S/081/62/000/006/072/117
B149/B108

AUTHORS: Chertorizhskiy, A. V., Frid, M. N.

TITLE: The purification of gaseous products of hydrocarbon pyrolysis from sulfur compounds

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 532, abstract 6M181 (Vestn. tekhn. i ekon. inform. N.-i. in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR i khimii, no. 2, 1961, 34 - 36)

TEXT: The addition of small amounts of 40% NaOH (0.3 - 0.5%) to the circulating water is proposed for the purification from H_2S of gaseous products of crude petroleum pyrolysis used in ethyl alcohol manufacture. The water is circulated through the scrubber columns and tempering apparatus for washing and cooling the gas (NaOH is added to one of the settling tanks in operation). The H_2S content is decreased from 100 to 0-4 mg/nm^3 in the final gas and the working costs are lower than that of other methods of purification. The consumption of NaOH at its mean concentration of

Card 1/2

S/081/62/000/006/072/117
B149/B108

The purification of ...

0.4% in the circulating water, calculated on 82% product, is 6.5 - 9.0 tons per month. The shortcomings of the method are the quite insufficient decrease of sulfoorganic impurities in the gas (mercaptan content decreased from 50 mg/nm^3 to 40 - 45 mg/nm^3) and the formation of insoluble and soluble sulfides in the circulating water, promoting stabilization of hydrocarbon emulsions. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/006/099/117
B162/B101

AUTHORS: Dorogochinskiy, A. Z., Bashilov, A. A., Chertoryzhskiy, A. V., Arutyunova, O. L., Krechetova, P. I., Shestak, N. P.

TITLE: The problem of the choice of solvent for polymerization of ethylene into polyethylene at low pressure

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 614, abstract 6P35 (Tr. Groznensk. neft. in-t, v. 3, sb. 25, 1961, 17-29)

TEXT: An investigation is made of the possibility of using extraction benzine as a solvent for ethylene when polymerizing it into polyethylene at low pressure. It is shown that the following are suitable: an extraction benzine fraction evaporating at 65-90°C with an aromatic hydrocarbon content of 3.8% before de-aromatization and of 0.7% after de-aromatization, or a fraction evaporating at 75-95°C in the case of which de-aromatization is not needed (aromatic hydrocarbon concentration 0.7%). It is shown that the presence of aromatic hydrocarbons has no effect on the polymerisation process, but impairs the regenerability of the solvent. [Abstracter's note: Complete translation.]

Card 1/1

SOV/85-58-10-13/34

AUTHOR: Chertorizhskiy, K., Judge on the Republic Level and Chief Judge for Contests

TITLE: Young Model-aircraft Builders of the Ukraine (Yunyye aviamodelisty Ukrainy)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 10, p 10 (USSR)

ABSTRACT: The author reports on the competitions for young Ukrainian model-aircraft builders held at the capital of the Republic on the occasion of the VLKSM 40th anniversary. Personalities mentioned include O.K. Antonov, Deputy of the USSR Supreme Soviet, and A. P'yetsukha, both aircraft designers and former model-aircraft builders. There is 1 photograph showing instructor O.K. Antonov with 3 young model-aircraft builders.

Card 1/1

CHERTORYZHSKIY, K. V.

USSR/Academy of Sciences Mar 1948

"Scientific Session of Kiev Polytechnical Institute", V. G. Kholmskiy, K. V. Chertoryzhskiy, Candidates Tech Sci, ½ p

"Elektrichestvo" No 3

Briefly describes proceedings of Oct 1947 session of Kiev Polytechnical Institute. Gives roster of authors submitting articles. Briefly comments on articles.

PA47T4

CHERTORYZHSKIY, K V

N/5
615.905
.C5

Elektroavtomatika Metallorezhushchikh Stankov (Electric-Automatic Metal-Cutting Machines) Kiyev, Mashgiz, 1951.
221 p. Diagrs.
"Literatura": p. 220-(221)

CHERTORYZHSKIY, K.V.

Elektrosnabzhenie stroitel'nykh ploshchadok (Supplying electric power to building sites sites). Kiev, Gostekhizdat USSR, 1953. 175 p.

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

IVAKHNENKO, A.G.; CHUMACHENKO, T.I., vedushchiy redaktor; CHERTORYZHSKIY, K.V., redaktor; VUYEK, M., tekhnicheskiy redaktor.

[Electric automatic control; reciprocal methods for the study of compound automatic control systems] Elektroavtomatika; obratnye metody issledovaniia kombinirovannykh sistem avtomaticheskogo regulirovaniia. Kiev, Gos. izd-vo tekhn. lit-ry USSR. Pt.2. 1954. 217 p. [Microfilm] (MLRA 7:12)
(Automatic control) (Electric controllers)

CHERTORIZHSKIY, Konstantin Vakhtonovich [Chertorizhs'kyi, K.V.]; KRASHENINNIKOV, Ivan Ivanovich, [illegible], veduchiy red.; PATSALYUK, P., tekhn. red.

[Equipment for operating electric drives] Aparatura upravlennia elektropryvodamy. Kyiv, Derzh. vyd-vo tekhn. lit-ry URSR, 1958. 325 p. (MIRA 11:8)

(Electric driving)

28(1);25(1) PHASE I BOOK EXPLOITATION SOV/2092

Chertoryzhskiy, Konstantin Vakkhovich

Elektroavtomatika metallorezhushchikh stankov (Electric Automatic Control of Metal-cutting Machine Tools) 2d ed., rev. and enl. Kiyev, Mashgiz, 1959. 299 p. Errata slip inserted. 12,000 copies printed.

Ed. (Title page): I.I. Krashcheninnikov; Ed. (inside book): M.S. Soroka; Tech. Ed.: Ya. V. Rudenskiy; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for electrical engineers concerned with the electric drives of metal-cutting machine tools in machine-building and machine-tool-building plants and in planning and design organizations.

COVERAGE: The author briefly explains the basic principles involved in automatically controlling metal-cutting machine tools in accordance with their operating characteristics. He describes the basic characteristics of electrical equipment used in automatic

Card 1/6

AVAILABLE: Library of Congress

JP/ec
10-21-59

Card 6/6

ZHAROV, N.T., kand.tekhn.nauk; ONISHCHENKO, K.I., inzh.; KUSHCH, M.M., inzh.; CHERTORYZHSKIY, K.K., inzh.

