTHURS: Amsornova, A. A. and Orekhov, V. D.

TITLE: The influence of pH on the yields of radiosnemical swite

tion processes in queous solutions

SO RUL: Trany II Vsesoyaznogo soveshchaniya po maratecer de la mar. Li. by L. S. Folik. Moscow, Izi-vo ab desmi de la

237-642

fulf: The aim of this work was to find an explanation, of the chargeone we in the gleafs of radio-oxidation processes the size of lations) in the ph range of 1.5 - 2.5 to 3.0 - 4.0. Asserble to results show the ph effect to be operative in adiolytic consists in of compounds stable to hydy and of other compounds, in the character of U. Thus HO, is not responsible for the ph effect. It is a fall of a 10^{-9} M Fe²⁺ solution (low concentration prevents of the 10^{-9} M 10^{-9} M 10^{-9} M 10^{-9} M 10^{-9} M 10^{-9} acidified by 10^{-9} A, the yield of Fe³⁺ falls on results the Card 1/2

The influence of pii...

Available.

Avail

L 29541-66 EWT(m)/EWP(j) WW/JW/GG/RM

ACC NR: AP6007773 SOURCE CODE: UR/0195/66/007/001/0049/0054

AUTHOR: Chernova, A. I.; Orekhov, V. D.

ORG: Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii)

TITLE: Nature and kinetics of accumulation of products formed by the radiolysis of benzene in aqueous solutions of sodium nitrate

SOURCE: Kinetika i kataliz, v. 7, no. 1, 1966, 49-54

TOPIC TAGS: benzene, gamma radiation, radiation effect, phenol, organic nitroso compound, organic nitro compound, nitration, hydroquinone, pyrocatechol

ABSTRACT: The qualitative composition and kinetics of accumulation of benzene radiolysis products in a 0.5 M aqueous solution of sodium nitrate were investigated. Co⁶⁰ gamma radiation in doses from 0.05 to 1 Mrad was used. In the initial dose range, the stable products are introbenzene (which forms only in the absence of oxygen), nitrophenols, phenol, nitrous acid, and hydrogen peroxide. Radiation-induced nitration of benzene is observed in the range of pH below 6.0 and the oxidation of

Card 1/2 UDC: 541.15 : 547.53

L 29541-66

ACC NR: AP6007773

its molecules continues at higher pH values. As the dose increases, nitrobenzene in an inert atmosphere converts into dinitrobenzene, and nitrophenol changes into dinitrophenol. The main direction of the conversion of phenol is radiolytic nitration; a side direction is a nonradiolytic reaction with nitrous acid, forming nitroso compounds and nitrophenol. At pH values exceeding 6.0, phenol radiolytically oxidizes into hydroquinone and pyrocatechol. At pH values above 7.0, precipitation of insoluble dimerization products is observed. Orig. art. has: 3 figures and 1 table.

医圆板侧侧圆板圆面 医线电子的 计设计设计 化双心心心心心心

SUB CODE: 07/ SUBM DATE: 18Jun64/ ORIG REF: 009/ OTH REF: 007

Card 2/2 Pp

CREMICY, V. F.	-
Fruit Culture	
Fruit tree twing taking a ct. Sau i rate, Years, Irace	
9. Monthly List of Russian Accessions, Library of Congre	ess, <u>'un*</u> 195%, Uncl.
	~

1	DIEKLOV.	V.F.
	U.L. Hili. V.	

2. USSn (604)

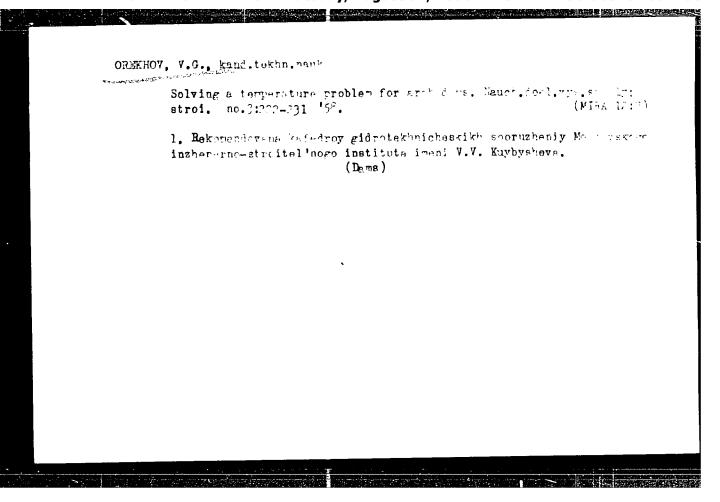
4. Fracting

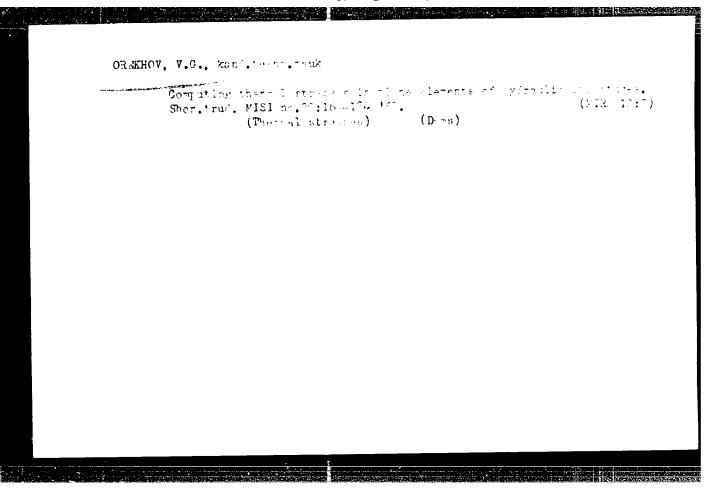
7. Tranch insitiation, with our no. 1. 195 .

9. Monthly List of Russian Accessions, Library of Congress, _______1953, Unclassified.

- OREKHOV, V. G.

 Min Higher Education USSR. Moscow Order of Red Banner Construction Engineering
 Inst imeni V. V. Kuybyshev
- OREKHOV, V. G.- "Investigation of the temperature effects on the elements of buttress dams with flat sectional plates." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences.)
- SO: Knizhnava Letopis' No. 13, 1956





```
OREKHOV, V.G., kand.tekhn.neak; KOMZIN, B.I., aspir. a; M. DOVIKOV, A.I., inc.

Analyzing the work of appearatus for the investination of stressor within massive concrete structures. Shor.trud. MISI no. 79:719-2 m 159.

(Streins and stresses)
(Concrete construction—Testing)
```

GRISHIN, M.M., prof., doktor tekhn.nauk; OREKHOV, V.G., kand.tekhn.nauk; KOMZIN, B.I., kand.tekhn.nauk

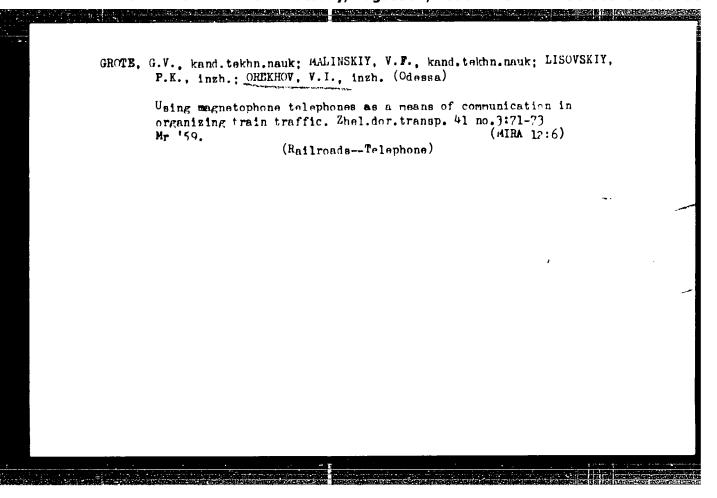
Studies of the temperature cycle and thermal stress condition of hydraulic structure blocks concreted in winter using a circumferential electric heater. Sbor.trud.MISI no.32:39-49 161. (Volga Hydroelectric Power Station-Concrete construction-Cold weather conditions)

OREKHOV, V.G., kand.tekhn.nauk

Study of the effect of thermal action on the quality of contact joints between a slab or shell and a concrete structure. Sbor. trud.MISI no.32:49-57 '61. (MIRA 14:7) (Concrete construction) (Hydraulic structures)

OREKHOV, V.G., kand.tekhn.nauk; MEDOVIKOV, A.I., inzh.

Some problems in designing devices for measuring deformations and stresses in concrete. Sbor.trud.MISI no.32:58-66 '61. (MIRA 14:7) (Concrete—Testing)



OREKHOV, V. M.

OREKHOV, V. M. *The Construction of Garages Exploiting the Local Terrain. Academy of Architecture, Ukrainian SSR. Inst. of City Building. Kiev, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 19, 1956.

USPENSKIY, USE Flex, red., TER-ARUTYUNYANTS, G.O., zam. glav.

