

PERMYAK, L.G.; PROKOF'YEVA, L.L.; STRUZHAR, L.I.

Some experimental data on systematic errors of gas flow measurements.
Trudy GGO no.100:103-107 '64.

KASPIN, L.A.; MENDELEVICH, I.R. [deceased]; PERNYATIN, A.Z.; GADASHEVICH, A.M.; BASHINSKIY, S.V., retsenzent; GOBERMAN, M.D., spetsred.; PRESMAN, S., red.; BEREZOVSKIY, N., tekhn.red.

[Production norms, estimates, and specifications for building and assembling operations; general construction] Proizvodstvennye normy, raetsenki i pravila na stroitel'no-montazhnye raboty; obshchestroitel'nye raboty. Izd.3., perer. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR, 1959. 954 p. (MIRA 12:12)
(Construction industry)

KASFIN, Lev Abramovich; SMIRNOV, Boris Konstantinovich; GADASHEVICH, Anna Mikhaylovna; PERNYATIN, Aleksandr Zinov'yevich; BASIMINSKIY, S.V., retsenzent; GOBERMAN, M.D., spets. red.; SOSNOVSKAYA, G.I., red.; BEFEZOVSKIY, N.I., tekhn. red.

[Industrial norms, wage rates, and specifications for construction and assembly work; general construction operations] Proizvodstvennye normy, rastsenki i pravila na stroitel'no-montazhnye raboty; obshchestroitel'nye raboty. ¹zd.5., dop. i ispr. Kiev, Gosstroizdat USSR, 1961. 1025 p. (MIRA 15:7)
(Building--Handbooks, manuals, etc.)

KASPIN, L.A.; MENDELEVICH, I.R. [deceased]; FERNYATIN, A.Z.; GADASHEVICH, A.M.; BASHINSKIY, S.V., retsentsent; GORKEMAN, M.D., spetsred.; PRESMAN, S., red.; BEREZOVSKIY, N., tekhn.red.

[Production standards, wages, and regulations for construction and fitting work; general construction] Proizvodstvennye normy, rastsenki i pravila na stroitel'no-montashnye raboty; obshche-stroitel'nye raboty. Izd. 2., perer. Kiev, Gos.isd-vo lit-ry po stroit. i arkhit. USSR, 1958. 932 p. (MIRA 12:7)
(Construction industry)

KASPIN, Lev Abramovich; SMIRNOV, Boris Konstantinovich; GADASHEVICH,
Anna Mikhaylovna; PERMYATIN, Aleksandr Zinoviyeovich;
BASHINSKIY, S.V., retsenezent; [deceased]; GOBERMAN, M.D.,
spets. red.; SOSNOVSKAYA, G.I., red.; BEREZOVSKIY, N.I., tekhn. red.

[Production norms, estimates, and regulations for construction
and assembly operations; general construction operations] Proiz-
vodstvennye normy rastsenki i pravila na stroitel'no-montazhnye
raboty; obshchestroitel'nye raboty. Izd. 6., dop. i ispr. Kiev,
Gosstroizdat USSR, 1962. 1025 p. (MIRA 15:10)
(Construction industry)

KASPIN, L.A.; SHELKOVSKIY, V.M.; GADACHEVICH, A.M.; BASHINSKIY, S.V.,
retsensent; PERNYATIN, A.Z., spetsredaktor; ROKHLIN, I., redaktor;
YUNOVSKIY, Ye., tekhnicheskiy redaktor.

[Time and wage rate standards for general construction work] Normy vre-
meni i raschetov na obshchestroitel'nye raboty. Izd. 2-e, ispr. Kiev,
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(Building) (Wages)

KASPIN, Lev Abramovich; GADASHEVICH, Anna Mikhaylovna; PERNYATIN,
Aleksandr Zinov'yevich; GOMERMAN, M.D., spets. red.;
SOKOLOV, I.A., red.

[Production norms, estimates, and regulations for construction and assembly operations; general construction operations]
Proizvodstvennye normy, rasetsenki i pravila na stroitel'no-montazhnye raboty; obshchestroitel'nye raboty. Izd. 8., Kiev, Budivell'nyk, 1965. 1075 p. (MIRA 18:8)

PERNYE, Andras, zenetortenesz

Can birds sing? Critical remarks about Peter Szoke's study
entitled "Ornithomusicology." Magyar Tud 70 no.11:767-772
N '63.

PERNYE, E.; ADORJAN, J.

"Experiences and suggestions concerning mechanical equipment in day nurseries and kindergartens." p. 97.

EPÜLETGÉPESZET. (Építőipari Tudományos Egyesület). Budapest, Hungary, Vol. 8, No. 3, 1959.

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Uncla.

MOSCHYI, Laszlo.; LASZLO, Janos.; ZULIK, Robert.; FERRO, Csaba.

Effect of streptomycin on the normal tissue. Kiserletes orvostud
7 no.4:408-413 July 55.

1. Budapesti Orvostudományi Egyetem II. sz. Belklinika és I. sz.
Korbonctani Intezete.

(STREPTOMYCIN, effects,
on normal tissue)

PA 9T11

PERGFILOV, N. A.

USSR/Nuclear Physics
Uranium - Fission
Thorium - Fission

May 1947

"Periods of the Spontaneous Fission of Uranium
and Thorium," N. A. Pergilov, 10 pp

"Zhur Eksp Teor Fiziki" Vol XVII, No 5

NOTE: Original periodical states that the entire
article will be published in English in the
Journal of General Physics USSR at a later
unspecified date.

9T11

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Indicate

1949. Periods of the Spontaneous Emission of Gamma and X-rays, by N. A. Pyatkov
Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki 17, No. 5, May 1949,
10 p. (In Russian)

Original periodical states that the entire article will be published in English in the
Journal of General Physics USSR at a later unspecified date.

PIEROGOV, N.

Sevastopolskie Pisma I Vospominaniia (Sevastopol Letters and Reminiscences)

650 n. 4.00

7-10-60 G O Y A O. I.

3469 AEC-11-2430
DIRECT POTENTIOMETRIC TITRATION OF FLUORIDES
M. M. Iainca, O. J. Percora
Issued by: R. R. Koppelman
Avondale, Ariz. 11, 183-115000

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PEROLO, V.

Obstacles of strategic importance. . . .
(GLASNIK, Vol. 11, No. 3, Mar. 1957)

SO: Monthly List of East European Accessions (SOAL, Vol. 1, No. 1, Dec. 1956)
incl.

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similar species. Farmaceut gl Zagreb 19 no.11:451-456 N°63.

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Vol. 2, No. 9, Sept. 1956.

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TECHNOLOGY

Zagreb, Yugoslavia

See: East European Association, Vol. 6, No. 2, February 1962

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True

PEROS, V. 1

✓1488. Contemporary methods of cementing oil and gas wells.
V. Peros, *Nafta* (Yugoslavia), 1958, 7 (8), 101-71. The
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under pressure, construction of cement bridges, cementing
plants, various sorts of cement and their admixtures, functions
of KK-diagrams, "Kallix" diagram, and temp diagrams
are discussed. The importance of the choice of cement and
admixtures is stressed and the qualities of Yugoslav and
American cements compared.
(Author's abstract.) *Fused*

PEROS, V.

