DURNTKINA, S. M.

Dissertation: "Antinarcotic, Blood Pressure, and Vascular Effect of Phenamine and Their Correlation." Cand Med Sci, Saratov State Medical Inst, Saratov 1954. (Referativnyy Zhurnal--Khimiya, No 11, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

DURNITSYNA, O. I.

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 923

Author: Khmelevskiy, V. I., and Durnitsyna, O. I.

Institution: None

Title: On the Structure of the Triacetyl Derivative of 4,5-Diaminouracil

Original Periodical: Zh. obshch. khimii, 1956, Vol 26, No 3, 755-760

Abstract: It is shown that the triacetyl derivative of 4,5-diaminouracil (I), an intermediate product in the synthesis of 8-methylxanthine (II) from uric acid (III) by the refluxing of III in $(CH_3CO)_2O$, has the structure 4-acetylamino-5-di(acetylamino)-uracil and not that of the diacetyl derivative of 2,6-dioxo-8-oxy-8-methylhexahydropurine, as claimed previously (Biltz and Schmidt, Liebigs Ann. Chem., 1923, 431, 70). I was obtained from III (106 gms of 95% III are refluxed with 300 ml $(CH_3CO)_2O$ in 100 ml pyridine for 5-5.5 hours until the evolution of CO_2 is completed; the precipitated I is washed with ethylene chloride and absolute ether, and rapidly crystallized in

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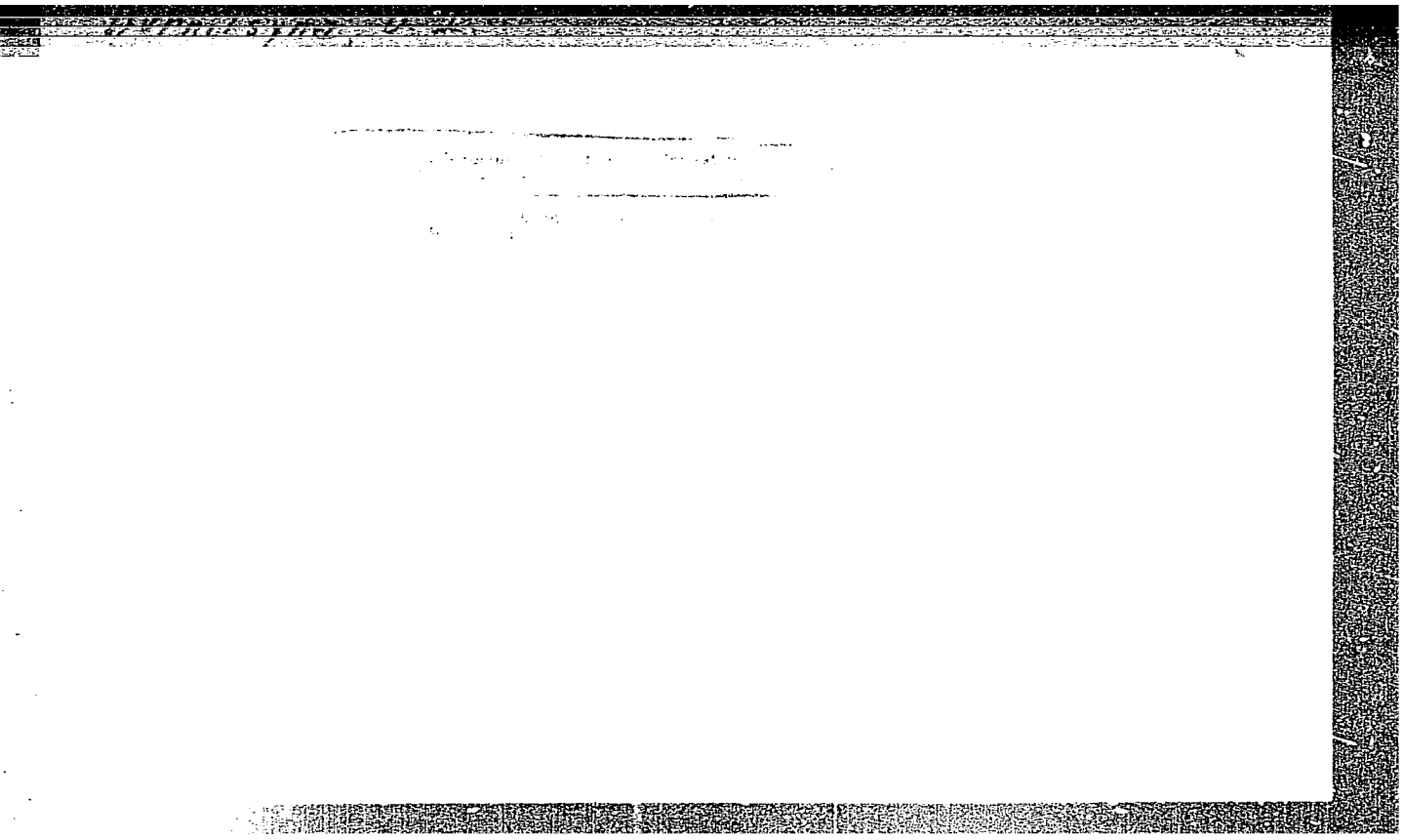
USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

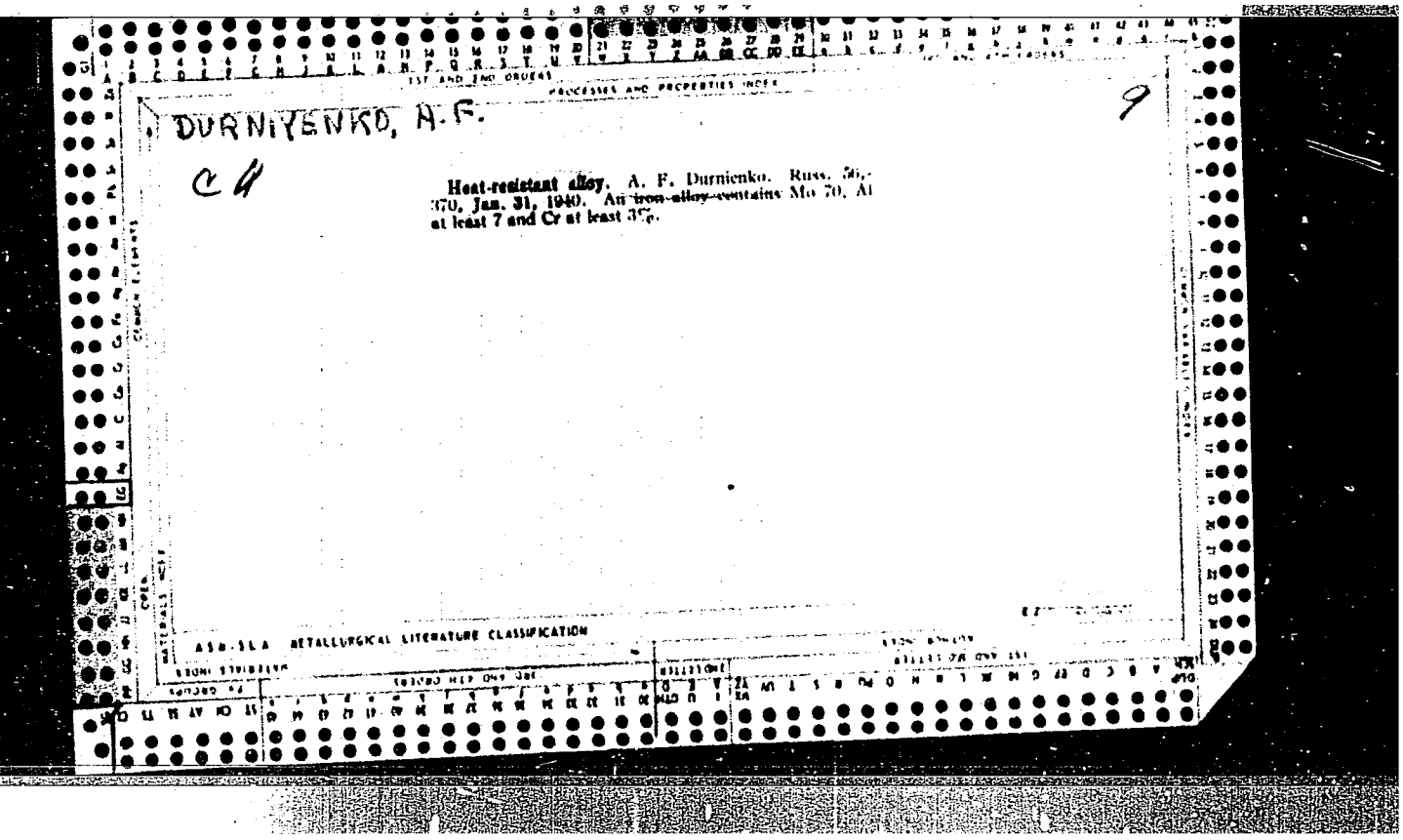
Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 923

Abstract: portions from 30 parts water; the yield is 65-66 gms; hydrolysis with hot water easily splits off one acetyl group with the formation of 4,5-di(acetylamino)-uracil (IV)). The potentiometric titration of I requires 3 equivalents of NaOH (the titration of IV requires 2 equivalents of NaOH). When I is refluxed with 100% CH_3COOH, it forms IV similarly to the diacetanilide; the yield is 81%. On heating with quinoline leading to cleavage of one molecule of $(CH_3CO)_2O$ and a change in the electrical conductivity of the reaction mixture (a curve is given), I is converted to II (yield, 95%). Such a mechanism is possible only if a molecule of CH_3COOH is split off, followed by acidolysis of the intermediate product $C_4H_2N_2O_2 - N(COCH_3)C(CH_3) = N$.

Card 2/2



APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411610017-0"


DURNIYENKO, A.F.