Automation of the preparation of molding sand in milling machines. Mashinostroenie no.6:27-31 N-D '63. (MIRA 16:12)

ZHAROV, N.T.; CHERTORYZHSKIY, K.K.

Control of molding sand moisture by the conductometric method.
Lit.proizv. no.7:10-12 Jl '64. (MIRA 18:4)

CHERTOUSOV, M.D., professor, doktor tekhnicheskikh nauk.

Calculating the jump height joining the spillway surface and the bottom of the downstream side and insuring unsubmerged surface conditions. Izv.VNIIG no.32:58-67 '47. (MLRA 10:2)
(Spillways)

CHERTOUSOV, M D

Spetsial'nyy Kurs Gidravliki (Special Course in Hydraulics) 2. Izd., Perer. i Dop. (Leningrad, Goseneergoizdat, 1949.
407 p. Diagrs., Tables.
Bibliographical Footnotes.

Chertousov, M.D.

CHERTOUSOV, M.D.

[redacted]

Flow over a submerged spillway having a wide baffle sill.
Trudy LPI no.178:3-30 '55. (MIRA 10:11)
(Spillways)

CHERTOUSOV, M.D.

PAVLOVSKIY, N.N., akademik; NEKRASOV, A.I., akademik; KOCHINA, P.Ya.; ARAVIN, V.I., professor; AKHUTIN, A.N., professor; ZHURIN, V.D., professor; CHERTOUSOV, M.D., professor; ARKHANGEL'SKIY, V.A., dotsent; [redacted], dotsent; SEMCHINOVA, M.M., inzhener; CHUGAYEV, R.R., professor, doktor tekhnicheskiy nauk; ESHMAN, Yu.A., redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor

[Collected works] Sobranie sochinenii. Moskva, Izd-vo Akademii nauk SSSR. Vol. 1. [Principles of hydraulics, open channels and the transition of water over hydraulic structures] Osnovy gidravliki otkrytye rusla i sopriazhenie b'efov sooruzhenii. 1955. 547 p. (MIRA 8:4)

1. Chlen-korrespondent AN SSSR (for Kochina)
(Hydraulics)

SOV/124-57-5-5553

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 63 (USSR)

AUTHOR: Chertousov, M. D.

TITLE: On the Hydrodynamic Analysis of Submerged Openings Through Which Water Flows From Under a Gate Valve (K voprosu o gidravlicheskom raschete zatoplennykh otverstiy pri istechenii iz-pod shchita)

PERIODICAL: Izv. Vses. n.-i. in-ta gidrotekhn., 1955, Vol 54, pp 214-219

ABSTRACT: The subject of this paper is the allowance that should be made for the recovery of kinetic flow energy that occurs in the tail water of submerged hydraulic structures in calculations undertaken of their respective discharge capacities. Following the lead of other investigators (see, for example, Levi, I. I., Izv. N.-i. in-ta gidrotekhn., 1932, Vol 6), the author employs the simultaneous solution of the Bernoulli and momentum equations to obtain (in contrast to I. I. Levi) an explicit expression for the discharge rate of the water flowing out from under a gate valve through a submerged opening -- under the conditions assumed in both the two-dimensional and three-dimensional problems. The analytically evolved relationships recommended in the paper are adequately confirmed by experimental findings. On the

Card 1/2

On the Hydrodynamic Analysis of Submerged Openings Through Which Water (cont.)

basis of these relationships and of the experimental data it is found that neglecting the recovery of kinetic energy that occurs in the tail water of submerged water-outlet openings may result in an underrating of the discharge capacities of such openings by as much as 40%.

M. F. Skladnev

CHERTOUSOV, M.D.

LOGINOV, F.G.; BASEVICH, A.Z.; BELOV, A.V.; VOZNESENSKIY, A.N.; GLEBOV, P.D.; KACHANOVSKIY, B.D.; KRAVTSOV, V.I.; LEVI, I.I.; MOROZOV, A.A.; NOSOV, R.P.; OKOROKOV, S.D.; PROSKURYAKOV, B.V.; STAROSTIN, S.M.; URAZOV, A.A.; CHERTOUSOV, M.D.; CHUGAYEV, R.R.; SHCHAVELEV, D.S.; YAGN, Yu.I.

V.S.Baumgart.; obituary. Gidr.stroi. 25 no.5:58 Je '56. (MLRA 9:9)
(Baumgart, Vladimir Sergeevich, d.-1956)

CHERTOUSOV, Mikhail Dmitriyevich, professor, doktor tekhnicheskikh nauk; MOZHEVITINOV, A.L., redaktor; ZABRODINA, A.A., tekhnicheskiy redaktor

[Hydraulics; a special course] Gidravlika; spetsial'nyi kurs. Izd. 3-oe, perer. i dop. Moskva, Gos. energ. izd-vo, 1957. 640 p. (MLRA 10:5)

(Hydraulics)

CHERTOUSOV, M.D.; KACHANOVSKIY, B.D.

Filling systems of large navigation locks. Kons.i ov.prom. 15 no.11: 175-181 N '60. (MIRA 13:10)
(Locks (Hydraulic engineering))

24165
S/032/61/027/005/013/017
B132/B206

18.8200 also 2807

AUTHORS: Krasil'nikov, L. A. and Chertousov, V. A.

