

BURAKOVSKIY, V. I.; ROMASHOV, F. N.

Indications for surgery and the choice of method in defects of the
interatrial septum. Grud. khir. 4 no.1:3-10 Ja-F '62.
(MIRA 15:2)

1. Iz otdeleniya zabolevaniy serdtsa i sosudov u detey (zav.
V. I. Burakovskiy) Instituta serdechno-sosudistoy khirurgii
AMN SSSR (dir. - prof. S. A. Klesnikov, nauchnyy rukovoditel' -
akad. A. N. Bakulev) Adres avtorov: Moskva, Leninskiy prosp., d. 8
Institut serdechno-sosudistoy khirurgii AMN SSSR.

(HEART--ABNORMALITIES AND DEFORMITIES)

MURAV'YEV, M.V.; ROMASHOV, F.N.; SYUY LE-TYAN' [Hsü Lé-t'ien]

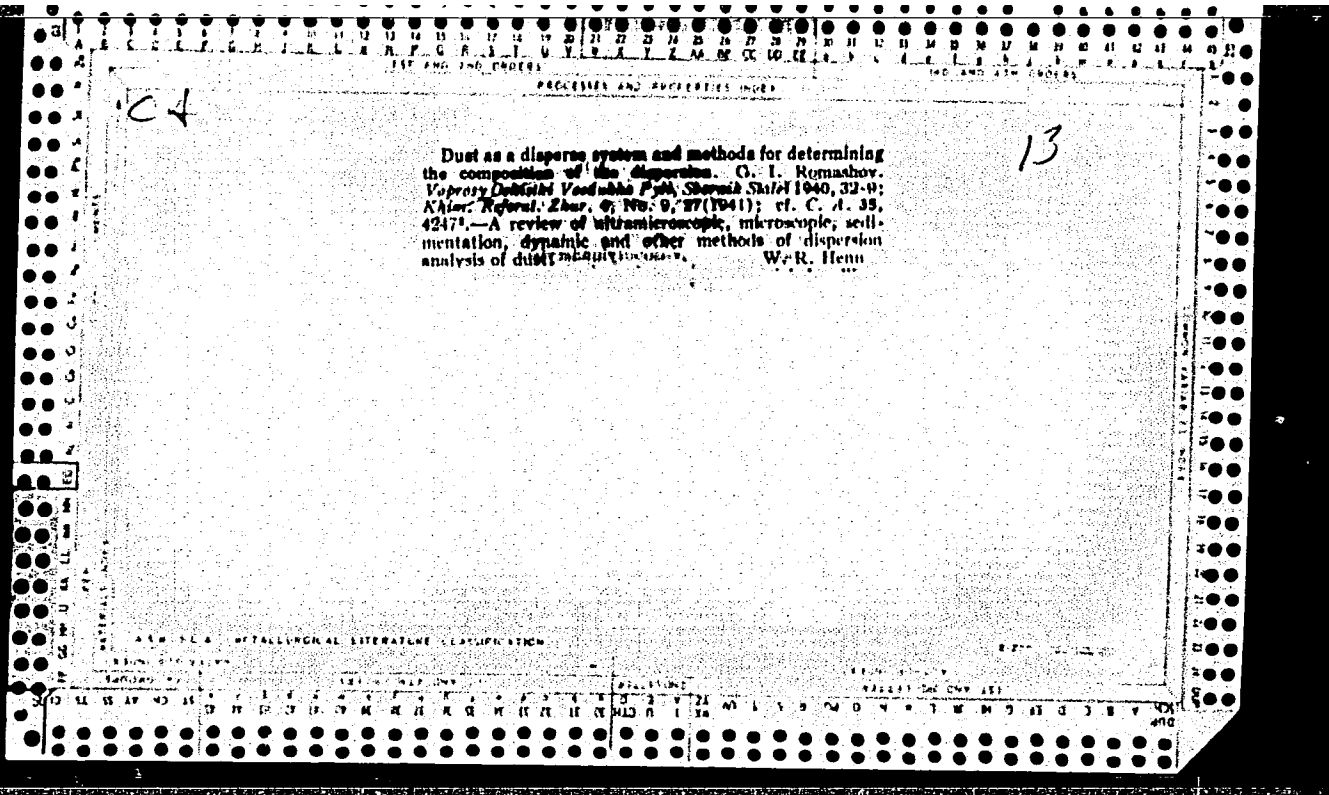
Surgical treatment of patent ductus arteriosus in adults. Vest.
khir. 89 no.7:16-22 J1 '62. (MIRA 15:8)

1. Iz Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov,
nauchn. rukovoditel' - akad. A.N. Bakulev) AMN SSSR.
(DUCTUS ARTERIOSUS—SURGERY)

BURAKOVSKIY, V.I.; BUKHARIN, V.A.; ROMASHOV, F.N.; KHUAN SYU-CHZHUN
[Huang Hsiu-chung]

Classification, clinical aspects, diagnosis and surgical treatment
of a totally defective atrioventricular canal. Vest. AMN SSSR
18 no.9:32-40 '63. (MIRA 17:9)

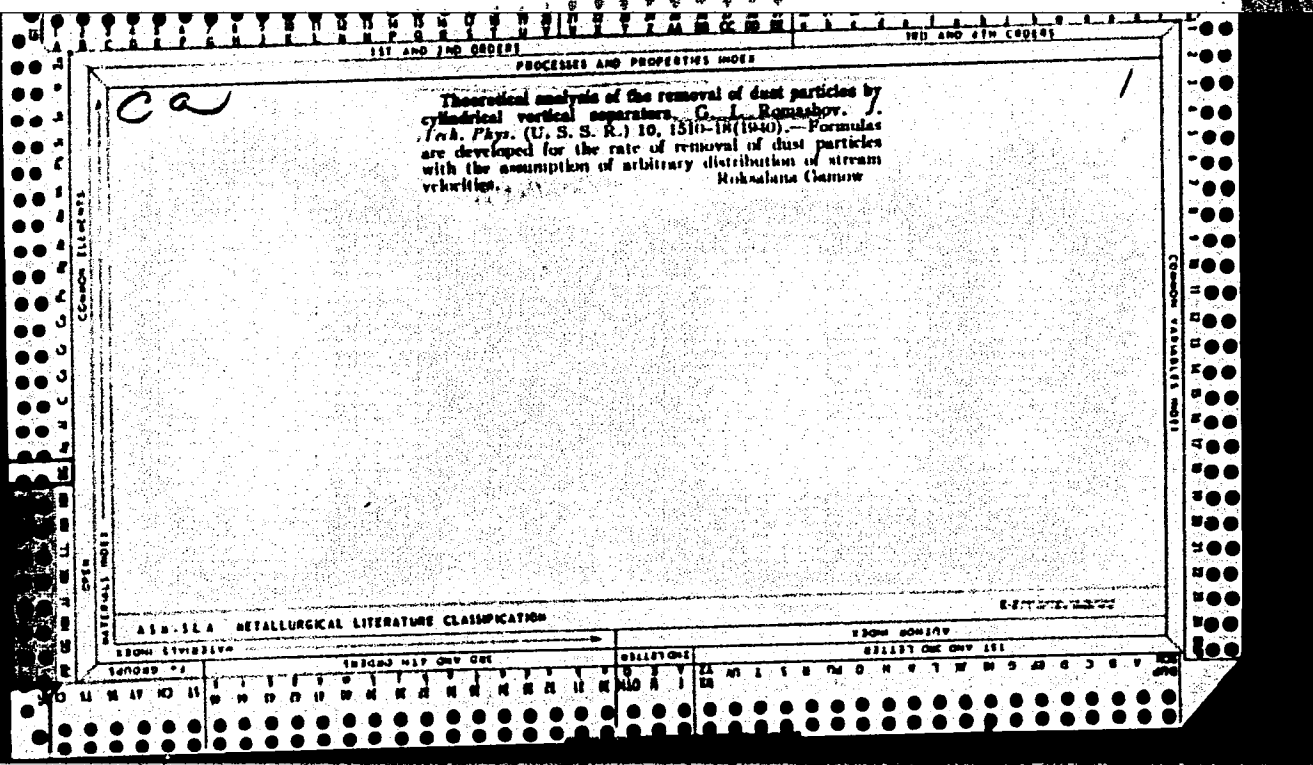
1. Institut serdechno-sosudistoy khirurgii AMN SSSR.