Heat-resistant alloy. A. F. Durnienko. Russ. 50,
370, Jan. 31, 1940. An iron-alloy contains Mo 70, Al
at least 7 and Cr at least 3%.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

DURNIENKO, A. F.

D. I. R.
June 1954
Metals-Foundry Practice

8407 Effective Methods of Inoculating Cast Iron. A. F. Durnienko. *Henry Brutcher, Altadena, Calif., Translation no. 3162, 4 p. (From Liteinoe Proizvodstvo, v. 4, no. 6, 1953, p. 9, 15.)*
Difficulties in inoculation of cast iron for a spheroidal graphite structure, arise from their low melting and boiling point.

AUTHOR: Durniyev, L. S.

SOV/67-11-5-5/19

TITLE: Data on the Operation of Apparatuses for Air Separation With Acetylene Adsorbers (Opyt ekspluatatsii vozdukhorazdelitel'nykh apparatov s adsorberami atsetilena)

PERIODICAL: Kislorod,1958, Vol 11, Nr 5, pp 36 - 38 (USSR)

ABSTRACT: The paper deals with data obtained in the department for air separation of the Kirovakanskiy khimicheskiy kombinat (Kirovakan Chemical Kombinat). It was necessary to purify the air introduced into the liquefier from acetylene which escapes from the plant for the acetylene production and from the pipes. In 1958, therefore an additional condenser has been adjusted in which the acetylene is adsorbed and the acetylene content of the air to be liquefied can be checked. Two control tables are given which present the results obtained after the adjustment of the additional condenser. Table 1 shows a very strong and unsteady acetylene content which due to the use of overcharged absorbed substance. Table 2 after regeneration of the "silicagel" gives maximum

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values of 0.09 cm^3 acetylene per liter air. The regeneration of the "silicagel" was performed by heated nitrogen (heating by the heat exchanger) which had notbeen supplied in sufficient quantity and which had not been sufficiently heated. The pipes were enlarged from 25 up to 50 mm and electrically heated in addition to that. Thus a good purification of the air had been secured. There are 1 figure and 2 tables.

KORNILOV, I. I.; DURNOV, A. I.; PRYAKHINA, L. I.

"Oxidation Velocity of Quaternary Alloys of Iron, Chromium, Nickel, Manganese," Dok. AN, 58, No. 8, 1947

DURNOV, A. I.

IVANOV, A. I.

AUTHOR: Bol'shakov, V. D., Candidate of Technical Sciences SOV/154-58-2-16/22

TITLE: Scientific and Technical Conference of MIIGA i K (Nauchno-tekhnicheskaya konferentsiya MIIGA i K) I

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 2, pp 111-114 (USSR)

ABSTRACT: From April 24 to 26 a scientific and technical conference of the MIIGA i K (Institute of Geodesy, Aerophotography, and Cartography, Moscow) was held in Moscow. Furthermore, there were four sections in operation: on geodesy, aerophotogeodesy, cartography, and on the production of photogrammetrical instruments. More than 500 delegates from 45 institutes took part in the conference at which 28 lectures were given. 20 delegates participated in the discussions. The opening speech was made by the Director of the MIIGA i K, Professor P. S. Zakatov, Doctor of Technical Sciences. The first paper read was that by A. I. Ivanov on "The Fight Against Revisionism." A. I. Durnov, Professor, Doctor of Technical Sciences, spoke on "The Setup and the Levelling Principles of the Geodetic Basic Network of the USSR." A. M. Virovets, Professor, read a paper on "The Elaboration of Equiangular Coordinates in Some Kinds of Geodetical Networks (on the Basis of the Data Directly Measured in the Ellipsoid)." M. S. Murav'yev, Docent: "On a Bench Mark of Special Stability." V. G. Selikhanovich, Docent, Candidate of Technical Sciences: "The Life and Scientific Work of A. P. Bolotov." V. D. Bol'shakov: "Optical Measurements of Distances Under Precise Conditions." N. V. Yakovlev, Assistant: "On the Methodology of High-Precision Goniometry in First-Class Triangulations X." N. Ya. Bobir: "On the Problem of Determining Some Elements of Inner Orientation of Wide-Angle and Super-Wide Angle Aerial Cameras." A. K. Pevnev, Graduate Student: "On a Level Device With a Freely Suspended Reflector." A. S. Dimitriyev reported on "Geodesy and Cartography at the Beginning of the Soviet Rule." Ye. P. Arzhanov on "An Investigation of the Film Smoothing Device With Supporting Rollers." L. N. Vasil'yev, Graduate Student: "Stereocomparator With Electrical Corrections." V. Ya. Mikhaylov, Docent, Candidate of Technical Sciences: "On the Change of Scale of Aerial Photographs Resulting From Enlargement." P. V. Zakharov: "On the Distinctive Capabilities of Black-and-White and Color Photographs." Yu. N. Kuznetsov, Graduate Student: "The Elements of the Theory of a New High-Speed Shutter." I. G. Sprkin, Professor: "The Present State of Physical-Mathematical Knowledge on the Precise Functioning of Measuring Tools." S. M. Golovin: "Speeding up and Improving the Production of Measuring Tools." L. A. Malkin, Docent, Candidate of Technical Sciences: "On Instruments for the Precise Measurement of Distances." V. S. Mikheychev, Assistant: "Field Tests With the Optical Range Finder CBI-1." V. S. Usov, Assistant: "On the Study of Inaccuracies in the Focussing Devices of Telescopes." N. M. Volkov, Professor, Doctor of Geographical Sciences: "Some Remarks on Engraving in the Production Process of Original Maps."

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Card 2/3

Card 3/3

DURNOV, A. M.

USSR/Engineering - Control, Automatic Moisture Textiles Mar 50

"Pneumatic Moisture System With Automatic Control," A. N. Ryabchikov, A. M. Durnov, 2 pp

"Prom Energet" No 3

Describes system in detail, including line diagram and sketch showing cross section of nozzle, Designed by the Automatics Div, All-Union Sci Res Inst for Protection of Labor, working in conjunction with Textile Factory imeni Worker Fedor Zinovyev.

PA 161T63

DURNOV, A. T.

5
(3)

Rate of oxidation of quaternary alloys of iron-chromium-nickel and manganese. I. I. Kornilov, A. T. Durnov, and L. L. Pryakhina. *Doklady Akad. Nauk S.S.S.R.* 58, 1005–8(1947).—Oxidation rates of alloys contg. 17.3–20.5% Cr, 7.8–9.2% Ni, 16.7–2.85% Mn, and 58.2–68.5% Fe were detd. The results, given graphically, indicate that at 1000° alloys contg. Mn and Fe oxidize more rapidly than those contg. Cr or Ni. In order of rate of oxidation the series is Mn, Fe, Cr, and Ni. Most of the oxidation falls to Mn and it detns. the general rate of reaction. Apparently MnO, Fe_3O_4, Cr_2O_3, and NiO are the products. MnO and Fe_3O_4 are unstable oxides under conditions of alternate heating and cooling and they do not form a protective film. G. M. Kosolapoff

ZAGLUBOTSKIY, P.M.; DURNOV, G.P.; LAVRUSEVICH, V.V.; MIKHAYLENKO, V.I.; IVANOV, V.M., spetsred.; SHUIN, V.I., red.; FORMALINA, Ye.A., tekhn.red.

[Practices of efficiency promoters in ship repairing] Opyt ratsionalizatorov v sudoremonte. Moskva, 1959. 53 p. (MIRA 13:9)

(Ships--Maintenance and repair)

ARTEMOV, P.I.; DURNOV, I.A.

Dispensary service for patients in a nonconsolidated polyclinic. Zdrav. Ros. Feder. 7 no.5:14-18 My'63. (MIRA 16:6)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny (ispolnyayushchiy obyazannosti zaveduyushchego kafedroy -dotsent S.I.Stegunin) Kuybyshevskogo meditsinskogo instituta I Kuybyshevskogo gorodskogo otdela zdravookhraneniya (zav. T.A.Drobinina).
(KUYBYSHEV—HOSPITALS—OUTPATIENT SERVICES)

DURNOV, L.A.

Indications for splenectomy in familial microspherocytic hemolytic anemia in children. Probl.gemat.i perel.krovi no.5:20-22 '62. (MIRA 15:8)

1. Iz khirurgicheskogo otdeleniya imeni T.P. Krasnobayeva (zav. - doktor med.nauk I.E. Sandukovskiy) 1-y Moskovskoy detskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich).

(SPLEEN--SURGERY) (HEMOLYTIC ANEMIA)

DURNOV, L. A.

Familial character of congenital hemolytic microspherocytic anemia. Klin. med. 40 no.7:119-121 Jl '62.
(MIRA 15:7)

1. Iz khirurgicheskogo otdeleniya imeni T. P. Krasnobayeva (zav. - doktor meditsinskikh nauk I. E. Sandukovskiy) 1-y detskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR Ye. V. Prokhorovich)

(HEMOLYTIC ANEMIA)

DURNOV, L. A.

Treatment of familial hemolytic anemia in children. Pediatriia 41 no.3:58-61 '62. (MIRA 15:2)

1. Iz 1-y detskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR Ye. V. Prokhorovich).

(ANEMIA)

DURNOV, L.A.

Unusual case of enterocystoma. Pediatriia 41 no.10:77-78 O '62. (MIRA 17:2)

1. Iz khirurgicheskogo otdeleniya imeni T.P. Krasnobayeva (zav. V.I. Voskresenskaya) Moskovskoy detskoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V. Prokhorovich).