TITLE: Device for determining the relaxation tension in wire

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 5, 1961, 614-615

TEXT: The authors developed a device for investigating the relaxation tension in wire. With it, wires of a diameter of 0.7-3.0 mm, at room temperature and initial tensions of 100-250 kg/mm^2 may be investigated. The main parts are: clamps, loading- and measuring device (Fig.1). The perfected clamping installation (1) and (2) warrants self-elongation of the specimen (3). The specimen is loaded by exchangeable weights (4) and (5), the latter being movable on the lever (6). The lever ratio 1:10 permits a high initial tension σ_0 for the test. The size of the weights and their ratio are selected in dependence on the diameter of the wire to be tested, the value σ_0 and the limits of the relaxation tension. The relaxation tension of any moment is formed by the position of the movable weight. The measuring device consists of the measuring rule (7) and a pointer which is fitted

Card 1/5

Device for determining ...

to the movable weight. The values of the scale divisions for various loads through (4) and (5) are determined by dynamometer or weights. The system which warrants constant deformation of the wire specimens, consists of a differential magnetic pickup (8), a type which is referred to in the study by A. M.Turichin (A. M. Turichin, Elektricheskiye izmereniya neelektricheskikh velichin (Electric measurement of nonelectric quantities) Gosenergoizdat 1959). To it belongs an amplifier with damping down oscillation (9) and a reversible motor (10). The length of the specimens changes during the relaxation of the tension, and the plate at the end of lever (6) is displaced and disturbs the equilibrium of the system. It is restored in the following way: the signal from the pickup through the amplifier (9) controls the motor which turns the spiral (11) shifting the load (5) and thus restoring the initial length of the specimen. Calibration curves were recorded for various load ranges. The pickup sensitivity excludes errors due to creep for long specimens, too. The device was experimentally tested with an indicator. The pickup sensitivity amounts to 30μ. At a ratio of 1:10, the length of the specimen is maintained with an accuracy of 3μ. For a specimen length of 500 mm, the initial deformation is maintained with an accuracy of $6 \cdot 10^{-4}$%. The fixed maximum rate of relaxation of the wire specimen at room,

Device for determining ...

temperature and σ_o=150 kg/mm^2 amounts to 7-8 kg/mm^2/hr during the first hour. Tension decreases at a rate of 20 kg/mm^2/min. Accurate reproducibility of the results was determined in tests with the device. Stray of the values amounts to ±1.5 to 2%. Fig.2 shows the diagram of a 500-hr test of cold-drawn, untempered wire from steel of the type 70C2A (70S2A). It results therefrom that draw increases the relaxation stability. There are 2 figures and 1 Soviet-bloc reference.

ASSOCIATION: Beloretskiy metallurgicheskiy kombinat
(Beloreka Metallurgical Combine)

Card 3/5

24165
S/032/61/027/005/013/017
B132/B206

Device for determining ...

Legend to Fig.1: Diagram of the device for the determination of the relaxation tension in wire.

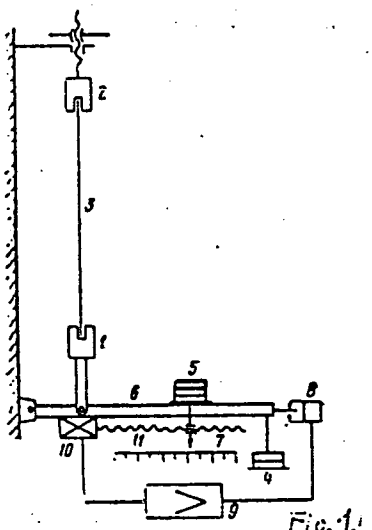


Fig. 1.

Card 4/5

S/032/61/027/005/013/017
B132/B206

Device for determining...

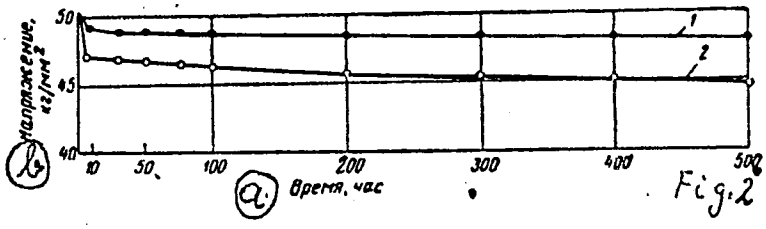


Fig.2

Legend to Fig.2: Diagram of the relaxation tension of cold-drawn wire of 1.5 mm diameter from steel of the type 70C2A (70C2A); 1) untempered wire; 2) wire tempered at 400°C; a) time in hr; b) tension in kg/mm^2.

Card 5/5

KRASIL'NIKOV, L.A.; CHERTOUSOV, V.A.

Device for determining stress relaxation in wire. Zav.lab. 27 no.5:614-615 '61. (MIRA 14:5)

1. Beloretskiy metallurgicheskiy kombinat.
(Wire)
(Strains and stresses)

KRASIL'NIKOV, L.A.; CHERTOUSOV, V.A.

Oscillographic method for determining the α-phase in austenitic steel. Zav.lab. 29 no.12:1463-1464 '63. (MIRA 17:1)

1. Beloretskiy metallurgicheskiy kombinat.

KRASIL'NIKOV, L.A.; CHERTOUSOV, V.A.; SILANT'YEV, S.A.

Use of the BU-3 ballistic stand in wire testing. Zav.lab. 31 no.10:1273-1274 '65. (MIRA 19:1)

1. Beloretskiy metallurgicheskiy kombinat.

CHERTOUSOVA, V. M.

Chertousova, V. M. "An investigation of models of protection of EMSO GES Substations from direct lightning attacks by means of stereophotography," Trudy Leningr. politekhn. in-ta im. Kalinina, 1949, No. 3, p. 173-79, - Bibliog: 7 items

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'Nykh Statey, no. 18 1949).

KADOMSKAYA, K.P., kand.tekhn.nauk; LEVINSHTEYN, M.L., kand.tekhn.nauk; CHERTOUSOVA, V. M., inzh.; SHAKHAYEVA, O. M., inzh.

Higher-order harmonics in electric power transmission lines without cutouts at the higher voltage end. Izv. vys. ucheb. zav.; energ. 5 no.1:15-23 Ja '62. (MIRA 15:2)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina.
(Electric power distribution)

GRIBOV, A.N., kand.tekhn.nauk, dotsent; KADOMSKAYA, K.P., kand.tekhn.nauk; CHERTOUSOVA, V.M., inzh.

Methods for calculating the voltages of an open-circuited power transmission line with consideration of the local load and saturation of transformers and reactors. Izv.vys.ucheb.zav.; energ. 5 no.4:33-40 Ap '62. (MIRA 15:5)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina.
(Electric power distribution)

KADOMSKAYA, K.P.; LEVINSHTEYN, M.L.; CHERTOUSOVA, V.M.; SHAKHAYEVA, O.M.