A.C.S.

Equipment & apparatus

Analysis of dust by the Rebind method. G. I. ROMANOV AND M. V. GOLUBEVA. *Voprosy Oshchiznykh i Pyli, Sbornik Statei, 1960*, pp. 40-44; *Khim. Referat. Zhur.*, 4 [D] 27 (1941).—Comparative results of the dispersion analysis of dust by the sedimentation method of Rebind and by the air separation method are described. The two methods give widely differing results. M.Ho.



ROMASHOV, M.

We work and live in a new way. Sov.profsoiuzy 7 no.4:19-21
Fe '59. (MIRA 12:5)

1. Rukovoditel' brigady kommunisticheskogo truda Metallicheskogo
zavoda, Leningrad.
(Leningrad--Metalworkers)

ROMASHOV, M.V., kand.sel'skokhoz.nauk

Organization and management of afforestation with fast-growing species
in river floodlands of the Ukrainian steppe. Visnyk sil'hosp,
nauky 4 no.8:58-65 Ag '61. (MIRA 14:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva
i agrolesomelioratsii.

(Ukraine--Afforestation)

ROMASHOV, N. (Khar'kov)

Midget television antennas. Tekh.mol. 30 no.1:38 '62. (MIRA 15:2)
(Television—Antennas)

ROMASHOV, V.M.

Precise processing of indication diagrams for determining average indicated pressure. Avt.prom. 31 no.7:14-16 JI '65.

(MIRA 18:8)

1. Voronezhskiy lesotekhnicheskiy Institut.

ACC NR: AP6030023 (A) SOURCE CODE: UR/0020/66/169/005/1104/1106

AUTHOR: Portnoy, K. I.; Chubarov, V. M.; Romashov, V. M.; Levinskaya, M. Kh.; Salibekov, S. Ye.

ORG: none

TITLE: Phase diagram of the nickel-boron system

SOURCE: AN SSSR. Doklady, v. 169, no. 5, 1966, 1104-1106

TOPIC TAGS: nickel boron system, nickel boron alloy, alloy phase diagram, alloy phase composition, alloy structure, intermetallic compound

ABSTRACT: A phase diagram of the Ni-B system (Fig. 1) has been plotted on the basis of data obtained by physicochemical analyses of a series of Ni-B alloys, containing 0 to 100% B, compacted and sintered from the powders of 99.7% carbonyl nickel and 99.4% boron. In alloys with up to 50 at% B, the existence of Ni_3B (orthorhombic), Ni_2B (tetragonal), Ni_4B_3 (monoclinic) and NiB (orthorhombic) compounds was confirmed. In alloys with 50-70 at% B, a new phase containing approximately 92 at% B with

Card 1/2

UDC: 546.3-19'74'27

L 43829-66

ACC NR: AP6030023

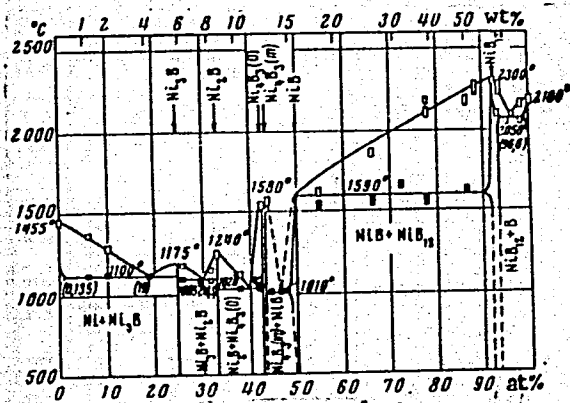


Fig. 1. Phase diagram of the Ni-B system.

a cubic crystal lattice ($a = 7.377 \pm 0.005 \text{ \AA}$) and NiB₁₂ stoichiometric composition was found. The microhardness of this phase was found to be 2900 kg/mm²; it has a melting point of 2320°C. Orig. art. has: 23 figures and 1 table. [WW]

SUB CODE: 11/ SUBM DATE: 08Dec65/ ORIG REF: 002/ OTH REF: 008
 ATD PRESS: 5072

Card 2/2 fv

L 27765-65 EPF(n)-2/EPR/EPA(s)-2/EWT(m)/EPA(bb)-2/EWP(b)/T/EWP(e)/
EWP(t) P8-4/Pt-10/Pu-4 IJP(c) WW/JG/JD

ACCESSION NR: AT5003400

S/2776/64/000/038/0051/0055

AUTHOR: Chernyak, G. S.; Smirnova, A. V.; Kostogonov, V. G.; Kokorin, G. A.;
Romashov, V. M.; Grishina, N. S.; Dubrovina, A. N.; Pegova, T. G.

TITLE: Effect of titanium, aluminum, carbon and boron on the structure and phase
composition of Ni base alloys

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metal-
lurgii. Sbornik trudov, no. 38, 1964. Novyye metody ispytaniy metallov; metal-
lograficheskiye issledovaniya i mekhanicheskiye ispythaniya metallov (New methods
in the analyses of metals; metallographic investigations and mechanical analyses
of metals), 51-65

TOPIC TAGS: eutectic, carbide, alloy structure, alloy phase composition, nickel
base alloy, titanium alloy, aluminum alloy, boron alloy, carbon content

ABSTRACT: Ni-alloy specimens with different contents of C, Ti, Al and B were in-
vestigated with respect to structure and phase composition. The excess phases
were studied by metallographic methods including film etching, microdiffraction,
electron microscopy and X-rays; as well as by phase analysis of the precipitated
residues. An increased addition of Al up to 8% in specimens with 1.5% Ti, 0.02%

Card 1/2

L-27765-65
 6
 ACCESSION NR: AT5003400

C and 0.02% B led to an increase in the parameters of γ - and γ' -phase lattices and to an intensive growth of γ' -phase particles which were distributed on certain crystallographic planes after hardening and prolonged aging. At the same time, a second solid solution based on an NiAl compound had formed. The same pattern was observed in cast, and hardened and aged specimens containing 5% Ti. An addition of 0.02% C to specimens with 3% Ti brought about the formation of considerable amounts of differently shaped primary carbides such as $Me_{23}C_6$, Me_6C and cubic TiC. In specimens without Ti, coagulation of the γ' -phase particles was inhibited and a carbide eutectic phase formed. With up to 0.4% B, 0.20% C, 1.5% Ti and 4.2% Al the character of the primary carbides was greatly affected, but the size of the γ' -phase particles remained unchanged; in these amounts, B additions enhanced the formation of a eutectic phase which lowered the alloyability of the solid solution and of the γ' -phase. "G. M. Romashova, N. F. Poplavskaya, V. N. Makarova, Z. I. Galkina and M. I. Vlaskina also took part in the work." Orig. art. has: 16 figures and 1 table.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii, Moscow (Central ferrous metallurgy scientific research institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 005

OTHER: 000

Card 2/2

BOYARINOVA, A.P., inzh.; MEL'KUMOV, I.N., inzh.; BRUSILOVSKIY, B.S., inzh.;
KONTSEVAYA, Ye.M., inzh.; Primali uchastiye: ROMASHOV, V.M.;
PONOMAREVA, G.S.