"The petroleum industry of the United States."

p. 302 (Nafta) Vol. 8, no. 9, Sept. 1957
Zagreb, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

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Vol. 5, nos. 1-6, 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress,
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PEROSHKIYER, E.

From workshop to plant management. Sot_g,trud 6 no.3:115-118 Mr '61
(MIRA 14:3)

1. Nachal'nik otdela truda i zarabotnoy platy Zavoda poligraficheskikh mashin, Leningrad.

(Leningrad--Printing machinery and supplies)

PEROSHIYER, E.I.

Using single-line norms. Mashinostroitel' no. 6:10-11 Ag '61.
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1. Zavod "Lenpoligrafmash".
(Leningrad—Printing machinery and supplies—Production standards)

IZROTSKAYA, A., sanitarnyy vrach; LUCHINA, K., sanitarnyy vrach

Sanitary requirements concerning apartment houses. Zhil. stroi.
no. 5:15-16 '59. (MIRA 12:8)

(Sanitary engineering) (Apartment houses)

PIROTSKAYA, A.S.; NEDOGIBCHENKO, M.K.; CHERNAYENKO, T.D.; LYUDKOVSKAYA,
N.I., tekhn. red.

[Hygiene of populated areas; collection of official data]Gigiena
naselennykh mest; sbornik ofitsial'nykh materialov. Moskva,
Medgiz, 1962. 534 p. (MIRA 16:2)
(PUBLIC HEALTH)

IEBEDEV, Yu.D., red.; PEROTSKAYA, A.S., red.; CHERNAYENKO, T.D., red.;
NOVIKOV, Yu.D., red.; POGOSKINA, M.V., tekhn. red.

[Hygiene in hospitals and sanatoriums] Gigiena bol'nits i sanato-
riev. Moskva, Medgiz, 1961. 231 p. (MIRA 14:12)
(HOSPITALS---HYGIENE) (SANATORIUMS---HYGIENE)

GORBOV, V.A., red.; RYABOV, V.N., red., PEROTSKAYA, A.S., red.;
CHERNAYENKO, T.D., red.; PROKOF'YEV, V.P., red.

[Basic problems of the sanitary protection of soil] Osnov-
nye voprosy sanitarnoi okhrany pochvy. Moskva, Meditsina,
1965. 344 p. (MIRA 18:5)

PEROTSKAYA, A.S.; RYABOV, V.N., kand.med. nauk; CHERNAYENKO, T.D.

Experience in conducting a seminar for public health physicians and laboratory personnel of sanitary and epidemiological institutions on problems of sanitary protection of soil in populated areas. Gig. sanit. 28 no.2:107-108 '63 (MIRA 17:2)

PEROTSKAYA, A.S.

All-Union Conference on Organization and Methodology in Planning
and Constructing Towns and Village, Housing and Public Buildings.
Gig. i san. 25 no.3:109-112 Mr '60. (MIRA 14:5)

1. Glavnyy inspektor Gosudarstvennoy sanitarnoy inspeksii SSSR.
(PUBLIC HEALTH)

PEROTSEVA, A.S.; LUCHINA, K.I.

Conference on problems of noise prevention in municipal transportation. Gig.i san. 24 no.8:83-84 Ag '59. (MIRA 12:11)

1. Iz Gosudarstvennoy sanitarnoy inspeksii Ministerstva
zdravookhraneniya SSSR.
(NOISE)

PEROTSKAYA, A.S.

Present state of ash collection in electric power stations. Gig.
i san. 22 no.5:95-97 My '57. (MIRA 10:10)

1. Glavnyy inspektor po gigiyene naselennykh mest Glavnoy gosudar-
stvennoy sanitarnoy inspeksii SSSR.

(AIR POLLUTION,

by ashes in electric stations (Rus))

PEROT'SKAYA, A.S.; LUCHINA, K.I.

All-Union conference on noise control. Gig. & san. 23 no.3:86-88
Mr '58. (MIRA 11:4)

1. Iz Glavnoy gosudarstvennoy sanitarnoy inspeksii SSSR.
(NOISE)

PEROTSKAYA, A.S., sanitarnyy vrach

Planning, construction, and use of medical institutions in Czechoslovakia. Gig. i san. 22 no.6:56-61 Je '57. (MIRA 10:10)

1. Iz Glavnoy gosudarstvennoy sanitarnoy inspeksii Ministerstva zdoravookhraneniya SSSR.

(HOSPITALS,

in Czech., planning, construction & utilization (Rus))

FEROTSKAYA, A. S., GLEBOVA, L. F., LEBEDEV, YU. D.

"The Practice of Sanitary Air Protection in the Industrial Cities
of the USSR."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

GORBOV, Vsevolod Aleksandrovich, red.; PEROTSKAYA, Antonina Sergeyevna, red.; RYABOV, Vasilii Nikolayevich, red.; CHERNAYENKO, Tat'yana Dmitriyevna, red.; PRONINA, N.D., tekhn. red.

[Sanitary protection of soil in populated places] Sanitarnaya okhrana pochvy naselennykh mest; metodicheskoe posobie dlia sanitarno-epidemiologicheskikh uchrezhdenii. Pod red.V.A.Gorbova i dr. Moskva, Medgiz, 1963. 175 p. (MIRA 16:9)