Comparison of the applicability of small parameter and harmonic balance techniques in calculating the periodic operating conditions of electric power transmission lines with nonlinear parameters. Izv.vys.ucheb.zav.;energ. 6 no.1:117-118 Ja '63. (MIRA 16:2)

1. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina.
(Electric power distribution)
(Electric lines—Overhead)

KADOMSKAYA, K.P., kand.tekhn.nauk; LEVINSHTEYN, M.L., dotsent, kand.tekhn.nauk; CHERTOUSOVA, V.M., inzh.

Methods for calculating higher harmonic voltages in systems with two nonlinear elements. Izv. vys. ucheb. zav.; energ. 6 no.10:27-35 O '63. (MIRA 16:12)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. Predstavlena kafedroy tekhniki vysokikh napryacheniy.

CHERTOUSOVA, V.M.

Determination of resonant regions for upper harmonics in long-distance power transmission lines. Trudy LPI no.242:165-168 '65. (MIRA 18:8)

CHERTOV, V.M.; DZHAMBAYEVA, D.B.; NEYMARK, I. Ye.

Kinetics of hydrothermal aging of silicic acid hydrogel. Part 1: Kinetics of aging of silica hydrogel in a neutral medium. Ukr. khim. zhur. 31 no. 11:1149-1157 '65 (MIRA 19:1)

1. Institut fizicheskoy khimii AN UkrSSR imeni Pisarzhevskogo.

CHERTOV, V.M.; DZHAMBAYEVA, D.B.; NEYMARK, I. Ye.

Kinetics of the hydrothermal aging of silicic acid hydrogel. Part 2: Kinetics of aging of silica hydrogel in alkaline and acid media. Ukr. khim. zhur. 31 no. 12:1253-1258 '65 (MIRA 19:1)

1. Institut fizicheskoy khimii AN UkrSSR. Submitted May 30, 1964.

L 13501-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG

ACCESSION NR: AP3003482 S/0078/63/008/007/1710/1714

AUTHOR: Mikheyeva, V. I.; Sterlyadskhina, E. K.; Chertov, A. A.

TITLE: Hydrogenation of aluminum-cerium alloy

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 7, 1963, 1710-1714

TOPIC TAGS: aluminum, cerium alloy, hydrogen, hydrogenation

ABSTRACT: Authors studied hydrogen absorption by cerium during its alloying with aluminum. Reason for this study was the marked absorption of hydrogen by cerium-magnesium alloy, characterized for a number of cases by whole and multiple proportions of CeH sub 3 to MgH sub 2. Metallic cerium, 99.9% pure aluminum and hydrogen which was obtained by the pyrolysis of titanium hydride, were used as materials in the study. The alloys were hydrogenated in accordance with the previously-described methodology (Mikheyeva and Kast, Zh, neorgan. khimii, 3, 1958, 260; Mikheyeva et al, Zh, neorg. khimii, 8, 1963, 1320) at room temperature and hydrogen pressure of about 1 atm. The hydrogen content in the hydrogenation products was determined by measuring the hydrogen volume during their reaction with diluted muriatic acid (1 : 5). The hydrogen volume which could be evolved during a reaction with metallic oxides, entering into the composition of the hydrogenation

Card 1/2

L 13501-63

ACCESSION NR: AP3003482

products, was calculated from the overall volume of evolved hydrogen. Authors found that alloying cerium with aluminum increases the induction period and hydrogenation time. The involvement of aluminum in the hydrogenation process was shown by observations over the hydrogenation process and analysis of the properties of the hydrogenation products. The maximum hydrogen absorption by aluminum corresponds to the empirical formula CeH sub 3 times 0.163AlH for an alloy with 14 atm. % of Al. Basically, the hydrogenation products of cerium-aluminum alloys evolve hydrogen in two stages, which, however, is not expressed as clearly as for CeH sub 3. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry, Academy of Sciences, SSSR). Laboratoriya khimii gidridov i bora (Laboratory of hydride and boron chemistry).

SUBMITTED: 16Aug62 DATE ACQ: 02Aug63 ENCL: 00

SUB CODE: CH, ML NO REF SOV: 004 OTHER: 008

Card 2/2

CHERTOV, A. F. and BRAGINSKAYA, R. Ya.

"Conveyance of Larvae and Young Herring from Saratov to Moscow," Ryb. khoz., 28, No.3, 1952

CHERTOV, A.G.

USSR/Physics - History

FD-1254

Card 1/1 : Pub. 129-16/25

Author : Chertov, A. G.

Title : An unknown article of N. A. Umov.

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 1, 133-134, Feb 1954

Abstract : Discusses the first work of the mathematical physicist N. A. Umov that has been found since 1915, when the bulk of his printed works were assembled and published. The uncovered article of Umov discussed the construction of agricultural machines in Russia.

Institution : Chair of the History of Physics.

Submitted : October 3, 1953

CHERTOV, A.G.

USSR/Miscellaneous - History FD-1616

Card 1/1 : Pub. 129-19/23

Author : Chertov, A. G.

Title : From the history of Moscow University. Centennary of the first issue of the gazette Vestnik Yestestvennykh Nauk (Herald of Natural Sciences)

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 8, 133-137, Dec 1954

Abstract : Vestnik Yestestvennykh Nauk was an illustrated popular-science gazette published by the Society of Naturalists at Moscow University (according to content and format the gazette should have been more properly called a journal). After the death of its founder and editor K. F. Rul'ye, in 1858, the gazette deteriorated and finally came to an end in 1860.

Institution : -

Submitted : -

CHERTOV, A.G.

CHERTOV, A.G.

"Vestnik estestvennykh nauk" [Journal of Natural Sciences]. On the 100th anniversary of the first issue. Vest.Mosk.un.9 no.12:133-137 D '54. (MLRA 8:3)

(Science--Periodicals)

CHERTOV, A. G.

Chertov, A. G. -- "Poplarization of Physics by the Scientists of Moscow University (From the Middle of the Nineteenth Century to the October Revolution)." Acad Sci USSR, Inst of the History of Natural Science and Engineering, Moscow, 1955. (Dissertations for Degree of Doctor of Physicomathematical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, PP. 87-104.