Causes of brittle failure of the EI652 nickel-chromium-aluminum
alloy. Metalloved.i term.obr.met. no.4:14-17 Ap '62.
(MIRA 15:4)

1. Zavody "Elektrostal'" i "Serp i molot".
(Nickel-chromium-aluminum alloys--Brittleness)

VARLAKOV, V.P.; ROMASHOV, V.M.

Investigating the process of cubic texture formation in
transformer steel. Fiz. met. i metalloved. 13 no.5:671-675
My '62. (MIRA 15:6)

1. Zavod "Elektrostal".
(Steel--Metallography)
(Crystal lattices)

ROMASHOVA, A. G.

V 13878* (Russian.) The Hardening of Thermoreactive Plastics. K voprosu o mekhanizme otverzheniya termoreaktivnykh plastikov (prezporoshkov). I. E. Kasavets, L. G. Batalova, and A. G. Romashova. Kolloidnyi Zhurnal, v. 19, no. 2, 1957, p. 204-218.

An investigation of the hardening process and certain mechanical properties by means of a plastometer and by measuring changes in shearing stress. Press powders were made of phenol-cresol-xyleneal-formaldehyde resins, of melamine-formaldehyde resins, and of aminoplasts.

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YERMAKOV, P.N.; APRODOV, V.A.; YEFREMOV, Yu.K.; ROMASHOVA, A.T.; ZHERDENKO,
O.N.; SOROKIN, V.V.; KHODETSKIY, V.G.

Basic points of the seven-year-plan for the development and
activities of the Museum of Earth Science. *Zhizn' Zem.* no.1:
243-261 '61.

(Moscow--Geographical museums)

(MIRA 15:6)

SMEKHOV, Ye.M.; ROMASHOVA, M.G.

The Karluk Cave. Izv. Vses. geog. ob-va 94 no.1:85-88 Ja-F
'62.

(MIRA 15:3)

(Kugitangtau Ridge--Caves)

ROMASHOVA, M.G.

Results of studying macrofractured rocks according to data
on the Novovoskresenskaya structure in Irkutsk Province,
Trudy VNIGRI no.121:115-155 '58. (MIRA 16:11)

ROMASHOVA, M.G.

Recent data on the stratigraphy and jointing of an upper Jurassic limestone series of the southwestern spurs of the Gissar Range. Trudy VNIGRI no.165:171-199 '61. (MIRA 14:8)
(Gissar Range--Geology, Stratigraphic)
(Limestone) (Joints (Geology))

SMEKHOV, Ye.M.; GMID, L.P.; ROMASHOVA, M.G.; ROMM, Ye.S.; KALACHEVA, V.N.;
DOROFYEVA, T.V.; GROMOV, V.E.

Method for studying fractured rocks and their reservoir pro-
perties. Geol.nefti 2 no.3-37-45 Mr '58. (MIRA 12:6)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-razvedoch-
nyy institut.

(Rocks--Permeability)

LEPESHKOV, I.N.; ROMASHOVA, N.N.

Solubility and solid phases in the system $\text{LiCl} - \text{NaCl} - \text{MgCl}_2 - \text{H}_2\text{O}$
at 25 and 75°. Izv.AN Kir.SSR.Ser.est.i tekhnauk 4 no.9:33-40
'62. (MIRA 16:4)

(Chlorides)

(Salts)

(Solubility)

LEFESHKOV, I.N.; ROMASHOVA, N.N.

Solubility in the system $\text{LiCl} - \text{NaCl} - \text{MgCl}_2 - \text{H}_2\text{O}$ at 25 and 75°.
Zhur.neorg.khim. 6 no.8:1967-1971 Ag '61. (MIRA 14:8)
(Lithium chloride) (Sodium chloride) (Magnesium chloride)

ROMASHOV, N. V.

"A Biological Study of the Fruitfulness of the Oak and the Determination of the Reasons for the Periodicity of This Process." Cand Agr Sci, Khar'kov Agricultural Inst, Khar'kov, 1954. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
SO: Sum. No. 5-8, 29 Jul 55

ROMASHOV, P.I.

25086 ROMASHOV, P.I. Reaktsiya Otdel'nykh Vidov Trav Na Pitatel'nyye Veshchestva V Raznyye Momenty Gegetatsii. V Sb: Voprosy Kormodobyvaniya. Vyp. 2.M.,1949,S.52-55

SO: Letopis', No.33, 1949

ROMASHOV, V. A. Cand Vet Sci — (diss) "Helminthofauna of River Beavers and Experience in Revitalizing them from Helminthoses under Conditions in the Voronezh Game Reservation," Voronezh, 1960, 16 pp, 200 copies (All-Union Academy of Agricultural Sciences im V. I. Lenin. All-Union Institute of Helminthology im Acad. K. I. Skryabin) (KL, 49/60, 128)

LAVROV, L.S.; ROMASHOV, V.A.; DANZAN, G.; TSEVEGZHAV, T.

Ecologic characteristics of the habitat and prospects for the
development of South Asiatic beaver colonies in the Bulgan
River. Biul. MOIP. Otd. biol. 70 no.2:25-33 Mr-Ap '65.

(MIRA 18:5)

Remashev, V. M.

PHASE I BOOK EXPLORATION NOV/7182

Moscow, Institut stali

Proizvodstvo i obrabotka stali i splavov (Production and Treatment of Steel and Alloys) Moscow, Metallizdat, 1960. 462 p. (Series: Itai Shornik, 39) 2,100 copies printed.

Ed. Ye. A. Borzoi; Ed. of Publishing House: S. L. Zingert; Tech. Ed.: M. R. Klyamni; Editorial Council of the Institute: M. A. Glinkov, Professor, Doctor of Technical Sciences, Deputy of the People's Representative Khural, Professor, Doctor of Technical Sciences, I. M. Kildin, Professor, Doctor of Technical Sciences, I. M. Kildin, Professor, Doctor of Technical Sciences, B. Lyubimov, Professor, Doctor of Technical Sciences, A. M. Pavlov, Corresponding Member, Academy of Sciences USSR, and A. M. Fedulenev, Professor, Doctor of Technical Sciences.

Purpose: This book is intended for technical personnel in industry, scientific institutions and schools of higher education, dealing with open-hearth and electric-furnace steelmaking, metal casting, physical metallurgy, metallography, and heat-treatment. Card V/10

Also be used by students specializing in these fields.

COMMENT: This book contains results of theoretical and experimental investigations of metallurgical and heat-engineering processes in open-hearth and electric furnaces. Data are included on the following: desulfurizing of pig iron outside the blast furnace; interaction of oxides of the carbide-forming metals with oxygen; carbon, the change of content of gases in the bath; oxidation of hearth furnace in various periods of melting; relation of the electric melting of steel, etc. Other articles deal with the nonuniformity of deformation on rolling; the study of the continuous rolling process; rolling on a number of factors, and also on the process of the pressworking of metals. Articles on other processes of the heat treatment of steel are also included. No personal files are mentioned. References accompany most of the articles. There are 207 references, both Soviet and non-Soviet.

Card 2/10

Gorylik, S. S., Docent, Candidate of Technical Sciences, V. M. Kamsharov, Engineer, and Ye. I. Shchegirin, Engineer (Department of the Physics of Metals and X-Ray Analysis). Effect of Strain Distortions and Aging on the Diffusion Rate in Nickel-based Alloy. 381

Kolubnyy, P. I., and O. S. Popov, Engineer (Department of Metallurgy). Investigation of the Deformation of Metal in Diagonal Beam Tension. 400

Gelting, B. Y., Candidate of Technical Sciences (Department of Electrochemistry). Magnetic Viscosity of High-Correlativity Alloys. 422

Zemshov, M. D., Doctor of Chemical Sciences, and K. P. Zhuk, and Ye. M. Mitrolybov, Candidates of Chemical Sciences (Department of Corrosion of Metals). Behavior of Iron and Steel in Oxidizing Solutions. 438

Dyakov, A. M., Doctor of Chemical Sciences, and Ye. Z. Korol', Candidate of Chemical Sciences (Department of Analytical Chemistry). Card 9/10

L 62520-65

ACCESSION NR: AP5018149

UR/0113/65/000/007/0014/0016

621.43.620.1.085

AUTHOR: Romashov, V. M.