RAPLAN, L.Z., inzn., red.; MALNSHENKO, O.A., red.;

MEZENTSEV, I.V., red.; ENDAUMKO I., red.; NELYUBIN,

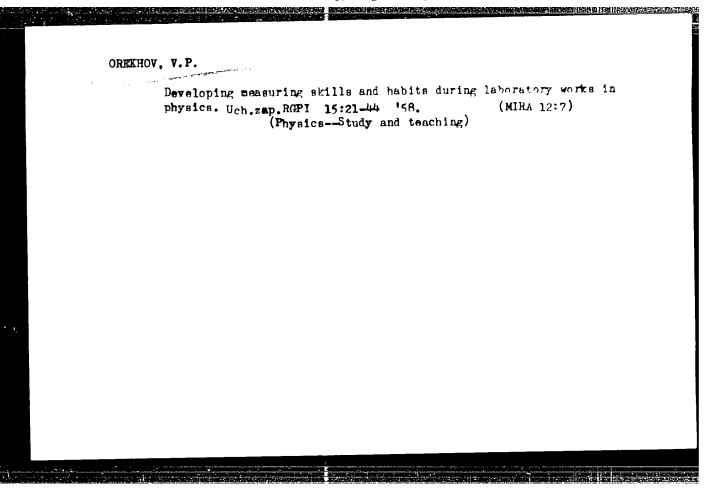
K.P., red.; COMPTON, V.M., red.; FOGMEBON, S.N., red.;

SLIVAK, I.M., Kand. tekhn. nast, red.; STANISLAVSKIY,

A.I., red.; SLITSKIT G M., red.; WIGFMENKO, I.A., red.

[Transper tot a consequence of these of cities; an and to declines are part to inche person observations, budivel'nyk, rocky; v person of a selficy whith. Kiev, Budivel'nyk, 196... FC ;. (MIRA 18:5)

1. Ukrain kiv productive may in this proyektirovaniya gorodov. 2. Gentrav ISK (for haplan, brekhov). 3. Gosstroy USSR (for logrebov). 4. Kiyevskiv incherence atroitel'nov institut (for Silvak). 5. Kiyevskiy Gosudarstvennyy institut proyektirovaniya gorodov (for Uspenskiy, Ter-Arutyunyants, Malyshenko, hezentsev, bondarenko). 6. Leningradskiy Gosudarstvennyy institut proyektirovaniya gorodov (for Nelyubin).
7. TSentralinyy naurana-institutovateliskiy i proyektnyy institut po gradostritelisko, Morkva (for Solothenko). Kiyevskoye upravlennye po po gektirovaniyu zhilishehne-grazhdanskogo i kommunalinogi atroitelistva for Blutckiy).



367/47-59-3-17/12 1.71)

Orekhov V.i. and Sovorov M.J. (Ryazan') A TECh:

Stimulating Students During the Acquisition of Abilities IIILE:

and Skills

1... 1 010aL: Finika v shkole, 1959, Nr 3, 11 2 -43 (MUSR)

This is a summary of recommendations intended to ARCTa Di:

serve is a guile to teachers of physics at public schools. The recommendations are based on the results of experimental teachin of physics in the sixth classes of the 4th school of kyazan'. Freat att str was raid to eneral pedagorical methods of arcusing the rupils' interest luring lessons, to the demonstrational experiments intended to train the rupil for the supplications. performance of certain tasks and, finally, to laboratorial work with measuring instruments. The article,

accordingly, is divided into three main sections, each of which contains examples taken from the teaching

experience of the authors. In the first section, the Ourd 1/4

207/47-59-3-12/53

Stimulating Students During the Acquisition of Abilities and Skills

authors set forth general principles which should govern the teacher when he is acquainting his pupils with the use of measuring instruments. As a means to consolidate newly acquired knowledge, the authors recommend in addition to questions and conversation, the rerformance of some light (10-12 minute) laboratorial tasks, such as the study and use of measuring classes, use of plummet and level, study of dynamometers and the weighing of objects with them. In order to develop the pupils' measuring skills, the teacher has to give visual demonstrations of the measures in the form of substantial models. This is difficult with measuring units determined insirectly by means of other measuring units. In order to demonstrate, for instance, a kilogrammeter, the teacher should lift a weight of 1 kg to a height of 1 m. Concerning the demonstration of m asuring instruments, the authors recommend that at

Card :/-

SCV/47-59-3-12/53

Stimulating Students During the Acquisition of Abilities and Skills

the beginning and at the end of the demonstration the teacher carry out his operations as swiftly as repaired in practice. Complicated operations should to shown in their single phases and should be accompanied by questions to the pupils. The authors further specify methods to set the pupils acquainted with the correct reading of scales, in order to avoid error of parallax and to determine the multiplier. Tray also propose special models (see illustrations femilitating this task and related ones. The authors' popils started their prolonged laboratorial training is studying a technical slide gare with a multiplier of oil mm. This work was preceied by the study of slide gage measuring methods on a model. At the end o: the school year, the authors established a final training program consisting of a certain number of projects: 1) study of pumps and manometers; t emination of the specific weight of todies by hy-

Jari 3 4

おくヤア47ーラクーラーニックラ

Stimulating Students During the Acquisition of Abilities and Skills

drostatic weighing; 3) study of areometers and their use in determining the density of liquids. In order to test acquired practical skills, the authors used the following methods: 1) general examination by having the pupils answer questions on a blackboard; 2) special examination of individual pupils, based on their particular laboratorial project; 3) control of the laboratorial work performed by the pupils; 4) givin tasks which can be only resolved if the pupil combines theoretical knowledge with acquired practical skills (e.g. determining the volume of a cylindrical vessel; verification of the golden rule of mechanics for a simple mechanism). There are 2 photos, 1 dimerom and 1 Soviet reference.

Card 4, 4

OREKHOV, V.P. Electric clock model. Fiz.v shkole 20 no.4:78-79 Jl-Ag 160. (MIRA 13:8) 1. Pedagogicheskiy institut, Ryazan'. (Clocks, Electric)

OREHOV, N.F. (Ayazan'); BEL'TSOVA, M.V. (Ryazan')

Discussing innovations and inventions in physics lessons. Fiz. v shkole 23 no.1:74-76 Ja-F '63. (MIRA 16:4)

(Physics—Study and teaching)

(Technological innovations)

TSELINKO, M.G. (Zhitomir); OREKHOV, V.P. (Ryazan'); PANICH, K.I.;
FEDOROV, I.V. (g. Kurgan); KUL'CHITSKIY, A.P. (g. Kurgan); A.M.
(pos. Tovarkovskiy Bogoroditskogo rayona, Tul'skoy oclasti; GALLOVA,
M. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika;
YANOVICH, I. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya
Respublika); KADLECHIK, I. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika); PETHAK, M. (Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika); PRITOKA, O. (Bratislava, Chekhoslovatskaya
Sotsialisticheskaya Respublika); LBOV, A.G.

Suggestions and advice. Fiz. v shkole 22 no.6:62-64, 96 N-D 162.

(MIRA 16:2)

1. 636-ya shkola, Moskva (for Panich). 2. Chkalovskaya srednyaya shkola Gor'kovskoy oblasti (for Lbov).

OREKHOV, V.S., inzh.

Methane emission from stripped coal seam surfaces during development operations. Nauch. dokl. vys. shkoly; gor. delo no.3:140-147 '58.

(MIRA 11:9)

1. Predstavlena kafedroy rudnichnoy ventilyatsii i tekhniki bezopasnosti Noskovskogo gornogo instituta im. I.V. Stalina.

(Mine gases) (Coal mines and mining)

OREKHOV, V.S., inzh.

Determining the necessary amount of air for drifting in coal mines

Determining the necessary amount of air for drifting in coal mines

(Sp. vith use of a FK-3 cutter-loader. Shakht. stroi. no.6:6-9 '55'.

(MIRA 11:6)

(Coal mines and mining) (Mine ventilation)

OREKHOV, V.S., Cand Tech Sci -- (diss) "Methane abundance in preparatory passages of great length in coal mines and a method of precalculating the ventilation of these passages, based upon the gas factor during their cutting." Mos, 1959. 17 pp with graphs (Min of Higher Education USSR. Mos Mining Inst im V.I. Stalin. Chair of Mine Ventilation and Safety Engineering), 150 copies. (KL, 38-59, 117)

 $I_1 \subseteq$

KSENOFONTOVA, A.I., dotsent, kand.tekhn.nsuk; BURCHAKOV, A.S., kand. tekhn.nsuk; OREKHOV, V.S., gornyy inzh.; USHAKOV, K.Z.

[Ventilation of greatly extended development workings in Karsganda Coal Basin gas-discharging mines] Provetrivanie podgotovitel'nykh vyrabotok bol'shoi protiashennosti v gazovykh shekhtakh Karagadinskogo ugol'nogo basseina. Moskva, M-vo vysshego obrazovaniia SSSR. Mosk.gornyi in-t im. I.V.Stalina. 1959. 14 p. (MIRA 13:8)

1. Zaveduyushchiy kafedroy rudnichnoy ventilyatsii i tekhniki bezopasnosti Moskovskogo gornogo instituta imeni I.V.Stalina (for Ksenofontova).