CHERTOV, A.G. (Moskva)

History of the dissemination of knowledge in physics in Russia.
Fiz. v shkole 15 no.6:86-89 N-D '55. (MLRA 9:2)
(Physics--History)

PHASE I BOOK EXPLOITATION SOV/5108

Chertov, Aleksandr Georgiyevich

Yedinitsy izmereniya fizicheskikh velichin (Measuring Units of Physical Dimensions) 2d ed. Moscow, Gos. Izd-vo "Vysshaya shkola", 1960. 183 p. 25,000 copies printed.

Ed.: N.I. Khrustaleva; Tech. Ed.: I.F. Mulikova.

PURPOSE: This book is intended for students in schools of higher education. It may also be used by engineers and instructors.

COVERAGE: The book deals with units and systems of measurement in the physical sciences. The author explains the mks (meter-kilogram-second) and cgs (centimeter-gram-second) systems and related systems in terms of fundamental and derived units as they apply to mechanics, industry, acoustics, molecular physics, electromagnetics, and other fields of science. Changes in Soviet State Standards for units of measurement are taken into account. The relationships of the units of different systems are given in tabular form and in the appendixes. The author

Card 1/5

CHERTOV, Aleksandr Georgiyevich; TUPITSYNA, L.A., red.; BARANOV, Yu.V., tekhn. red.

[International system of units of measurements] Mezhdunarodnaia sistema edinits izmereniia. Moskva, Rosvuzizdat, 1963. 165 p. (Units) (MIRA 16:5)

VOLOKHOV, A.N.; VOROB'YEV, A.A.; FEDOROV, M.F.; CHERTOV, A.G., dots.; DUBOV, V.P., dots., retsenzent; ARTEMOVA, T.I., red.; TUPITSYNA, L.A., red.

[Problems in physics with examples of their solution and reference materials] Zadachnik po fizike s primerami resheniia zadach i spravochnymi materialami. Petrozavodsk, Rosvuzizdat, 1963. 399 p. (MIRA 17:6)

1. Moskovskiy poligraficheskiy institut (for Dubov).

BUKSHTEYN, Moisey Solomonovich. SHAYKOV, S.S., [illegible] red.; CHERTOV, A.S., red.; CHUVIKOV, N.T., dots., red.; BLAGOV, V.F., red.; PTITSYN, K.N., red.

[Album of drawings for detailed work in electrical and radio engineering] Al'bom chertezhei dlia detalirovok po elektrotekhnike i radioelektronike. Moskva, Energiia 1964. diagrs. (MIRA 18:1)

1. Starshiy prepodavatel' radiotekhnicheskikh kafedr Gor'kovskogo politekhnicheskogo instituta (for Blagov, Ptitsyn).

CHERTOV, I.G.

CHERTOV, I.G.

Economic evaluation of forests in the north of the European part of the U.S.S.R. and natural conditions for their use. Geog.sbor. no.11:21-49 '57. (MIRA 11:1)
(Russia, Northern--Forests and forestry)

L 41568-65 EPA(s)-2/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/[illegible]
ACCESSION NR AP5001189 JD/HW S/0125/64/000/012 [illegible]

AUTHOR: Troshchun, L. P. (Candidate of technical sciences); Chertov, I. M. [illegible]; Zhdanov, I. M. (Engineer)

TITLE: Calculation of the deformation of thin-sheet elements in [illegible]

SOURCE: Avtomaticheskaya svarka, no. 12, 1964, 17-23

TOPIC TAGS: welding deformation, nonlinear deformation equation, Karman deformation theory, thin sheet welding

ABSTRACT: A method of calculation of the deformation of thin-sheet elements in weld construction is given, based on the nonlinear equations for [illegible] Th. Karman (Encyclopadie der Mathematischen Wissenschaften [illegible]) describes, with a good accuracy, the deformations in welding at [illegible] (over 0.6 of the thickness). The deviation of buckling calculated with [illegible] from the actually observed is ±5%.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

Card 1/2

L 57521-65 EPA(s)-2/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) Pf-4
ACCESSION NR: AR5015180 JD/HW/HW UR/0137/65/000/005/E010/E011

SOURCE: Ref. zh. Metallurgiya, Abs. 5E80

AUTHOR: Chertov, I. M.

TITLE: The effect of surface working of sheets on the durability of thin sheet constructions

CITED SOURCE: Sb. Vopr. mekhan. i mashinostr. Kiyev, Kiyevsk. un-t, 1964, 72-76

TOPIC TAGS: thin sheet, surface working, sheet metal, metalworking, bending moment, butt weld, metal durability

TRANSLATION: The article examines the effect of the bending moment on the durability of thin sheet welded constructions. It presents the dependence of $sigma_{cr}$ on the presence of a bending moment; this dependence reflects the fact that even the effect of an insignificant bending moment as a result of eccentric butt weld exerts a noticeable effect on durability and must be taken [illegible] in calculations of the durability of thin sheet welded constructions. N. P.

SUB CODE: MM ENCL: 00

Card 1/1

CHERTOV, L.F.

Postembryonic development of Alosa kessleri kessleri Gr. Vop.ikht. no.1: 73-77 '53. (MLRA 7:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii. (Embryology--Fishes) (Shad)

CHERTOV, L. F.

"The Biology of the Propagation and Early Stages of Development of the Black-Spined Herring." Cand Biol Sci, Moscow Technological Inst of the Fish Industry and Economy imeni A. I. Mikoyan, Moscow, 1955. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

CHERTOV, L.G.

Successful defense of dissertations. Vest. LGU 14 no.24:162-165 '59. (MIRA 12:12)
(Geography)

CHERTOV, L.G.

[Leningrad as one of the great economic and cultural centers of the U.S.S.R.] Leningrad kak odin iz krupneishikh ekonomicheskikh i kul'turnykh tsentrov SSSR. Leningrad, 1955. 41 p. (MLRA 9:9)
(Leningrad--Description)

CHERTOV, L.G.

CHETYRKIN, V.M.; AL'TMAN, L.P.; CHERTOV, L.G.