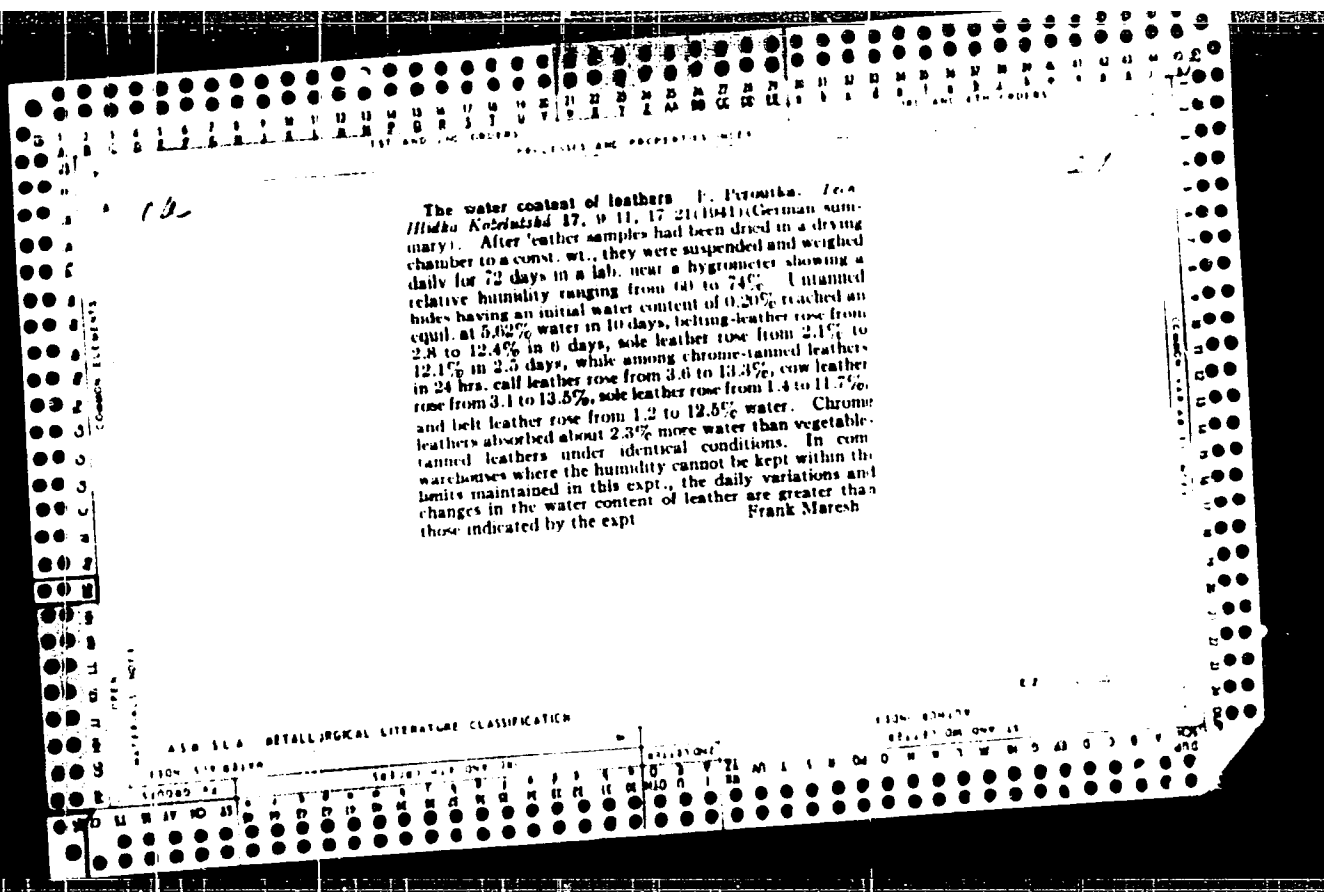
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PEROUTKA, Emil

First among the best railway engineers. Zel dop tech 10 no.2:62-63 '62.

PEKOUTKA, Emil

Railroad transportation in Czechoslovakia. Vasut 14 no. 2:
22-23 F '64.



SOYKA, O. [Sojka, O.]; SOUCHEK, V. [Soucek, V.]; SOYKOVA, Ye. [Sojkova, E.];
PEROUTKA, F.

Methods and results in the diagnosis of anemias in pregnancy.
(MIRA 15:5)
Akush.i gin. no.4:38-41 '61.

1. Iz 2-go terapevticheskogo otdeleniya (zav. - kand.med.nauk
O. Soyka) ginekologicheskogo otdeleniya (zav. V. Kral) i tsen-
tral'noy laboratorii (zav. M. Ledvina) Oblastnogo instituta na-
rodnogo zdorov'ya, Gotval'dov.
(ANEMIA) (PREGNANCY, COMPLICATIONS OF)

The absorption of water by various leathers. 1. *Per-
centka*. 2. *Techn. Iliidka Kobulinka* 14. S. 19. 30. 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 170. 180. 190. 200. 210. 220. 230. 240. 250. 260. 270. 280. 290. 300. 310. 320. 330. 340. 350. 360. 370. 380. 390. 400. 410. 420. 430. 440. 450. 460. 470. 480. 490. 500. 510. 520. 530. 540. 550. 560. 570. 580. 590. 600. 610. 620. 630. 640. 650. 660. 670. 680. 690. 700. 710. 720. 730. 740. 750. 760. 770. 780. 790. 800. 810. 820. 830. 840. 850. 860. 870. 880. 890. 900. 910. 920. 930. 940. 950. 960. 970. 980. 990. 1000. 1010. 1020. 1030. 1040. 1050. 1060. 1070. 1080. 1090. 1100. 1110. 1120. 1130. 1140. 1150. 1160. 1170. 1180. 1190. 1200. 1210. 1220. 1230. 1240. 1250. 1260. 1270. 1280. 1290. 1300. 1310. 1320. 1330. 1340. 1350. 1360. 1370. 1380. 1390. 1400. 1410. 1420. 1430. 1440. 1450. 1460. 1470. 1480. 1490. 1500. 1510. 1520. 1530. 1540. 1550. 1560. 1570. 1580. 1590. 1600. 1610. 1620. 1630. 1640. 1650. 1660. 1670. 1680. 1690. 1700. 1710. 1720. 1730. 1740. 1750. 1760. 1770. 1780. 1790. 1800. 1810. 1820. 1830. 1840. 1850. 1860. 1870. 1880. 1890. 1900. 1910. 1920. 1930. 1940. 1950. 1960. 1970. 1980. 1990. 2000. 2010. 2020. 2030. 2040. 2050. 2060. 2070. 2080. 2090. 2100. 2110. 2120. 2130. 2140. 2150. 2160. 2170. 2180. 2190. 2200. 2210. 2220. 2230. 2240. 2250. 2260. 2270. 2280. 2290. 2300. 2310. 2320. 2330. 2340. 2350. 2360. 2370. 2380. 2390. 2400. 2410. 2420. 2430. 2440. 2450. 2460. 2470. 2480. 2490. 2500. 2510. 2520. 2530. 2540. 2550. 2560. 2570. 2580. 2590. 2600. 2610. 2620. 2630. 2640. 2650. 2660. 2670. 2680. 2690. 2700. 2710. 2720. 2730. 2740. 2750. 2760. 2770. 2780. 2790. 2800. 2810. 2820. 2830. 2840. 2850. 2860. 2870. 2880. 2890. 2900. 2910. 2920. 2930. 2940. 2950. 2960. 2970. 2980. 2990. 3000. 3010. 3020. 3030. 3040. 3050. 3060. 3070. 3080. 3090. 3100. 3110. 3120. 3130. 3140. 3150. 3160. 3170. 3180. 3190. 3200. 3210. 3220. 3230. 3240. 3250. 3260. 3270. 3280. 3290. 3300. 3310. 3320. 3330. 3340. 3350. 3360. 3370. 3380. 3390. 3400. 3410. 3420. 3430. 3440. 3450. 3460. 3470. 3480. 3490. 3500. 3510. 3520. 3530. 3540. 3550. 3560. 3570. 3580. 3590. 3600. 3610. 3620. 3630. 3640. 3650. 3660. 3670. 3680. 3690. 3700. 3710. 3720. 3730. 3740. 3750. 3760. 3770. 3780. 3790. 3800. 3810. 3820. 3830. 3840. 3850. 3860. 3870. 3880. 3890. 3900. 3910. 3920. 3930. 3940. 3950. 3960. 3970. 3980. 3990. 4000. 4010. 4020. 4030. 4040. 4050. 4060. 4070. 4080. 4090. 4100. 4110. 4120. 4130. 4140. 4150. 4160. 4170. 4180. 4190. 4200. 4210. 4220. 4230. 4240. 4250. 4260. 4270. 4280. 4290. 4300. 4310. 4320. 4330. 4340. 4350. 4360. 4370. 4380. 4390. 4400. 4410. 4420. 4430. 4440. 4450. 4460. 4470. 4480. 4490. 4500. 4510. 4520. 4530. 4540. 4550. 4560. 4570. 4580. 4590. 4600. 4610. 4620. 4630. 4640. 4650. 4660. 4670. 4680. 4690. 4700. 4710. 4720. 4730. 4740. 4750. 4760. 4770. 4780. 4790. 4800. 4810. 4820. 4830. 4840. 4850. 4860. 4870. 4880. 4890. 4900. 4910. 4920. 4930. 4940. 4950. 4960. 4970. 4980. 4990. 5000. 5010. 5020. 5030. 5040. 5050. 5060. 5070. 5080. 5090. 5100. 5110. 5120. 5130. 5140. 5150. 5160. 5170. 5180. 5190. 5200. 5210. 5220. 5230. 5240. 5250. 5260. 5270. 5280. 5290. 5300. 5310. 5320. 5330. 5340. 5350. 5360. 5370. 5380. 5390. 5400. 5410. 5420. 5430. 5440. 5450. 5460. 5470. 5480. 5490. 5500. 5510. 5520. 5530. 5540. 5550. 5560. 5570. 5580. 5590. 5600. 5610. 5620. 5630. 5640. 5650. 5660. 5670. 5680. 5690. 5700. 5710. 5720. 5730. 5740. 5750. 5760. 5770. 5780. 5790. 5800. 5810. 5820. 5830. 5840. 5850. 5860. 5870. 5880. 5890. 5900. 5910. 5920. 5930. 5940. 5950. 5960. 5970. 5980. 5990. 6000. 6010. 6020. 6030. 6040. 6050. 6060. 6070. 6080. 6090. 6100. 6110. 6120. 6130. 6140. 6150. 6160. 6170. 6180. 6190. 6200. 6210. 6220. 6230. 6240. 6250. 6260. 6270. 6280. 6290. 6300. 6310. 6320. 6330. 6340. 6350. 6360. 6370. 6380. 6390. 6400. 6410. 6420. 6430. 6440. 6450. 6460. 6470. 6480. 6490. 6500. 6510. 6520. 6530. 6540. 6550. 6560. 6570. 6580. 6590. 6600. 6610. 6620. 6630. 6640. 6650. 6660. 6670. 6680. 6690. 6700. 6710. 6720. 6730. 6740. 6750. 6760. 6770. 6780. 6790. 6800. 6810. 6820. 6830. 6840. 6850. 6860. 6870. 6880. 6890. 6900. 6910. 6920. 6930.