TITLE: Accuracy of indicator diagram evaluation methods in obtaining the mean indicated pressure

SOURCE: Avtomobil'naya promyshlennost', no. 7, 1965, 14-16

TOPIC TAGS: indicator diagram, mean indicated pressure, engine performance/ TL 2
engine indicator, MAI 2 engine indicator

ABSTRACT: A new method is presented for integrating the pressure-crankshaft angle (p-α) diagram in obtaining the mean indicated pressure

$$p_i = \frac{L_i}{V_h} \int_{T.D.C.}^{B.D.C.} (p_p - p_c) dV \text{ kg/cm}^2;$$

(where L_i - indicated cycle work; V_h - displacement; $(p_p - p_c)$ - difference in ordinates between the expansion and compression lines). This method is compared with the graphical, trapezoidal, and harmonic (12 intervals) methods of analysis.

Card 1/3

L 62520-65

ACCESSION NR: AP5018149

The new method is based on analytically expressing the angle α as a function of piston travel or of cylinder volume as

$$\cos \alpha = 1 + \frac{\frac{V_1}{V_h} - \frac{1}{\lambda}}{\frac{V_h}{2V_1} \left(\frac{1}{\lambda} + 1 \right) - 1}$$

(where $\lambda = r/L =$ crank radius/ connecting rod length), and by using this relation to obtain a template which can be placed over the $p-\alpha$ diagram, and which shows equal increments of piston displacement on the $p-\alpha$ diagram. The areas can then be added by the trapezoidal rule, and the integration may be performed as a finite step summation. For greater accuracy the region near the T.D.C. should be subdivided into smaller increments than the rest of the diagram. Because of the absence of graphical and diagram transfer errors, an accuracy of 0.55% (0.3% if 8 subdivisions near T.D.C. and 15 intervals on each side of T.D.C. are used) is claimed, as compared with 4.4%, 7.4%, and 5.8% for harmonic analysis, trapezoidal, and graphical methods respectively. Orig. arq. has: 2 figures and 2 tables.

ASSOCIATION: Voronezhskiy lesotekhnicheskii institut (Voronezh Forestry Institute)

Card 2/3

L 62520-65

ACCESSION NR: AP5018149

SUBMITTED: 00

ENCL: 00

SUB CODE: FR

NO REF SOV: 005

OTHER: 000

nc
Card 3/3

S/126/62/013/005/005/031
E111/E435

AUTHORS: Varlakov, V.P., Romashov, V.M.

TITLE: Investigation of the process of formation of cubic texture in transformer steel

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.5, 1962, 671-675

TEXT: The kinetics and mechanism of cubic-texture formation during production of transformer sheet have not been studied sufficiently. The object of the present work was to study this process in transformer steel 0.05 and 0.1 mm thick. The sheets were obtained from 2.5 mm thick hot-rolled coiled strip (composition: 5.06% Si, 0.04% C, 0.13% Mn, 0.005% S, 0.012% P, 0.03% Cr, 0.11% Ni). This was rolled as follows:
1) 2.5 → 0.6 mm - HT no.1 → 0.2 - HT no.2 → 0.1 - HT no.3;
2) 2.5 → 0.6 mm - HT no.1 → 0.2 - HT no.2 → 0.05 - HT no.3.
Heat treatment no.1 is annealing of the coil in dry hydrogen at 1150°C for 4 hours; no.2 is the same at 850°C; no.4 is annealing of 15 x 1 cm strip pieces at 10⁻² mm Hg for 4 hours at Card 1/2

Investigation of the process ...

S/126/62/013/005/005/031
E111/E435

1150°C. X-ray methods were used for studying texture. Cubic texture was successfully obtained in strip of both thickness by this method. The cubic texture develops during "secondary" recrystallization after two-stage cold rolling of steel with rib-texture, the degree of completeness attained being dependent on the reduction during cold rolling; at least 70% is required to give the most complete conversion to cubic texture. There are 6 figures.

ASSOCIATION: Zavod "Elektrostal'" ("Elektrostal'" Works)

SUBMITTED: November 16, 1961

Card 2/2

GOBELIK, S.S., dotsent, kand.tekhn.nauk; ROMASHOV, V.M., inzh.;
SHCHEDRIN, Ye.I., inzh.

Effect of dedormation distortions and aging on the rate
of diffusion in nickel-base alloys. Sbor.Inst.stali no.39:
381-399 '60. (MIRA 13:7)

1. Kafedra fiziki metallov i rentgenografii Moskovskogo ordena
Trudovogo Krasnogo Znameni instituta stali im. I.V.Stalina.
(Nickel-chromium alloys—Cold working)
(Diffusion)

KANAVETS, I.F.; BATALOVA, L.G.; ROMASHOVA, A.G.

Some new principles for the appraisal of the technological properties of thermosetting compression-molded materials (for the All-Union State Standard Project). Plast.massy no.1: 63-73 '60. (MIRA 13:6)

(Plastics--Standards)

ROMASHOVA, A. G.

The mechanism of solidification of thermosetting plastics

4f 2c

KANAVETS, I.F.; BATALOVA, L.G.; ROMASHOVA, A.G.

Hardening of thermoreactive plastics. Koll.zhur. 19 no.2:204:218
Mr-Apr '57. (MLRA 10:5)

1.Nauchno-issledovatel'skiy i proyektnyy institut promyshlennosti
plasticheskikh mass, Moskva,
(Plastics)

S/191/60/000/001/013/015
B016/B054

AUTHORS: Kanavets, I. F., Batalova, L. G., ~~Romashova, A. G.~~

TITLE: Some New Principles for the Rating of Technological Properties of Thermoreactive Molding Materials (Scheme of the GOCT(GOST))

PERIODICAL: Plasticheskiye massy, 1960, No. 1, pp. 63-73

TEXT: The present article is meant to be an introduction to the draft of a GOCT (GOST) standard on the method of determining the technological characteristics of thermoreactive molding materials (present periodical, pp. 73-78). The authors state that the most important characteristics of these molding materials are closely related with the degree of polycondensation, the polydispersion, and the structure of the resins used. The characteristics are: plasticity, rate of solidification, and structural-mechanical properties of the material in the finished product. The authors consider the hitherto used control methods to be inadequate since they are based on conventional values, not absolute data. For this reason, they

Card 1/4

Some New Principles for the Rating of Technological Properties of Thermoreactive Molding Materials (Scheme of the ГОСТ (GOST)) S/191/60/000/001/013/015 B016/B054

developed a plastometric measuring method to distinguish the processes with predominant growth of the polymeric chains from the processes with predominant structural development. The method permits the production of molding materials with given properties. This is of decisive importance for the mechanization and automation of production. The authors found by the plastometric method that the solidification processes take place as self-inhibiting reactions. Hence, it follows that the material of the finished product has different properties depending on the stage of polycondensation of the resin in the molding powder. By conversion of the resin into a higher stage of polycondensation by means of rolling, it is possible to produce molding powders of higher quality. The testing instrument "Plastometer" of I. F. Kanavets (Fig. 1) described here supplies the required absolute characteristic values (Refs. 1-3). The principle of this measuring method is based on the feed into a preheated mold of the instrument of a weighed portion of the molding material from which the sample is formed. Subsequently, the external part of the mold is set in a rotary mo-