Division into economic regions of the northwestern and northern parts of the R.S.F.S.R. [with summary in English]. Vest. LGU 12 no.24:104-116 '57. (MIRA 11:5)
(Russia, Northern—Geography, Economic)

USSR/Forestry - General Problems. K-1

Abs Jour: Ref Zhur - Biol., No 19, 1958, 86830

Author : Chertov, L. G.
Inst : Not given
Title : The Economic Value of Forests in the North of the European USSR and the Natural Conditions for Their Exploitation

Orig Pub: Geogr. sb., 1957, 11, 21-49

Abstract: The designation "Forests of the European North" embraces the forests of Karelia, Arkhangel'skaya and Vologodskaya Oblasts and the Komi ASSR. The special features of these forests are the extreme prevalence of spruce and pine, the lowered productivity of the stands, the slow rate of growth, the high mechanical properties of the wood with a considerable percentage of defects, the exceptionally high specific gravity of the mature and over-mature stands, the increased yield of light timber and firewood. A

Card 1/2

KOVYAZIN, N.M.; CHERTOV, L.G.

Division of Vologda Province into agricultural regions. Vest.LGU 13 no.24:55-74 '58. (MIRA 12:4)
(Vologda Province--Agriculture)

NIKOLAYEVA, N.V.; AL'TMAN, L.P.; CHERTOV, L.G.; KUZNETSOV, B.B.; LAVROV, S.B.; LAGUTINA, Ye.I.

V.M. Chetyrkin; obituary. Vest.LGU 13 no.24:121-122 '58. (MIRA 12:4)
(Chetyrkin, Vladimir Mikhailovich, 1892-1958)

AUTHOR: Chertov, L.G. SOV/12-90-6-1/23

TITLE: Some Problems and Peculiarities in the Development of the National Economy of the European North (O nekotorykh problemakh i osobennostyakh razvitiya narodnogo khozyaystva yevropeyskogo severa)

PERIODICAL: Izvestiya vsesoyuznogo geograficheskogo obshchestva, 1958, Vol 90, Nr 6, pp 497 - 506 (USSR)

ABSTRACT: The author attempts to systematize literary data, and submits suggestions on the principal economic problems of the European North, including the Arkhangel'sk and Vologda oblast's, and the Komi ASSR. With respect to the prospective development of the mining and power engineering industry, the necessity of coordinating these branches with agricultural needs is stressed. The Pechora coal mines will be the main supply basis for future development of power engineering. The basic problem in forestry is the utilization of waste timber, and therefore the author points to the necessity of combining the wood-working industry with the wood pulp chemistry and to coordinate the efforts of wood working enterprises, raw material supply bases, main trans-

Card 1/3

Some Problems and Peculiarities in the Development of the National Economy of the European North

portation lines and specialized production. To connect forestry with agriculture, the organization of special "lesovkhozes" and agricultural bases of vegetable and potato cultivation and cattle breeding is suggested. The development of agriculture, with respect to new industrial centers, requires zoning on a scientific basis. The main fields of agricultural development include cultivation and reclamation of land, stone clearing, raised productivity of pasture lands, and flax cultivation. The development of nearly all these branches depends on a satisfactory solution of the transportation problem. The common difficulty is the lack of roads. This must be overcome by the creation of a complete system of communications, including full-gage railroads, improved navigation of the northern rivers, and road construction. The author suggests concentrating the studies

Some Problems and Peculiarities in the Development of the National Economy of the European North

of economists-geographers on: complete and detailed zoning, the solution of the most urgent zonal problems, the organization of a transportation network and the development of industrial centers. There are 10 Soviet references.

Card 3/3

CHERTOV, Leonid Georgiyevich; PETROVSKAYA, T.I., red.

[Main problems of using the natural resources of the northwest] Osnovnye problemy ispol'zovaniia prirodnykh resursov Severo-Zapada. Leningrad, Izd-vo Leningr. univ. 1964. 223 p. (MIRA 17:9)

CHERTOV, L.G.

Geographical aspects of present-day problems in the development of agriculture in the taiga regions of the Northwest. Vest.LGU 20 no.12:85-94 '65. (MIRA 18:8)

CHERTOV, N.G.

Using the ShchOM-D tamper in medium maintaenance operations. Put'i put.khoz. 8 no.4:26 '64. (MIRA 17:4)

1. Zamestitel' nachal'nika distantsii puti, stantsiya Borisov, Belorusskoy dorogi.

CHERTOV, N.G.; MODORSKIY, Z.N.

Electric power unit with 150 outlets. Put' i put.khoz. no.10:30 O '59. (MIRA 13:2)

1. Nachal'nik otdela puti, zdaniy i sooruzheniy otdeleniya dorogi, g.Gomel' (for Chertov). 2. Inzhener Gomel'skoy distantsii (for Modorskiy).
(Railroads--Electric equipment)

CHERTOV, N.G.

Preparing for the introduction of high speed traffic. Put'i put. khoz. 5 no.5:22 My '61. (MIRA 14:6)

1. Nachal'nik Orshanskoy distantsii Belorusskoy dorogi.
(Railroads--Track)

CHERTOV, P.M.

Growth of labor productivity in the Tuim Mine. Gor. zhur. no. 11:8-11 N '60. (MIRA 13:10)

1. Pomoshchnik glavnogo inzhenera Tuimskogo rudnika po gornym rabotam.
(Tuim region--Mining engineering)

CHERTOV, P. N.

Swine

Possibilities for increasing the productivity of swine, Kolkh. proizv. 13, No. 2, 1953.

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

DOBROKHOTOV, G.N., red.; CHERTOV, P.N., red.

[Raising and fattening swine] Vyrashchivanie i otkorm svinei. Izd. 2-e, perer. i dop. Moskva, Gos. izd-vo selkhoz. lit-ry, 1957. 111 p. (MIRA 11:4)
(Swine--Feeding and feeding stuffs)

OSIPOV, M.N.; CHERTOV, P.N., gorn.inzh.

Two-row, short-delay blasting in underground operations.
Gor.zhur. no.8:49-51 Ag '60. (MIRA 13:8)

1. Glavnyy inzh. Tuimskogo gornopromyshlennogo upravleniya (for Osipov).
(Mining engineering)

KALIN, V.N.; CHERTOV, P.N.

