

LEVASHEV, Ye.D., inzh.; ASTAF'YEV, G.K., inzh.; GURETSKIY, S.A.,
inzh.; MIRONOV, K.A., inzh.; Prinsipal uchastiye STRUCHKOV,
Ye.I., inzh.; VINNICHENKO, N.G., kand. ekon. nauk, retsenzent;
KULAGIN, N.N., inzh., retsenzent; NEVEZHIN, P.P., inzh.,
retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; KHITROVA,
N.A., tekhn. red.

[Economics, organization, and planning of electric transport]
Ekonomika, organizatsiia i planirovanie elektrotiagovogo kho-
ziaistva. [By] E.D.Levashev i dr. 2., perer. izd. Moskva,
Transzheldorizdat, 1963. 286 p. (MIRA 16:9)
(Electric railroads—Management)

ACC NR: AM6014/44

Monograph

UR/

Mironov, Konstantin Andreyevich; Khatsyanov, Feliks Grigor'yevich;
Shegal, Genrikh L'vovich; Shipetin, Lev Iosifovich; Yanovskiy, Petr
Illarionovich

Technology of automatic control systems design; reference materials
(Tekhnika proyektirovaniya sistem avtomatizatsii; spravochnyye
materialy) Moscow, Izd-vo "Mashinostroyeniye", 1966. 702 p.
illus., biblio., tables. Errata slip inserted. 16,500 copies printed.

TOPIC TAGS: automation, automatic control, electric control system,
pneumatic control system, automatic control design, automatic control system.

PURPOSE AND COVERAGE: This book is intended for technical persons
concerned with the planning of automation systems and related
processes. It can also be used by students at secondary and
technical education and technical schools. The book contains
secondary references concerning the design of automatic control
systems. It gives examples of projects based on the plans, programs
of the leading design organizations of the USSR. In addition to
this, the book contains recommendations regarding the selection of
means of automation, methods of designing control systems, etc.

...of computing, automatic regulation systems, ...
...the tapered device of flow-meters, ...
...best and assembly materials used in the systems for automatic
control and regulation of technological processes are presented.

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SUB CODE: 13/ SUBM DATE: 18Nov65/ ORIG REF: 121/ OTH REF: 003

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CHERNYSHEVICH, Fedor Ignat'yevich, inzh.; GURETSKIY, Semen
Aleksandrovich, inzh.; KULISP, Viktor Fedorovich. inzh.;
Prinimal uchastiye MIRONOV, K.A., inzh. ROMADINA, I.V.;
AYBASHEVA, T.V., red.

[Safety procedures in the repair of electric rolling stock]
Tekhnika bezopasnosti pri remonte elektropodvizhnogo sostava.
Moskva, Transport, 1966. 98 p. (MIRA 18:8)

TRONOV, K. A.

Teplotekhnicheskii kontrol' i avtomaticheskoe regulirovanie zavodskikh pochei. (Vestn. Mash., 1948, no. 11, p. 40-53)

Thermoregulation and automatic control of factory furnaces.

DDC: T44.74

See: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

MIROV, E. A. and V. K. DMITRIY.

Kontrol' i avtomaticheskoe regulirovaniye elektricheskoy sootivleniya. (Vestn. Mash., 1977, No. 5, p. 12-13).

(Inspection and automatic control of electric resistance of places.

1977, No. 5.

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1977.

MIRONOV, K. A.

MIRONOV, K.A.; SHIPETIN, L.I.; LOSKUTOV, V.I., kandidat tekhnicheskikh nauk, retsenzent; LUKIN, V.P., redaktor.

[Thermotechnical measuring instruments] Teplo tekhnicheskie izmeritel'nye pribory; spravochnye materialy. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 497 p.
(Measuring instruments) (MLRA 7:8)

MIRONOV, KONSTANTIN ANDREYEVICH

M/5
7/11.21
M6

MIRONOV, KONSTANTIN ANDREYEVICH

TEPLOTEKHNICHESKIYE IZMERITEL'NYYE PRIBORY I AVTOMATICHESKIYE REGULYATORY;
SPRAVOCHNYYE MATERIALY (THERMO-TECHNICAL MEASURING INSTRUMENTS AND AUTOMATIC
REGULATORS) MOSKVA, MASHGIZ, 1956.

675 p. ILLUS., DIAGRS., TABLES.

"LITERATURA": p. 658- (660)

9(6); 24(8); 28(5)

PHASE I BOOK EXPLOITATION

SOV/1420

Mironov, Konstantin Andreyevich, and Lev Iosifovich Shipetin

Teplotekhnicheskiye izmeritel'nyye pribory; spravochnyye materialy (Heat Engineering Measuring Apparatus; Reference Material) 2d ed., rev. and enl. Moscow, Mashgiz, 1958. 896 p. 20,000 copies printed.

Reviewer: M.A. L'vov, Candidate of Technical Sciences; Ed.: P.G. Adamov, Engineer; Ed. of Publishing House: G.F. Polyakov; Tech Ed.: A.Ya. Tekhanov, Managing Ed. for Literature on Machine Manufacturing and Instrument Making (Mashgiz): N. V. Pokrovskiy, Engineer.

PURPOSE: This book is intended for engineers and technicians engaged in planning, building, and installing equipment for the control and regulation of heating systems in various industries. It may also be used by students working on course projects and graduation requirements in vtuzes and tekhnikums.

COVERAGE: This book gives the main characteristics, arrangement, and over-all dimensions of apparatus for measuring temperature, pressure, quantity, and flow of liquids, gases and vapors, liquid levels, the composition of liquids,

Card 1/30

Heat Engineering Measuring (Cont.)

and the composition, density and humidity of gases.

SOV/1420

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Foreword

PART I. APPARATUS FOR MEASURING TEMPERATURE

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Ch. I. Expansion Thermometers

Liquid-in-glass thermometers

Technical mercury thermometer TT (TP-121)

Low temperature, liquid filled, laboratory-type thermometer TL-15(TL-101)

Metastatic mercury thermometer type TL-1(TS-102)

Laboratory mercury thermometers TL-4 (TL-103, TL-104,

TL-105, TL-106 and TL-107

Laboratory mercury thermometers TL-2 (TL-116)

High-temperature, rod-shaped, mercury thermometers TL-3T (TL-111)

Liquid-in-glass thermometer type TS-7(TB-102) for warehouses

Signaling thermometers

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PHASE I BOOK EXPLOITATION

SOV/5840

Mironov, Konstantin Andreyevich, and Lev Iosifovich Shipetin
Automaticheskiye regulatory; spravochnyye materialy (Automatic Con-
trollers; Reference Materials) 2d rev. and enl. ed. Moscow,
Mashgiz, 1961. 551 p. 25,000 copies printed.

Reviewer: A. Ts. Chervyakovskiy, Engineer; Ed.: M. S. Yeliseyev,
Engineer; Tech. Ed.: A. Ya. Tikhonov; Managing Ed. for Litera-
ture on the Means of Automation and Instrument Construction
N. V. Pokrovskiy, Engineer.

PURPOSE: This book is intended for engineers and technicians con-
cerned with the design, assembly, and operation of automatic con-
trol systems of manufacturing processes; it may also be useful
to students at schools of higher education and tekhnikums.

COVERAGE: Concise descriptions of self-energized and relay-operated
(hydraulic, pneumatic, and electric) controllers and their acces-
sories are presented. Information on control valves and data

Card 1/2

Automatic Controllers; Reference Materials

SOV 5848

on control panels and cabinets for the mounting of instruments, controllers, and accessories are also given. Reference data are based on various catalogs, specifications of plants, shop manuals, and on information compiled by the *Proyektno-konstruktorskoye Byuro "Glavproyektmontazhavtomatika" Ministerstva stroitel'stva RSFSR* (Planning and Design Bureau for Design and Assembly of Automation Equipment of the Ministry for Construction of the RSFSR). No personalities are mentioned. There are 10 references. All Soviet.