Card 2/4

Some New Principles for the Rating of Technological Properties of Thermoreactive Molding Materials (Scheme of the ГОСТ (GOST)) S/191/60/000/001/013/015 B016/B054

tion. A shear stress reflecting the kinetics of solidification of the material is formed in the material by the rotation. This shear stress is measured by a dynamometer, or automatically entered in a diagram (Fig. 2). It was found for the first time by this method that the process of solidification of thermoreactive molding materials takes place in two stages. This permits a new kind of rating the plasticity of molding materials during production. The investigations were carried out at the NIIPM (Nauchno-issledovatel'skiy institut plasticheskikh mass, Scientific Research Institute of Plastics). The "Plastometer" of Kanavets permits the determination of all essential technological characteristics in one operation. Besides a considerable improvement of the properties of molding materials, the new measuring method will permit the responsibility for the quality of finished products to be clearly divided between the manufacturing and the processing plants. The authors demand a series production of the measuring instrument which can also be used in other branches of industry (rubber, machines) besides the plastics industry. They mention the TsNIITOP, Gor'kovskiy institut po normirovaniyu tekhnologicheskikh protsessov

Card 3/4

Some New Principles for the Rating of Technological Properties of Thermoreactive Molding Materials (Scheme of the ГОСТ (GOST)) S/191/60/000/001/013/015 B016/B054

(Gor'kiy Institute of Standardization of Technological Processes), the Vladimirskiy zavod (Vladimir Works), the zavod "Karbolit" ("Karbolit" Works), the Okhtinskiy khimicheskiy kombinat (Okhta Chemical Combine), the Karacharovskiy zavod (Karacharovskiy Works), the Mezhotraslevyy NTS (Interbranch Council for Science and Technology) of the NIIPM, and the Komitet standartov (Committee on Standards). There are 13 figures, 6 tables, and 7 Soviet references.

Card 4/4

ROMASHOVA, A. T. Cand. Biol. Sci.

"Feeding of Elks under the Conditions of the Moscow Oblast," Lomonsov
Lectures in 1956, est. Mosk. U., Physico Math and Natural Sciences Series, 4,
No. 6, pp 147-160, 1956, Moscow, U.S.S.R.

Translation U-3,054, 363

GOL'DENBERG, A.A., kand.tekhn.nauk, dotsent; ROMASHOVA, G.M., inzh.

Factors affecting the hardenability of hypereutectoid alloyed
steel. Vest.mashinostr. 43 no.9:64-66 S '63. (MIRA 16:10)

SMEKHOV, Ye.M.; GMID, L.P.; ROMASHOVA, M.G.; ROMM, Ye.S.

Methods of studying fractured rocks in connection with their
reservoir properties. Trudy VNIGRI no.121:7-66 '58.
(MIRA 16:11)

ROMASHOVA, M-G.

3(5);15(5)

p. 3

PHASE I BOOK EXPLOITATION

SOV/1385

Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut

Geologicheskly sbornik, 3 (Collection of Articles in Geology, Vol. 3) Leningrad, Gostoptekhizdat, 1958. 471 p. (Series: Its: Trudy, vyp. 126) 2,400 copies printed.

Ed.: Kudryavtsev, Nikolay Aleksandrovich; Executive Ed.: Fedotova, M.I.;
Tech. Ed.: Gennad'yeva, I.M.

PURPOSE: The book is intended for petroleum geologists working in Siberia and other petroliferous regions of the USSR and all other specialists operating in the field of oil recovery.

COVERAGE: The present collection of articles covers a large variety of subjects in the field of petroleum geology. Among them are problems in general geology and tectonics, such as studies of the boundaries between Cambrian and Precambrian rocks, methods for differentiating red beds under complex tectonic conditions, the relationship between the Urals and Pay-Khoy and Taymyr, the tectonics of the Carpathian Mountains, including the stratigraphy of different regions of the

Card 1/5

Collection of Articles in Geology (Cont.)

SOV/1385

Lower Permian of Timan, the continental deposits of the Chelyabinsk Region, the Tertiary deposits of Kamchatka, the geological structure and oil-bearing possibilities of different regions of Western and Eastern Siberia and Mangyshlak, and certain problems in geochemistry and hydrogeology. New and interesting material is provided by Ye.A. Kareva on the stratigraphy of the Mesozoic of the Zaural'ye, which, based on paleontological data, permits a breakdown of the brown coal continental deposits of the Chelyabinsk Region into a number of series, thus proving the existence of three coal bearing horizons of different ages in the stratigraphic column. Of particular interest are G.Ye-A. Ayzenshtadt's studies supporting a view diverging from the generally accepted gravitational theory on the growth of salt domes, and T.L. Derviz statement on the Rhaetic-Lias age of the lower horizons of the Mesozoic in the southeastern part of the West Siberian Plain. More than half of the articles are concerned with studies made on the oil-bearing possibilities of the various regions of Siberia, and of oil exploration carried on in that area. The articles are accompanied by diagrams, tables and bibliographic references.

Card 2/5

Collection of Articles in Geology (Cont.)

SOV/1385

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Card 4/5

Collection of Articles in Geology (Cont.)

SOV/1385

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- Pritula, Yu.A. Problems in the Geology and Oil-Gas-Bearing Possibilities in the South of the Siberian Shield 411
- Krylova, A.K. Attempt in Classifying the Ordovician of the Central Part of the Irkutsk Cirque by the Distribution of Chemical Elements and the Mineralogical Composition of Rocks 427
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- Krotova, V.A. Iodine-Bromide and Calcium Chloride Brines of the Volga-Ural [Second Baku] Oil-Bearing Regions 435

AVAILABLE: Library of Congress

Card 5/5

MM/fal
3-3-59

LEPESHKOV, I.N.; ROMASHOVA, N.N.

Solubility in the system Li_2SO_4 - Na_2SO_4 - MgSO_4 - H_2O at 75°C .
Zhur. neorg. khim. 5 no.11:2512-2517 N 460. 2 (MIRA 13:11)
(Lithium sulfate) (Sodium sulfate)
(Magnesium sulfate)

L 52704-65 EWP(e)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)
IJP(c) MJW/AD

Pf-4

ACCESSION NR: AP5013161

UR/0129/65/000/005/0050/0052
669.295:669.3

AUTHOR: Grdina, Yu. V.; Gordeyeva, L. T.; Timonina, L. G.; Romashova, T. A.

39
35
B

TITLE: Diffusion impregnation of titanium alloys with copper

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1965, 50-52

TOPIC TAGS: titanium alloy, alloy impregnation, copper impregnated alloy, impregnated layer property/VT3 titanium alloy, VT5 titanium alloy

ABSTRACT: A method of impregnation with copper of VT3 [U.S. RS 140] and VT5 titanium [4.0-5.0% Al, 1.0-2.0% Mn] alloys by pack cementation is described. Rolls 10 mm in diameter and rods with 3-mm diameter or cross section were descaled, packed in a mixture of 30-40% copper chips, 5-6% copper powder, 50-60% crushed refractory clay, and 1% ammonium chloride, and held for 1-3 hr at 750-950C. A copper-impregnated layer 0.1-0.4 mm thick with a maximum microhardness of 1500 was obtained by this method. By a modified method, holding paste-coated specimens at 950C for 3 hr in an argon atmosphere, a copper-impregnated layer 0.3 mm thick with a microhardness of 1500 was obtained. The layer consisted of TiCu₃, Ti₂Cu, Ti₃Cu and α-Ti phases.