Effect of the degree of dullness of the cutting edge of a bore bit on the speed of boring. Gor. zhur. no. 6:41-42 Je '61. (MIRA 14:6)

1. Tuimskoye gornopromyshlennoye upravleniye.
(Rock drills)

BEREZKIN, V., sud'ya vsesoyuznoy kategorii; YEGOROV, V., master sporta; ZELIKSON, L., sud'ya vsesoyuznoy kategorii; MAYBORODA, O., sportsmen 1 razryada; MIKHAYLOV, Yu., master sporta, prizer pervenstva SSSR po ralli; STELLIFEROVSKIY, V., sud'ya respublikanskoy kategorii; CHERTOV, R., master sporta, chempion Moskvy po ralli; KHVATOV, V., master sporta; SHUVALOV, L., master sporta, prizer pervenstv SSSR i Litvy po ralli

Means for the development of rally races. Za rul. 21 no.5:16-17 My '63. (MIRA 16:9)

1. Chleny obshchestvennogo soveta po avtomobil'nomu sportu pri redaktsii zhurnala "Za rulem".

(Automobile racing)

YEMEL'YANOV, A.N.; CHERTOV, S.A.

Economics of the continuous pouring of carbon steel. Sbor. trud. TSNIICHM no.45:91-100 '65. (MIRA 18:9)

CHERTOV, V.

Outstanding driver. Avt.transp.34 no.11:34 N '56. (MLRA 9:12)

1. Glavnyy inzhener transportnoy kontory.
(Kuramshin, Sh.)

CHERTOV, V., podpolkovnik

Everyone must become an expert. Voen.vest. 43 no.11:102-104 N '63. (MIRA 16:12)

CHERTOV, V.M.

MAKHORIN, K.Ye.; PIORO, L.S.; CHERTOV, V.M.; GLUKHOMANYUK, A.M.

Gasification of milled peat in a unit with moving packing. Torf.prom. 34 no.1:28-32 '57. (MLRA 10:2)

1. Institut ispol'zovaniya gaza AN USSR.
(Peat) (Gas producers)

KOROBKO, N.I. [Korobko, M.I.]; ULIT'KO, V.Ye. [Ulit'ko, V.IU.]; CHERTOV, V.M.

Chromatographic analysis of volatile fatty acids in the rumen contents of ruminants. Ukr.biokhim.zhur. 34 no.6:915-923 '62. (MIRA 16:4

1. Ukrainian Agricultural Academy and the Institute of Physical Chemistry of the Academy of Sciences of the Ukrainian S.S.R.
(RUMEN) (ACIDS, FATTY) (CHROMATOGRAPHIC ANALYSIS)

ULIT'KO, V.Ye. [Ulit'ko, V.JU.]; KOROBKO, I.I. [Korobko, M.I.]; CHERTOV, V.M.

Repeated use of the silica gel column with subsequent regeneration for the chromatographic analysis of volatile fatty acids. Ukr. biokhim. zhur. 35 no.4:606-614 '63. (MIRA 17:11)

1. Ukrainian Agricultural Academy, Institute of Physical Chemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

CHERTOV, V. M.

73-1-22/26

AUTHOR: Kul'skiy, L. A., Koganovskiy, A. M., Makhorin, K. Ye., Kaliniychuk, Ye. M., Chertov, V. M. and Dikolenko, Ye. I.

TITLE: Production of Active Anthracite Suitable for the Purification of Waste Waters of the Aniline-Dye Industry. (Polucheniye Aktivirovannogo Antratsita, Prigodnogo Dlya Ochistki Stochnykh Vod Anilinokrasochnoi Promyshlennosti.)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No.1, pp. 117 - 121 (USSR).

ABSTRACT: Laboratory and pilot plant investigations on the activation of anthracite by water vapour and a mixture of combustion products of carburetted benzene with water vapours at 800 - 950° C are described. It was found that the quality of obtained adsorbents depended on the treatment of the anthracite. The activated anthracite contained 150 - 200 mg/g phenol and up to 300 mg/g methylene. The activation of anthracite gives an absorbent with a phenol content of 125 - 165 mg/g and a methylene content of 120-130 mg/g. Activated coal KAD is produced. The usefulness of the activated anthracite for sorption purification of waste waters of the aniline-dye industry is evaluated. The kiln for the activation of anthracite is illustrated and described. The properties of activated anthracite

Card 1/2

CHERTOV, V.M.; MAKHORIN, K. Ye.; KOGANOVSKIY, A.M.

Combining processes for the production and regeneragtion of activated anthracite. Khim.prom. no.7:635-637 O-N '59. (MIRA 13:5)

(Carbon, Activated) (Anthracite)

CHERTOV, N.G.

Improved snowplow units. Put' i put. khoz. 9 no.12:13 '65.
(MIRA 19:1)

1. Glavnyy inzh. Orshanskoy distantsii Belorusskoy dorogi.

81412
S/020/60/132/06/37/068
B004/B005

5.4400

AUTHORS: Neymark, I. Ye., Chertov, V. M., Sheynfayn, R. Yu., Kruglikova, N. S.

TITLE: Synthesis of Specific Silica Gels by Modification of Their Surface

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6, pp. 1356-1359

TEXT: It was the object of this investigation to give basic properties to silica gel by means of chemical modification, thus increasing its capacity of adsorbing acid substances. Hydrated samples of coarsely porous silica gel were treated with mono-, di-, or triethanolamine: a) at 100 - 160°C in a glass flask with return-flow cooler, or b) in an autoclave at 160 - 250°C. The content of aminoalcohol groups in the modified silica gels was determined by washing with titrated hydrochloric acid and back titration of the extract with lye. The silica gel adsorbed

Card 1/3

81412

Synthesis of Specific Silica Gels by Modification of Their Surface

S/020/60/132/06/37/068
B004/B005

PRESENTED: February 22, 1960, by M. M. Dubinin, Academician

SUBMITTED: February 20, 1960

Card 3/3

CHERTOV, V.M.; SHEYNFAYN, R. Yu.; KRUGLIKOVA, N.S.; NEYMARK, I.Ye.

Stepwise methosylation of silica gel and its adsorption properties.
Ukr. khim. zhur. 27 no.2:190-196 '61. (MIRA 14:3)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN USSR.
(Methoxylation) (Silica)

5.1115
5.4400

24059
S/020/61/138/004/020/023
B103/B203

AUTHORS: Neymark, I. Ye. and Chertov, V. M.