PEROUTKA, Jan

Die forge in the Ostrow Wielkopolski Railroad Rolling
Stock Repair Shops. Przegl kolej mechan 11 [i.e. 16]
no.3:77-80 Mr '64.

1. Railroad Rolling Stock Repair Shops, Ostrow Wielkopolski.

PEROUTKA, K.

From the history of sewing machines. Jemna mach opt 9 no.9:3 of cover
S '64.

FRIDONKA, Karel

Soviet superiority in rocket techniques. Jemna mech opt 8
no.1:35 Ja '63.

PEROUTKA, Karel

New Czechoslovak pressed glass. Sklar a keramik 12 no.4:122
Ap '62.

PEROUTKA, M.

Some remarks on planning technical and organizational measures in 1955. p. 222

STROJIRENSTVI Vol. 5, no. 3, Mar. 1955

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

PERONTKA, V.

"Experience from the visit of other machine-tractor stations."

MECHANISACE ZEMEDELSTVI, Praha, Czechoslovakia, Vol. 5, No. 23, December 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

COUNTRY : CZECHOSLOVAKIA H
CATEGORY : Chemical Technology. Chemical Products and Their
Applications. Chemical Engineering
ABS. JOUR. : RZhKhim., No 19, 1959, No. 68158
AUTHOR : Bruby, M.; Peroutka, O.
INSTITUTE : -
TITLE : Investigation of Possibilities of Employing Heat
Pumps in the Heating of Rectification Columns.
ORIG. PUB. : Chem. promysl, 1958, 8, No 1, 4 - 10
ABSTRACT : Factors pertaining to technology and economics of
the feasibility determination of employing heat
pumps in the rectification practice are reviewed.
-- R. Terekhin

Card: 1/1

CZECHOSLOVAKIA/Chemistry of High-Molecular Substances.

I

Abs Jour: Ref Zhur-Khin., No 13, 1958, 45489.

Author : Majer Josef, Peroutka Oldrich.

Inst :

Title : Titration of N-Methoxymethylpolycaprolactam by the
Precipitation Method.

Orig Pub: Chem. prumysl, 1957, 7, No 11, 617-619.

Abstract: The volumes of acetone or water, which cause incipient turbidity of aqueous alcoholic solutions of N-methoxymethylpolycaprolactam are linearly correlated with the degree of N-methoxymethyl substitution (I) of the polymer and depend only slightly upon its concentration in the solution,

Card : 1./2

PEROUTKA, V.

PEROUTKA, V. Intrafactory business accounting in a tractor-brigade center.
p. 53.

Vol. 7, no. 3, Feb. 1957
MECHANISACE ZEM. EDELSTVI
AGRICULTURE
Czechoslovakia

So: East European Accession, Vol. 6, no. 5, May 1957

FRANK, W.

Our experience with farmers in Hind. : (Mechanisation Zemel'stvi) no. 1, Jan. 1956 (Raha)

70: Monthly List of East European Accession (1991) 12, Vol. 4, no. 1, July 1991, Encl.

PERCUTKA, V.

PEROUTKA, V. Records of primary importance in a tractor brigade. p. 50.

Vol. 6, no. 4, Feb. 1956

MACHANISACE ZEMEDELSTVI

AGRICULTURE

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

TRACUTA, V.

TRACUTA, V. Importance of having the invoice on time for harvest work. 1956.

Vol. 6, No. 13, July 1956:

BECHA, ISACE ZEMEDSTVI.

AGRICULTURE

Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957

PEROV, A.; BEZYMENSKIY, G.

In amateur radio clubs. Radio no.5:14-15 Ny '57. (MLPA 10 6)

1. Chlen Ivanovskogo chlastnogo komiteta Dobrevol'nogo obshchestva
soдействия armii, aviatsii i floty (for Perov). 2. Prepodavatel'
elektrotekhniki shkoly No.200 (for Bezymenskiy).
(Radio clubs)

PEROV, A.

107-57-5-19/63

AUTHOR: Perov, A., a member of Ivanovo Oblast DOSAAF Committee

TITLE: Organizing a Radio Club (Stanovleniye radiokluba)

PERIODICAL: Radio, 1957, Nr 5, p 14 (USSR)

ABSTRACT: The article relates how a radio club was organized at the Ivanovo Industrial School (Tekhnikum) and who participated in the organization and activities. Late in 1956 UA3KQD station was opened. Teachers V. Konorov, I. Ostrovskiy, M. Vakulin, and L. Gladyshev rendered guidance to technical study "circles" (groups). A wire-broadcast station with 30 loudspeakers was installed with participation of amateurs L. Spasskiy and R. Marov. Radio-controlled models of ships were built by O. Koshurayev, A. Orlov, and V. Sidorov. Over 300 contacts were established by short-wave and ultrashort-wave amateurs. V. Stradin, Yu. Vorotilov, V. Korol'kov work as radio operators of the above collective station. B. Kozin won the first oblast prize in high-speed reception and keying. V. Sirotkin, Yu. Vorotilov, V. Molchanov, B. Kozin, A. Volkov passed the tests for the first-grade radio operator. A. Reshetnyak is the Chairman of the DOSAAF Committee of the School. Other members of the club: Ya. Volchenko, reserve major; V. Perlin, reserve lieutenant colonel; V. Zaytsev, a foreman of the Mechanical Department, the Artificial-Sole Combine, Ivanovo.