Card 1/2

L 52704-65
ACCESSION NR: AP5013161

In wear-resistance tests under a load of 75 kg under conditions of dry friction, the copper-impregnated rolls exhibited no weight loss, whereas the untreated rolls paired with hardened U12A tool steel lost up to 2.5 g per roll. Orig. art. has: 4 figures. [MS]

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 004

OTHER: 000

ATD PRESS: 4012

Card

2/2

DITMAR, Andrey Borisovich; ROMASHOVA, V.D., red.; CHERNYKH, M.P.,
mladshiy red.; MAL'CHEVSKIY, G.N., red. kart; VILENSKAYA,
E.N., tekhn. red.

[To the countries of tin and amber] V strany olova i iantaria.
Moskva, Geografiz, 1963. 70 p. (MIRA 16:12)
(Phytheas, of Massilia) (Explorers)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

18

Rationalization of the process for obtaining sodium sulfide. E. A. Romasoyan, *J. Chem. Ind. (U. S. S. R.)* 16, No. 8, 51-1 (1955).—Modifications are suggested in the app. for burning Na₂SO₄ with C. H. M. L.

COMMON ELEMENTS

COMMON SPECIALS

WATERGAS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

423

656 225 : 656 222

Romaszko W., Eng. Increase in the Daily Run of Railway Locomotives and in the Working Hours of the Crew in Goods Traffic.

„O zwiększeniu przebiegu dobowego parowozów i drużyn parowozowych w ruchu towarowym”. Przegląd Kolejowy. No 3, 1950 : pp. 58—60, 4 figs.

Referring to railway practice in the Soviet Union, where the covering of distances of more than 500 km daily by the engine crew is a normal occurrence, the author maintains that, on the Polish State Railways, runs of approximately 500 km daily could also be achieved in the case of long-distance goods trains with a commercial speed above 35 km hour, without infringing the provisions of the law pertaining to working hours. This contention is supported by a number of examples based on effective traffic graphs, as well as by recommendations as to the requisite organization of engine crew. Other examples point to the possibility of increasing, by corresponding arrangement of the crew services, the mean daily active run of railway locomotives.

MINENKO, V.I., kand. tekhn. nauk; ROMAS'KO, S.D., kand. geologo-mineralogicheskikh nauk; BILYACH, L.I., inzh.

Crystal chemistry techniques for checking magnetic treatment of feed water. Teploenergetika 10 no.9:48-50 S '63. (MIRA 16:10)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut.
(Feed-water purification)

MINENKO, V.I., kand.khimicheskikh nauk; ZLUNITSYN, S.A., kand.fiziko-
matematicheskikh nauk; PETROV, S.M., kand.khimicheskikh nauk;
ROMAS'KO, S.D., kand.geolog-mineralogicheskikh nauk

Concerning the effect of magnetic fields on the physical properties
of water. Prom.energ. 17 no.5:24-26 My '62. (MIRA 15:5)
(Feed-water purification)

LITVINENKO, S.S.; ROMAS'KO, S.S.

Progressive norms for the expenditure of materials. Sbor. nauch.
trad. UkrNIISol' no.7:134-140 '64 (MIRA 18:1)

KANAVEC, I.F. [Kanavets, I.F.]; AKUTIN, M.S.; ROMASOVA, A.G. [Romashova, A.G.];
KARPILEVIC, V.M. [Karpilevich, V.M.]

Problem of the optimal processing methods of polyformaldehyde injection molding. Chem prum 13 no.4:209-217 Ap '63.

1. Nauchno-issledovatel'skoy institut plastmass v Moskve.

ROMASZEWSKA, Krystyna

Results of Taractan (thioxanthene) treatment in psychiatry up to now.
neurolog neurochirurgia psychiatria 12 no.3:415-420 My-Je '62.

1. Klinika Psychiatryczna, Akademia Medyczna, Warszawa. (Kierownik:
prof. dr med. A. Jus) Warszawa, Kasprowicza 91.

ROMASZEWSKA, Krystyna

Past results of Taractan therapy in psychiatry. Neurologia etc., polska
12 no.3:415-420 '62.

1. Z Kliniki Psychiatrycznej AM w Warszawie Kierownik: prof. dr med.
A. Jus. (CHLORPROTHIZENE) (MENTAL DISORDERS)

ROMASZEWSKA, K.

Works on neurology, neurosurgery and psychiatry published in Polish medical periodicals during 1957. Neur. & polska 8 no. 4:545-555 July-Aug 58.

(PSYCHIATRY,
bibliog. (Pol))

ROMASZEWSKA-OLSZEWSKA, KRYSZYNA

KASSUR, Bertold; MIGDALSKA-KASSUROWA, Bronislawa; ROMASZEWSKA-
OLSZEWSKA, Krystyna

Psychic disorders in cases of bacterial dysentery treated with
chloromycetin. Neur. &c. polska 6 no.6:845-852 Nov-Dec 56.

1. Z II Kliniki Chorob Zakaznych A.M. w Warszawie Kierownik:
prof. dr. med. B. Kassur. Z Oddzialu Obserwacyjnego Szpitala
Zakaznego Nr 1 w Warszawie Ordynator: dr. med. Br. Migdalska-
Kassurowa. Z Kliniki Psychiatrycznej A.M. w Warszawie Kierownik:
prof. dr. med. J. Handelsman. Adres: Warszawa, ul. Saska 91, m.
3.

(CHLORAMPHENICOL, inj. eff.
ment. disord. (Pol))

(MENTAL DISORDERS, etiol. & pathogen.
chloramphenicol (Pol))

ROMATOVSKAYA, T.L.

Vacuum deep-frying of food products in vegetable oil. Izv.vys.-
ucheb.zav.; pishch.tekh. no.4:65-67 '62. (MIRA 15: 11)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy
promyshlennosti, kafedra tekhnologicheskogo oborudovaniya
pishchevykh proizvodstv.

(Canning and preserving--Equipment and supplies)

MOROZOV, N.V.; ROMATOVSKAYA, T.L.

Graphic method for determining the cooling time for fried
vegetables. Izv.vys.ucheb.zav.; pishch.tekh. no.1:111-113 '64.
(MIRA 17:4)

J. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy
promyshlennosti, kafedra tekhnologicheskogo oborudovaniya
pishchevykh proizvodstv.

DIKIS, M.Ya.; ROMATOVSKAYA, T.L.

Calculating the cooling time of fried fish in a liquid cooling medium.
Izv.vys.ucheb.zav.; pishch.tekh. no.5:83-86 '63. (MIRA 16:12)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy
promyshlennosti, kafedra tekhnologicheskogo oborudovaniya
pishchevykh proizvodstv.

ROMATOVSKAYA, T.L.

Cooling of food products after frying. Kons.i ov.prou.
17 no.2:6-9 F '62. (MIRA 15:5)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'-
noy promyshlennosti.
(Canning and preserving)

ROMATOVSKIY, I.

Here's how we can improve! Grazhd.av. 17 no.1:17
Ja '60. (MIRA 13:5)

1. Nachal'nik Gor'kovskogo aeroporta.
(Gorkiy)

H-22

Country : POLAND
Category : Chemical Technology. Chemical Processing of Solid Fossil Fuels
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 50986
Author : *Romatoski, J.*
 : Romatoski, J.; Warmuzinski, J.
Institute : -
Title : Application of the New Method for the Removal of Water from Tars Through Thin Film Heating

Orig Pub. : Koks. smola, gaz, 1958, 3, No 4, 138-143

Abstract : A method for dehydration of tars is described. It differs from the majority of other methods based on density differential. Tar flows along the internal pipe surface, heated on the outside with steam of $\geq 170^\circ$ temperature, that permits, due to peculiar flow characteristics of tar and due to considerable surface area, attainment of a high water vaporization rate. The removal of vapors is achieved in the stream of coke-oven gas or by means of vacuum.

Card: 1/2

H-111

ROMAZANOV, N.S., general-leytenant aviatsii v otstavke.