DURNOV, L.A., kand.med.nauk

Comparative data on the conservative and surgical treatment of congenital hemolytic anemia in children. Khirurgiia 39 no.4:143-145 Ap'63 (MIRA 17:2)

1. Iz khirurgicheskogo otdeleniya (zav. - doktor med. nauk I.E.Sandukovskiy) 1-y Detskoy gorodskoy klinicheskoy bol'nitsy imeni T.P.Krasnobayeva (glavnyy vrach - zasluzhennyy vrach RSFSR Ye. V.Prokhorovich), Moskva.

DURNOV, L.A., kand. med. nauk; LEBEDEV, V.I.

Reanimation of an 8-day-old child after a 10 minute period of clinical death. Khirurgiia 39 no.9:127-128 S'63 (MIRA 17:3)

1. Iz khirurgicheskogo otdeleniya imeni Krasnobayeva (zav. - doktor med. nauk I.E.Sandukovskiy) 1-y Detskoy moskovskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.P. Prokhorovich).

DURNOV, L.A., kand. med. nauk; SAMORYADOVA, L.S.; SUKHOVA, V.N.

Excision of a hepatic lobe for cancer in an 11-month-old infant. Vest. khir. 93 no.8:91-92 Ag '64. (MIRA 18:7)

1. Iz onkologicheskogo otdeleniya (zav. - kand. med. nauk L.A. Durnov) i patologoanatomicheskogo otdeleniya (zav. - kand. med. nauk V.M.Afanas'yeva) 1-y Moskovskoy detskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR N.S.Bonova).

DURNOV, L.A.

Treatment of malignant tumors of the kidneys in children. Vop. onk. 11 no.4:110-115 '65. (MIRA 18:8)

1. Iz Instituta klinicheskoy i eksperimental'noy onkologii (direktor - deystvitel'nyy chlen AMN SSSR prof. N.N.Blokhin) i 1-y detskoy gorodskoy klinicheskoy bol'nitsy Moskvy (glavnyy vrach - zasluzhennyy vrach RSFSR N.S.Bonova).

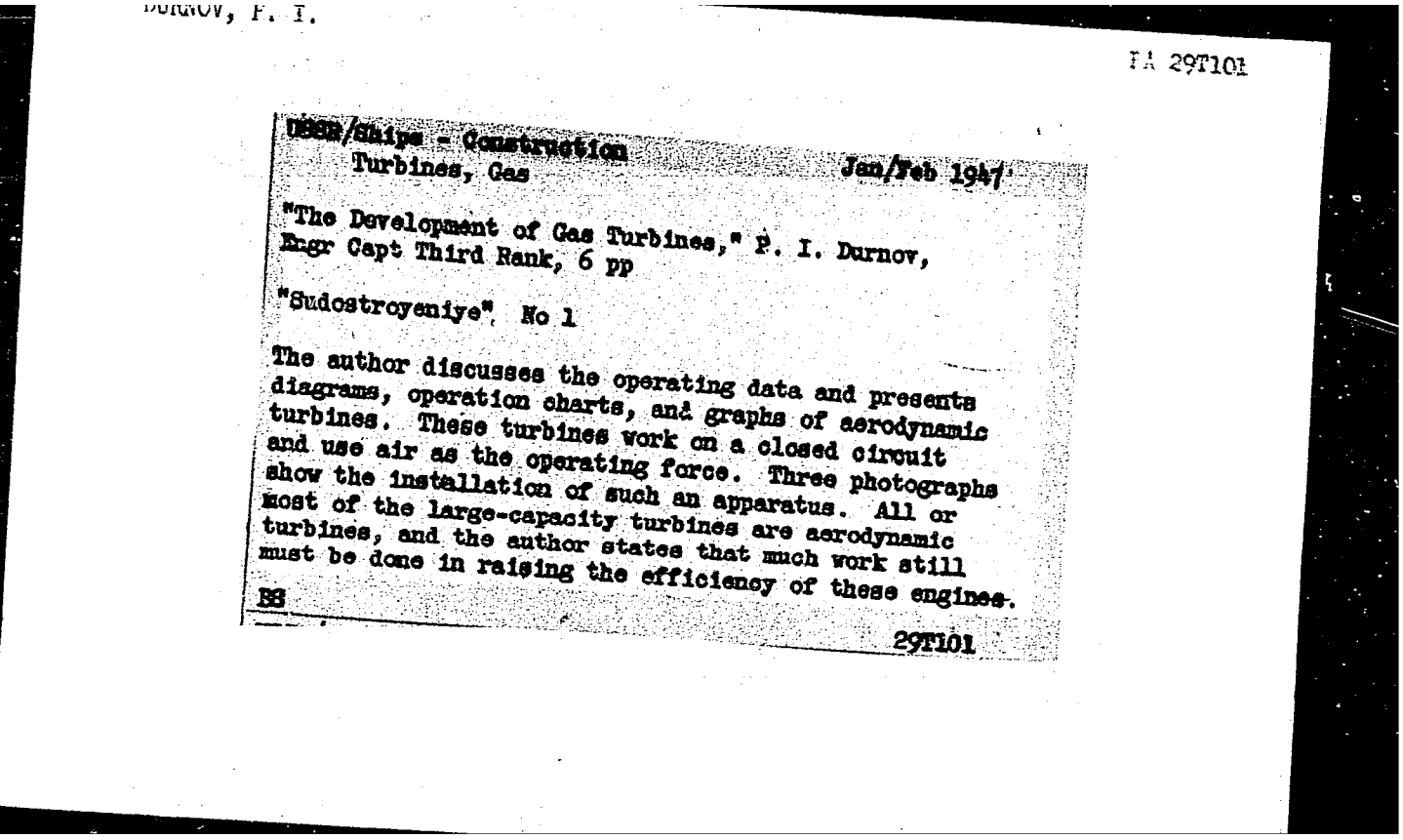
DURNOV, M., Eng.

Conference for exchange of work practice in the field of safety engineering and the protection of labor on constructions of hydro-electric stations. Biul. stroi. tekh. 9, No 16, 1952.

DURNOV N.V.

DURNOV, N.V.

Device for cleaning corrosion and dirt from metal surfaces. Rats. i izobr. predl. v stroi. no.103:21-22 '54. (MLRA 8:11)
(Machine-shop practice)



DURNOV, P. I.

TA 29T101

USSR/Ships - Construction Jan/Feb 194?
Turbines, Gas

"The Development of Gas Turbines," P. I. Durnov, Engr Capt Third Rank, 6 pp

"Sudostroyeniye" No 1

The author discusses the operating data and presents diagrams, operation charts, and graphs of aerodynamic turbines. These turbines work on a closed circuit and use air as the operating force. Three photographs show the installation of such an apparatus. All or most of the large-capacity turbines are aerodynamic turbines, and the author states that much work still must be done in raising the efficiency of these engines.

BB

29T101

DURNOV, Petr Ivanovich; ALEKSAPOL'SKIY, D.Ya., dotsent, retsenzent; RAFALES, E.E., dotsent, retsenzent; PARSHCHIK, S.A., dotsent, retsenzent; ROZOVSKIY, I.L., dotsent, kand.tekhn.nauk, retsenzent; KONDAK, N.M., kand.tekhn.nauk, red.; ONISHCHENKO, M.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.red.

[Pumping and compressing machinery] Nasosy i kompressornye mashiny. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1960. 281 p. (MIRA 14:4)
(Pumping machinery) (Compressors)
(Fans, Mechanical)

DURNOV, V.

DURNOV, V.; MAR'INA, M.

Seminars at the All-Union Agricultural Exhibition. Nauka i pered. op. v sel'khoz. 8 no.1:36 Ja '58. (MIRA 11:2)
(Moscow--Agricultural exhibitions)

137-58-6-11354

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 14 (USSR)

AUTHORS: Babushkin, N.M., Miller, V.Ya., Durnov, V.K.

TITLE: Clinkering Fine Concentrates by Pelletizing and Subsequent Roasting (Okuskovaniye tonkoizmel'chennykh kontsentratov metodom okomkovaniya s posleduyushchim obzhigom)

PERIODICAL: Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chernykh metallov, 1957, Nr 3, pp 14-25

ABSTRACT: A fine-ground magnetite concentrate from the KMA ore dressing and concentrating plant is used to study the process of clinkering and roasting pellets (P). The chemical composition, in %, is as follows: Fe 56.16, FeO 23.92, Fe_2O_3 56.70, SiO_2 16.85, Al_2O_3 0.48, CaO 0.55, MgO 0.88, and S 0.037. The design of an experimental plant for roasting P is presented as is that of an experimental pilot plant for clinkering Fe ores and concentrates. It is shown that the roasting of fluxed P on belt-type machines is entirely possible. Production of solid fluxed P differs from that of unfluxed P in the need for generating a certain amount of liquid phase which affords a complete utilization of the lime and solidification of the P on roasting. The narrow

Card 1/2

137-58-6-11354

Clinkering Fine Concentrates by Pelletizing and Subsequent Roasting

temperature interval of incipient fusion and positive fusion of the mixture of concentrate and limestone makes it necessary to maintain strict adherence to roasting temperature schedules, since even an insignificant overheating of the P > 1200°C results in a strong fusion with one another and an impairment of reducibility. The maximum size of the limestone to be used as flux for P is $\leq$ 0.5 mm. Roasting of P on belt-type machines with application of solid fuel on the surface thereof presents significant shortcomings. Combustion of the fuel on the surface of the P is certain to cause overheating, which will result in fusion of portions of the surface. Nonuniform development of temperatures through the thickness of the bed has the same results.

A.Sh.

1. Ores--Processing 2. Pellets--Production

Card 2/2

FOFANOV, A.A., kand.tekhn.nauk; DURNOV, V.K., inzh.; PASHKEYEV, G.G., inzh.