TABLE OF CONTENTS [Abridged]:

Preface to the Second Edition

General Information on Controllers

PART I. SELF-ENERGIZED AUTOMATIC CONTROLLERS

1.1. Temperature Controllers

Card 2/7

MIRONOV, K. I.
12

5(2), 5(4)
AUTHOR:

Sokolov, O. I.

507/6-27-7-25

TITLE:

as Competition for the best Improving
Suggestion (Itogi nauki i tehnicheskogo razvitiya)
predlozheniya

PERIODICAL:

ABSTRACT:

In May 1959, the ordinary competition for the best improving suggestion in the field of topographic-geodesic and cartographic production was held. It was concluded at the Ministry of Geodesy and Cartography of the USSR (Main Administration of Geodesy and Cartography of the USSR) that the Ministry of Internal Affairs and the Ministry of Defense had a total of 10 cartographic institutes of 1,000 employees each. The 1st prize was awarded to the Institute of Geodesy and Cartography of the Ministry of Internal Affairs (Moscow) for the "Technique of the Method of the Plane" for the "Technique of the Method of the Plane". The 2nd prize of 150 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Defense (Moscow) for the "Technique of the Method of the Plane". The 3rd prize of 100 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Internal Affairs (Moscow) for the "Technique of the Method of the Plane". The 4th prize of 50 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Defense (Moscow) for the "Technique of the Method of the Plane". The 5th prize of 25 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Internal Affairs (Moscow) for the "Technique of the Method of the Plane". The 6th prize of 10 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Defense (Moscow) for the "Technique of the Method of the Plane". The 7th prize of 5 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Internal Affairs (Moscow) for the "Technique of the Method of the Plane". The 8th prize of 2 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Defense (Moscow) for the "Technique of the Method of the Plane". The 9th prize of 1 ruble was awarded to the Institute of Geodesy and Cartography of the Ministry of Internal Affairs (Moscow) for the "Technique of the Method of the Plane". The 10th prize of 0.5 rubles was awarded to the Institute of Geodesy and Cartography of the Ministry of Defense (Moscow) for the "Technique of the Method of the Plane".

Card 1/6

Card 2/6

Card 3/6

[illegible]

MIRONOV, K.I., inzh.

Results of promoting safety measures in mining. Bezop.truda v
prom. 1 no.10:29 0 '57. (MIRA 10:11)
(Kazakhstan--Mining engineering--Safety measures)

MIRONOV, K.I., inzh.

Use rod bolting more widely. Bezop. truda v prom. 7 no.1:32-33 Ja '63.
(MIRA 16:2)

1. Upravleniye Karagandinskogo okruga Gosudarstvennogo komiteta pri
Sovete Ministrov KazSSR po nadzoru za bezopasnym vedeniyem rabot
v promyshlennosti i gornomu nadzoru.
(Mine roof bolting)

MIRONOV, K.I., sadovod-opytnik

Effect of rootstock on the scion. Agrobiologiya no.2:
290-291 Mr-Apr '65. (MIRA 18:11)

1. Gorodskoye obshchestvo michurintsev, g. Kemerovo.

IRAN, K. L.

1984/85 - 1985/86

"The new welding technology" by K. L. Iran, "Proyektirovaniye i izgotovleniye" (Design and Manufacturing), No. 1, 1985, p. 10. Also in "Proyektirovaniye i izgotovleniye" (Design and Manufacturing), No. 1, 1985, p. 10. Also in "Proyektirovaniye i izgotovleniye" (Design and Manufacturing), No. 1, 1985, p. 10.

Describes new welding technology for joining of metal parts. The process involves the use of an electrode and a current source. The electrode is used to create a weld pool, which is then moved along the joint. The current source is used to maintain the temperature of the weld pool. The process is described in detail, including the equipment used and the results of the welding.

IA

MIRONOV, K. M.

27240. PEREVERZEV, G. A., MIRONOV, K. M. - Otechestvennyy dzhut. Kul'tura i obrabotka.
Tekstil. Prom-st', 1949, No. 3, s. 4-6.

SO: Letopis' Zhurnal'nykh Statey, Vol. 2, 1940.

Flax, L. H.

Violentist let ... of Flax,

MIRONOV, K.M., kandidat tekhnicheskikh nauk.

Review of foreign literature on the retting of flax and other
bast plants. Vestsi AN BSSR.Ser.bial.nau. no.3:123-130 '56.
(MIRA 10:1)

(Retting)

MIRNOLV, K.M., K.M. K.M. K.M.

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DMITRIYEVA, A.I.; SHUSHKIN, A.A.; MIRONOV, K.M.; DERBENEV, S.I.;
GRANICHNOVA, Z.P.; OKUN', M.M.; MIKHAYLOVA, N.N.; ANDREYEV,
V.V.; MAKEYEV, V.S.; OSIPOVA, V.M.; L'VOVYY, V.S.;
SMIRNOV, G.N., nauchnyy sotr.; LAIKIN, I.N.; TAL'NITSKIY,
G.N.; MORKOVIN, V.A.; GALAGAN, V.A.; RAZUVAYEV, A.A., red.;
SOKOLOVA, V.Ye., red.; TRISHINA, L.A., tekhn. red.

[Manual on the industrial primary processing of flax]
Spravochnik po zavodskoi pervichnoi obrabotke l'na. Izd. 2.,
perer. i dop. Moskva, Mestekhizdat, 1962. 76 s.

(MLA 16:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khar'kovskoy
volokon (for Dmitriyeva, Shushkin, Mironov, Derbenev,
Granichnova, Okun', Mikhaylova, Andreyev, Makeyev, Osipova).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany
truda (for Smirnov). 3. Upravleniye zagotovki i pervichnoy ob-
rabotki l'na kalininskogo sovmarkhloza (for Laikin, Tal'nitskiy,
Morkovin, Galagan, L'vovyy).

(Flax) (Flax processing machinery)

MIRONOV, K.M., kand.tekhn.nauk; ROSTOVTSKAYA, N.V., ~~mladshiy nauchnyy spetsialist~~

Modified two-phase biological retting of kenaf and jute bast.
Nauch.-issl.trudy TSNILV 17:20-36 '62. (MIRA 14:10)

DERBENEV, S.I.; ~~MIRONOV, K.M.~~; MURATOVA, M.A., retsenzent; SOKOLOVA,
V.Ye., red.; PYATNITSKIY, V.N., tekhn. red.

[Technology of the industrial biological retting of bast raw
materials] Tekhnologiya promyshlennoi biologicheskoi mochki
lubianogo syr'ia. Moskva, Gizlegprom, 1963. 199 p.
(MIRA 16:9)

(Retting)

DERBENEV, S.I., kand. tekhn. nauk; MIRONOV, K.M., FILIPENKO,
Yu.G., red.

(New developments in the techniques of mill retting of
flax and hemp in the socialist countries of Europe) No-
voe v tekhnike zavodskoy obrabotki i konopli v kapitalis-
ticheskikh stranakh Evropy. Moskva, 1963. 13 p.

(MIRA 17.4)

1. Moscow. Tsentral'nyy institut nauchno tekhnicheskoy
informatsii legkoy promyshlennosti.

MARKIN, N.M.; MIRONOV, K.N.

Stratigraphy and facies of Paleocene and Miocene sediments in the
northwestern shores of the Kamchatka-Tigil' area. Avtoref. nauch.
trud. VNIGRI no.17:202-205 '56. (MIRA 11:6)
(Kamchatka Valley--Geology, Stratigraphic)
(Tigil' Valley--Geology, Stratigraphic)

KOGAN, I.D., otv.red.; ANDREYKO, V.F., red.; BORZUNOV, V.M., red.;
MIRLIN, R.Ye., red.; MIRONOV, K.V., red.; SERGEYEVA, N.A.
red.izd-va; GUROVA, O.A., tekhn.red.