Years and people. Vest.Vozd.Fl. 40 no.1:72-80 Ja '58. (MIRA 11:4)
(World War, 1939-1945--Aerial operations)

86-58-4-21/27

AUTHOR: Romazanov, S. N., Lt Gen of the Air Force, ret

TITLE: The Years and Men (Gody i lyudi)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 4, pp 75-82 (USSR)

ABSTRACT: This is the sixth of a series of articles in which the author describes his war experience during the Great Patriotic War (World War II). This article deals with the Berlin operation in 1945. Seven photos.

AVAILABLE: Library of Congress

1. Warfare - USSR

Card 1/1

86-58-5-31/38

AUTHOR: Romazanov, S. N., and Drozdov, I. V.
TITLE: Front Biography (Frontovaya biografiya)
PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 5, pp 75-79 (USSR)
ABSTRACT: The biography of the Soviet military pilot V. A. Leont'yev,
Hero of the Soviet Union, is given. There is one photograph.
AVAILABLE: Library of Congress
1. Biography

Card 1/1

ROMAZANOV, S.N., general-leytenant aviatsii v otstavke.

Years and people. Part 5: In the Ukrainian sky. Vest. Vozd. Fl. 40
no.3:66-73 Mr '58. (MIRA 11:3)

(Ukraine--World War, 1939-1945--Aerial operations)

86-1-24/30

Romazanov, N.S.
AUTHOR:

Romazanov, N.S., Lt Gen of the Air Force, ret.

TITLE:

The Years and Men (Gody i lyudi)

PERIODICAL:

Vestnik Vozdushnogo Flota, 1958, Nr 1, pp. 72-80 (USSR)

ABSTRACT:

This is the third of a series of articles of which two appeared in the previous issues of this periodical. In this article under the subtitle "The Great Battle" the author describes in a popular manner various episodes of the Soviet Air Force combat activities in the Kursk area in July 1943. Eight photos.

AVAILABLE:

Library of Congress

Card 1/1

ROMAZANOV, S., general-leytenant aviatsii.

The commanding officer's work with individual pilots. Vest.Vozd.
Fl. 34 no.12:25-28 D '51. (MLRA 8:3)
(Air pilots) (Military morale)

ROMAZANOV, S.

AID - P-24

Subject : USSR/Aeronautics
Card : 1/1
Author : Romazanov, S., Lt. Gen. of Aviation
Title : Instruction and Education of Aviators in the Spirit
of the Military Oath Requirements
Periodical : Vest. vozd. flota, 2, 18 - 22, February 1954
Abstract : The author gives in general terms the guiding principles
of training and education in the USSR Air Force. He
underlines the importance of understanding and following
the requirements of the Military Oath.
Institution : None
Submitted : No date

ROMAZANOV, S.N.,--general-leytenant aviatsii v otstavke

Years and people (recollections of the war years). Vest. Vozd.
Fl. 40 no.12:69-72 D '57. (MIRA 14:12)

(World War, 1939-1945--Aerial operations)

ROMAZANOV, S.N., general-leytenant aviatsii v otstavke.

Years and people. Part 6: Victory Banner over Berlin. Vest. Vozd.
Fl. 40 no.4:75-82 Ap '58. (MIRA 11:4)
(World War, 1939-1945--Aerial operations)

ROMAZANOV, S.N.

86-58-3-26/37

AUTHOR: Romazanov, S.N., Lt Gen of the Air Force, ret.
TITLE: Years and Men (Gody i lyudi)
PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 3, pp 66-73 (USSR)
ABSTRACT: This is the fifth of a series of articles which appeared in previous issues of this periodical. Under the subtitle "In the Ukrainian Skies", the author describes some of the activities of the Air Force on the Ukrainian front in 1943 and 1944. Five photos.
AVAILABLE: Library of Congress

Card 1/1

ROMAZANOV, S. N.

ROMAZANOV, S.N., general-leytenant aviatsii v otstavke.

Years and people. Part 4: Kiev ahead. Vest. vozd. fl. 40 no.2:55-61
F '58. (MIRA 11:2)

(Ukraine--World War, 1939-1945--Aerial operations)

ROMAZANOV, S.N.

AUTHOR: Romazanov, S.N. LtGen of the Air Force, Retired 86-2-35/45

TITLE: The Years and Men (Gody i lyudi)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 2, pp. 55-61 (USSR)

ABSTRACT: This is the fourth of a series of articles, in which the author relates his war experiences. In this article the activities of various Air Force units in the battle for Kiyev in 1943 are described. Six photos.

AVAILABLE: Library of Congress

Card 1/1

ROMAZANOV, S. N.

86-11-19/31

AUTHOR: Romazanov, S. N., Lt Gen of the Air Force, ret
TITLE: The Years and the Men (Gody i lyudi)
PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 11, pp. 68-74 (USSR)
ABSTRACT: Under this title the author describes his war experience during the first months of "the Great Patriotic War" in 1941. At that time the author served as political commissar in Soviet Air Force units on the Bryansk front. Five photos.
AVAILABLE: Library of Congress
Card 1/1

ROMAZANOV, S.N.

86-12-19/29

AUTHOR: Romazanov, S.N., Lt Gen of the Air Force, Ret
TITLE: The Years and Men (Gody i lyudi)
PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 12, pp. 69-75
(USSR)
ABSTRACT: This is the second of a series of articles in which
the author describes his war experience on the
Voronezh front in 1943 while serving with the Second
Air Army. Three photos.
AVAILABLE: Library of Congress

Card 1/1

ROMAZANOVICH, N.P.; BEREZINA, K.G.

Polarographic determination of dichloroacetaldehyde in the chlorination products of ethyl alcohol. Zav.lab. 27 no.3:287-290 '61.

(MIRA 14:3)

(Acetaldehyde) (Ethanol)

S/032/63/029/002/006/028
B101/B186

AUTHORS: Lisetskaya, G. S., Romazanovich, N. P., Olefirenko, V. P.,
and Kamyayaya, K. K.

TITLE: Determination of microimpurities in caustic alkalis

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 2, 1963, 156-158

TEXT: The colorimetric determination of 10^{-5} - $10^{-6}\%$ Cu, Pb, Ca, Ni, Fe, Hg, Mn, and of the sum of heavy metals in alkalis is described. The sum of heavy metals of the hydrogen sulfide group is determined by extracting the diethyl dithiocarbamate complexes from the alkali neutralized by HCl. The extract is evaporated, moistened with H_2SO_4 , calcined at $600^\circ C$, and dissolved in HCl. The sulfides are precipitated with water containing hydrogen sulfide and the color of the solution is compared with a calibration scale in acetic acid medium. The absolute sensitivity is $2\mu g$ in 4-5 ml of the enriched solution (referring to Pb). Since mercury volatilizes in this treatment a weighed portion of NaOH is neutralized by HNO_3 , it is boiled with $KMnO_4$, the excess permanganate is reduced by oxalic acid, the disturbing elements are bound with Trilon B at pH = 4,
Card 1/3

Determination of microimpurities in ...

S/032/63/029/002/006/028
B101/B186

and Hg is determined with dithizon. The sensitivity is $5 \cdot 10^{-6}\%$. Copper is determined by extracting the diethyl dithiocarbamate complex at pH = 4 from NaOH neutralized by HCl. Disturbance by Fe(III) is prevented by sodium pyrophosphate, the disturbance of the other ions by Trilon B. The determinable minimum amount of Cu is 0.1 μg in 0.5 ml of CCl_4 extract.

To determine Pb, NaOH is neutralized by HNO_3 , and the dithizon complex of Pb is extracted with CCl_4 at pH = 8. Precipitation of the hydroxides is prevented by ammonium citrate, Fe(III) is reduced by hydroxylamine, Cu is bound by KCN. Only Bi is disturbing. Pb can be separated from Bi by re-extracting Pb into the aqueous phase in acid medium. The sensitivity is $2.5 \cdot 10^{-6}\%$.