Blast furnace smelting of a charge with partial removal of fines before charging into the furnace. Stal' 22 no.9: 783-785 S '62. (MIRA 15:11)

(Blast furnaces)

DURNOV, V.K.; BABUSHKIN, N.M.; PUSHKASH, I.I.; Prinimali uchastiye: KOLMOGOROV, A.V.; KLEPTSIN, V.G.; MASLENNIKOVA, E.G.; GORYACHEVA, A.V.; BARAKHVOSTOV, V.S.; RASIN, B.S.; ZEMLYAKOV, A.A.; BABOSHINA, G.V.

Distribution of the temperature of the hot blast in the tuyere passage of the blast furnace. Stal' 25 no.3:205-209 Mr '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki i Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Durnov, Babushkin, Pushkash).

ACC NR: AP6036873 SOURCE CODE: UR/0219/66/062/011/0080/0083

AUTHOR: Durnova, G. N.; Kaplanskiy, A. S.; Roshchina, N. A.

ORG: Scientific Research Institute of Medical and Biological Problems, Ministry of Public Health, SSSR (Nauchno-issledovatel'skiy isntitut mediko-biologicheskikh problem Ministerstva zdravookhraneniya SSSR)

TITLE: The phagocytic activity of leukocytes and cells of the reticuloendothelial system, and antibody production in mice kept under lowered pressure conditions

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 62, no. 11, 1966, 80-83

TOPIC TAGS: hypoxia, antibody, bacteriophage, mouse, circulatory system

ABSTRACT: Experiments were conducted to study the effect of hypoxic hypoxia on cellular and humoral immunity mechanisms in mice. Experiments showed that keeping mice in a pressure chamber at 576 mm Hg (equivalent to an altitude of 2000 m) for two weeks did not substantially affect cellular or humoral immunity. Antibody levels in the serum of experimental animals inoculated with typhoid vaccine two hr after leaving the pressure chamber were determined by the passive hemagglutination reaction. Phagocytic activity of leukocytes and the absorption capacity of RES cells were studied in nonimmunized animals after exposure to lowered pressure. A second group of experimental animals was exposed up to six hr daily (for 10 days)

Card 1/2 UDC: 612.273.2:612.017.1

ACC NR: AP6036873

to atmospehric pressure gradually reduced from 462 mm Hg to 330 mm Hg (4000—6500 m) in the course of the experiment. In this group of animals a definite, although slight, decrease in the antibody level in the blood was observed. The decrease in antibody production observed in mice repeatedly exposed to very low pressures may be connected with disrupted synthesis of immune proteins in the cells producing antibodies, or with a decrease in the number of these cells. The phagocytic activity of RES cells in this group remained unchanged. Orig. art. has: 1 table and 1 figure.

SUB CODE: 06/ SUBM DATE: 25Jul65/ ORIG REF: 006/ OTH REF: 011/
ATD PRESS: 5108

Card 2/2

DURNOVO, A.A.; POTAPOVSKIY, I.M. (Moskva)

Atrioventricular rhythm. Klin.med. 40 no.5:144-148 '62.
(MIRA 15:8)

1. Iz Moskovskoy gorodskoy klinicheskoy bol'nitsy No.67 (glavnyy vrach L.V. Petropol'skaya).
(ARRHYTHMIA) (ELECTROCARDIOGRAPHY)

VOLODIN, N.S.; BAGAYEV, I.S.; PENKINA, Ye.S.; DURNOVO, I.G.; KAFTANENKO, A.Ya.; LUK'YANOVA, G.N.; KOLESNIKOV, V.A.

Use of centralized vacuum evaporation cooling of a zinc electrolyte. TSvet. met. 38 no.6:33-39 Je '65. (MIRA 18:10)

PECHERSKAYA, A.G.; DURNOVO, I.G.; STENDER, V.V.

Potentials of lead and lead-silver anodes during electrolysis of aqueous solut9ons of zinc sulfate. Izv.AN Kazakh.SSR Ser.khim. no.3: 55-61 '49. (MLRA 9:8)

(Electrodes, Lead) (Zinc sulfate)

DURNOVO, P.P.

1. ZUBKOV, L. Ye.; DURNOVO, P. P. ; MISHENIN, Yu. V.

2. USSR (600)

4. Medical Instruments and Apparatus

7. Mechanization of laborious processes in the production of medical glassware. Med. prom. no. 6 1952.

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

DURNOVO, PAVEL SERGEEVICH.

Bar'ba so snegom i vodoi na zheleznykh dorogakh. /Fighting the snow and water on railroads/. Odobreno v kachestve ucheb. posobiia dlia tekhnikumov zhel-dor. transporta. Moskva, Transzheldorizdat, 1934. 283 p. illus. maps (I fold) Bibliography: p. /282/.
DLC: TF542.D87

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952. Unclassified.

DURNOVO, Pavel Sergeevich, ed.

Organizing repair and maintenance of the tracks; a textbook for railroad technical schools. Moskva, Transzheldorizdat, 1938. 675 p. (50-50912)

TF240.D8 1938

DURNOVO, Pavel Serbeevich.

Vosstanovlenie zheleznodorozhnogo puti [Restoration of railroad tracks]. Moskva Gos. transp. zhel-dor. izd-vo, 1943. 163 p. illus. (Bibliotechka vosstanovitelian zheleznykh dorog).

DLC: TF240.D82

Organizatsiia remonta i soderzhaniia puti. [Organization of repair and maintenance of tracks]. Odobreno v kachestve uchebnika dlia vtuzov zheldor. transporta. Moskva, Transzheldorizdat, 1938. 675 p. illus.

DLC: TF240.D8 1938

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

DURNOVO, P., prof.

Bulgarian railroads. Zhel. dor. transp. no.1:84-86 '47.
(MIRA 13:2)

(Bulgaria--Railroads)

DURNOVO, P.

Durnovo, P. "Length of track set aside for training purposes" (from an experiment of the Moscow Institute of railroad train engineers), Zh.-d. transport, 1948, No. 12, pp. 75-76

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

DURHOVO, P.S., professor.

Switching-in electric machinery to overhead lines. Put' i put. Khoz. no.3:17-18 Mr '57. (MLRA 10:5)
(Railroads--Maintenance and repair)
(Electric lines)

DURNOVSKIY, V.I.

BEREZKIN, P.N., inzh.; BONDIN, Ye.A., inzh.; GRIGOROV, G.Ya., inzh.; DURNOVSKIY, V.I., inzh.; KOZHEUROV, P.I., inzh.; MARTOV, Ya.G., inzh.; RAZSHIGAYEV, A.F., inzh.; RAYEVSKIY, S.A., inzh.; SAPOZHNIKOV, N.S., inzh.; TELIPAN, M.G., inzh.; CHEREMOVSKIY, Yu.I., inzh.; CHERNOV, D.A., inzh.; DUGINA, N.A., tekhn.red.

[ChTZ tractors] Traktory ChTZ. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 101 p. (MIRA 11:5)
(Tractors)

DURO, Lajos, dr.

"Psychology of acquiring the knowledge in the school" by D.N. Bogoyavlenskiy and N.A.Menchinskaya. Reviewed by Lajos Duro. Magy pszichol szemle 18 no.2:222-226 '61.

DURO, Lajos, dr.

"Psychology of acquiring historical knowledge by students" by A.Z. Redko. Reviewed by Lajos Duro. Magy pszichol szemle 19 no.4:489-491 '62.

DURO, Lajos, dr., kandidatus

Role of practical activities in the university training of teachers majoring in psychology. Magy pszichol szemle 20 no. 3:460-469 '63.

1. Jozsef Attila Tudomanyegyetem Nevelestudomanyi es Lelektani Intezete, Szeged.

DURO, Lajos, dr., kandidatus

Current tests in educational psychology in the Soviet Union.
Magy pszichol szemle 21 no.2:281-287 '64.

1. Institute of Education and Psychology, Attila Jozsef University Szeged, and Editorial Board Member, "Magyar Pszichologiai Szemle."

DURO, I Jos, dr., kandidatus

History of psychology and the present-day Western psychology.
Magy pszichol szemle 21 no.3:430-433 '64.

1. Attila Jozsef University, Szeged, and Editorial Board Member, "Magyar Pszichologiai Szemle."

DURO, M

Yugoslavia /Chemical Technology. Chemical Products and Their Application I-32

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32998

Author : Mikhelj Duro

Title : Fruit Preserve Products

Orig Pub: Nova trgovina, 1956, 9, No 7-8, 402-405

Abstract: A review article relating to the problems of the yugoslav canning industry in the task of processing fruit to semifinished products (pulp, fresh fruit juice, juices for jelly manufacture) and fruit products (dried fruits, marmelade, jam, stewed fruits, preserves, fruit powders, candied and glazed fruits).

Card 1/1

SOV/122-59-4-16/28

AUTHOR: Durodin, V.I., Candidate of Economic Sciences

TITLE: On the Application of Carbide Inserts in Cold Heading Dies (O primenenii tverdosplavnykh vstavok v kholodnovysadochnykh matritsakh)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 4, pp 62-64 (USSR)

ABSTRACT: Experience at the Elektro-Mechanical "Dinamo" Works imeni Kirov in Moscow shows that, for cold headed brass fastenings, type L62 brass should be used (high ductility) and any phosphorus content should be avoided. The limiting deformations for different materials cold headed in a single operation are listed (Table 1). The service life of the tools has been greatly extended by the use of carbide inserts, pressed into the die body at a temperature of 350 - 400 °C. Adequate material surrounding the insert is essential. Although the tools are more expensive, the cost of bolt production was reduced by about 30%. Examples of built-up inserts are illustrated (Fig 5) which yield less expensive tools, but can easily lead to cracking of the die body. A better built-up insert design developed by the Imeni Likhachev Works is also shown (Fig 3), claimed to avoid this danger.

Card 1/2

SOV/122-59-4-16/28

On the Application of Carbide Inserts in Cold Heading Dies

Some details of design are given.
There are 3 figures and 2 tables.

Card 2/2

DURON,O.; BUZEK,Z.