(Keraganda Basin--Mine ventilation)

```
CENTHOY, V.S., insh.

Method of estimating the methane-content in development mines.

Isv.vys.ucheb.sav.: gor.shur. no.10:63-67 '59.
(MIRA 13:5)

1. Moskovskiy gornyy institut.
(Mine gases) (Mining engineering)
```

KREMENCHUTSKIY, Nikolay Feofanovich; BURCHAKOV, A.S., kand. tekhn. nauk, retsenzent; OREKHOV, V.S., kand. tekhn. nauk retsenzent; KIEBANOV, F.S., kand. tekhn. nauk, otv. red.; ZAKHAROV, M.I., red. izd-wa; SABITOV, A., tekhn. red.; KONDRAT'YEVA, M.A., tekhn. red.

[Ventilation of coal mines] Provetrivanie ugol'nykh shakht. Moskva, Gos. nauchno-tekhn. izd-wo lit-ry po gornomu delu, 1961.

239 p. (Mine ventilation)

```
BYKOV, Leonid Nikolayevich; OREKHOV, V.S., kand. tekhn. nauk, red.;
LUCHKO, V.S., red.izd-va; OVSEYENKC, V.G., tekhn. red.;
SHELTAR, S. Ya., tekhn. red.

[Mine fires] Rudnichnye pozhary. Moskva, Gosgortekhizdat.
1963. 158 p. (MIRA 16:6)

(Mine fires)
```

OREKHOV, Vasiliy Sergeyevich; KOMAROV, V.B., prof., retsenzent;
VEPROV, V.S., dots., retsenzent; LUCHKO, V.S., red.izd-va

[Pire prevention in enterprises of the mining industry | 10zharnaia okhrana predpriiatil germoi promyshlennosti. Noskva, Izd-vo "Nedra," 1964. 165 p. (MikA 17;6)

s/112/59/000/015/045/06r A052/A002

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 15, L. 171.

32162

Oborin, V.I., Orekhov, V.V. AUTHORS:

An Automatic Installation for Testing the Activity of Catalysts

TITLE:

Tr. Groznensk, neft, in-t, 1958, No. 20, pp. 3-13

A method automating the catalyst activity testing under laboratory PERIODICAL:

conditions is suggested. The installation is designed for the simultaneous testing. of 6 catalyst samples. It consists of 6 reaction chambers, 6 raw materia. feeders, 6 fractionating columns and a corresponding number of monitors for each flow. Furthermore, there is a number of control devices common to the entire installation. rundermore, diere is a number of control devices common to the entire installation to designed not only for standard tests but also for retion. The installation is designed not only for search purposes. For this reason the possibility of varying the operational conditions within certain limits was provided. The time of cracking, the volumetri speed of raw material supply, the temperature of cracking, the regeneration and rectification of catalysate can be changed. A total number of up to ter. full

Card 1/2

S/112/59/000/015/045/568 A052/A002

An Automatic Installation for Testing the Activity of Catalysts

working cycles can be set; the operation can be stopped after any cycle. Rectification can be done after any number of working cycles of the reactor. At tification can be done after any number of working cycles of the reactor. At original pump design for the raw material feed is suggested. Details of the design of reactors used and of equipment for rectification of liquid satalysate are described. For setting and controlling the temperature "JNII-17" (EPD-17) are described. For setting and controlling the temperature "TOUK-21" (GEUK-21) devices are electronic potentiometers and for the pressure "TOUK-21" (GEUK-21) devices are utilized. There are 3 illustrations and 6 references. See also RZhE, 1955, # 42682.

V.L.S.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

OREKHOV, Vladimir Vasil yevich; FEL'DMAN, Roman Vsevolodovich; KUZNETSOV,

"Barrier of television receivers] Remont televizorov. Moskva,

Vses. koop. izd-vo, 1960. 227 p. diagrs. (MIRA 12:9)

(Televigion—Repairing)

KOMAROVER, N. Ye.; OREKHOV, V.V.; GERASHCHENKO, D.A.

Firstion and reposition device for operations on tubular bones.

Vestn. khir. Grekov. 90 no.4497-98 Ap*63 (MIRA 1712)

OREKHOV, Ye., inzh.-podpolkovnik

Atomic defense of motor vehicles. Za rul. 20 no.7:22-23 Jl '62.
(MIRA 15:7)

(Motor vehicles—Safety measures) (Civil defense)

L 11347-67 EWT(1)/FSS-2 JAJ SOURCE CODE: UR/0017/66/000/006/0036/0036 ACC NR. AP6018641 SOURCE CODE: UR/0017/66/000/006/0036/0036 AUTHOR: Orekhov, Ye. (Engineer; Colonel)	
ORG: none TITLE: At top speed [Tank fire-control stabilizer]	
TOPIC TAGS: military tank, automatic stabilization equipment, fire control gyrostabilizer ABSTRACT: To assure more accurate fire control while a tank is in motion, gyrostabilization units have been developed. A tank usually has two such units, one to stabilize its weapons in a vertical plane and the other, in a horizontal plane. When stabilize its weapons in a vertical plane and the other, in a horizontal plane. When equipped with two-plane gyrostabilizers the firing accuracy of a tank in motion is equipped with two-plane stabilizers the firing accuracy of a tank in motion only 20% less than when at a standstill. It is stated that some English and American only 20% less than when at a standstill. It is stated that some English and fire tanks are so equipped. Soviet tanks have efficient stabilizers permitting aimed fire tanks are so equipped. Soviet tanks have efficient stabilizers parameters. A while in motion, and which fully meet the requirements of modern warfare. A schematic layout of a two-plane stabilization unit is given. Orig. art. has: 1 figure	
SUB CODE: 17, 19/ SUBM DATE: none/	

CIA-RDP86-00513R001238

USSR / Mechanical Properties of Crystals and Polycrystalic E-9
Compounds.

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9426

Author : Vasil'ev, L.I., Butkevich, L.M., Orekhov, Ye.I.

Inst : Siberian Physico-Technical Institute USSR

Title : Effect of Velocity and Degree of Plastic Tension on the Re-

laxation and Subsequent Deformation of Metals. I.

Orig Pub : Fiz. metallov i metallovedeniye, 1950, 2, No 1, 142-145

Abstract : A polycrystalline copper wire was stretched at a rate of

0.03 and 27% per minute to a deformation of 1.7, 7.6, 11.0, 19.5, and 29.5% and the relaxation of the stresses was observed for 30 minutes, after which the specimens were stretched at a rate of 0.03% per minute. Analogous experiments were carried out with aluminum up to deformations of 3.6 and 19% (the duration of relaxation amounted to 40 minutes). The experimental data obtained show that with increasing le-

Card : 1/2

USSR / Mechanical Properties of Crystals and Polycrystallic

E - 1

Compounds.

Abs Jour

: Ref Zhur - Fizika, No 4, 1951, No 9426

Abstract

: degree of deformation there an increase in the difference of the initial stresses of the relaxation curves, obtained after deformation with two different speeds. The degree of preliminary deformation affects the course of the secondary stretching more when the speed and degree of deformations increase. The difference in the behavior of the metals after deformation is explained by the different assortment of distortions that take place in the first deformation.

Card

: 2/2

CIA-RDP86-00513R0012381

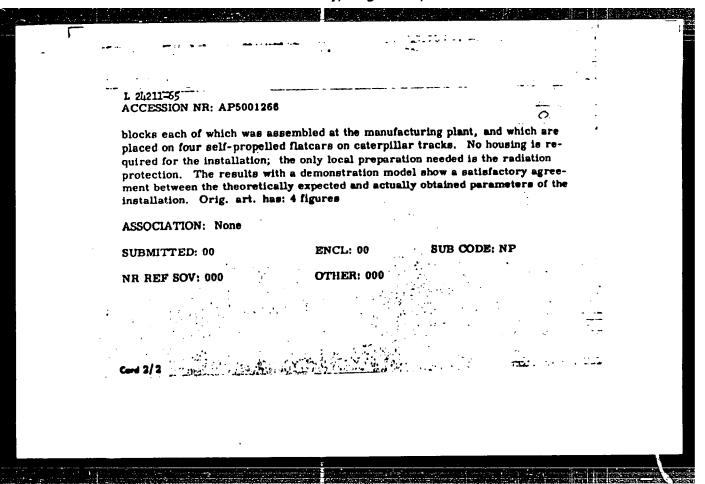
KHIDCHENKO, N.F.; OREKHOV, Ye.B.

Improving the quality of classified anthracite. Ugol' 35 no.5:20 (MIRA 13:7) My 160.