[Materials of the State Committee on Resources on prospecting
methods, evaluation and calculation of mineral deposits;
collected studies] Materialy GKZ po metodike razvedki, promysh-
lennoi otsenke i podshchetu zapasov mestorozhdenii poleznykh isko-
paemykh; sbornik. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
geol. i okhrane neдр. No.1. 1959. 153 p. (MIRA 13:4)

1. Russia (1923- U.S.S.R.) Gosudarstvennaya komissiya po
zapasam poleznykh iskopayemykh.
(Mines and mineral resources)

11(7)

SOV/11-1-1-1/16

AUTHOR:

Mironov, K.V.

TITLE:

On Methods Used for Estimating Coal Reserves
(O konditsiyakh primenyayemykh pri podschete isko-pay-emykh usley)

PERIODICAL:

Razvedka i okhrana nefti, 1959, Nr 1, pp 11 - 15 (USSR)

ABSTRACT:

Methods of calculating coal reserves are still in conformity with standards set by the former Ministry of the Coal Industry of the USSR. According to the author, most of these methods are out of date and must be modified and completed. Their basic defect is that they do not take technical and economic factors which define the technical possibility and rentability of exploiting estimated reserves into consideration. These reserves are divided into two groups - basic ("balansovyy") and fringe ("zabalansovyy") reserves. Norms of the average maximum magnitude of coal layers are wrongly established for entire coal basins and regions without regard to their geological characteristics and

Card 1/2

On Methods Used for Estimating

Coal Reserves

to the quality of coals. Some coal reserves classified as basic ones definitely belong to the fringe reserves, whereas some fringe reserves cannot be economically exploited at all. The author makes some suggestions for the elaboration of new methods, which must take all factors omitted in the present binding conditions into consideration.

ASSOCIATION: GKZ

Card 2/2

SOV/132-52-4-3/17

The Use of Electric Core Sampling for the Estimation of Prospected Coal Reserves.

data obtained by electric core sampling guarantees the necessary exactness of estimation of coal reserves. The Section of Coals and Oil-Shales of the Ekspertno-Geologicheskii **soviet** GZ (the Expert-Geological Council of the State Commission on Reserves of Mineral Deposits) at the Council of Ministers of the USSR discussed the 16-paragraph report by M.A. Speranskiy on the "Possibility and Conditions of Utilization of Data of Electric Core Sampling in the Estimating of Prospected Coal Reserves". On the basis of this report, GZ established and ratified the "Conditions of Utilization of Electric Core Sampling Data in the Estimation of Prospected Coal Reserves". In substance, these "Conditions" foresee the combined utilization of electric core sampling and usual core sampling based on the study of cores obtained by prospecting drilling. There are

Card 2/3

SW/131-10--3/1

The Use of Electric Core Sampling for the Estimation of Un-
explored Coal Reserves.

4 Soviet references.

ASSOCIATION: GIZ

Card 1/1

MIRONOV, K.V.

Some unsolved problems of prospecting for coal deposits. Mat.GKZ
no.2:44-51 '61. (MIRA 16:3)
(Coal) (Prospecting)

MIRONOV, K.V.

Director of the Department of the State Committee on Mineral
Reserves on the quality of geological materials for the
calculation of reserves of oil and gas. Mat GKZ no. 3
1964-1965

SKROBOV, S.A., glav. red.; TYZHIROV, A.V., zam. glav. red.; SHABAROV, N.V., zam. glav. red.; AMOSOV, I.I., redaktor; red.; BUNTSEV, D.N., red.; IVANOV, G.A., red.; KOROTKOV, G.V., red.; KOTLUKOV, V.A., red.; KUZNETSOV, I.A., red.; MIKONOV, K.V., redaktor; MOLCHANOV, I.I., redaktor; NEKIPILOV, V.Ye., red.; POROMAEV, T.N., red.; POPOV, V.S., red.; PROKHOROV, S.P., red.; YAVORSKIY, V.I., red.; LAGUTINA, V.V., red. toma; LEVENSHTAYN, M.L., red. toma; SHIROKOV, A.Z., red. toma; IZRAILEVA, G.A., red. izd-va; KROTOVA, I.Ye., red. izd-va; IVANOVA, A.G., tekhn. red.

Geology of coal and combustible shale in the U.S.S.R.] Geologia mestorozhdenii uгля i goruchikh slantsev SSSR. Glav. red. I.I. Amosov i dr. Moskva, Gosgeoltekhizdat. Vol.1. [Coal basins and deposits in the south of the European part of the U.S.S.R.; Donetsk Basin, Dnieper basin, Lvov-Volyn' basin, deposits of the western provinces of Moldavia and the Ukraine, White Russia, Transcaucasia and the Northern Caucasus] Ugol'nye basseiny i mestorozhdenia iuga Evropeiskoi chasti SSSR; Donetskii bassein, Dneprovskii bassein, L'vovsko-Volynskii bassein, mestorozhdenia zapadnykh oblastei Ukrainy i Moldavii, Belorussii, Severnogo Kavkaza i Zakavkaz'ia. 1963. 1210 p. (MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskii komitet.

MIRONOV, Konstantin Vasil'yevich; KUZNETSOV, I.A., otv. red.;
KOROLEVA, T.I., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Evaluation of coal deposits from the point of view of
economic geology] Geologopromyshlennaya otsenka ugol'nykh
mestorozhdenii. Moskva, Gosgortekhnizdat, 1963. 238 p.
(MIRA 16:6)

(Coal—Geology)

NIKOLAY, K. Ya.; POPOV, A.I.; B. KIN, Y.-I.; BATS- .

Nitrates of the cerium group; f rare-earth metals .
Optical properties of nitrates of cerium and lanthanum . 197.
AM SSSR no.7 Ser. khim. nauk no.142-51 161

1. Institut neorganicheskoy khimii Sibirsk
Novosibirsk.

CA

Electrical conductivity of fused systems of halides of mercury and ammonium. I. N. Belyaev and K. K. Mironov (V. M. Molotov State Univ., Rostov-on-Don). *Doklady Akad. Nauk S.S.S.R.* 78, 1217 (1950). The systems $HgCl_2-NH_4Cl$, $HgBr_2-NH_4Br$, and HgI_2-NH_4I were studied by detg. elec. cond. and m.p. over concn. ranges from 0 to 75-78 mole % NH_4 halide (at higher concns. the melts froth excessively). Compd. formation, which in m.p. curves is shown with a max. or with a transition point for incongruently melting compds., is evident also by a min. in elec. cond. vs. concn. curves and also in curves of temp. coeff. of elec. cond. vs. concn. Thus, in the system $HgCl_2-NH_4Cl$, the m.p.-concn. curve shows the compd. NH_4Cl melting congruently at 218° , with adjacent eutectics at 198° , 38.5 mole % NH_4Cl , and 193° , 61 mole % NH_4Cl ; and there are 4 incongruently melting compds. with the following values for ratio of $HgCl_2$ to NH_4Cl , mole percent NH_4Cl on liquidus curve, and temp.: resp. 9:2, 18.8, 243; 3:1, 33.5, 235; 2:1, 33.5, 214; and 1:2, 66.6, 243. The temp. coeff. of elec. cond. was detd. by measuring cond. at