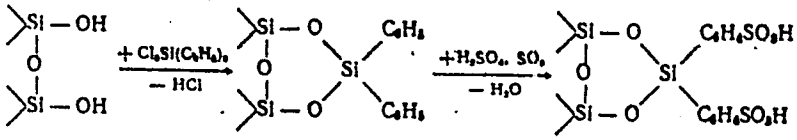
TITLE: Adsorption and ion-exchanging properties of silicas modified by a radical with acid functions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 4, 1961,877-879

TEXT: The authors attempted to prepare silica gels modified by radicals with acid functions to give them a specificity as to the adsorption of substances with basic properties. As a radical of the said type they chose the sulfo group for the modification of (1) laboratory-made silica gel of uniformly coarse grain, and (2) Aerosil, a highly disperse preparation of nonporous silica. Both preparations were sulfonated in two stages: (A) The specimens dried in vacuo at 200°C for 2 hr were phenylated with diphenyl dichlorosilane. (B) The phenyl groups thus formed on the surface were sulfonated with H_2SO_4, the specimens washed with distilled water, and dried at 180-200°C. The scheme illustrates the process:

Card 1/5

Adsorption and ion-exchanging properties ...



Thus, part of the OH groups on the surface was replaced by a compound containing sulfo groups. The ion-exchanging properties of the sulfonated specimens were determined by the value of the static exchanging capacity on the basis of the exchange from a 1 N aqueous NaCl solution. At the same time, the authors determined the pH value of the equilibrium solution formed by the exchange of H^+ of the sulfo groups for the Na^+ of the solution. They found that the results of the ion exchange on sulfonated specimens strongly deviated from those on initial specimens of both preparations. The pH value of sulfonated specimens in equilibrium solutions is 1.8 - 2, i.e., the exchange proceeds in strongly acid media. On non-modified silanol silica gel, such pH values give no exchange. Thus, the authors found that the presence of a strongly acid, ionogenic sulfo

group covalently bound to the surface of the silica gel and Aerosil produced an ion exchange, also in strongly acid media. This is also the case if the hydrogen of the outer surface of the double layer of the silica gel is neither capable of dissociation nor exchange because of its much weaker protonization as compared to the hydrogen of the sulfo group. The changed adsorption properties due to the modification may be caused by a change of the porosity or of the chemical nature of the surface. To eliminate the influence of porosity, the authors studied nonporous Aerosil. They recorded the vapor adsorption isotherms of benzene, heptane, methanol, and diethyl amine on initial, on phenylated, and on sulfonated specimens. The adsorption of all vapors was strongly reduced by phenylation. For sulfonated Aerosil, the adsorption isotherms of benzene and heptane were slightly higher than for phenylated one (due to partial destruction of the phenyl silyl coat in sulfonation). On the other hand, these curves for methanol and diethyl amine on sulfonated Aerosil were not only higher than on phenylated one but even higher than in the initial product. Hence, it is concluded that the adsorption of methanol and diethyl amine on sulfonated Aerosil is based on chemosorption due to interaction of their molecules with the sulfo groups. Besides, desorption shows that the

amount of methanol and diethyl amine irreversibly bound to sulfonated specimens is larger than that on phenylated and initial specimens. For the molecules of methanol and diethyl amine, the sulfo groups represent active adsorption centers increasing their adsorption. For the molecules of benzene and heptane, however, the sulfo groups have not the function of such centers. This reduces the adsorption potential of modified Aerosil compared to the vapor of the two latter substances. Specific adsorbents and catalysts can be produced by modifying silica gels with radicals of acid or basic functions. In particular, sulfo silica gels may be used as non-swelling ion exchangers in strongly acid media. Since the framework of such ionites consists of heat-resistant silica gel they can be used at higher temperatures than ion-exchanging resins. There are 2 figures, 2 tables, and 12 references: 10 Soviet-bloc and 3 non-Soviet-bloc. The reference to an English-language publication reads as follows: Ref. 4: C.J.Plank, J.Phys.Chem., 57, 284 (1953).

ASSOCIATION: Institut fizicheskoy khimii im. L.V. Pisarzhevskogo Akademii nauk USSR (Institute of Physical Chemistry imeni L. V. Pisarzhevskiy of the Academy of Sciences UkrSSR)

24059
S/020/61/138/004/020/023
B103/B203

Adsorption and ion-exchanging properties ...

PRESENTED: January 25, 1961, by M. M. Dubinin, Academician

SUBMITTED: January 23, 1961

X

Card 5/5

CHERTOV, V.M.; DZHAMBAYEVA, D.B. [Dzhambaieva, D.B.]; NEYMARK, I.Ye. [Neimark, I.IE.]

Change in the porous structure of xerogel of silicic acid under the effect of hydrothermal treatment of hydrogell Dop. AN URSR no.5:613-616 '64. (MIRA 17:6)

1. Institut fizicheskoy khimii AN UkrSSR. Predstavleno akademikom AN UkrSSR A.I.Brodskim [Brods'kyi, O.I.].

CHERTOV, V.M.; DZHAMBAYEVA, D.B.; NEYMARK, I.Ye.

Effect of hydrothermal treatment of the silicic acid hydrogel on the structure and properties of xerogel. Koll. zhur. 27 no.2:279-283 Mr-Ap '65. (MIRA 18:6)

1. Institut fizicheskoy khimii AN UkrSSR imeni Pisarzhevskogo, Kiyev.

CHERTOV, V.M.; SELOUSOV, V.M.

Use of silica gel as a carrier for gas-liquid chromatography.
Ukr.khim.zhur. 31 no.2:171-174 '65.
(MIRA 18:4)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR.

PLACHINDA, A.S.; CHERTOV, V.M.; NEYMARK, I.Ye.

Interaction of silica gels of various porosity with $Ca(OH)_2$ solution. Ukr. khim. zhur. 31 no.6, 567-573 '65. (MIRA 18:7)

1. Institut fizicheskoy khimii imeni Pisarzhevskogo AN UkrSSR.

CHERTOV, V.M.; DZHAMBAYEVA, D.B.; PLACHINDA, A.S.; NEYMARK, I.Ye.

Intraglobular and surface silanol groups of silical gels obtained by the hydrothermal method. Dokl. AN SSSR 161 no.5: 1149-1151 Ap '65. (MIRA 18:5)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR.
Submitted October 27, 1964.