AVAILABLE: Library of Congress

Card 1/1

TUNITSKIY, N.N.; KURPIYANOV, S.Ye.; PEROV, A.A.

Mass spectra of molecules and radiation chemistry. Izv. AN SSSR.
Otd.khim.nauk no.11:1945-1953 N '62. (MIRA 15:12)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova.
(Mass spectrometry) (Radiochemistry)

5/056/02/043/001/004/003
5125/0100

AUTHORS: Kuz'manov, S. Ye., Levov, A. M., Ivanitskiy, N. N.

TITLE: Cross sections for dissociation of D_3^+ ions on D_2^0 and D^+ ions in collisions with deuterium molecules

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 3(9), 1962, 763-764

TEXT: The D_3^+ dissociation cross section resulting from single collisions with D_2^0 molecules were determined at energies between 50 and 100 kev of the D_3^+ ions, using a mass spectrometer with two magnetic analyzers. These collisions took place at $p \approx 3 \cdot 10^{-4}$ mm Hg in a collision chamber between two magnetic analyzers. The D^+ and D_2^+ formation cross sections $\sigma = I^*k\Omega/Ip1$ have the following values

Card 1/2

Cross sections for dissociation ...

3/16/62/41/07/004/06/1
B115/B102

at the energies of the
 D_3^+ ions in kev

	30	40	50	60	80	90	100
$\sigma(D_3^{++})$	0.6	0.9	1.1	1.2	1.2	1.2	1.2
$\sigma(D_3^+)$	0.6	1.1	1.2	1.2	1.2	1.2	1.2

I^* and I are the secondary and primary ion currents, l the effective length of the chamber. The increase of the cross section below 50-60 kev is probably due to the excitation of D_3^+ ion. The second increase of the cross sections at energies between 50 and 60 kev and above is due to the ionization of D_3^+ ions. The attachment of two electrons from the D_3^+ ions might be important at energies above 100 kev. The D_3^{++} and D_3^+ production cross sections agree within the limits of measurement accuracy ($\sim 25\%$). There is 1 table.

SUBMITTED: March 24, 1962

Card 2/2

KUPRIYANOV, S.Ye.; PEROV, A.A.; TUNITSKIY, N.N.

Dissociation cross sections for 3.5 - 100 kev. D_2^+ ions
in collision with D_2 molecules. Zhur. eksp. i teor. fiz.
43 no.5:1636-1637 N '62. (MIRA 15:12)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.
(Dissociation) (Deuterium) (Ions)

L 18136-63

EWB(j)/EPF(c)/EWT(1)/EWT(m)/BDS/ES(w)-2

AFPTC/ASD/ESD-3/IJP(c)/

SSD Pc-4/Pr-4/Pab-4 RM/WW/MAY

ACCESSION NR: AP3004510

S/0048/63/027/008/1102/1109

AUTHOR: Kupriyanov, S.Ye.; Perov, A.A.

80

TITLE: Dissociation of polyatomic ions in collisions with gas atoms and molecules
Report presented at the Second All-Union Conference on the Physics of Electronic
and Atomic Collisions held in Uzhgorod 2-9 Oct 1962⁷

SOURCE: AN SSSR, Izvestiya, ser. fiz., v.27, no.8, 1963, 1102-1109

TOPIC TAGS: dissociation cross section, ion dissociation, ion-molecule collision,
water, ammonium, methane, propane, ethylene, mass spectrometry

ABSTRACT: Most previous investigations of dissociation of polyatomic ions have been performed with the aid of conventional mass-spectrometers, which are not suitable for precise quantitative measurements. In the present work dissociation of water, ammonium, methane, ethylene and propane ions as a result of collisions with gas molecules was investigated by means of a special double mass spectrometer (S.Ye. Kupriyanov and A.A. Perov, Zhur.tekh.fiz., 33, 823, 1963). The dissociation cross sections were evaluated for single ion-molecule encounters by the formula $\sigma = I^*kt/Ip$, where I and I^* are the initial and resultant ion currents, k is Boltzmann's cons-

Card 1/2

L 18136-63

ACCESSION NR: AP3004510

tant, T is the absolute temperature and p is the pressure of the gas in the collision chamber and L is the effective length of the chamber. The working pressure in the ion source was about 3×10^{-5} mm Hg; the pressure in the collision chamber about 2×10^{-4} ; the vacuum was higher in other parts of the spectrometer. Curves are given for the variation of the dissociation cross section for CH_4^+ ions from methane in collisions with air and deuterium as a function of the ion energy; the curves vary in character, depending on the dissociation process, but the total curve has a very broad maximum. Curves for the other investigated compounds and ions are reported to be generally similar. The cross sections for many dissociation processes are tabulated. Orig.art.has: 3 formulas, 3 figures and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 26Aug63

ENCL: 00

SUB CODE: MI

NO REF SOV: 009

OTHER: 010

Card 2/2

L 18361-63

EPF(c)/EWT(m)/EDS Pr-4 RM/WW

ACCESSION NR: AF3003952

S/0057/63/033/007/0823/0831

63

AUTHOR: Kupriyanov, S.Ye.; Perov, A.A.

57

TITLE: Investigation of dissociation of methane, ammonium and water ions as a result of collisions with molecules in the energy range from 3.5 to 100 keV

SOURCE: Zhurnal tekhnicheskoy fiziki, v.33, no.7, 1963, 823-831

TOPIC TAGS: ion dissociation, ion-molecule encounter, ammonium, water, methane mass spectrometry

ABSTRACT: Investigation of the disintegration of accelerated ions in their passage through a gas can yield information on the nature of the physical processes that play a significant role in ionic-molecular reactions. At low energies, charge exchange and reactions leading to formation of heavy particles predominate. At higher energies (several keV) various dissociation processes begin to dominate. Earlier studies of dissociation of methane ions, for example, were carried out on ordinary mass spectrometers and in most cases the top ion energy did not exceed 2-3 keV. For the purpose of the present extensive investigation the authors developed the double mass spectrometer with three variable width slits diagramed in Fig.1 of the Enclosure. The ions were accelerated to from 3.5 to 100 keV. Dissociation

Card 1/1

L 18361-63

ACCESSION NOR: AP3003952

2

cross sections were measured for methamions in encounters with air and deuterium molecules and for ammonium and water ions in encounters with air molecules. A group of typical cross section versus ion energy curves are shown in Fig.2 of the Enclosure. (The data for other ions and molecules are also presented.) The experimental results are discussed in considerable detail. Thus, the cross section variations as a function of ion energy for ions with an equal number of hydrogen atoms are similar. The total cross section decreases with decrease in the number of H atoms in the initial ion. The dissociation spectra are reminiscent of the mass-spectra of the corresponding molecules. With increasing energy the cross sections for dissociation with detachment of one, two, three or four H atoms approach each other; so that for CH₄ ions, for example, the various cross section curves merge at 70-90 keV. "We desire to express our gratitude to Prof.N.N.Tunitskiy for discussion of the results." Orig.art.has: 9 figures and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im.L.Ya.Karpova, Moscow (Physicochemical Scientific Research Institute)

SUBMITTED: 06Apr62

DATE ACQ: 07Aug53

Encl: 02

SUB CODE: PH SD

NO REF SOV: 009

OTHER: 009

Card 2/4 2/

KUPCHYANOV, S.Ye.; TUNITSKIY, N.N.; PEROV, A.A.