To determine Ni, NaOH is neutralized by HCl and the nickel dimethyl glyoximate is extracted by chloroform. After re-extraction into the aqueous phase, Ni is determined with dimethyl glyoxime in the presence of iodine. The sensitivity is $1 \cdot 10^{-6}\%$.

Fe is photolorimetrically determined as sulfosalicylate complex in NaOH neutralized by HCl. The sensitivity is $1 \cdot 10^{-5}\%$.

To determine Ca, NaOH is neutralized by HCl, evaporated to dryness, and CaCl_2 extracted by ethyl alcohol. The heavy

Card 2/3

Determination of microimpurities in ... S/032/63/029/002/006/028
B101/B186

metals are previously separated as diethyl dithiocarbamate complexes.

Ca is determined by murexide. The sensitivity is $5 \cdot 10^{-5}\%$. Mn is determined by the usual silver persulfate method by extracting the diethyl dithiocarbamate complex from NaOH, calcining, and oxidizing Mn to Mn(VII). The sensitivity is $1 \cdot 10^{-6}\%$. Maximum sensitivity can be reached with weighed portions of 20-50 g of dry NaOH. The method was tested on mixtures of pure salts. There are 1 figure and 1 table.

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BORODA, T.A., kand. khim. nauk; ROMAZANOVICH, N.P., kand. khim. nauk;
POLOVKO, V.N., kand. tekhn. nauk; CHISTYAKOVA, Ye.A.;
LIKHITSKAYA, V.S., inzh.

Purification of commercial lactic acid. Pishch. prom. no.1:
96-102 '65. (MIRA 18:11)

LISETSKAYA, G.S.; ROMAZANOVICH, N.P.; OLEFIRENKO, V.P.; KAMYANAYA, K.K.

Determination of microimpurities in caustic alkalies. Zav.lab. 29
no.2:156-158 '63. (MIRA 16:5)
(Alkalies) (Metals—Analysis)

ROMAZANOVICH, N.P.

KRETOV, A.Ye.; ROMAZANOVICH, N.P.

Cyanoethylated arensulfonamids. Zhur. ob. khim. 28 no.4:1059-1062
Ap '58. (MIRA 11:5)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut.
(Amides) (Ethylation) (Arensulfonic acid)

RGEJKO, A.

The comparison of two lots of merchandise.

P. 217 (ZASTOSOWANIA MATEMATYCZNEJ) Poland, Vol. 3, No. 2, 1957

SO: Monthly Index of European Accessions (AEEI) Vol. 6, No. 11, November 1957

KRETOV, A.Ye.; ROMAZANOVICH, N.P.

Chemical reactions of N,N-dicyanethylated arensulfamides. Ukr.khim.zhur.
24 no.6:761-763 '58. (MIRA 12:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut im. F.M. Dzerzhin-
skogo, kafedra organicheskoy khimii.
(Sulfamide)

AUTHORS: Kretov, A. Ye., ~~Romazanovich, N. P.~~ 79-28-4-46/60

TITLE: Cyanethylation of Arylsulfonamides (Tsiانيتيلirovaniye arensul'fonamidov)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 1059-1062 (USSR)

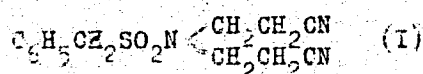
ABSTRACT: For the purpose of investigating the chemical properties of benzenesulfonamides and of their derivatives cyanethylation reactions became very important in recent time. These reactions depend on the influence of acrylonitrile upon compounds with a mobile hydrogen atom. A number of summarizing articles on cyanethylation exist (Ref 2). Acrylonitrile can react with hydrogen halides, amines, compounds of malonic acid type etc. Articles on the cyanethylation of carboxylic acids and of their derivatives (compound esters, nitriles, amides) (refs 3-5) exist as well. The synthetic peculiarities of this reaction were investigated not long ago, however, they distinctly show already now the possibility of practical application. In publications there are references to that in the hydrolysis of the products of

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cyanethylation of amines compounds are obtained, which are physiologically effective (refs 6,7). As is well known, in the most effective sulfonamide preparations the hydrogen atoms of the amide group are substituted (ref 8); accordingly the authors investigated the cyanethylation of benzenesulfonamide and of its derivatives. In the presence of alkalies benzenesulfonamide forms at 100°C with acrylonitrile a dicyanethyl compound (refs 9,10). Of the substituted benzenesulfonamides the benzylsulfonamide was dicyanethylated in publications. Contrary to a former assumption (ref 5) this reaction affected the amide group and the compound (I) was formed.



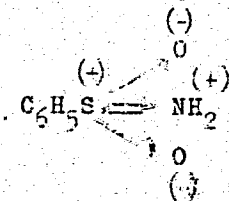
In the cyanethylation of benzenesulfonamides the conjugated position of the benzene ring to the sulfo- and amino groups are to be considered. The electrophile effect of sulfur and the separation of the free electrons causes a positive charge

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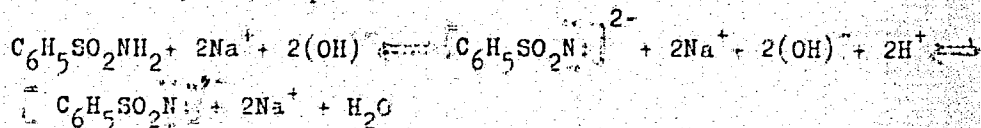
Cyanethylation of Arylsulfonamides

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of nitrogen which facilitates the fission of a proton



This fission is still intensified in alkaline solution because a dynamic equilibrium sets in.



At a molar ratio of the benzenesulfonamide to sodium hydroxide of 1:2 the anion $[C_6H_5SO_2N:]^{2-}$ (ref 1) forms under fission of two protons. By this means the catalytic effect of sodium hydroxide in the cyanethylation of the benzenesulfonamide and the difficulty of the isolation of products of the mono-

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cyanethylation as well are explained. At a molar ratio of 1:3 also the monovalent anion $[C_6H_5SO_2NH]$ forms under the given conditions. The carrying out of the cyanethylation of the benzenesulfonamide is exactly described. Of the derivatives of benzenesulfonamide with nucleophile substituents the following compounds were cyanethylated: p-toluenesulfonamide, p-chlorobenzenesulfonamide, p-aminobenzenesulfonamide, p-acetylamino-benzenesulfonamide and sulfidine. The compounds reproduced by this reaction have hitherto not been described in publications. The products of the cyanethylation of a number of aromatic chloride compounds, which are used as insecticides, are described in publications. In this respect the dicyanethylation of 1-chloro-2-nitro-4-benzenesulfonamide deserves special interest. It proceeds very violently in the presence of the catalyst according to Rodionov and supplies a dicyanethylated product. The investigation of the reaction mechanism of the reactions carried out showed that the substitution of hydrogen by the cyanethyl group takes place under the described conditions only in the amido group. No reaction in the amino

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Cyanethylation of Arylsulfonamides

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group takes place.

There are 1 table and 22 references, 7 of which are Soviet

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskii institut
(Dnepropetrovsk Chemical-Technological Institute)

SUBMITTED: March 26, 1957

Card 5/5

ROMAZANOVICH, N.P.; VASIL'YEVA, Z.A.

Production of esters of β -aroxypropionic acids. Ukr. khim. zhur.
27 no.4:548-549 '61. (MIRA 14:7)
(Propionic acid)

ROMAZANOVICH, N. P.

"Spectrographic Investigation of Isomeric Aminobenzol Sulfonic Acids and
Their Derivatives" **APPROVED FOR RELEASE: 07/19/2001** **CIA-RDP86-00513R001445320004-8"**
(RZhKhim, No 5, 1955)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (15)