Intensification of the melting down in 25-ton capacity arc furnaces with coke gas-oxygen burners. Sbor VSB Ostrava 9 no.1:59-66'63.

ZANDBERG, Krystyna; DUROS, Halina

Delivery of a full-term fetus in a case of cured listerial in-. fection.. Pol. tyg.lek. 18 no.42:1571-1572 '14.0'63

1. Z Kliniki Poloznictwa i Chorob Kobiecych (kierownik: prof. dr.med. Jan Lesinski) i z Zakladu Mikrobiologii i Immunologii (konsultant: prof. dr. med. Franciszek Groer - Instytutu Matki i Dziecka w Warszawie).

DUROS-KAWECKA, HALINA

FLECK, Ludwik; DUROS-KAWECKA, Halina; GRUNWALD, Leonora

Epidemiological application of serology of Corynebacterium diphtheriae. Postepy hig. med. dosw. 11 no.2:151-160 1957.

1. Cecylia Stankiewicz oraz A. Szymanczyk, A. Porebska, K. Zemburowa Zaklad Mikrobiologii Immunologii Instytutu Matka i Dziecka. Warszawa, ul Kasprzaka 17.

(CORYNEBACTERIUM DIPHTHERIAE, immunology, review (Pol))

DUROSKA, Ladislav, inz.

Transistors in Czechoslovak television sets. Tech praca 16 no.10: 831 O '64.

DUROV, A.

Comprehensive study of Vologda Province. Volog. krai no.3:180-181 '62. (MIRA 16:12)

DUROV, A. G.

ISAKOV, I.S., prof., admiral flota, otv.red.; PETROVSKIY, V.A., dotsent, kand.voyenno-morskikh nauk, kontr-admiral, red. [deceased]; DEMIN, L.A., dotsent, kand.geograf.nauk, inzh.-kapitan 1 ranga, glavnyy red.; BARANOV, A.N., red.; BERG, L.S., akademik, inzh.-mayor, red.; BOLOGOV, N.A., dotsent, kontr-admiral v otstavke, red.; VITVER, I.A., professor, doktor geograf.nauk, red.; GRIGOR'YEV, A.A., akademik; YEGOR'YEV, V.Ye., zasluzhennyy deyatel' nauki, prof., doktor voyenno-morskikh nauk, kontr-admiral v otstavke, red.; ZIMAN, L.Ya., prof., red.; ZUBOV, N.N., prof., doktor geograf. nauk, inzh.-kontr-admiral v otstavke, red.; KAVRAYSKIY, V.V., prof., doktor fiziko-mat.nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., prof., doktor geograf.nauk, red.; KUDRYAVTSEV, M.K., general-leytenant tekhn.voysk, red.; LAMYKIN, S.M., kapitan 1 ranga, red.; MATUSEVICH, N.N., zasluzhennyy deyatel' nauki i tekhniki, prof., doktor fiziko-mat.nauk, inzh.-vitse-admiral v otstavke, red.; [deceased]; MESHCHANINOV, I.I., akademik, red.; MILENKI, S.G., red.; ORLOV, B.P., prof., doktor geograf.nauk, red.; PANTELEYEV, Yu.A., vitse-admiral, red.; SNEZHINSKIY, V.A., dotsent, kand.voyenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SALISHCHEV, K.A., prof., doktor tekhn.nauk, red.; TRIBUTS, V.F., admiral, red.; FOKIN, V.A., vitse-admiral, red.; SHVEDE, Ye.Ye., prof., doktor voyenno-morskikh nauk, kontr-admiral, red.; SHULEYKIN, V.V., akademik, inzh.-kapitan 1 ranga, red.; PAVLOV, V.V., inzh.-polkovnik, red.; VOLKOV, F.G.,

(Continued on next card)

ISAKOV, I.S.---(continued) Card 2.
podpolkovnik, pomoshchnik glavnogo red. po izd-vu; SEDOV, N.Ye., kapitan 2 ranga, uchenyy sekretar'; VOROB'YEV, V.I., kapitan 1 ranga, red.kart; MIGALKIN, G.A., inzh.-kapitan 1 ranga, red.kart; GAPONOVA, A.A., red.kart; GONCHAROVA, A.I., red.kart; GORBACHEVA, N.Ye., red.kart; GRYUNBERG, G.Yu., red.kart; DUROV, A.G., red. kart; YERSHOV, I.B., red.kart; ZIL'BERSHER, A.B., red.kart; KASTAL'SKAYA, N.I., red.kart; KUBLIKOVA, M.M., red.kart; MAKAROVA, V.N., red.kart; MOROZOVA, A.F., red.kart; PAVLOVA, Ye.A., red. kart; POCHUBUT, A.N., red.kart; ROMANOVA, G.N., red.kart; SMIRNOVA, L.V., red.kart; SMIRNOVA, L.N., red.kart; TANANKOVA, A.I., red. kart; YANEVICH, M.A., red.kart; YASINSKAYA, L.F., red.kart; VASIL'YEVA, Z.P., tekhn.red.; VIZIROVA, G.N., tekhn.red.; GOLOVANOVA, A.T., tekhn.red.; GOROKHOV, V.I., tekhn.red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn.red.; CHERNOGOROVA, L.P., tekhn.red.; FURAYEVA, Ye.M., tekhn.red.

[Marine atlas] Morskoi atlas. Otv.red. I.S. Isakov. Glav.red. L.A. Demin. Izd. Morskogo general'nogo shtaba. Vol.1 [Navigation geography] Navigatsionno-geograficheskii. Zamestitel' otv. red. po I tomu V.A. Petrovskii. 1950. 83 maps. (MIRA 12:1)
(Continued on next card)

ISAKOV, I.S.---(continued) Card 3.
1. Russia (1923- U.S.S.R.) Voyenno-morskoye ministerstvo.
2. Nachal'nik Morskogo kartograficheskogo instituta voyenno-morskikh sil (for Lamykin). 3. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov). 4. Nachal'nik Gidrograficheskogo upravleniya voyenno-morskikh sil (for Tributa). 5. General'nyy gosudarstv. direktor topograficheskoy sluzhby (for Baranov). 6. Direktor topograficheskoy sluzhby (for Milenki).
(Ocean--Maps) (Harbors--Maps)

DUROV, A.G.

DUROV, A. G.

"Political Map of the World(Editing, Procedure for Compilation, and Preparation for Publishing)." Cand Geog, Leningrad State U, Leningrad, 1954. (RZhGeol, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

DUROV, A.G.

KALESNIK, S.V., red.; DUROV, A.G., red.; BABKOV, I.I., red.; BORISOV, A.A., red.; ZOLOTNITSKAYA, N.L., red.; MAVRODIN, V.V., red.; MALYSHEV, M.O., red.; SHIBANOV, F.A., red.; KELAREV, L.A., red.izd-va; SEMENOVA, A.V., tekhn.red.

[St.Petersburg - Leningrad; a historicogeographical atlas] Peterburg - Leningrad; istoriko-geograficheskii atlas [Leningrad]. Pt.1. 1957. 54 p. (MIRA 11:4)

1. Leningrad. Universitet.
(Leningrad - Maps)

DUR... A.G.

AUTHOR: ~~Durov, A.G.~~ SOV-12-90-4-21/22

TITLE: Historical Geographical Atlas Petersburg - Leningrad (Istoriko-geograficheskiy atlas Peterburg - Leningrad)

PERIODICAL: Izvestiya Vsesoyuznogo geograficheskogo obshchestva, 1958, Vol 90, Nr 4, p 404 (USSR)

ABSTRACT: The first volume of this atlas is on sale. It includes maps of Leningrad from its foundation up to the October revolution.

1. Geography--USSR 2. History--USSR

Card 1/1

DUROV, A.G.

Russian geographical names in the Pacific Ocean, Alaska, and Aleutian Islands. Geog.sbor. no.13:155-182 '59.
(MIRA 12:6)

(Pacific Ocean--Names, Geographical)
(Alaska--Names, Geographical)
(Aleutian Islands--Names, Geographical)

DUROV, A.G.

In close cooperation with the national economy of the country; cartography in the Leningrad University Institute for Research in Economic Geography. Vest. LGU 15 no.18:157-160 '60.
(MIRA 13:9)

(Cartography)

DUROV, A.G.

Geographical significance of V.IA.Struve's work. Izv. Vses. geog. ob.-va 97 no.2:191-194 Mr-Ap '65. (MIRA 18:5)

DUROV, A.T.

AKATOV, S.K., inzhener; IKOTOV, N.N., inzhener; DUROV, A.T., inzhener.

Effective mechanization of inter-plant loading and transporting opertaions. Mekh.trud.rab. 7 no.10:14-16 O-N '53. (MLRA 6:10)

(Loading and unloading)

DUROV, A. V.

Durov, A. V.

"Investigation of conic-extraction equipment for narrow-gauge forest locomotives."" Min Higher Education USSR. Moscow Forestry Engineering Inst. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizhnaya letopis'
No. 25, 1956. Moscow

DUROV, A.V., inzh.

Achievements of Chelyabinskugol' Combine miners. Shakht. stroi. 9 no.3:20-22 Mr '65. (MIRA 18:7)

1. Shakhta "Kapital'naya" No.29 kombinata Chelyabinskugol'.

DUROV, I. S.

Durov, I. S. - "A hanging bridge with a reinforced-concrete support girder. The selection of the optimal height of the girder and of the chain cross-section", Trudy Novocherkas. plitekhn. in-ta im. Ordzhonikidze, Vol. XXI, 19[illegible], p. 77-92.

SO: U-4631, 16 Sept.53, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

DUROV, I.S., dotsent, kandidat tekhnicheskikh nauk.

Computing shrinkage in reinforced concrete structures. Nauch. trudy NPI 26:87-91 '55. (MLRA 9:12)
(Concrete)

SOV/124-58-10-11751

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 144 (USSR)

AUTHOR: Durov, I. S.