230 and 300° . The system $HgBr_2-NH_4Br$ was studied similarly, with cond. measurements at 300, 250, 300, and 350° . The liquidus curve shows a eutectic at 140° , 48 mole % NH_4Br , and 4 incongruently melting compds., with the following values for ratio of $HgBr_2$ to NH_4Br , mole % NH_4Br on liquidus curve, and temp.: resp. 3:1, 25, 222; 3:2, 40, 155; 1:2, 60, 201; and 1:4, 67, 206. In the system HgI_2-NH_4I , elec. cond. was again detd. at temps. of 200, 250, 300, and 350° . This system shows a eutectic at 113° , 40 mole % NH_4I ; a transition point at 120° , 42 mole % NH_4I , involving a polymorphic transformation of HgI_2 ; and two transition points, corresponding to the compds. $HgI_2 \cdot 2NH_4I$, 50 mole % NH_4I , 215° , and $HgI_2 \cdot 4NH_4I$, 63 mole % NH_4I , 234° . The max. and min. in the elec. cond. and temp.-coeff. curves are very sharp in the system $HgCl_2-NH_4Cl$, and become progressively less pronounced in the series $Cl-Br-I$. Arild J. Miller

2

[illegible]

USSR/Chemistry - Solid Solutions,
Mercury Compounds
Physicochemical Analysis of Systems Consisting
of Mercury Halides and Alkali Metals and Ammo-
nium Halides. I. N. Belyayev, K. Ye. Mironov,
Rostov-on-Don State U imeni V. M. Molotov,
"Zhur Obshch Khim" Vol 22, No 9, pp 1484-1489

Sep 52

The following systems were studied using the fu-
sion method: $HgCl_2 - LiCl$, $HgCl_2 - NaCl$, $HgCl_2 -$
 KCl , and $HgCl_2 - NH_4Cl$. Alkali metal chlorides

form complexes with increasing facility in the
order $Li \rightarrow Na \rightarrow K \rightarrow NH_4$. The system $HgCl_2 - LiCl$
is of the same type as alk earth chlorides -
mercuric chloride. A relationship was estab-
lished connecting deviations of mol wts with ionic
radii of alkali metals from true mol wts obtained
in the system $NH_4Cl - HgCl_2$, 3 polymorphic trans-
formations were found to take place in the temp
range 203-213°.

232T15

232T15

USSR/Chemistry - Solid Solutions, Mercury Compounds Sep 52

"Physicochemical Analysis of Systems Consisting of Mercury Halides and Alkali Metals and Ammonium Halides. II. Fusibility of Bromide and Iodide Systems," I. N. Belyayev, K. Ye. Mironov, Chair of Gen Chem, Rostov-on-Don State U imeni V. M. Molotov

"Zhur Obshch Khim" Vol 22, No 9, pp 1490-1497

The systems $\text{HgBr}_2\text{-NaBr}$, $\text{HgI}_2\text{-NaI}$, $\text{HgI}_2\text{-KI}$, and $\text{HgI}_2\text{-NH}_4\text{I}$ were studied using a visual-polythermal method. The systems $\text{HgBr}_2\text{-KBr}$, and $\text{HgBr}_2\text{-NH}_4\text{Br}$ were studied with the aid of both visual-polythermal and thermal methods, whereupon heating and cooling curves were plotted. In the system $\text{HgBr}_2\text{-NaBr}$, 2 compds are formed. In the system $\text{HgBr}_2\text{-KBr}$, 4 compds are formed: $\text{KBr}\cdot\text{HgBr}_2$, $\text{KBr}\cdot 2\text{HgBr}_2$, $\text{KBr}\cdot\text{HgBr}_2\cdot 2\text{NH}_4\text{Br}$, 5 compds are formed: $\text{NH}_4\text{Br}\cdot\text{HgBr}_2$, $2\text{NH}_4\text{Br}\cdot\text{HgBr}_2$, $4\text{NH}_4\text{Br}\cdot\text{HgBr}_2$, $2\text{NH}_4\text{Br}\cdot\text{HgBr}_2\cdot 2\text{NH}_4\text{Br}$, one compd is formed of the probable compn $\text{NH}_4\text{Br}\cdot\text{HgI}_2$. In the system $\text{HgI}_2\text{-NH}_4\text{I}$, 2 compds are formed: $2\text{NH}_4\text{I}\cdot\text{HgI}_2$ and $\text{NH}_4\text{I}\cdot\text{HgI}_2$. The ability to form complexes and their stability increases in the order $\text{I}^- > \text{Br}^- > \text{Cl}^-$. In chloride and bromide systems the ability to form complexes increases sharply with increasing ionic radius of alkali metal, but not for iodine systems.

MIRONOV, K. YE.

(3)

232T16

LIRKOV, K. E.

Chemical Abst..
Vol. 48 No. 9
May 10, 1954
General and Physical Chemistry

(2) Chem. Abst.
Physicochemical analysis of systems of mercury halides
and alkali metal or ammonium halides. I. Melting dia-
grams of the chloride system. A. N. Belyaev and K. E.
Lirkov. J. Gen. Chem. U.S.S.R. 22, 1520-33 (1953)
(Engl. translation). II. Melting diagrams of the bromide
and iodide systems. Ibid. 1535-40. —See C.A. 47, 2585c.
H. L. H.

MIRONOV, K. E.

Beliaev, I. V., Mironov, K. E. - "Physico-chemical analysis of systems containing
of halide of mercury, alkali metals, and ammonium. Part 3. Electric conductivity
of systems of fused mercury halide and ammonium halide. (p. 173.)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1951, Vol. 21, No. 10.

MIRONOV, K. B.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
General and Physical Chemistry

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② ch
Physicochemical analysis of systems of mercuric halides
and alkali metal or ammonium halides. III Electric
conductivity of systems of fused mercuric halide and am-
monium halide. A. N. Belyaev and K. B. Mironov
Gen. Chem. (U.S.S.R.) 22, 1775 81(1952) Engl. transla-
tion).—See C.A. 47, 2026i. H L H

USSR/Chemistry - Inorganic chemistry

Card 1/1 : Feb. 14/7 - 22/27

Authors : Mironov, K. E.

Title : ~~XXXXXXXXXXXXXXXXXXXX~~
The question of the existence of H_2O_4 (Discussion)

Periodical : Zhur. fis. khim. 28/12, 2253-2254, Dec 1954

Abstract : The existence of a higher hydrogen peroxide (H_2O_4) was discussed. After checking the factual material regarding analytical determination of H_2O_2 by the gasometric and titration methods the author came to a conclusion that there are no concrete bases to the contentions of other researchers that H_2O_4 actually exists in aqueous solutions of ordinary H_2O_2 . The problem of the formation of HO_2 radicals during the process of H_2O_2 decomposition and higher hydrogen peroxides in hydrogen-oxygen flames was debated. Eight references ; 5 USSR and 3 USA (1948-1954).

Institution : Academy of Sciences USSR, The N. S. Kurnakov Institute of General and Inorganic chemistry

Submitted : July 17, 1954

MIRONOV, K. Ye.

Phase transition diagrams of the system: $H_2O - NH_3$. Zhur.ob.khim.
25 no.6:1081-1086 Ja '55. (MLA 8:12)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR.
(Ammonium hydroxide) (Phase rule and equilibrium)

Mironov, K.E.

✓ Diagram of phase transformation of the system, water-
~~hydrogen peroxide~~. K. E. Mironov. Izvest. Sibirsk. Fiz.-
 Khim. Akad., Inst. Geokhimi. Akad. Nauk S.S.S.R. 16, 215-23 (1955). — A more precise diagram of
 phase transformation of $H_2O-H_2O_2$ was obtained by thermal
 analysis. The m.p. of $H_2O_2 \cdot 2H_2O$ is -80.3° . Solid solutions
 were absent. Thermooanalytical methods permit detection
 of 0.2% H_2O in H_2O_2 . The crystal lattice of H_2O_2 gives rise
 to the possibility of homeomorphous transformation at -28° .
 Polymorphic transformations for H_2O_2 and $H_2O_2 \cdot 2H_2O$ were
 not found. V. N. Bodnarok

MIRONOV, K YE.

USSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.
Physicochemical Analysis Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61034

Author: Mironov, K. Ye.