Dissociation of D_2^+ ions in collisions with molecules in the
energy range 3.5 to 100 Kev. Zhur. tekhn. fiz. 33 no.10:1252-
1259 0 '63. (MIRA 16:11)

KUPRIYANOV, S.Ye.; PEROV, A.A.

Spontaneous and forced decay of two-charge ions. Dokl. AN SSSR
149 no.6:1368-1370 Ap '63. (MIRA 16:7)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno
akademikom S.S.Medvedevym.

(Ions) (Dissociation)

ACCESSION NR: AP4042009

S/0057/64/034/007/1317/1320

AUTHOR: Kupriyanov, S.Ye.; Perov, A.A.

TITLE: Cross sections for dissociation by collision with neon atoms of ions formed from propane

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.7, 1964, 1317-1320

TOPIC TAGS: ion, dissociation, ion bombardment, hydrocarbon, propane, neon

ABSTRACT: The cross sections for dissociation of hydrocarbon ions by collision with neon atoms were measured with a double mass spectrometer. The ions were formed by bombarding propane with 120 eV electrons and were accelerated to an energy of 3.5 keV. The collisions took place in a chamber containing neon at 1.8×10^{-4} tor. The mass spectrometer and experimental technique are described elsewhere (S.Ye.Kupriyanov and A.A.Perov, ZhTF 33,823,1963). The dissociation cross sections were obtained for $C_nH_m^+$ ions with $n = 3$, $m = 0$ to 8; $n = 2$, $m = 0$ to 5; and $n = 1$, $m = 3$. The tabulated cross sections were reproducible within 15%. The cross section for formation of $C_nH_m^+$ from C_nH_m was greater for odd values of m (other than unity) than for either of the neighboring even values, regardless of the parity of n . The

1/2

ACCESSION NR: AP4042009

cross section for breaking a C-C bond of C_3H_m was $13.6 \times 10^{-16} \text{ cm}^2$ for $m = 8$ and decreased very rapidly with decreasing m to $0.65 \times 10^{-16} \text{ cm}^2$ for $m = 5$ and $0.37 \times 10^{-16} \text{ cm}^2$ for $m = 1$. The cross section for breaking one or more C-H bonds was relatively independent of m and ranged between $7.5 \times 10^{-16} \text{ cm}^2$ and $2.1 \times 10^{-16} \text{ cm}^2$. The ions with only two H atoms dissociated principally by C-H bond cleavage. It is suggested that the results might be explained by a reorganization of the ions with strengthening of the C-C bonds during the flight to the collision chamber. "We express our gratitude to Professor N.N. Tumitskiy for discussing the results of the work." (Orig.art.has: 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im.L.Ya.Karpova (Physico-chemical Scientific Research Institute)

SUBMITTED: 17Aug63

ENCL: 00

SUB CODE: NP 00

NR REF SOV: 003

OTHER: 002

2/2

L 16090-65 EWT(a)/EPF(c)/EPR/ENP(j) Pc-4/Pr-4/Ps-4 RPL NW/JW/EM/

JXT(GZ)
ACCESSION NR: AP4046082 13/0076/64/038/009/2263/2265

AUTHOR: Kupriyanov, S. Ye.; Perov, A. A.

TITLE: Dissociation cross section of H_2^+ ions of different origin

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 9, 1964, 2263-2265

TOPIC TAGS: H_2^+ ion, dissociation cross section, H_2^+ ion source, hydrogen ionization, hydrocarbon ionization, methane ionization, ethylene ionization, dodecane ionization

ABSTRACT: The effect of the source of H_2^+ ions upon their dissociation was studied by determining the cross sections of the protons formed upon dissociation of the molecular H_2^+ ions produced by ionization of hydrogen and by ionization of methane, ethylene, dodecane and n-butane with electrons having 100 ev energy. The following values, believed accurate within 30%, were obtained for the effective cross sections: ($\sigma \cdot 10^{-16} \text{ cm}^2$), from H--1.06; C_2H_4 --1.4; n- C_4H_{10} --1.7; CH_4 --1.5; $C_{12}H_{24}$ --1.4. Thus the dissociation cross section of the H_2^+ ion fragments obtained from hydrogen-containing molecules was significantly greater

Card 1 2

L 16090-65

ACCESSION NR: AP4048082

than the dissociation cross section of molecular H_2^+ ions. This greater dissociation probability was attributed to the presence of greater vibration and rotational excitation in the H_2^+ ions formed from the hydrocarbons. Although complete correlation between σ values for H_2^+ ions and the distance between the protons in the initial molecule was not established, it was shown that σ for H_2^+ ions from hydrogen-containing molecules, in which the δ_{p-p} distance was significantly greater than the corresponding distance in hydrogen molecules, was much greater than the σ for H_2^+ ions from molecular hydrogen. "In conclusion we thank N. N. Tunitsko and Yu. V. Bulgakov for discussing the results of the work." Orig. art. has: 1 table, 1 figure and 2 equations.

ASSOCIATION: Fiziko-khimicheskiy institut im. A. Ya. Kartsova* (Physico-Chemical Institute)

*[probably im. A. Ya. Karpova]

SUBMITTED: 04Jun63

ENCL: 00

SUB CODE: GC, GP

NO REF SOV: 006

OTHER: 003

Card 2/2

L 6760-65 EWT(1)/EPF(c)/EPA(w)-2/EEC(t)/T/EWA(m)-2 Pab-24/Pr-4 IJP(c)/
 A/WL/SSU(a)/AEDC(a)/RAEM(a)/AS(mp)-2/BSO/AFHDC/SSD/ESD(gs)/ESD(t) WW

ACCESSION NR: AP4042363

S/0056/64/047/001/0021/0023

AUTHORS: Kupriyanov, S. Ye.; Laty*gov, Z. Z.; Perov, A. A.