TITLE: On the Problem of Strain Determination in the Stiffener Girder of Suspension Systems (K voprosu opredeleniya usiliy v balke zhestkosti visyachikh sistem)

PERIODICAL: Nauchn. tr. Novocherk. politekhn. in-t, 1955, Vol 29 (43), pp 79-84

ABSTRACT: An asymmetric suspension system with a stiffener girder is investigated. Support reaction, bending moment, and transverse force are determined in any cross section of the girder for the case of a single-span continuous stiffener girder. It is shown that the stresses in the stiffener girder of asymmetric systems do not depend (other things being equal) upon the location of the supporting points of the system and that for determination of the stresses in the stiffener girder of asymmetrical systems it is advisable to use a substitute system, namely, a symmetrical one with all its supports located on the same level.

Card 1/1

I. Ye. Dyshler

1. Novocherkasskiy Politekhnicheskiy institut, Kafedra

VORONTSOV, Georgiy Vasil'yevich, dots., kand. tekhn. nauk; VESELOVSKIY, G.V., dots., red.; ZARIF'YAN, A.Z., dots., red.; DUROV, I.S., dots., red.

[Free and forced vibrations of rods and frames] Svobodnye i vynuzhdennye kolebaniia sterzhnei i ram. Novocherkassk, Redaktsionno-izdatel'skii otdel NPI, 1963. 11 p. (MIRA 17:1)

1. Novocherkassk. Politekhnicheskiy institut.

DUROV, I.S.; MURZENKO, Yu.N.

Experience in the production of precast reinforced concrete trusses with an 18m span. Trudy NPI 147:3-9 '63. (MIRA 17:3)

DUROV, I.S.; KRASULIN, N.N.; IONIN, S.N.

Experimental study of panels for apartment houses. Trudy NPI 147: 11-16 '63. (MIRA 17:3)

KHOPERSKIY, V.F.; KRASNOPOL'SKAYA, N.A.; DUROV, I.S.

Using sawed shell limestones from the Burlatskoye open-cut mine in Stavropol Territory for laying walls of wine storage tanks. Trudy NPI 147:17-26 '63. (MIRA 17:3)

DUROV, I.S.

Calculation of the deformation of multispan suspension bridges with sandwich stiffening girders along the influence lines. Trudy NPI 147:83-86 '63. (MIRA 17:3)

DUROV, I.Ya.

Manufacture of cupola firebrick by the soft mud process. Ogneupory 29 no.11:523-524 '64. (MIRA 18:1)

1. Konstantinovskiy ogneupornyy zavod "Krasnyy Oktyabr'".

DUROV, M. F. (Stalinsk)

Primary plastic surgery of defects of the dura mater using deiodized umbilical plates. Vop. neirokhir. no.6:58-59 '61. (MIRA 14:12)

1. Kafedra travmatologii i ortopedii Instituta usovershenstvovaniya vrachey.

(DURA MATER—SURGERY) (UMBILICUS—TRANSPLANTATION)

SELIVANOV, V.P.; DUROV, M.F.

Two cases of supratrochanteric dislocations of the hip. Ortop., travm. i protez. 26 no.2:69 F '65. (MIRA 18:5)

1. Iz kafedry travmatologii i ortopedii (zav. - prof. L.G.Shkol'nikov) Novokuznetskogo instituta usovershenstvovaniya vrachey (rektor - dotsent G.L.Starkov). Adres avtora: Novokuznetsk, Kemerovskoy obl. Pervaya gorodskaya klinicheskaya bol'nitsa, travmatologicheskoye otdeleniye No.1 (for Selivanov).

CZECHOSLOVAKIA

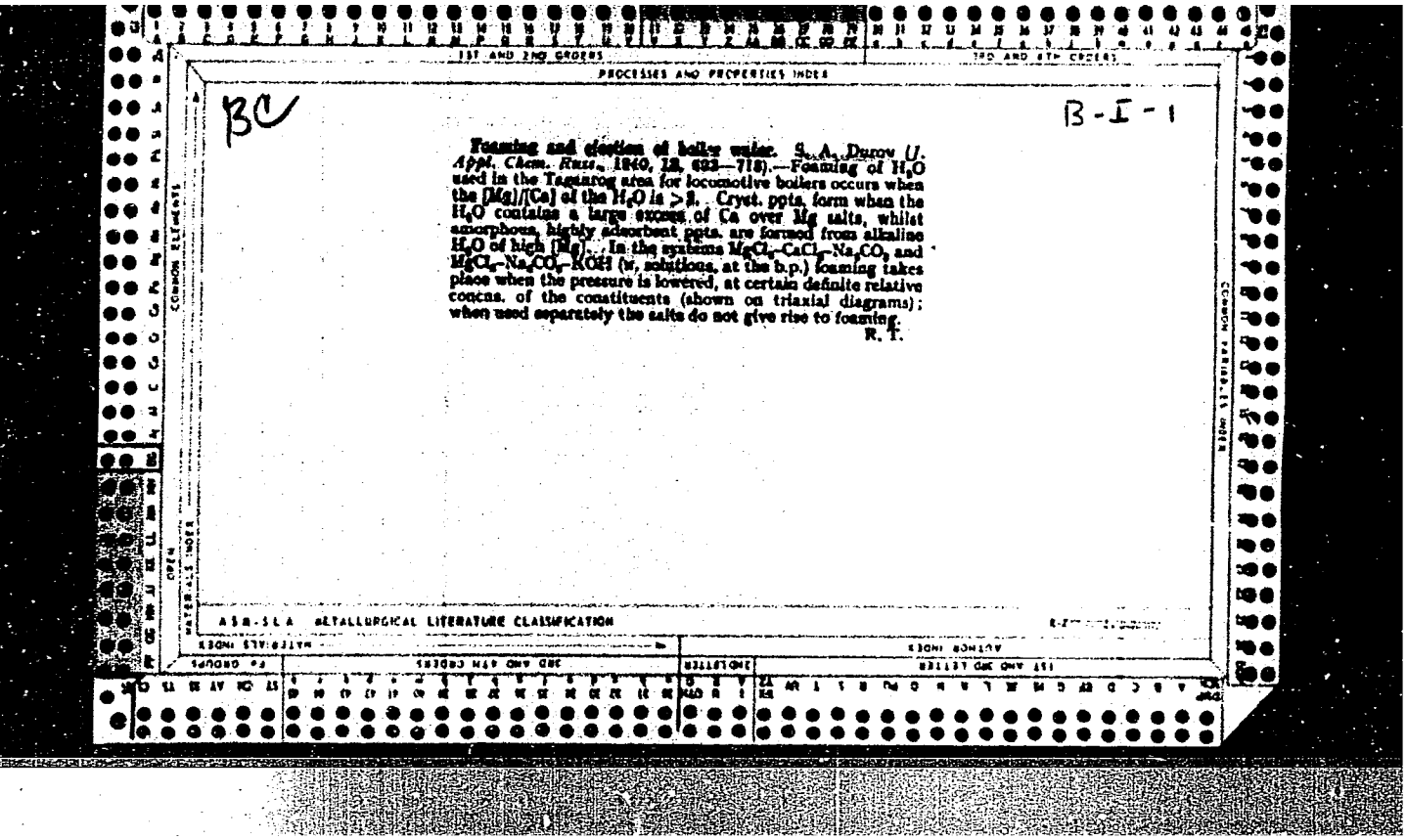
DUROV, S.

Prague, Vestnik Ustredniho Ustavu Geologickeho, No 1, 1963, pp 31-34

"Application of Geometrical Diagrams in Hydro-Chemistry."

DUROV, S. A.

Determination of sulfates in boiler water by an accelerated method. S. A. Durov and O. F. Titrova. *Teplo-Silovoe Khoz.* 1939, ~~No. 8, 42-4~~; *Khim. Referat. Zhur.* 1939, No. 7, 65-6.—Numerous methods for rapid detn. of SO_4^{--} were investigated. The chromate methods are unsuitable, owing to the high content of org. substances in boiler water. The plumbate method of Mindalev (cf. *C. A.* 23, 1080) is not sufficiently accurate. The benzidine method is entirely satisfactory for a rapid detn. of SO_4^{--} under lab. conditions as well as under plant conditions of boiler water analysis. W. R. Henn