Institution: None *Inat. Gen. Inorganic Chem in A. M. Prokhorov Inst. 1956*

Title: Mutual Miscibility of Hydrogen Peroxide and Diethyl Ether

Original

Periodical: Dokl. AN SSSR, 1955, 104, No 1, 91-92

Abstract: The visual-polythermal method was used to study the solubility of H_2O_2 (I) in $C_2H_5OC_2H_5$ (II). The results confirm the limited miscibility of these substances, the layer enriched with I accumulating at the lower part of the vessel. The liquidus of the system consists of 2 branches corresponding to crystallization of II and I and intersecting at the eutectic point (-130° , 21% I). The branch of crystallization of II did not show an inflection point which could correspond to crystallization of the 2 modifications. On the branch of crystallization of I there is a region of

Card 1/2

Mironov, K. Ye.

AUTHORS: Mironov, K. Ye., Pronin, I. M., Tolstov, S. I. 78-2-3743

TITLE: An Investigation of Crystalization in the Systems $H_2O_2-NaClO_4-H_2O$ and $H_2O_2-LiClO_4-H_2O$
(Izucheniye poverkhnosti kristallizatsii sist $H_2O_2-NaClO_4-H_2O$ i $H_2O_2-LiClO_4-H_2O$)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 2, pp. 504-516 (USSR)

ABSTRACT: A complete investigation of the diagrams of $H_2O_2-NaClO_4-H_2O$ and $H_2O_2-LiClO_4-H_2O$ was performed. The concentration of H_2O_2 was obtained by repeated distillation in a vacuum with a purity of 99.8%. The formation of crystals occurs at deep undercooling (60-70°C lower than the equilibrium of the crystallization). In the system $H_2O_2-NaClO_4-H_2O$ the following phases occur: $H_2O_2 \cdot 2H_2O$, ice, $NaClO_4 \cdot H_2O$ and $NaClO_4$. In the system $LiClO_4-H_2O$ the following phases are obtained at 0°C: ice, $LiClO_4 \cdot 3H_2O$, $LiClO_4 \cdot H_2O$ and $LiClO_4$.

Card 1/3

An Investigation of Crystallization in the Systems
 H_2O_2 - $NaClO_4$ - H_2O and H_2O_2 - $LiClO_4$ - H_2O

79-2-37/43

In the liquidus of the binary system H_2O - $LiClO_4$, $LiClO_4$ and H_2O_2 develop. In the ternary system H_2O_2 - $LiClO_4$ - H_2O the following phases are produced: ice, H_2O_2 , $H_2O_2 \cdot 2H_2O$, $LiClO_4$, $LiClO_4 \cdot H_2O$ and $LiClO_4 \cdot 3H_2O$.

From these results follows that no peroxyhydrates of sodium- and lithium perchlorate are produced in the binary systems H_2O_2 - $NaClO_4$ and H_2O_2 - $LiClO_4$.

Under the influence of aqueous solutions of H_2O_2 upon the perchlorates of sodium and lithium the authors obtained hydrate forms of perchlorates. $LiClO_4$ hydrated especially intensively. There are 8 figures, 1 tables, and 9 references, 7 of which are Slavic.

ASSOCIATION: Institute for General and Anorganic Chemistry imeni N. S. Kurnakov AS USSR (Institut obshchey i neorganicheskoy khimii imeni N. S. Kurnakova Akademii nauk SSSR)
 Laboratory for Peroxy-Compounds (Laboratoriya perekisnykh soyedineniy)

SUBMITTED: February 19, 1957
 Card 2/3

An Investigation of Crystallization . . . the Systems
 $\text{H}_2\text{O}_2\text{-NaClO}_4\text{-H}_2\text{O}$ and $\text{H}_2\text{O}_2\text{-LiClO}_4\text{-H}_2\text{O}$

78-2-37 43

AVAILABLE: Library of Congress

Card 3/3

AUTHORS: Mironov, K. Ye., Danilova, M. S. SOV. 78-1-11-31 36

TITLE: Concerning the Existence of Higher Hydrogen Peroxides in Commercial H_2O_2 Products (Prisutstvuyet li vysshaya peroksis' vodoroda v prodazhnoy H_2O_2)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1978, Vol. 3, Nr 11, pp 2807-2809 (USSR)

ABSTRACT: Investigations were carried out to study the possibilities of the existence of higher hydrogen peroxide compounds in various hydrogen peroxide preparations. The following materials were used as initial materials: 2.16% H_2O_2 ; technical perhydro- (28.1% H_2O); and 94.4% H_2O_2 . $KMnO_4$ and $Na_2S_2O_3$ were used in the titrations to determine the H_2O_2 content. It was found that in the marketable hydrogen peroxide preparations no higher peroxides exist. The higher consumption of the potassium permanganate and sodium thiosulfate were produced by hydrogen dissolved in distilled water. There are 3 tables and 13 references, 11 of which are Soviet.

Card 1/2

Concerning the Existence of Higher Hydrogen Peroxides: Commercial H_2O_2
Products

SOV 78 1-1-31/36
ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakov
Akademii nauk SSSR (Institute of General and Inorganic Chemistry
imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: August 3, 1956

Card 2/2

CHERVENKO, A.K.; MIRODOV, K.Ye.

Combined learned councils of the Siberian division of the
Academy of Sciences of the U.S.S.R. Izv. Sib. otd. AN SSSR
no. 7:126-127 '57. (Siberia--Research) (SIA 1:12)

5(2)

AUTHOR:

Mironov, K. Ye.

TITLE:

The Interaction of Hydrogen Peroxide With Ammonia
(O vzaimodeystvii perokisi vodoroda s ammiakom)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol. 4, Nr. 1, pp. 100-107
(USSR)

ABSTRACT:

A complete investigation of the phase changes in the system $H_2O_2 - NH_3$ was carried out to prove the existence of the compounds $NH_3 \cdot H_2O_2$ and $2NH_3 \cdot H_2O_2$. The diagram of the phase changes was plotted. The system has four phases: hydrogen peroxide, the compound $NH_3 \cdot H_2O_2$ with the melting point at $+24^\circ$, the compound $2NH_3 \cdot H_2O_2$ with an incongruent melting point at -93.5° , and ammonia. The crystallization zone of the phase $NH_3 \cdot H_2O_2$ occupies the largest part of the diagram. The diagrams of the liquidus lines in dependence of a 10% various strengths on ammonia concentration were examined. The data on the liquidus lines are in accordance with those given by C. Maass and W. Hatcher. The stability of the com-

Card 1/2

5(2)

AUTHORS:

Mironov, K. Ye., Dzyatkevich, B. S.

SOV, 78-4-7-18, 44

TITLE:

On the Effect of Glacial Acetic Acid on Some Carbonates of the Alkali- and Alkaline-earth Metals (O deystvii ledyanoy ukusnoy kisloty na nekotorye karbonaty shchelochnykh i shchelochnozemel'nykh metallov)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7, PP 1582-1586 (USSR)

ABSTRACT:

The decomposition of the carbonates of Li, Na, K, Ca, Sr, and Ba was carried out in a somewhat modified apparatus described by Seyb and Kleinberg (Ref 10) (Fig 1). During the reaction the separated CO_2 and the coefficient

$\frac{v(\text{CO}_2)_{\text{exper}}}{v(\text{CO}_2)_{\text{theor}}}$ were determined. The data are given in Table 1 and figure 2. In no experiment was a complete separation of the carbon dioxide attained. The maximum values of separation for alkali carbonates (30-95%) are attained at a ratio between glacial acetic acid and carbonate that is just necessary to decompose the carbonate and to dissolve the acetate. With an increase

Card 1/1

On the Effect of Glacial Acetic Acid on Some Carbonates of the Alkali and Alkaline-earth Metals

SOV. MIN. 7413/41

increased addition of glacial acetic acid CH_3COOH their solubility increases. This is explained by the formation of bicarbonates which are soluble in glacial acetic acid as an intermediate product of acetylation. Corresponding to the increasing solubility of the carbonates in the order $\text{LiHCO}_3 < \text{NaHCO}_3 < \text{KHCO}_3$, the coefficient of the separation of CO_2 decreases. The alkaline-earth carbonates at the same conditions yield only 10% of the theoretical quantity of carbon dioxide. As the alkaline-earth bicarbonates are less stable than the alkali bicarbonates, the formation of acetylbicarbonates soluble in glacial acetic acid is assumed to be $\text{Me} \begin{matrix} \text{CCOCH}_3 \\ \text{OCO(OH)} \end{matrix}$.