TITLE: Long-lived highly excited states of positive ions

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 1, 1964, 21-23

TOPIC TAGS: ionization, stripped atom, helium, xenon, excited state, excitation spectrum, mass spectrometry

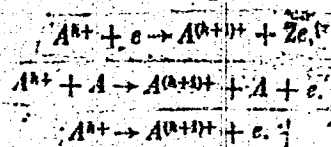
ABSTRACT: Experimental results are presented on stripping and ionization of He^+ , Xe^+ , Xe^{2+} , and Xe^{3+} ions near a metallic surface, with an aim at proving the existence of highly excited long-lived states of the ions He^+ , Ne^+ , Ar^+ , Kr^+ , Xe^+ , Hg^+ , Kr^{2+} , Xe^{2+} , and Xe^{3+} . It is demonstrated that these states lie quite close to the states of the continuous spectrum. The work was done with a double mass spectrometer described elsewhere (Z. Z. Laty*gov, S. Ye. Kupriyanov, and

Card 1/1

L 5760-6

ACCESSION NR: AP4042363

N. N. Tunitskiy, ZhETF v. 46, 833, 1964). The long-lived highly-excited states of the ions were observed by using the "second impact" method whereby ionization is produced by one of three mechanisms:



The results confirm and supplement earlier data by two of the authors (Kupriyanov and Latypov, ZhETF v. 43, 815, 1963). They are in satisfactory agreement with the data obtained by R. E. Fox (Advances in Mass Spectrometry, 1959, p. 397). "I am grateful to Professor N. N. Tunitskiy for a discussion of the results." Orig. art. has: 1 figure and 4 formulas.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute)

Card 2/4

L 6760-65

ACCESSION NR: AP4042353

SUBMITTED: 23Dec63

DATE ACQ

ENCL: 01

SUB CODE NP

NR REF SOVI: 004

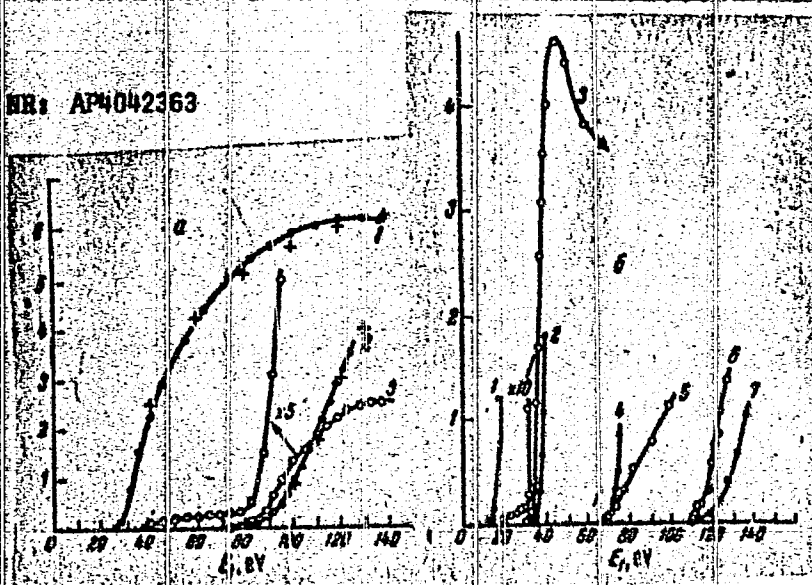
OTHER: 004

Card 3/4

L 6760-65

ACCESS ON HR: AP4042363

ENCLOSURE: 01



Dependence of ion currents (arb. units) on the energy of the electrons ionizing the neutral He and Xe atoms in the ion source. a - ionization of Helium, b - ionization of Xenon.

Card 4/4

L 24828-65 EWO(j)/EWT(m)/EPP(o)/ENF(j)/EWA(h)/EWA(l) Pc-l/Pr-l/PeB
RAEM(l) RM

24
23
B

ACCESSION NR: AP4047320

S/0020/64/158/004/0942/0944

AUTHOR: Kupriyanov, S. Ye.; Perov, A. A.

TITLE: Cross sections of the dissociation of H_2^+ ions from methane and b-butane with electrons of different energies

SOURCE: AN SSSR. Doklady*, v. 158, no. 4, 1964, 942-944

TOPIC TAGS: H sup + sub 2, dissociation cross section, methane derived H sup + sub 2 ion, butane derived H sup + sub 2 ion, deuterium ion

ABSTRACT: The dissociation cross section of H_2^+ (and D_2^+) ions from CH_4 (and CD_4) and $n-C_4H_{10}$ upon bombardment with ionizing electrons with energies of 20-100 ev was measured. At 20ev the cross sections of H_2^+ and D_2^+ from CH_4 and CD_4 was the same, $0.7 \times 10^{-16} \text{ cm}^2$, as of H_2^+ obtained from H_2 . On increasing the electron energy from 20-70ev the value of the $CH_4(CD_4)$ derived $H_2^+(D_2^+)$ increased 3.5 times, while the H_2^+ from H_2 increased only 30%. The H_2^+ ion current increased rapidly with electron energy increased to $\sim 60 \text{ ev}$, then fell

Card 1/2

L 24823-65

ACCESSION NR: AP4047329

slightly (although the cross section continued to increase) due to the increased degree of excitation of the H_2^+ ion. The H_2^+ was most probably obtained from CH_4 by dissociation of CH_4^+ : $CH_4^+ \rightarrow C + 2H + H_2^+$. The cross sections of the dissociation of H_2^+ from n-butane and ethylene were $\sim 0.8 \times 10^{-16} \text{ cm}^2$ in the 25-35 eV range, and then increased to $\sim 1.75 \times 10^{-16} \text{ cm}^2$ as the energy increased to 100 eV. Thus the distribution of the vibrational states in the beam of H_2^+ ions obtained from hydrogen-containing molecules changed upon changing the conditions for dissociating the initial molecular ion. With increasing energy, activation of the molecular ion increased the population of the upper vibrational levels of the fragmented H_2^+ ions. Orig. art. has: 2 figures.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physical-Chemical Institute)

SUBMITTED: 18 Apr 84

ENCL: 00

SUB CODE: GC

NO REF SOV: 003

OTHER: 003

Card 2/2

I 60991-65 EWT(m)/EPV(c)/EWP(j) PC-4/Pr-1 BFL RM
ACCESSION NR: AP5019791 UR/0076/65/039/007/1640/1646
543.42

AUTHOR: Kubriyanov, S. Ye. ; Perov, A. A.

TITLE: Use of the double mass spectrometer to study the dissociation of ions obtained from propane 7

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 7, 1965, 1640-1646

TOPIC TAGS: propane, gas ionization, ion dissociation cross section, neon, ion collision cross section, ionization cross section

ABSTRACT: The dissociation of various ions obtained from propane, caused by collisions with neon atoms, was studied with a double mass spectrometer. The total dissociation cross sections of these ions were found to be approximately $(1-2) \cdot 10^{-15} \text{ cm}^2/\text{atom}$. The dissociation cross sections of ions having an even number of hydrogen atoms are greater than those of ions having an odd number of hydrogen atoms. These results indicate that radical ions dissociate more readily than molecular ions. Hydrogen is most likely to split off a radical ion in the form of an H atom or H_2 molecule and in the form of an H_2 molecule off a molecular ion. The data were analyzed

Card 1/2

L 64991-65

ACCESSION NR: AP5019791

2

from the standpoint of the statistical theory of mass spectra, and the results were found to agree with the basic tenets of this theory. Following the formation of the ions as a result of the ionization of the molecules by electrons in the ion source, structural changes consisting of a strengthening of the C-C bonds and migration of the free valence take place. A definite relationship exists between the probability of formation of an ion of a given type and the magnitude of the energy required for this process. The dissociation of ions primarily involves processes which require the minimum expenditure of energy. Consequently, in the dissociation of ions with both even and odd hydrogen atoms, the most probable products of the cleavage of C-H bonds are the $C_3H_7^+$, $C_3H_5^+$ and $C_3H_3^+$ ions, the H_2 molecule, and hydrogen atoms. In the dissociation of $C_3H_8^+$ ions involving cleavage of C-C bonds, the most probable products are the $C_2H_5^+$, $C_2H_4^+$ and $C_2H_3^+$ ions, CH_3^+ radicals, and CH_4 molecules. Orig. art. has: 1 figure, 2 tables, and 3 formulas.