1. Glavnyy inzhener shakhty im. Oktyabr'skoy revolyutsii tresta Shakht-antratsit kombinata Rostovugol' (for Khidchenko). 2. Pomoshchnik glavnogo inzhenera po planirovaniyu, shakhta im. Oktyabr'skoy revolyutsii tresta Shakhtantratsit kombinata Rostovugol' (for Orekhov). (Donets Basin -- Anthracite coal)

APPROVED FOR RELEASE: Tuesday, August 01, 2000

	17
· –	
	ACCESSION NR: AP5001266 AUTHOR: Siney, N. M.; Krasin, A. K.; Bychkov, I. F.; Blokhin, O. I.; Broder, D. L.; Gabrusev, V. N.; Dudnikov, Yu. V.; Zhil'tsov, V. A.; Koptev, W. A.; Kotov, A. P.; Lantsov, M. N.; Lisochkin, G. A.; Merzlikin, G. A.; Morozov, I. G.; Komarov, A. Ya. (deceased); Orokhov, Yu. I.; Sergeyer, Yu. A.; Slyusarev, P. N.; Ushakov, G. N.; Fedorov, N. V.; Chernyy, V. Ya.; Shmelev, V. M. TITLE: Small-size atomic electric power installation TES-3 SOURCE: Atomnaya energiya, V. 17, no. 6, 1964, 448-452 TOPIC TAGS: small atomic power installation, portable atomic power installation, nuclear reactor, electric power generation/TES-3 reactor ABSTRACT: The paper is a summary of the SSSR report #310 at the Third International Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It national Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It describes a movable small-size atomic electric power installation with the water cooled and moderated TES-3 reactor (under 10,000 kw). It consists of four
	Cord 1 / 2



. 7. 2 	
The state of the s	
Cold to shall the of Physics and Power Ungineering, Continue to this energy	
The salb, we had removed a summer and markonic with respect to xenon oscillations in the power of a representation cosed toop coolant circulation.	
sour av. Jese, remo-fizicaeskiy znarnal, v. 11, no. 3, 1966, 345-346	
TOMO TAGS: harmone, harmone oscillation, harmonic stability, circulation, machine reactor coolant, xenon oscillation	
ALSTRACT: A study was made on the problem of xchon oscillations of the reactor power with answance for its connection with the other elements of a nuclear power instabilition. It was shown that the conditions of stability of a closed loop reactor under from theme of an open loop reactor and depend on the heat removal from the second loop. Two cases are considered: 1) heat removal from the second loop; 2) heat proportional to the coolant temperature at the outlet from the second loop; 2) heat	
Card 1/2 UDC: 621, 039.5	;

CC NR: AP60	731526				. .
	the second loop loop reactor. Or				
SUB CODE:	20/ SUBM DATE	: 28Feb66/	ORIG REF: 001/	OTH REF: 00	1/
					_

L 25318-65 EWT(1)/EWP(e)/EPA(s)-2/EWT(m)/EPF(o)/EPF(n)-2/EWA(d)/EPH/EPA(w)-2/T/EWP(t)/ Pab-10/Pf-4/Pr-4/Ps-4/Pt-10/Pu-4 IJP(c) JD/WW/JG/WH EWP(k)/EWP(b) 8/0081/64/000/005/M005/M006 ACCESSION NR: AR4039575 SOURCE: Ref. zh. Khimiya, Abs. 5436 AUTHOR: Aksenov, G. I.; Orekhov, Yu. P. TITIE: Effect of various factors on the structure and properties of cermet alloys of iron and silicon GITED SOURCE: Tr. Kuyby*shevsk, aviats, in-t, vy*p. 16, 1963, 201-211 TOPIC TAGS: cermet, iron alloy, silicon alloy, powdered iron alloy, cermet mechanical property, powder metallurgy pressing pressure, sintering temperature, sintering time, ferrite, silicoferrite, cermet porosity, cermet magnetic property, powdered alumina TRANSLATION: The authors studied the effect of the Si content, the specific pressing pressure and the sintering temperature on the porosity and specific losses of Fe-Si alloys at a frequency of 50 cps, as well as the effect of the duration of sintering, and the granulometric composition of the original iron powder and the dielectric layers on the magnetic properties and specific losses of these alloys. The pressibility of mixtures of powdered Fe and Si was studied condition alloys obtained were investigated by metallographic and x-ray techniques,

L 25318-65 ACCESSION NR: AR4039575

The authors pressed single layered ring-shaped specimens at a specific pressure of 5, 10 or 15 metric tons/cm2 from mixtures containing Sulinskiy iron powder and Si within the limits of 0-10%, as well as specimens with thin interlayers from an anhydrous aluminum oxide powder at a pressure of 15 metric tons/cm2. The pressed Samples were sintered at 1000, 1100, 1200 and 13000 for 1, 3, 5, 8, 14, 20 and 28 hours. It follows from the empirical equation which was derived that the decrease in porosity of the sample is directly and linearly related to a decrease in the Si content, but logarithmically related to an increase in the pressing pressure. Data are presented on the change in porosity of the samples in relation to the Si content in the mixture, the specific pressure, the brand of powder and its degree of dispersion. The dependence of the porosity of Fe-Si alloys on pressure and Si content is analogous to the dependence of the porosity of the pressed samples, The porosity of the alloys is practically independent of the granulometric composition of the powder, but decreases sharply when the sintering temperatures rise above 1200C. In most of the alloys, the pores are slightly oval in shape, and the number increases with an increase in the Si content. The ferrite grain size increases sharply when the Si content in the alloy reaches 6.5%. As the duration of high-temperature sintering increases, the pores become more spherical and the ferrite grains increase in size. With an increase in the degree of dispersion of the original iron powder, the number of pores increases but their size

L 25348-65 ACCESSION NR: AR4039575
decreases. With respect to phase composition, the alloys are a homogeneous solid solution of Si in G-Fe, this solution reaching its maximum concentration when the Si content in the alloy reaches 6.5%. As the Si content increases to 8%, the specific losses in the alloy change according to a curve with a minimum at a Si content of 6-7%. The improvement in the properties of the cermet alloys at a Si content of 6.5% is explained by an anomalous growth of the silico-ferrite grains and enlargement of the poras. The authors demonstrated the possibility of determining an optimum sintering time for each alloy which will depend on the conditions of operation of the cermet magnetic conductor and the degree of dispersion of the original iron powder. Ye. Polyanskaya
SUB CODE: MT AM ENGL: 00
Cord 3/3

5/126/61/012/002/002/019 E073/E335

Aksenov G.I. and Orekhov Yu.P.

Investigation of Magnetically Soft Sintered Alloys AUTHORS:

of the System Fe-Si TITLE:

Fizika metallov i metallovedeniye, 1961 Vol. 12, No. 2. pp. 183 - 187 PERIODICAL

The influence was investigated of the 51 content (0 - 10%), the specific pressing pressure (5, 10 and 15 t/cm²) and of the sintering temperature (1 000 1 100 1 200 and 1 300 C) on the magnetic properties of Fe-Si allows and 1 300 C) on the magnetic properties of puring the TEXT: and 1 you con the magnetic property for 20 hours. During the sintered in a reducing atmosphere for 20 hours. sintering, the temperature gradient did not exceed . 20 The investigations have shown that the best combination of properties can be obtained by using all additions in the range of 5-8%. The optimum magnetic proporties in the case of an alloy containing 6.5% Si was obtained for a pressing pressure of 15 t/cm² and sintering temperature of 1 500 °C Card 1/2

BR

ACCESSION NR: 121,027699

5/0276/61/000/002/2067/2068

SCURCE: RZh. Tekhnologiya mashinostroyemiya, Abs. 25361

AUTHOR: Aksenov, G. I.; Grekhov, Yu. P.

TITLE: The effect of various factors on the structure and properties of metal ceramic Fe-Si alloys

CITED SCURCE: Tr. Kuyby*shevsk. av.ats. in-t, vy*p. 16, 1963, 201-211

TOPTO THOS: Fe-Si alloy, silicon content, specific pressure, sintering temperature, porosity, specific lose, frequency, sintering duration, granulemetric composition, dielectric layer, magnetic property, cermet alloy, cermet, ceremel, ceramel

TRANSLITION: The paper investigates the effect of the silicon content, the specific molding pressure and the sintering temperature on the porosity and specific losses of alloys at a frequency of 50 cycles, and also the effect of the duration of sintering, the granulometric composition of the initial powder

. 1/2

ACCESSION NR: ARLO27699

and the dielectric layers on the magnetic properties and specific losses of the alloys. The pressability of Fe-Si powder mixtures was analyzed and the produced alloys were then analyzed by metallo graphic and X-ray methods. 8 illustrations and 1 bibliographic reference.

DATE ACQ: 24Mar64

SUB CODE: ML

ENCL: 00

2/2 Card

5/0276/64/000/002/3067/2068

ACCESSION NEW APPROXY699

SCURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 25361

AUTHOR: Aksenov, G. I.; Orekhov, Yu. P.

TITLE: The effect of various factors on the structure and properties of metal

ceramic Fe-Si alloys

CITED SCURCE: Tr. Kuyby*shevsk. aviats. in-t, vy*p. 16, 1963, 201-211

المراسية سرران

TOPTO TABS: Fe-Si alloy, silicon content, specific pressure, sintering temperature, porosity, specific lose, frequency, sintering duration, granulemetric composition, dielectric layer, magnetic property, cermet alloy, cermet, ceremel,

TRANSLATION: The paper investigates the effect of the silicon content, the specific molding pressure and the sintering temperature on the porosity and specific losses of alloys at a frequency of 50 cycles, and also the effect of the duration of sintering, the granulometric composition of the initial powder

1/2Card

ACCESSION NR: ARLO27699

and the dielectric layers on the magnetic properties and specific losses of the alloys. The pressability of Fe-Si powder mixtures was analyzed and the produced alloys were then analyzed by metallo graphic and X-ray methods. 8 illustrations and 1 bibliographic reference.