There are 3 figures, 1 table, and 12 references, 4 of which are Soviet.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR, Laboratoriya pereklonykh soyuznykh (Institute for General and Inorganic Chemistry named N. S. Kurnakov of the Academy of Sciences of the USSR, Laboratory for Perovskite).

Card 2/3

MIRONOV, K. Ye.

United learned council on the chemical sciences. Izv. Sib. otd. AN
SSSR no. 3:131-132 '60. (MIRA 13:10)
(Siberia--Chemistry)

MIRONOV, K.Ye.

Ternary compounds in a system $\text{NH}_3\text{--H}_2\text{O}_2\text{--H}_2\text{O}$. K.E. Izv. Sib. otd.
AN SSSR no. 8:143-146 '60. (MIRA 13:9)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN
SSSR.

(Ammonia) (Hydrogen peroxide)

S/200/61/000/004/005/005
D228/D30:

AUTHOR Mironov, K Ye

TITLE At the joint scientific council for chemical sciences

PERIODICAL Akademiya nauk SSSR Sibirskoye otdeleniye Izvestiya,
no. 4. 1961 119-120

TEXT. The Joint Scientific Council SO AS USSR at its session on January 9, 1961 reviewed the work of chemical institutes for 1960, and noted the outstanding results: The Novosibirskiy institut organicheskoy khimii (Novosibirsk Institute of Organic Chemistry) ascertained that de-alkylation of anthraquinone dyestuffs takes place at high temperatures which can be of importance for dyeing synthetic fibers at high temperatures. Physiologically active substances were separated from Baikal Scutellaria (Helmet Flower) and a study of them was started jointly with the Institut eksperimental'noy biologii i meditsiny (Institute of Experimental Biology and Medicine). The method of isomerization of sulphones of the benzene series was developed e.g. methyl tolyl-sulphones; The Irkutskiy institut organicheskoy khimii (Irkutsk Institute of Organic

Card 1/5

At the joint scientific council . .

S/200/61/000/004/005/005
D228/D305

Chemistry) worked out a new method of preparing secondary and tertiary acetylenic alcohols with an 80% yield. Copolymers of acrolein with vinyl compounds were found to give hydroxylamine derivatives, soluble in inert solvents; The Institut Kataliza (Institute of Catalysis) obtained data on the use of aluminum oxide as a drying catalyst on solvents with the elimination of oxygen, sulphur and unsaturated compounds, with a view to obtaining polymeric substances. Jointly with Institut matematiki (Institute of Mathematics) the optimal working conditions of an apparatus for producing sulphuric acid were found using an electronic computer; The Institut khimicheskoy kinetiki i gorennya (Institute of Chemical Kinetics and Combustion) studied the phenomena of the energy transfer of electronic excitation, preceding primary disruption of a chemical bond. This permitted evaluation of the transfer of energy between an aromatic radical and the acceptor of excitation. Reactions of the recombination of radicals were studied in the solid phase in a wide range of temperature e.g. fluoro-alkyl and peroxy radicals in teflon. The Institut Khimii (Institute of Chemistry) Irkutsk worked out a method of preparing polyethinylpolyarens - a new type of poly-

Card 2/5

At the joint scientific council...

S/200/61/000/004/005/005
D228/D305

mer; The Institut neorganicheskoy khimii (Institute of Inorganic Chemistry) using a new approach to structural problems, ascertained a new class of compounds with multiple bonds, stable at high temperatures. The Khimiko-metallurgicheskii institut (Institute of Chemical Metallurgy) worked out the quantitative separation of indium from an industrial tin solution, using alkylphosphoric acids. It was found that sludge from factory waste products with gypsum, pickled kulunda clays and kuzbass rocks could be used for producing binding material and wall partitions; The Dal'nevostochnyy filial (Far Eastern Branch) developed a new method of separating boron from minerals. Samples of different frits were prepared for use as boron microfertilizers. The utilization of natural materials from coastal regions as sorbents for the use of the petroleum and aliphatic oils industry was evaluated; The Sakhalinskiy kompleksnyy NII (Sakhalin Complex NII) discovered that Sakhalin petroleum could provide raw materials for the chemical industry. Several institutes of the Department offered new data for coking low burning coal which is important for the development of Siberian metallurgy; A lecture by Candidate of Chemical Sciences V. P. Mamayev, "The

Card 3/5

At the joint scientific council...

S/200/61/000/004/005/005
D228/D305

Preparation of β -amino-acids by the Method of V. M. Rodionov and other Analogous Reactions (IOKh CO AN SSSR) attracted great interest. It dealt with problems of synthesizing physiologically active compounds analogous to tryptophane. Corresponding members AS USSR N. N. Vorozhtsov, M. F. Shostalovskiy and A. V. Nikolayev participated in discussions on the lecture; Also of great interest was a report on the investigation of polymers by electronic paramagnetic resonance. The experiments were conducted by Yu. D. Tsvetkov and Yu. N. Molin from the Institute of Chemical Kinetics and Combustion; Corresponding member AN SSSR V. V. Voyevodskiy and Doctor of Chemical Sciences N. P. Keyer participated in discussions on this report; S. P. Gabuda of the Krasnoyarskiy institut fiziki (Krasnoyarsk Institute of Physics) obtained data for evaluating the crystalline structure of complex compounds: potassium ferrocyanide and quanine-amino-sulphate hexahydrate, using nuclear magnetic resonance; L. K. Yakovlev successfully defended his thesis on the study of interaction between $\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2$ at the sintering temperature.

Card 4/5

At the joint scientific council...

S/200/61/000/004/005/005
D228/D305

which could have practical value in the rational use of kyanite and also of bauxite sintered with soda in order to obtain alumina. Candidate of Technical Sciences, Ye I Khazanov of the Vostochno-Sibirskiy filial (East-Siberian Branch) submitted a report on the complex processing of alkali aluminosilicate and other aluminum oxide rocks using mixed granular batches and sintering them in a furnace. The work shows the practical side of utilizing the local resources of Eastern Siberia as a source of raw material.

Card 5/5

MIRONOV, R. Ye.; DZYATKEVICH, S. S. • ROGOZHENKOVA, T. I.

a reaction of hydrogen peroxide formation in the medium of liquid ammonia. Izv. Sib. otd. AN SSSR no.11:130-132 '61. MIP-15-1

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk i Institut i neorganicheskoy khimii imeni N.S. Kurnakova, Moskva.

(hydrogen peroxide)

MIRONOV, K.Ye.

Siberian readings on chemistry. Vest. AN SSSR 31 no.8:112-
113 Ag '61. (MIRA 14:8)

(Chemistry, Physical and theoretical--Congresses)

MIRONOV, K.Ya.

Second Conference on the Chemistry of Peroxide Compounds. Zhur.-
neorg.khim. 7 no.4:951-953 Ap '62. (MIRA 15:4)
(Peroxides—Congresses)

MIRONOV, K.Ye.; DERYABINA, L.D.