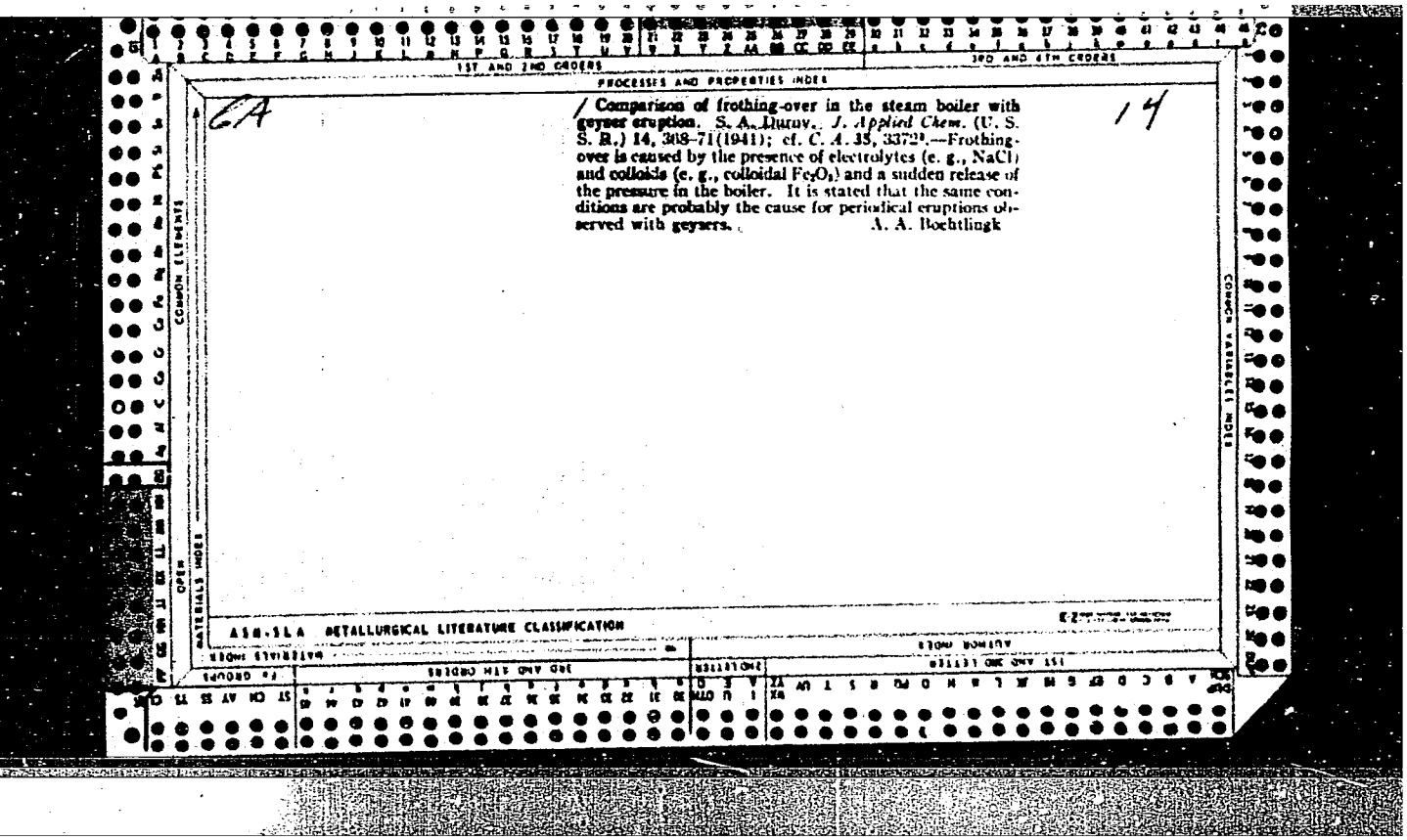


BC

B-I-1

Foaming and elution of boiler water. S. A. Durov *U. Appl. Chem. Russ.*, 1940, 13, 693—718).—Foaming of H_2O used in the Tagaarog area for locomotive boilers occurs when the [Mg]/[Ca] of the H_2O is >3. Cryst. ppts. form when the H_2O contains a large excess of Ca over Mg salts, whilst amorphous, highly adsorbent ppts. are formed from alkaline H_2O of high [Mg]. In the systems $MgCl_2$–$CaCl_2$–Na_2CO_3 and $MgCl_2$–Na_2CO_3–KOH (*n*, solutions, at the b.p.) foaming takes place when the pressure is lowered, at certain definite relative concns. of the constituents (shown on triaxial diagrams); when used separately the salts do not give rise to foaming.

R. T.



CA 14

Comparison of frothing-over in the steam boiler with geyser eruption. S. A. Ilunov. *J. Applied Chem.* (U. S. S. R.) 14, 368–71(1941); cf. *C. A.* 35, 3372⁹.—Frothing-over is caused by the presence of electrolytes (e. g., NaCl) and colloids (e. g., colloidal Fe_2O_3) and a sudden release of the pressure in the boiler. It is stated that the same conditions are probably the cause for periodical eruptions observed with geysers. A. A. Bochtlingk

DUROV, S. A.

Determination of the total content of hydrogen sulfide and dissolved oxygen in waters. S. A. Durov and M. P. Turzhova. *Gidrokhim. Materialy* (Hydrochem. Materials) 13, 109-19(1947).—When there is a large excess of H_2S in waters the detn. of free O by Winkler's method may be carried out according to the described modification of the I test. It was found that free O may coexist in aq. soln. with free H_2S for 2-3 hrs. Gladys S. Macy

Influence of a mixture of sodium chloride and sulfate on the frothing carry-over of boiler water. S. A. Durov. *Gidrokhim. Materialy* (Hydrochem. Materials) 13, 120-3 (1947).—Values of frothing carry-over of boiling solns. of a mixt. of NaCl and Na_2SO_4 from an Fe flask were detd. (*C.A.* 35, 3372⁴). The mixt. of salts has a greater effect upon frothing than that expected from the additivity principle. The lab. exptl. data are in agreement with observations made in industry. Tables giving the compns. of mixts. used are given. Gladys S. Macy

DUROV, S.A.

Durov, S.A. "Classification of natural waters," (reference), Soobshch. o nauch. rabotakh chlenov Vsesoyuz. khim. o-va im. Mendeleyeva, 1948, Issue 2, p. 28-30

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

DUROV, S.A.

The genesis of natural waters. Trudy Lab. Gidrogeol Problem. im. F.P. Savarenskogo, Akad. Nauk S.S.S.R. 3, 104-13 '48. (MLRA 3:2)
(CA 47 no.20:10773 '53)

Assoc/w. Lab. Hydrogeol. Problems, AS USSR.

DUROV, S. A.

Fiziko-khimicheskie osnovy penistogo perebrosa kotlovoi vody. Moskva, 1948. 189 p. diagrs.

At head of title: Akademiia nauk SSSR. Gidrokhimicheskii institut.

Bibliography: p. 182-(188)

Physical and chemical basic processes of the foaming overflow of boiler feed water.

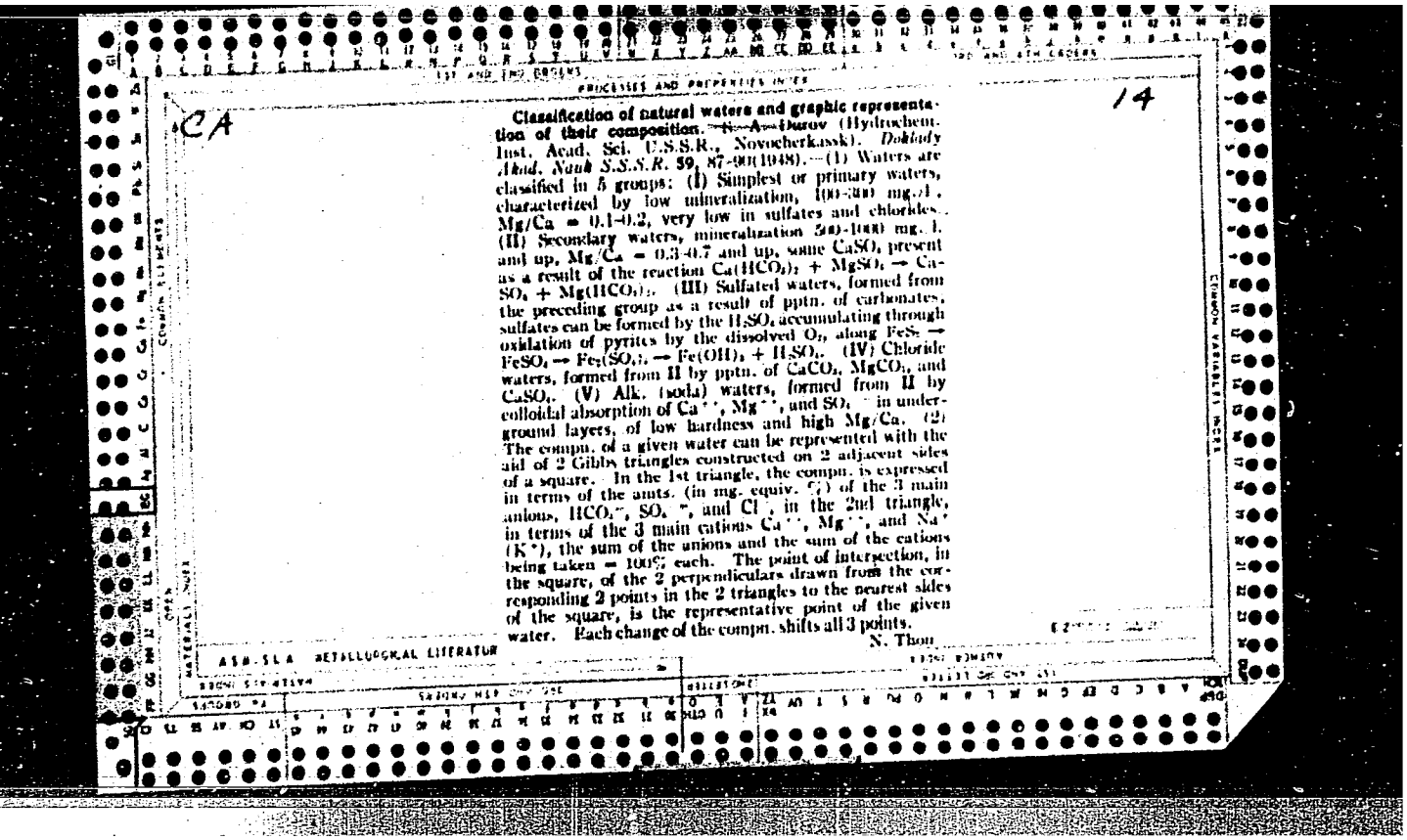
DLC: TJ288.D8

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

DUROV, S. A.

Durov, S. A. - "The use of the statistical method in the solution of hydrochemical problems, particularly for explaining the causes of corrosion of smoke piping", Trudy Novocherkas. politekhn. in-ta im. Ordzhonikidze, Vol. XIX, 1948, p. 3-14, - Bibliog: 5 items.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).