DATE ACQ: 21:Mar61:

SUB CODE: ML

ENCL: 00

2/2 Cord

OREKHOVA, A.A.; BAKKAL, T.P. State of respiratory organs in so-called intracranial trauma in newborns; clinical and morphological data. Trudy AMN SSSR 29:70-76 '53. (MLRa 6:11) (Respiratory organs) (Skull--Wounds and injuries) (Infants (Newborn))

OREKHOVA, A.A. Market action of the great great file. Prothrombin time in puerperas and newborns and its change upon introduction

96 153.

of vikasol; experimental and clinical investigations. Trudy AMN SSSR 29:86-(MLRA 6:11) (Prothrombin) (Infants (Newborn)) (Puerperium)



Variation in prothrombin time of rabbit fetus blood at different stages of intrauterine development and in amphyxia [with summary in English]. Biul.eksp.biol.med.44 no.8:66-70 Ag '57.(MIRA 10:11)

1. Iz biokhimicheskoy laboratorii (zav. - doktor biologicheskikh nauk A.D.Braun) i otdeleniya novorozhdennykh (nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. A.F.Tur) Instituta akusherstva i ginekologii (dir. - chlen-korrespondent AMN SSSR P.A.Beloshapko) AMN SSSR, Ieningrad. Prestavlena deystvitel'nym chlenom AMN SSSR prof. A.F.Tur.

(ASPHYXIA NEONATORUM, experimental,
eff. on prothrombin time in fetal rabbits (Rus))
(PHOTHROMBIN TIME,
eff. of inra-uterine asphyxia in rabbits (Rus))

```
KACHURIN, M.O.; TSIRKEL', Ye.E.; OREKHOVA, A.E.; KOROLEVA, A.V.;
TETERINA, V.I.

Boiling-out cotton fabrics with the aid of sodium sulfite. Izv.
vys.ucheb.zav.; tekh.tekst.prom. no.6:98-103 '59.

(MIRA 13:4)

1. Leningradskaya sittsenabivnaya fabrika im. Very Slutskoy, i
tekstil'noye upravleniye Lensovnarkhoza.

(Cotton finishing)
```

SAVINKOVA, Ye.I.; SUKHOVA, T.F.; DEGTYAREVA, T.A.; OREKHOVA, A.I.

Hydrolysis of carnallite in the course of its preliminary dewatering.

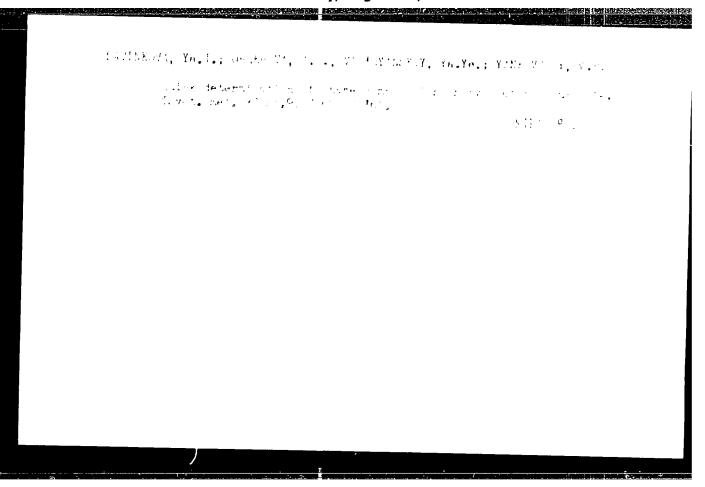
Zhur.prikl.khim. 34 no.ll:2555-2558 N '61. (MIRA 15:1)

(Carnallite)

```
CHERNAUCKIY, V.A., pict. (Moskva, I-92. Amon'yevskiy persulox, d. 4/2. kv.102);
ORENHOVA, A.1.

Open and closed injuries to the Arbilles tendon. Ortop., travm. i program (MIRA 18:2)

1. Iz kliniki travmatolog' i orto;edii (zav. -- prof. V.A.Chernavskiy. II Moskovskogo meditsinslogo instituta imeni N.I.Pirogova (rektor -- M.G.Sirotkina).
```



ENT(a)/Ent(t)/ETT 13:(1) 加州沙州 ACC NR: AP6020915 SOURCE CODE: UR/0369/66/002/002/0183/0187 AUTHOR: Drits, M. Ye.; Kadaner, E. S.; Orekhova, A. H.; Pomatov, V. V. ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurger) TITLE: Effect of small additions of copper and silver on corresion of Al-Zn-Mg alloys Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 2, lv. SOURCE: 183-187 TOPIC TAGS: aluminum alloy, zinc containing alloy, magnesium containing alloy, copper containing alloy, silver containing all an alloy corrosion, stress corrosion, corrosion resistance ABSTRACTIA Cold- and hot-rolled sheets (2.) mm thick) of time storest Al-Zn-Mg alloy containing a total of 7.4 2n and Mg at a on Mg cate of 2, 0.5% Mn, 0.15% Zr, 0.2% Fe and J.1% Si, and additionally all. with 0.3% each Cu and Ar, were tested for resistance to general and stress corresion. Test specimens were solution annealet at a 30 min, water quenched, and aged at 1400 for 24 nr (temper more and or ensured the highest strength characteristic of the alloy. There is a done in a 30 g/l NC1 + 20 g/l NaHCO3 solution under a stress equal \sim 0.8 of the yield strength showed that the initial alloy failed in . Card 1/2

L 32927-66 ACC NR: AP6020915

while alloys with Cu, or Ar, or Cu and Ar did not fail even with 1991-110 hr exposure. Alloying with silver was more effective in increasing the stress-corrosion resistance than alloying with copper, but the highest stress-corrosion resistance was achieved with combined alloying with both Cu and Si. Alloys (with Cu and Ar) additionally alloyed with 0.6% Mn or 0.3% Cr or 0.2% each Mn and Cr had still higher resistance to stress corrosion. These alloys did not fail in 200 hr under a stress equal to the yield strength, but their strength characteristics decreased somewhat compared with alloys without Mn or Cr. In prolonged stress-corrosion tests, the alloys with 0.3% Cu or 0.3% each Cu and Ar sustained a stress equal to 0.9 yield strength for 254-556 hr, while the initial alloy failed in 60 hr. In stress-corrosion tests under conditions of anodic polarization under a stress equal to 0.9 yield strength, the rupture life of the initial alloy increased from 25 to 51 min with alloying with Cu and Ar, and to 75-93 min with alloying with Cr. Additions of Cu and Ar, however, noticeably decreased the resistance of the alloy to general corrosion. This harmful effect can be reduced to some extent by additional alloying with Cr. which shows that the addition of Cr improves the alloy resistance to both general and the stress corrosion. The beneficial effect of additional Cr is γ probably associated with the increased stability of the protective oxide film on the metal. Orig. art. has: 4 tables.

SUB CODE: 11/ SUBM DATE: 23Aug65/ ORIGREF: 006/ OTH REF: 017/ ATD PRESS: 5028

ACC NRI AP6021:05

CAN)

SOURCE CODE: UR/0358/66/035/003/0305/0309

AUTHOR: Shiryayev, D. T.; Shevchenko, S. F.; Tokarev, S. A.; Orekhova, I. M.

ORG: State Scientific Research Antiplague Institute, Rostov-na-Donu (Gosudarst-vennyy nauchno-issledovatel'skiy protivochumnyy institut)

TITLE: Experimental studies of ticks as tularemia vectors

SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35, no. 3, 1966, 305-309

TOPIC TACS: human disease, animal disease, disease vector, tick, orthopod vector, tularemia, animal parasite

ABSTRACT:

The tick species Hyalomma plumbeum plumbeum and Haemaphysalis punctata infected with tularemia occur in nature. The authors infected these species with tularemia under laboratory conditions. The ticks retained the infective agent throughout all stages of development. Nymphs of H. plumbeum infected animals with tularemia over an 82-day period, suggesting that these ticks, which are prevalent in the southern steppes, are important in maintaining natural tularemia foci. Orig. art. has: 3 tables.

[W.A. 50; CBE No. 10],

SUB CODE: 06/ SUBM DATE: 04Jun63/ ORIG REF: 015/

Card 1/1

UDC: 616.455-022.39:595.42+576.895.42

```
Beand Rike, Yo.1., and .: Old RHOWA, J.Sh.

Determining induces for the total amount of labor expended in the production of glass and ceramics. Stek. i ker. ... a no.1:6-10 Ja *6o. (MB6 197)

**Nountrolish convents to a passitution addition amountation produces to a small evak.
```

```
YERSHOV, N.; OREKHOVA, K.

If you do not study you are not a progressive worker. Grazid by 19 no.12:19-20 D *4]. (MIRA 13:17 (Aeronautics, Commercial--Study and teaching)
```

ATTH S: Kukhtir, V. A., Grezhiva, K. M. 27, 7-1 - 1-11 TITLE: Affiliation of the Complete Esters of Phosphara A of and of the Phosphicic Acid to the Conjugated Systems (Priscyedineniye polnykh ofirov fosforiatoy i frafiniatykh kislet k sopryazhennym sistemam) VI. Joint Action of the Alkyl Haliles and of the a, p-Unraturated Acris on Trialkyl Promphites (VI.Sovmestroye deystviye galbingan alkilov i u, p-neprejel'nykh kislot na trialkilf.sflip, PERIODICAL: Zhurran olsheney knimil, 1958, Vol 2 , Nr 10, ## 27 to - 2797 (USCH ABSTRACT: In connection with the experience coale tellin earlier papers (Refs ',), the authors continued their is vestigations in the cone direction by investigation the joint action of the appearant rated noting out along. browides, as well is a yl indides on the transpir prosphites. The experiments with chapt bringles fally proved the earlier proposed scheme, with the mixer g-duality) phosphonium carbunites and the morrou, can a alayi holider teing obtained (Table 1). The reaction Card 1/3 of acrylic and and alayl to make with the transplant