Freezing temperatures of aqueous solutions of ethylene glycols.
Zhur.prikl.khim. 35 no.6:1333-1342 Je '62. (MIRA 15:7)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.
(Ethylene glycol) (Gryoscopy)

S/020/62/147/002/014/021
B106/B101

AUTHORS: Nikolayev, A. V., Corresponding Member AS USSR, Mironov,
K. Ye., Karaseva, E. V.,

TITLE: The reaction of tri-n-butyl phosphate with nitric acid and
water

PERIODICAL: Akademiya nauk SSSR. Doklady. v.147, no. 2, 1962, 380-383

TEXT: Specific gravity and viscosity of the liquid phases of the systems tri-n-butyl phosphate (TBP) - HNO_3 , TBP - H_2O , and TBP - HNO_3 - H_2O were studied as a function of the composition so as to be able to predict the reaction of the TBP with HNO_3 and water. 1) TBP - HNO_3 system: The curve of the specific weights shows no particular points. The curve of the viscosities at 0°C reaches a maximum for a content of 65 mole-% HNO_3 , but at 25°C this is hardly perceptible. The system is irrational; when the temperature is further reduced the maximum of the viscosity curve is shifted into correspondence with a system containing 50% HNO_3 . The

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The reaction of tri-n-butyl phosphate ... S/020/62/147/002/014/021
B106/B101

occurrence of the compound $\text{TBP} \cdot \text{HNO}_3$ observed by several authors (T. J. Gallopy, J. F. Blum, J. Phys. Chem., 64, 1324 (1960); Z. A. Sheka, Ye. Ye. Kriss, ZhNKh, 4, 2506 (1959); M. F. Pusnlenkov, Ye. V. Komarov, M. Ye. Shurenkova, Zhurn. strukturn. khimii, 2, 682 (1961)) may be explained by the fact that isolated particles of the molecular compound $\text{TBP} \cdot \text{HNO}_3$, which forms no hydrogen bonds with the solvent, can exist in an inert solvent.

2) $\text{TBP} - \text{H}_2\text{O}$ system: The curve of the specific weights exhibits no particular points. At 24.4°C 50.8 mole-% H_2O are soluble in TBP. Since ice crystallizes in the region of the demixing, the compound $\text{TBP} \cdot \text{H}_2\text{O}$ cannot melt congruently. If this compound exists at all, its incongruent melting point must be below 0°C ; hence $\text{TBP} \cdot \text{H}_2\text{O}$ is absent from the $\text{TBP} - \text{H}_2\text{O}$ system at $+25^\circ\text{C}$. The viscosity of the system increases with increasing H_2O content. Analysis of the IR spectra did not confirm the existence of a definite compound in the system. 3) $\text{TBP} - \text{HNO}_3 - \text{H}_2\text{O}$ system (Fig. 3): The highest viscosity in the ternary system is reached

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The reaction of tri-n-butyl phosphate ... S/020/62/147/002/014/021
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in solutions with contents of about 23% HNO_3 and 35% H_2O . The data by D. O. Tuck (Trans. Farad. Soc., 57, 1299 (1961)) indicate that the acid used contained 3% by weight H_2O . There are 3 figures. The most important English-language reference is: E. Hesford, H. A. C., Mc Kay, J. Inorg. and Nucl. Chem., 13, 156 (1960).

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry of the Siberian Department of the Academy of Sciences USSR)

SUBMITTED: August 1, 1962

Fig. 3. Diagram of the mutual solubility and projection of the viscosity isotherms for the homogeneous liquid phase of the ternary system TBP- H_2O - HNO_3 at +25°C. Legend: -TBP; K-critical point of solubility.

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ACCESSION NR: AT4028332

S/0000/63/000/000/0080/0084

AUTHOR: Mironov, K. Ye.

TITLE: On the existence of ternary compounds in the $\text{NH}_3\text{--H}_2\text{O}_2\text{--H}_2\text{O}$ system

SOURCE: Soveshchaniye po khimii perekisnykh soyedineniy. "Second, Moscow, 1961. Khimiya perekisnykh soyedineniy (chemistry of peroxide compounds); Doklady* soveshchaniy. Moscow, Izd-vo AN SSSR, 1963, 80-84

TOPIC TAGS: hydrogen peroxide, ammonia, water, ternary compound, stable compound

ABSTRACT: The author states that P. A. Giguere and A. Chin (Canad. J. Res. vol. 37, p. 2064 (1959)) were erroneous in their assumption and that ternary compounds between ammonia, hydrogen peroxide and water are not formed. The author presents his arguments in a triangular graph and in phase conversion diagrams of the $\text{NH}_3\text{--H}_2\text{O}_2\text{--H}_2\text{O}$ system. On the basis of these diagrams, the reasons for the erroneous conclusions on the formation of ternary compounds between ammonia, hydrogen peroxide and water are shown. Orig. art. has: 5 figures.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR (Institute of Inorganic Chemistry of the Siberian Branch, AN SSSR)

Card 1/2

SUBMITTED: 13 Dec 63

MIRONOV, K.Ye.

Specific gravity and viscosity curves of saturated solutions in ternary systems. Zhur.neorg.khim. 8 no.3:758-762 Apr '63. (MIRA 16:4)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.
(Systems (Chemistry)) (Solution (Chemistry))

ACCESSION NR: AP4015147

S/0289/63/000/003/0003/0007

AUTHORS: Mironov, K. Ye.; Sinitsy*na, Ye. D.

TITLE: Solubility diagram of the ternary system Nd(NO₃)₃ -HNO₃ -H₂O at plus 25C

SOURCE: AN SSSR. Sib. otd. Izv., no. 11. Ser. khim. nauk, no. 3, 1963, 3-7

TOPIC TAGS: neodymium nitrate, solubility, nitric acid solubility, solubility diagram, neodymium nitrate monohydrate, neodymium nitrate tetrahydrate, neodymium nitrate hexahydrate, neodymium nitrate complex, neodymium nitrate nitric acid

ABSTRACT: The complete diagram of the ternary system Nd(NO₃)₃ -HNO₃ -H₂O was obtained (fig. and table). HNO₃ has a dehydrating action on neodymium nitrate hydrates. The HNO₃ concentrations which are in equilibrium with the mono-, tetra- and hexahydrate of neodymium nitrate and with neodymium nitrate or its complex with HNO₃

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ACCESSION NR: AP4015147

--Nd(NO₃)₃·nHNO₃ were determined. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Institut neorganicheskoy khimii, Sibirskogo otdeleniya AN SSSR Novosibirsk (Institute of inorganic chemistry, Sibirsk Division AN SSSR)

SUBMITTED: 01Nov62

DATE ACQ: 13Mar64

ENCL: 04

SUB CODE: CH

NO REF SOV: 006

OTHER: 007

Card 2/52

MIRONOV, K.Ye.

Solubility of sodium peroxide in water. *Dokl. Akad. Nauk SSSR*, 1968, no. 2: 551-552. 1 p. MIA 18:11

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya
AN SSSR. Submitted June 10, 1968.

ENT(m)/EMP(t)/ETI IJ(c) JD/JG

ACC NR: AP6023924

SOURCE CODE: UR/0363/66/002/007/1315/1316

AUTHOR: Mironov, K. Ye.; Vasil'yeva, I. G.; Sinitsyna, Ye. D.