CA

14

Classification of natural waters and graphic representation of their composition. —N. A. Barov (Hydrochem. Inst., Acad. Sci. U.S.S.R., Novocherkassk). *Doklady Akad. Nauk S.S.S.R.* 59, 87-90(1948).—(I) Waters are classified in 5 groups: (I) Simplest or primary waters, characterized by low mineralization, 100-300 mg./l., $Mg/Ca = 0.1-0.2$, very low in sulfates and chlorides. (II) Secondary waters, mineralization 300-1000 mg./l. and up, $Mg/Ca = 0.3-0.7$ and up, some $CaSO_4$ present as a result of the reaction $Ca(HCO_3)_2 + MgSO_4 \rightarrow CaSO_4 + Mg(HCO_3)_2$. (III) Sulfated waters, formed from the preceding group as a result of pptn. of carbonates, sulfates can be formed by the H_2SO_4 accumulating through oxidation of pyrites by the dissolved O_2, along $FeS_2 \rightarrow FeSO_4 \rightarrow Fe_2(SO_4)_3 \rightarrow Fe(OH)_3 + H_2SO_4$. (IV) Chloride waters, formed from II by pptn. of $CaCO_3$, $MgCO_3$, and $CaSO_4$. (V) Alk. (soda) waters, formed from II by colloidal absorption of Ca^{++}, Mg^{++}, and SO_4^{--} in underground layers, of low hardness and high Mg/Ca. (2) The compn. of a given water can be represented with the aid of 2 Gibbs triangles constructed on 2 adjacent sides of a square. In the 1st triangle, the compn. is expressed in terms of the amts. (in mg. equiv. %) of the 3 main anions, HCO_3^-, SO_4^{--}, and Cl^-, in the 2nd triangle, in terms of the 3 main cations Ca^{++}, Mg^{++}, and Na^+ (K^+), the sum of the anions and the sum of the cations being taken = 100% each. The point of intersection, in the square, of the 2 perpendiculars drawn from the corresponding 2 points in the 2 triangles to the nearest sides of the square, is the representative point of the given water. Each change of the compn. shifts all 3 points.

N. Thon

DUROV, S. A.

Durov, S. A. - "The use in hydrochemistry of paired tetrahedral diagrams", (Report), Soobshch. o nauch. rabotakh chlenov Vsesoyuz. khim. o-va im. Mendeleyeva, 1949, Issue 2, p. 16-17.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

DUROV, S. A.

USSR/Chemistry - Water
Solubility

May 49

"Third Conference on Hydrochemistry," P. A. Kashinskiy, S. A. Durov, Doctors Chem Sci, 3½ pp

"Vest Ak Nauk SSSR" No 5

Proposes entended research in subject field, particularly in study of methods for measuring alkalinity of water, and of appraisal of available literature on the solubility of calcium carbonate and calcium sulfate in water.

PA 50/49T28

DUROV, S. A.

Triangular chart of the results of water analyses and its use in the classification of natural waters. S. A. Durov (Hydrochem. Inst. Acad. Sci. U.S.S.R., Novocherkassk). *Gidrokhim. Materialy (Hydrochem. Material)* 10, 84–6 (1940).—Construction of the chart is explained on the basis of individual analyses of water. Eighteen graphical combinations are given for 18 types of natural waters. All types of natural waters are divided into 5 classes. B. Z. K.

*Unit of Mechanical Hydrochemistry

DUROV, S. A.

Twin-tetrahedron diagram of the composition of natural waters. S. A. Durov (Hydrochem. Inst., Acad. Sci. U.S.S.R., Novocherkassk). *Izvest. Sektora Fiz.-Khim. Anal., Akad. Nauk S.S.S.R.* 20, 238–51(1950).—For graphic presentation of the content of ions and salts in natural waters usually contg. 6 ions (Mg, Ca, Na + K, HCO_3^-, SO_4^{--}, and Cl^-) capable of combining into 9 salts 2 tetrahedrons are suggested, one for the cations and one for anions. The corners of the triangular base are occupied by 3 ions, and the apex is occupied by pure H_2O. The points on the faces and inside the tetrahedron can be projected on a plane. Two projections are needed to represent all the points To avoid a 4-dimensional figure resulting from combining 2 tri-dimensional tetrahedrons, it is suggested to use an orthogonal projection of the 2 tetrahedrons to form a 4-face pyramid. For practical use this 3-dimensional figure is projected on a plane. The construction and projection of the diagram is discussed and its use is illustrated on actual samples of spring, river, and lake waters.

M. Hoseh

CA

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Character of sulfate accumulation in the waters of Salak steppe ponds. S. A. Durov. *Doklady Akad. Nauk S.S.S.R.* 73, 67–9(1950).—Distribution diagrams are presented showing the relative contents of sulfate ions in waters from the ponds, wells, and rivers of the region. Pond waters are characterized by high sulfate levels; in comparison with well waters, Na predominates over Ca while Mg is held rather const. at 20–30% of the well level. At total mineralization of 80 milliequivs./l., the ratio of sulfate/Cl is 1.5, or higher. G. M. Kosolapoff

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"Evaluation of Blowing of Boilers as a Method for Combating Foaming of Boiler Water," S. A. Durov, Ya. M. Nemirovskiy, N. G. Fesenko, Hydrochem Inst, Acad Sci USSR

"Zhur Prik Khim" Vol XXI, No 9, pp 989-992

Investigation of ability of boiling solns to form foam by method of foam entrainment shows that mixts of electrolytes act much more strongly than calcns by rule of additivity show. Inorg colloids with both pos and neg charges have foam-forming action. Constructed diagram of form entrainment for ternary

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system of electrolytes characteristic for boiler water in iron boilers. Existing method for control of blowing of boilers by chloride or total salt content in boiler water must be replaced by more rational detn of tendency toward foam-formation from diagrams of ternary (or quaternary) systems.

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Connection between the surface sulfate waters and the alkaline deep waters. ~~S. A. Durov.~~ *Doklady Akad. Nauk S.S.S.R.* 77, 641-4(1951); cf. *Trudy Sarmatskoi Gidrogeol. Lab.* 3, 104(1948).—Examn. of ground H_2O in Southern U.S.S.R. (near Caucasus) shows many locations in which artesian depth H_2O is rich in Na ions, very low in SO_4, and rather rich in Cl. In accord with previous hypothesis, the above results show the "loss" of bivalent ions, such as SO_4, Ca, and Mg, by colloidal adsorption. This hypothesis explains the similar phenomenon in Essentuki region, where the explanation in terms of bacterial reduction of SO_4 cannot apply because of the apparent absence of a suitable nutrient medium for the bacteria and because of lack of evidence for H_2S generation which would accompany such a process. The general principle is also found in the entire area of upper Caucasian region and in some steppes of Western Siberia.

G. M. Kosolapoff

1951

CA

General Problems
Chemistry-12

Genesis of the salt composition of river water. S. A. Durgy. *Doklady Akad. Nauk S.S.S.R.* 81, 875-8(1951).—The origin of the salt ingredients of waters of the Volga, Don, and other large rivers was considered. The bicarbonate contents of these waters seem to be a result of the solubilizing action of carbonic acid on limestone and dolomites. It is assumed that the sulfates of Mg, Ca, and Na are of purely continental origin and appear as a result of oxidations of pyrites and other sulfides. The following analytical data are given for 6 large Russian rivers: (1) contents of Ca and Mg bicarbonates, (2) content of salt of relic sea water, (3) content of sulfates of continental origin, and (4) contents of $CaSO_4$, $MgSO_4$, and Na_2SO_4. O. S. M.

DUROV, S. A.

Origin of salt accumulation in the waters of the smaller rivers of Ukraine. S. A. Durov (Hydrochem. Inst., Acad. Sci. U.S.S.R., Novocherkassk). *Doklady Akad. Nauk S.S.S.R.* 84, 1005–8(1952).—The chem. characteristics of the river waters in Ukraine are detd. by the geographic distribution zones of loess soils in areas of variable moisture degrees, of loess-steppe, and pure steppe soils, which have an arid type. The lowest concn. in Mg^{2+}, Ca^{2+}, Na^{+}, SO_4^{2-}, and Cl^{-} is found in the Pripyat basin. Bicarbonate and sulfate waters also show a distinct regional distribution over wide ranges of concn. (from 10 to more than 1000 mg./l.); the highest concns. are observed in the Stalino region. These rather complex conditions are well demonstrated in graphic projections of the concns. in Mg^{2+}-Na^{+}-Ca^{2+}; Cl^{-}-SO_4^{2-}-HCO_3^{-} diagrams, and the "salt quadrate" with the diagonal $NaCl$-$Ca(HCO_3)_2$. There are distinct transitions from the low-mineralized bicarbonate waters to sulfate and chloride waters, which are approximating the sea-water type in their chem.-compn. character. Typical gypsum waters are practically absent. The sulfate waters, on the other hand, are originating from the exchange of Ca^{2+} and HCO_3^{-} ions with Mg^{2+} and Na^{+}, but gypsum is always subordinate, e.g. in the waters of R. Kuban and the ponds of the Sal'ska steppe. Among the carbonates, $CaCO_3$ (with 70–90%) and $MgCO_3$ (with 10–30%) are predominant. Extensive analytical data are given for the 3 characteristic classes of river-water compn. Sulfate waters frequently occur in mine waters from the coal mines of the Don Bassin. Pyrite is abundantly associated with coal seams. FeS_2 is also enriched in the multicolored clays of the Chernigov District while the Chasov-Yar clays contain concretions of loewigite ($K_2Al_2(SO_4)_4(OH)_{12}$), similar to the jarosite ($K_2Fe_6(SO_4)_4(OH)_{12}$) nodules of the N. Caucasus, as reaction products of H_2SO_4 (from oxidized pyrite) with sedimentary material. W. Ditel

Chemical Abst.
Vol. 48
Apr. 10, 1954
Water, Sewage, and Sanitation