THE REPORT OF THE PROPERTY OF

Affiliation of the Complete Esters of Phosphorous STV, TO-6-10-71, of Acid and of the Phosphinic Acid to the Congulated System. VI. Constitution of the Alayl Haliles and of the applicationated Acid of the applications of the Phosphices.

of methacrylic acil. In the reaction of ethyl from rewith the intermediate of the which is obtained in the affiliation of tribatyl phosphite to the methacrylic acid the butyl bromide and an ethyl enter of the \$\beta\$-dibutyl \$\frac{1}{2}\$ hono-isolutyric soil was separated (Reaction 5 here 1). The joint reaction of methacrylic acid and alkyl iodides with triblass phosphites offers only small yields of esters of the phosphites offers only small yields of esters of the phosphites of acid (8-18%)(Table 2). The reaction takes \$\beta\$ acid (8-18%)(Table 2). The mentioned scheme. In triving off esters of the general formula \$\mathbb{R}_1(CR)\$, methacrylate and linkyl \$\beta\$.

acids were obtained (Table . and Sename 2,. Con . . 1991) It is invanid that on the tach of the experimental results the point reaction of enthacrylic annial conditions with the trialryl prompiles can take place.

Card 2, 3

Affiliation of the Complete Esters of Phosphorous SOV/79-28-10-33, to Acid and of the Phosphinic Acid to the Conjugated Systems. VI. Joint Action of the Alkyl Halides and of the α,β -Unsaturated Acids on Trialkyl Phosphites

in three different directions according to the

conditions prevailing last Scheme). There are 2 tables and 3 references, 3 of which are Soviet.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M.

Kirova i Kazanskiy filial nauchno-issledovatel'skogo kinofoto instituta (Kazan' Chemotechnological Institute imeni S.M.Kirov and Kazan' Branch of the Scientific Research

Institute of Cinematography and Photography)

SUBMITTED: September 17, 1957

Card 3/3

AUTHOR:

Kukhtin, , A , Gil'm Kamay,

\$07,009-201-5-72 m.

Sinchenko, L. A., Orekhova, K. M.

TITLE.

Affiliation of the Complete Esters of Phosphorous Acid and Phosphinic Acids to Conjugated Systems 'Prisopelinerive polarykh efirog fosforistoy i fosfinistykh kislotik sogrvanhennym sistemam) VII. Telomerization of the Methacrylic Acid With Trialkyl inosphites (VII. Telomerinatsiya metakrilovoy kisloty s trialkilfosfitami)

rERIODICAL Zhur

Zhurnal olshchey khimii, 1959, Vol 29, Nr 2, 17 (10-515 (1031)

ABSTRACT

In continuation of the common reaction of a, p-unsaturated actis and alkyl halides with trialkyl phosphites (Refs. 1,2) the authors intended to fird the catalyst most suitable for telementation to determine the factors which exercise influence upon this reaction and to determine the structure of the telements obtained. They found that carefully jurified the ethyl phosphite can telemente with methacrylic activities with out a catalyst. Temperature does not matter in this connection. The yield is small in this case (Table 1, Experiment 13).

Card 1/3

However, if a methacrylic acid is used for a while that is not stabilized with hydroquinone, the reaction takes place in

Affiliation of the Complete Esters of Phosphorous 30V 79-29-2-72 The Acid and Phosphinic Acids to Conjugated Systems. VII Telometrization of the Methacrylic Acid With Trialkyl Phos hites

a very violent manner under intense selfhe time and with α high yield of telomers (Table 1. Experiment 12) The trialkyl phos; hite that is purified only by separation through instillation does not telomerize with a methacrylic soid that was liberated from the inhibitor immediately before the experiment It was interesting to know the way in which this telepresization would take place in the presence of triethyl stairs and sociation methylate tested by R M Connel and H N Coover Ref 5 .3 catalysts. Yet only small yields were offe of by these experiments (Table 1, Experiments 1,2). Also the application of alkyl indides for telomorization did not juite must experiations Benzoyl hydro en peroxide turned out to be the most favourable catalyst for telomerization. In desendence of the maker ratio of the initial components, on the concentration of the catalyst and the phosphite radical telomers with various average molecular weights were obtained in this telomerization (Table 1) According to previous and the present results it may be assumed that the above-mentioned telomer zation takes place according to the scheme mentioned in conclusion

Card 2/3

Affiliation of the Complete Esters of Phosphorous SCV/79-29-2-37, "Acid and Phosphinic Acids to Conjugated Systems, VII. Telemerization of the Methacrylic Acid With Trialkyl Phosphites

Thus, the structure of telomers resulting from the telomerazation of methacrylic acid with trialkyl shosphites was investigated and a scheme of reaction was subjected in addition. There are 2 tables and 3 references, 2 of which are Soviet

ASSOCIATION:

Kazanskiy knimiko-tekhnologicheskiy institut (Kazan) Institute of Chemical Technology)

SUBMITTED:

December 26, 1357

Card 3/3

AUTHORS: Kukhtin V. A., Crekhova, K. M. SOV, 2 '24-4-25, '67 TITLE: Addition of Coillete Esters of Phosphorous Acid to p-Benzoquinone (Prisoyedineriye policykh eftrov fosforistoy kisloty kishemzokhinone) PERIODICAL: Doklady Akademii nauk SSSR. 1453 Vol '24, Nr 4, pr 319-321 (USSR) ABSTRACT: In previous papers the authors rescribed some new reactions of the ative-mentioned esters with various **r - conjugated system. *\sigma, \beta-unsaturated alienyder (Ref 3) and diagetyl (Ref 4). These ment (Refs 2, 4). In continuation of the study of the new kinds of that rearrangement this paper deals with the reaction of that rearrangement this paper deals with the reaction of respective publications (Refs 5-9). They synthesized addition constants are given in table 1. The saponification of these main product. The saponification with alcoholic-aqueous alkalis takes place also on the separation of the prosphorus-containty.		the state of the s	a International	
PERIODICAL: Doklady Akademia nauk SSSR. 1450 Vol 124, Nr 4. pp 319-321 APSTRACT: In previous papers the authors rescribed some new reactions of the esters of α.β-unsaturated acids (Refs 1. 2) with reactions take place according to Arburous scheme of rearrangement (Refs 2, 4, In continuation of the study of the new kinds phosphites with quinones. The authors give a survey of the products of some trialkyl phosphites to phenocoping to Arburous give a survey of the products of some trialkyl phosphites to phenocoping. Their substances in weakly acid medium yields hydrogen are set.	:SHOHTUA		SOV, '2 = 124-4-25 '6-	
PERIODICAL: Doklady Akademic nack SSSR. 1955 Vol 124, Nr 4, pr 319-521 ABSTRACT: In previous papers the authors rescribed some new reactions of the above-mentioned esters with various WF - conjugated systems α, β-unsaturated aldenyder (Ref 3) and diagetyl (Ref 4). These ment (Refs 2, 4). In continuation of the study of the new kind of that rearrangement this paper deals with the reaction of respective publications (Refs 5-8). They synthesized addition constants are given in table 1. The saponification of these main traduct. They substances in weakly acid medium yields hydrogylizers as the main traduct.	1 1 L FE !	Addition of Coaplete Esters of Phospi p-Benzoquinone (Prisoyedinerrye polry kisloty k p-benzokhinony)	nzerwingra (Programmes of Phespherous Acid to	
APSTRACT: In previous papers the authors described some new reactions of the above-mentioned esters with various WF - conjugated systems of, \$\beta\$-unsaturated acids (Refs 1, 2) with reactions take place according to Arburov's scheme of rearrangement (Refs 2, 4). In continuation of the study of the new kinds phosphites with quinones. The authors give a survey of the products of some trialkyl phosphites to p-benzoquinone. Their substances in weakly acid medium yields hydrogylarge as main product. Their	PERIODICAL:			
TO THE STATE OF TH	ABSTRACT:	In previous papers the authors descrithe above-mentioned esters with various the esters of α , β -unsaturated and α , β -unsaturated aldehyder (Ref. 3) are ment (Refs. 2, 4). In continuation of that rearrangement this paper deals phosphites with quinones. The authors products of some trialkyl phosphites to constants are given in table 1. The sales substances in movel.	bed some new reactions of us we not not us we not not us at a system; - (Refs 1, 2), with and diagetyl (Ref 4). These user's scheme of rearrange the study of the new kind; with the reaction of give a survey of the new synthesized addition of p-benzoquinone. Their monification of the new interests of the new synthesized addition of p-benzoquinone.	
The state of the s	Cari 1/3	mark product mb.	9 MUTOCH Sana as 1.	