ORG: Institute of Inorganic Chemistry, SO, Academy of Sciences, SSSR, Novosibirsk
(Institut neorganicheskoy khimii SO Akademii nauk SSSR)

TITLE: Preparation and analysis of praseodymium monophosphide

SOURCE: AN SSSR. Izv. Neorg materialy, v. 2, no. 7, 1966, 1315-1316

TOPIC TAGS: praseodymium compound, phosphide

ABSTRACT: Praseodymium monophosphide was synthesized by reacting phosphine with $\text{PrO}_{1.83}$. It was found that in the formation of the product of stoichiometric composition PrP , a major role is played by the ratio of the oxide to phosphine. At a 3- to 4-fold excess of phosphine, x-ray diffraction and chemical analysis showed the product to contain 80-85 wt. % Pr and 0.5-3 wt. % P. PrP begins to form only when phosphine is present in a 10-15-fold excess; a homogeneous phosphidization product is obtained at a 100-200-fold excess of phosphine. The content of Pr and P in the product as a function of the temperature and duration of the experiment was determined. Praseodymium monophosphide of stoichiometric composition is obtained in highest yield at 1300°C when the reaction lasts 1 hr 15 min to 1 hr 20 min. Chemical analysis of this product showed it to contain 18.1 wt. % P and 81.7 wt. % Pr. X-ray diffraction confirmed the

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UDC: 546.656*181.1

ACC NR: AP6023924

formation of praseodymium monophosphide ($a = 5.87 \text{ \AA}$) and the absence of other phases therein. Orig. art. has: 2 figures and 1 table.

SUB CODE: 07/ SUBM DATE: 25Oct65/ ORIG REF: 005/ OTH REF: 006

Card 2/2 af

L 07366-62 EWT(1)/EWT(m)/EWP(t)/ETI LJP(c) JD/WH/JG/AT
ACC NR: AP6033822 SOURCE CODE: UR/0289/66/000/002/0158/0158

AUTHOR: Mironov, K. Ye.

ORG: none

TITLE: Chemistry of semiconductors

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1966, 158

TOPIC TAGS: chemical conference, semiconducting material, single crystal growth, semiconducting thin film, microelectronic thin film

ABSTRACT: A symposium on the synthesis and growing of semiconductor crystals and thin films was held 11-16 October 1965 in Novosibirsk under the sponsorship of the Institute of Inorganic Chemistry, Academy of Sciences SSSR, Siberian Department. A total of 72 papers were presented to an audience of scientists and engineers of research institutes, universities, design bureaus, and industrial enterprises from 29 Soviet cities. A. V. Nikolayev, Corresponding Member of the Academy of Sciences SSSR, noted the necessity of development of the theory of growth. A. V. Rzhakov, Corresponding Member of the Academy of Sciences SSSR, reported on specifications for materials for modern electronics. A. Ya. Nashed'skiy discussed the modern techniques of synthesis and

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L 02366-62

ACC NR: AP6033822

growing of single crystals of metal phosphides, nitrides, chalcogenides, and other readily decomposable compound semiconductors. V. N. Maslov discussed growing of semiconductor crystals; A. A. Pletyushkin, growing of semiconductor single crystals from the vapor phase; L. N. Aleksandrov, kinetics of formation of the solid phase in binary systems; and F. A. Kuznetsov, the growth of thin films by transport reactions in connection with microminiaturization of radioelectronic devices. Organization of an all-union conference on the synthesis and growth of semiconductor crystals was proposed. A collection of the proceedings of the Symposium will be published.

SUB CODE: 07, 20/ SUBM DATE: none/ ATD PRESS/ 5101

Card 2/2 afa

Simonovich
SIMONOVICH, N.M.; MIRONOV, L.

Preparation of a laboratory microscope for luminescent microscopy. Mikrobiologiya, Moskva 21 no. 6:718-720 Nov-Dec 1952.
(CJML 23:3)

1. Gor'kiy Medical Institute imeni S. M. Kirov.

MIRONOV, I.A.

Use of horizontal closed cuvettes for light filters in
fluorescent light microscope. Mikrobiologiya 23 no.1:76-78
Ja-P '54. (MLRA 7:2)

1. Gor'kovskiy meditsinskiy institut. (Microscope and microscopy)

Mironov, L. A.
USSR Safety Engineering. Sanitary Engineering. Sanitation. L

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10727

Author : Mironov, L. A.

Inst : Not given

Title : A Simple Method for the Luminescent Investigation of Industrial Dust Particles

Orig Pub: Materialy po vopr. gigieny truda i kliniki prof. bolezney
[Materials on Labor Sanitation and the Treatment of Occupational Diseases], Sb. 5, Gor'kiy, 1956, 196-204

Abstract: An apparatus has been developed consisting of an incandescent UV lamp or crossed light filters and a microscope; the apparatus can be used in the determination of the qualitative composition of industrial dust. Dust which is not naturally fluorescent is dyed with fluorescent dyes (auramine O, rhodamine Zh, rhodamine 66); various types of dust emit light characteristic of their color. The attempt to combine quantitative and qualitative measurements on the dust particles by means of lumines-

Card 1/2

USSR/Safety Engineering. Sanitary Engineering. Sanitation. L

ABs Jour: Ref Zhur-Khimiya, No 3, 1957, 10727

Abstract: cence has so far failed to yield the desired results
because of the erosion of the dust particles during
dyeing.

Card 2/2

KANEVSKAYA, S.M., MIRONOV, L.A. (Gor'kiy)

Pneumatic device for use when working in extreme heat.

Gip. truda i prof. zab. 2 no.6:64-60 H-D '58 (MIRA 11:12)

1. Nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy.
(PROTECTIVE CLOTHING)

SOV/32-44-10-42/70

AUTHORS: Danilov, Y. S., Kozlov, N. V., Mironov, L. V.

TITLE: An Apparatus for Compression Tests of Plane Samples (Prilozheniya ispytaniya ploskikh obraztsov na szhatiye)

PERIODICAL: Zavodskaya Laboratoriya, 1998, Vol 24, Nr 10, pp 1271-1273 (USSR)

ABSTRACT: An apparatus was constructed (the diagram of which is given, which makes it possible to determine in a compression the elasticity modulus as well as the limit of proportionality and of the flowing quality of plane samples of a thickness of 1-3 mm at room temperature and higher temperatures. The main parts of this apparatus are the mounting device for the sample and the lever tensiometer with the indicator of the "Krasnyy Instrumental'-shchik" factory. A two-section furnace with a maximum heating temperature of 1000°C was used in these investigations. The temperature is exactly controlled by an electronic potentiometer PND-11 with an accuracy of $\pm 3^\circ$. The recording of the temperature is carried out by a potentiometer PPN. Samples of an aluminum alloy Al-6T and of YdTT were investigated. The mechanical properties of these materials were determined in compression for purposes of comparison. The investigation was

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An Apparatus for Compression Tests of Plane Samples

SOV, 32-24-10-42/70

vealed that under compression the limits of plasticity and
flowing quality of the D 16T-alloy are somewhat higher than
the limits of plasticity, whereas these values are identical
with steel 15Mn. (See figure).

Card 2/2

Subject : USSR/Aeronautics - tactics AID P - 5486
Card 1/1 Pub. 135 - 3/26
Author : Mironov, L. K., Eng.-Lt.Col., cand. of mil. sci.
Title : Attack against ground targets with rockets
Periodical : Vest. vozd. flota, 3, 11-13, Mr 1957
Abstract : The author deals with the problem of attacking the linear targets like motor vehicle columns and railroad trains and arrives to the conclusion that the most effective results can be obtained when such targets are attacked at a 90° angle in relation to their longitudinal axis. One graph, 1 diagram. The article merits attention.
Institution : None
Submitted : No date

AUTHOR: Mironov, L. K., Engr Lt Col

86-58-6-28/34

TITLE: No Simplifications in Air Firing (Vozdushnuyu strel'bu vypolnyat' bez uproshcheniy)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 6, p 79 (USSR)

ABSTRACT: In this short article, the author draws attention to the requirement that exercises in aerial gunnery should be carried out without any simplifications.

AVAILABLE: Library of Congress

Card 1/1

MIRONOV, I. I.

"Quality Characteristic of Worsted Fabrics in Respect to Their Structure."
Sub 16 Mar 51, Moscow Inst of National Economy Item: G. I. Flekhanov

Dissertations presented for defense and engineering degrees in
Moscow during 1951.

X: Sum. No. 420, 9 May 55