Addition of Complete Esters of Phosphorous Acad to

504/2. -1 24-4-25/17

(IV) but (VI...

portion of the molecule. Yet these data do not confirm that the products mentioned possess a structure (IV, [see Scheme, since the bond F-Ar can be easily hydrolyzed of there is an oxy or amino group in the ortho-or para-position (Ref. 9). Thus, the addition product of trupheryl prosphing to preence quinque (I) on the firmation of syling, whose and topheryl prosphing oxide is easily hydrolyzed (Refs. 5, 6). For the purpose of checking the structure of the addition products mentioned the authors and ed out a nounter-synthesis of diethyl-past oxy-phenyl phosphate, whereby a product was obtained that differs from the addition product of triethyl phosphite to p-benzoquintre as far as its constants are concerned (T. ble 1). In addition to that, a free hydroxyl

these products do not postess the structure

group is ladling in it. Accordingly it may be assumed that the phosphor's in the addition products mentioned conspicuously is not bound to not roger but to the amomatic ring. Like the addition projects of triphecyl prosphere to p-benzoquing.

Unlike the thialkyl phosphites, triphenyl phosphite does not

react with potenzoquinors at room temperature. If heated for

Cari 2/3

Addition of Complete Esters of Enosphorous Avia to SOV/2 = 24-4-25/67 r-Benzoquinone

amount of phenol could be distribled off from the Liquid portion of the reaction product. It is an advition product of a triphery's phespolia movestic to a remodulation move the action with a presumably the product of the first stage of reaction with a structure (V). The second stage of rearrangement according to Arbizov cannot be carried out separately since the reaction products are resinified. N. S. Gariffyanov remarks the specific paramagnetic resinance of several products. No formation free radicals could be found to them. There are a table and preferences, 4 of which are Siziet.

ASSOCIATION: Kazanskiy filial Vsesbyoznek is nrv-1 -vsicvate skigi kinofitoinsiitira (Kazan Branun of ine Ali-Union Scientii)

Cinema-Photography Research Institutes

PRESENTED: October 9, 1958, by P. A. Arthrow Academician

SUBMITTED: October 1, 955 Card 3/3

Jul 1),)

5.430

65423

AUTHORS:

Kukhtin, V. A., Abramov, V. S., Orekhova, K. H. SOV/20-128-6-28/63

TITLE:

Regrouping of the Esters of X-Oxy-alkyl Phosphinic Acids to

Isomeric Phosphates

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1198 - 1200

(USSR)

ABSTRACT:

The regrouping mentioned in the title (Refs 1,2) can - according to reference 5 - only take place if X is split off as an anion. Otherwise, a decomposition into aldehyde and dialkyl-phosphorous acids (Ref 6) must occur under the influence of alkalis. A similar regrouping producing isomeric phosphates is mentioned in reference 7 (see Diagram). The 2nd author made dialkyl-phosphorous acids directly act on diacetyl (Ref 8), and obtained esters of the α-oxy-β-aceto-ethyl-phosphinic acid (Table 1, Products A). Under different conditions, products with other constants were obtained. In a glass flask (instead of soldered-up ampullae), dialkyl phosphites with diacetyl yield the products B (Table 1) at a temperature above 100°. Table 2 shows the influence of experimental conditions on the course of reaction with the use of diethyl-phosphorous acid. A comparison of products A and B shows that A contains 8.16% of the hydroxyl group

Card 1/3

66423

Regrouping of the Esters of X-Oxy-alkyl Phosphinic SOV/20-128-6-28/63 Acids to Isomeric Phosphates

(according to Tserevitinov's method). Its infrared spectrum shows an intensive band at 3.290 cm⁻¹ (Ref 9). Hence it seems to be certain that A is an ester of α -oxy- β -aceto-ethyl-phosphinic acid. The absorption at 3250-3300 cm⁻¹ is missing in the infrared spectrum of B. On saponification with barium hydrate, it yields a barium salt of diethyl phosphate and, therefore, is a mixed diethyl-3-keto-2-butyl ester of the phosphoric acid. A diagram shows the interaction reaction of dialkyl-phosphorous acids with diacetyl yielding the isomeric products A or B depending on the conditions of execution. Sodium alcoholate accelerates this reaction and yields product B exclusively. The authors explain the regrouping under review in a way different from reference 5. An accompanying splitting-off of the haloid ion is not necessary. Thus, the authors detected a new interesting regrouping (as mentioned in the title) to isomeric mixed esters of the phosphoric acid. It takes place under the influence of sodium alcoholates in alcoholic solution, or due to the influence of dialkyl phosphites on diacetyl at 125-130°. The names of B. A. Arbuzov, V. S. Abramov and A. S. Kapustina are

Card 2/3

66423

Regrouping of the Esters of X-Oxy-alkyl Phosphinic Acids to Isomeric Phosphates SOV/20-128-6-28/63

> also mentioned in the paper. There are 2 tables and 10 references, 5 of which are Soviet.

ASSOCIATION:

Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan' Institute of Chemical Technology imeni S. M. Kirov). Kazanskiy filial nauchno-issledovatel'skogo kinofotoinstituta (Kazan' Branch of the Scientific Research Institute of Cinematography and Photography)

PRESENTED:

June 12, 1959, by B. A. Arbuzov, Academician

SUBMITTED:

June 1, 1959

Card 3/3

\$/079/60/030/04/34,080 B001/B016

AUTHORS:

Kukhtin, V. A., Orekhova, K. M.

TITLE:

Addition of Saturated Esters of Phosphorous and Phosphania Acids to Conjugate Systems. IX. Addition of Trialkyl Phosphites to d-Diketones

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1266-1.

TEXT: The reaction of trialkyl phosphites with α -diketones may proceed according to two possible schemes (A and B), i.e. with or without shift of the reaction center (Scheme 1). A more thorough investigation showed, contrary to previous ones (Ref. 2), that the addition of trialkyl phosphites to α -diketones takes place on a carbonyl group, i.e. icociaing to scheme A. The following facts indicate this: 1) The end product (II) (R=C₂H₅) is not esterified under any conditions with ethanol to give triethyl phosphate (comparison with the statement of Ref. 3) 2) Product (II) forms a barium salt of diethyl-phosphorous acid or saponification with barium hydroxide (comparison with the statement of

Card 1/3

Addition of Saturated Esters of Phosphorous and Phosphinic Acids to Conjugate Systems. IX. Addition of Trialkyl Phosphites to α -Diketones

\$/079/60/030/04/34/050 B001/B016

Ref. 4). 3) According to the Raman effects of compounds (I) and (II), the latter show no vibrational frequencies of the double bond but are rather indicative of the carbonyl group. The intermediates (I) $(R' = CH_3; R = C_2H_5, C_3H_7, C_4H_9)$ were separated in pure condition, and characterized (comparison with the products of Ref. 1). Compared (I) reacts vigorously with water, and is transformed to (III). This takes place already at atmospheric moisture (Scheme 2). The effect of temperature, solvents, catalysts on the course of reaction of the second step (Arbuzov rearrangement) in the afore-mentioned reaction was investigate. (Table 2). Organic acids react intensely with compound (I), and transform them to (III). The products (I) and (II) react with phenyl hydrazine in which connection diphenyl hydrazones are formed quantitatively. Considering the structure of the intermediates obtained in the Arbuzov rearrangement, the structure of formula (A) (p. 1210) seems to be more probable than that of formula (B). The Raman spectra were taken by B. A. Arbuzov and V. S. Vinogradova. The authors mention a paper by

Card 2/3

Addition of Saturated Esters of Phosphorous and Phosphinic Acids to Conjugate Systems. IX. Addition of Trialkyl Phosphites to α-Diketones

S/079/60/030/04/34,050 B001/B016

V. S. Abramov, L. Sh. Belokon', and F. I. Makhmutova (Ref. 5). There are 2 tables and 8 references, 6 of which are Soviet.

ASSOCIATION: Kazanskiy filial nauchno-issledovatel'skogo kinofot: ration (Kazan' Branch of the Motion Picture and Photography Scientific Research Institute)

SUBMITTED: May 11, 1959

Card 3/3

\$/079/60/030/05/2€,074 B005/B126

AUTHORS:

Kukhtin, V. A., Orekhova, K. M.

TITLE:

The Addition of Neutral Esters of Phosphorous Acid and Full Esters of Phosphinic Acid to Conjugate Systems X. The Reaction of Trialkylphosphites With π , π , π -Conjugate Systems

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp 1526-1529

TEXT: The authors examined the reaction of trialkylphosphites with transand cis-dibenzoylethylene and with vinylacrylic acid. Triethylphosphite reacts with trans-dibenzoylethylene in an ethereal solution at room temperature, forming a thick glycerine-like product which does not crystallize and cannot be distilled in a high vacuum without decomposition. This inter-product reacts with water, evolving heat, and it effects their polymerization when added to acrylates. When the reaction of triethylphosphite with trans-dibenzoylethylene is carried out under more rigorous conditions (heating to 120°), a product is obtained which, when vacuum distilled, gives triethylphosphate and considerable quantities of 2,5-diphenylfurane. Cis-dibenzoylethylene reacts with triethylphosphite

Card 1/3

COMPANDED IN THE PARTY OF THE P

The Addition of Neutral Esters of Phosphorous Acid and Full Esters of Phosphinic Acid to Conjugate Systems. X. The Reaction of Trialkylphosphites With $\pi_o \pi_o \pi_- \text{Conjugate Systems}$

S/079/60/030/05/26/074 B005/B126

in exactly the same way as the trans-form. The action of water on the above intermediate of the addition of triethylphosphite to dibenzoylethylethylene is to produce dibenzoylethane. That indicates that dibenzoylethylene behaves on the addition similarly to p-quinones The above formation of 2,5-diphenylfurane is apparently due to the thermal decomposition of the intermediate of the addition. 2,5-diphenylfurane also forms by dehydration of dibenzoylethane, which is produced by the effect of dampness on the intermediate of the addition Vinylacrylic acid reacts less vigorously with trialkylphosphites than acrylic- or methacrylic acid (Ref. 2). A small yield of phosphorvinylacrylesters results from the reaction of vinylacrylic acid with triethylphosphite; the main product of the reaction was a telomer, which was formed by the addition of some vinylacrylic acid molecules to the triethylphosphite Only this telomer results from the reaction of tripropylphosphite with vinylacrylic acid. The authors explain these results thus: since the formation of a seven-membered ring is difficult, the intermediary dipolar ion does not stabilize itself on the ring-shaped intermediate but adds

Card 2/3

The Addition of Neutral Esters of Phosphorous Acid and Full Esters of Phosphinic Acid to Conjugate Systems. X. The Reaction of Trialkylphosphites With m, m, m-Conjugate Systems

S/079/60/030/05/26/074 B005/B126

some more acid molecules, forming the above telomer. The inability of the vinylacrylic acid to form the ring-shaped intermediate, proves the covalent form of the intermediate. If the intermediate had ionic structure, it would also have to form in the case of vinylacrylic acid. All the experiments carried out are fully described in the experimental part. The Arbuzov Rearrangement is mentioned. There are 6 Soviet

ASSOCIATION: Kazanskiy filial Nauchno-issledovatel'skogo kinofotoinstituta (Kazan' Branch of the Scientific Research Institute for Cinematography and Photography)

SUBMITTED: May 11, 1959

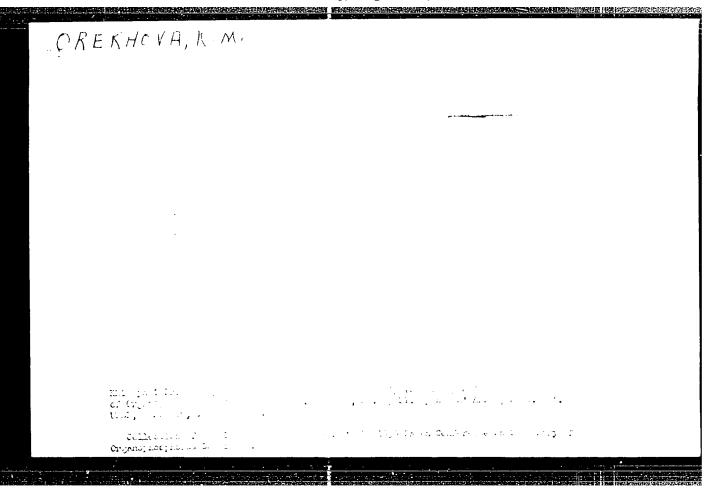
Card 3/3

KUKHTIN, V.A., GARIF'YANOV, N.S., OREKHOVA, K.M.

Addition of complete ester of phosphorous and phosphinous acids to conjugated systems. Part 11: Interaction between trialkyl phosphites and ρ -quinones. Zhur. ob. khim. 31 no.4:1157-1165 kp *61. (MIRA 14:4)

1. Kazanskiy filial nauchno-issledovatel skogo kinofotoinstituta.
(Phosphorous acid)

(Benzoquinone) (Naphthoquinone)



OREKHOVA, M.M., mladshiy nauchnyy sotrudnik

Morphobiological characteristics of the trichomonads of poultry.

Veterinariia 40 no.9:72-75 S 63. (MIRA 17:1)

1. Belorusskiy nauchno-issledovatel'skiy veterinarnyy institut.

```
OREKHOVA, Mariye - *heylovba; MATSYUK, F., red.
      [Foultry diseases (protozoan)] Bolezni domashrik: ; 11:
      (protozo nye . Minek, Drozhaf, 1964. 43 p.
                                       (M1kA .8 +)
```

NEVOLIN, F.V., kand.tekhn.nauk; KRAL'-OSIKINA, G.A.; OREKHOVA, M.V.

Surface active properties and detergency of soap mixtures and synthetic detergents. Masl.-zhir. prom. 24 no.1:23-25 '58. (MIRA 11:3)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov. (Cleaning compounds)

PETROV. A.D., NIKISHINA, G.I., kand. khim. nauk, NEVOLIN, F.V., kand. tekhn. nauk, KRAL'-OSIKINA, G.A., OREKHOVA, N.V., YUSHKEVICH, A.V.

Effect of the size and structure of the alkyl chain of alkyl derivatives of benzenesulfonic acid on their surface active and detergent properties. Masl.-zhir. prom. 24 no. 8:23-29 158.

(MIRA 11:8)

1. Chlen-korrespondent AN SSSR (for Petrov). 2. AN SSSR (for Petrov, Nikishina). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Nevolin, Kral'-Osokina, Orekhova, Yushkevich).

(Benzenesulfonic acid)

(Surface active agents)

NEVOLIN, F.V., kand. tekhn. nauk; KRAL'-OSIKINA, G.A.; OREKHOVA, M.V.

Suspending power of various detergents and their mixtures with carboxymethyl cellulose and cellulose sulfate. Masl.-zhir. prom. 25 no.1:25-27 '59. (MIRA 12:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov. (Cleaning compounds) (Cellulose)

```
FEDYUKIN, D.L.; ZAKHARENKO, N.V.; OREKHOVA, N.1.

Determining the toe stiffness of miner's boots. Kauch.i rez.
21 no.3:56-57 Mr '62. (MIRA 15:4)

1. Nauchno-issledovatel'skiy institut rezinovoykh i lateksnykh izdelly.
(Boots and shoes, Rubler--Testing) (Clothing, Protective)
```

FEDOSOV, N.M.; SHARIPOV, E.I.; KUNAKOV, Ya.N.; OREKHOVA, R.S.

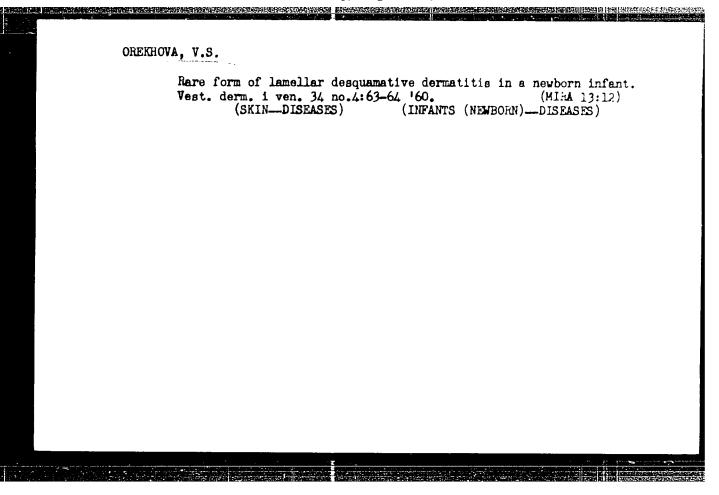
Machanical properties of iron-milicon alloys. Izv. vys. ucheb. zav., chern. met. 6 no.11:18:-185 '63. (MIRA 17:3)

1. Moskovskiy institut stali i splavov.

CHERNOVA, A.I.; OREKHOVA, V.D.; PROSKURNIN, M.A.

"Prinary" formation of H₂ and H₂O₂ during the action of y-radiation on aqueous solutions of Mohr's Salt [with summary in English]. Zhur. fiz.khim. 32 no.12:2843-2844 D '58. (MIRA 12:2)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova, Moskva. (Iron sulfates) (Gama rays)



ANDRYUSHCHENKO, F.K.; CREKHOVA, V.V.; GONCHARCVA, Ye.I.; SHMORGUN, V.I.

Effect of the pH and buffer concentration on the stability of sodium hydrosulfite in solutions. Ukr. khim. zhur. 27 no.4:536-539 '61. (MIRA 14:7)

1. Nauchno-issledovatel'skiy institut osnovnoy khimii, Khar'kov. (Sodium dithinite) (Hydrogen-ion concentration)

ANDRYTCHCHENKO, P.K.; OREKHOVA, V.V.; BATRACHNYY, B.I., CRESTRA, C.E.,
ANDRYTCHCHENKO, L.F.

Electrodeposition of metals on titacia. Involve intercent khim.tekh. 6 nr.5:323-828 '61. (MIRA TIEL)

1. Khar'kovskiy politekhnicheskiy institut imet langur, per utakhnologii elektrokhimicheskikh proizvorstv.

KHLEBNIKOV, A.M.; ZARINA, E.Ya.; CHEKHOL'SKAYA, E.K.; OREKHOVA, Z.M.

Blending of silk on bobbins of a finishing machine. Khim. volok. no.5:73 '62. (MIRA 15:11)

1. Klinskiy kombinat iskusstvennogo i sinteticheskogo volokna.

(Rayon)
(Textile finishing)