ASSOCIATION: Moskovskiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Moscow Physicochemical Institute)

SUBMITTED: 21 Nov 84

ENCL: 00

SUB CODE: GC, DP

NO REF SOV: 005

OTHER: 008

Card

281
2/2

POLTEV, Vasilii Ivanovich, prof.; PEROV, Aleksandr Andreyevich;
DANILEVSKAYA, O.N., red.; GAVRILOV, I.S., red.; SHERMUSHENKO,
T.A., tekhn.red.

[High honey yields] Vysokie medosbory. Leningrad, Lenizdat,
1961. 60 p. (MIRA 14:6)

1. Predsedatel' seksii pchelovodstva Leningradskogo otdeleniya
Obshchestva okhrany prirody (for Perov).
(Bee culture)

PEROV, A. G.

Causes and methods of elimination of some flat glass defects.
Sklar a keramik 14 no. 1: 13-15 Ja '64.

USSR/Chemical Technology - Chemical Products and Their
Application. Ceramics. Glass. Binders. Concrete.

H-7

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 2031

Author : Perov A.G.

Inst :

Title : Some Measures Aimed at Prolongation of the Run of Glass-Melting Furnaces.

Orig Pub : Steklo i keramika, 1957, No 5, 4-5

Abstract : The principal agents that bring about the disintegration of the refractories of glass-melting furnaces are the charge and the products of its decomposition, and also the component parts of the fuel and its combustion products. The more intensive is the flow of furnace gases in contact with the furnace lining, the more rapidly takes place its disintegration, with all other conditions being equal. Intensity of the flow of gases depends on hydraulic and temperature conditions of furnace operation. The best conditions

Card 1/3

was extensively plugged with batch dust while the bottom portion of the checker was filled with glass. Intakes of

Card 2/3

274. Methods for prolonging the life of glass tanks. — A. G. Prud'homme, *Glass and Ceramics*, Moscow, 14, No. 5, 4, 1957. In Russian. Deals mainly with the pressure conditions above the molten glass. Both negative and positive pressures increase the convection in the flame space, which leads to a greater wear of refractories. It is suggested that the pressure should be neutral, the flame space should be as small as possible, and that the number and size of the orifices (ports, etc.) in tanks should be greatly reduced.

3
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am
ang

PEROV, A.G.

What should be the design of a glass furnace? Stok. i ker. 14
no.1:10-11 Ja '57. (MLRA 10:3)
(Glass manufacture)

PEROV, A.G.

Influence of technological factors and design of tank furnaces on
the formation of bubbles in the glass batch. Stek. i ker. 13 no. 3:
1-5 Ag '56. (MLRA 9:10)
(Glass manufacture) (Glass--Defects)

AUTHOR: Perov, A. G.

TITLE: What Kind of a Glass Furnace Should We Have? (Kakoy dolzhna byt' steklovarennaya pech?)

PERIODICAL: Steklo i Keramika, 1957, Vol. 14, No. 1, pp. 10-11 (U.S.S.R.)

ABSTRACT: A rebuttal is made of N. YA. Suvorov's article published in No. 1, 1956, of this publication regarding a new design of a glass furnace. In Suvorov's opinion, this furnace would yield over two tons of glass in a single run. In the opinion of the author of this article, such yields of glass are at the present time unattainable in the Soviet industry and it is doubtful that they could be attained with Suvorov's furnace for several reasons, namely: the design of Suvorov's furnace indicates that it would lead to the increase in glass impurity, poor diathermancy, low glass temperature and an excessive foam formation which was the case with A. A. Sokolov's furnace of a similar design tested at the Kaluga glass plant. Concluding the article, the author sees no advantages of the above mentioned furnace over the existing furnaces used at present by the glass industry. There are no diagrams, tables, or references.

Card 1/2

FEEDV, A.G.

Design of the working zone for beatless drawing of glass.
Stek. i ker. 13 no.3:1-4 Mr '56. (MIRA 9:6)
(Glass manufacture)

PEROV, A.G.

2420. The efficiency of glass-tanks.—A. G. PEROV (*Glass & Ceramics*, Moscow, 11, No. 4, 19, 1954). Methods for increasing the output of glass-tanks are discussed. One suggestion is that the principles of glass-melting in tanks with channels should be applied to sheet-glass tanks by reconstructing parts of the refining- and cooling-zones for melting. This could almost double the output of tanks.

PEROV, A. G.

USSR/ Miscellaneous - Glass fining

Card 1/1 Pub. 104 - 8/14

Authors : Perov, A. G.

Title : Increasing the production of glass from the fused mass in the tank furnaces

Periodical : Stek. i ker. 11/3, 20-23, Mar 1954

Abstract : A detailed presentation is given of the problems met with in the actual attending of a glass tank; such as the avoidance of bubbles, the removing of the glass with the right consistency, maintaining an even temperature throughout the mass so as to reduce breakage, at the same time increasing the output of useful product from the fused mass and generally improving its quality. One Russian reference.

Institution:

Submitted:

USSR/ Engineering - Glass furnaces

Card 1/1 Pub. 104 - 7/11

Authors : Perov, A. G.

Title : The productivity of bath-type glass furnaces

Periodical : Stek. i ker. 4, 19-22, Apr 1954

Abstract : Special measures for increasing the productivity of bath type glass furnaces are discussed. The role of proper insulation of the solidification section and productive channel on the output increase and the importance of reducing the heat losses in the glass mass, are explained. The productivity of the glass furnace also depends upon the light transparency of the glass produced in it. The factors, hindering the increase in glass furnace output, are listed. Two USSR references (1947-1953).

Institution:

Submitted:

USER/ Miscellaneous - Glass flaws

Card 1/1 Pub. 104 - 9/12

Authors : Perov, A. G.

Title : ~~Thread-like waviness in plate glass~~
: Thread-like waviness in plate glass

Periodical : Stek. i ker. 1, 28-29, Jan 1954

Abstract : The mechanism of formation of flaws in plate glass is explained. Means for the elimination of waviness (flaws) in glass during its manufacture are discussed.

Institution:

Submitted:

PEROV, A.G.

1723. Thread-like wariness in sheet glass.—A. G. PEROV (*Glass & Ceramics*, Moscow, 11, No. 1, 28, 1954). (2 pp.)

PERCV, A.G.

308. Modern glass-tanks.—A. G. Pergov (*Glass & Ceramics*, Moscow, 10, No. 10, 17, 1953). Three types of tanks are considered: (1) large, (2) continuous-flow, (3) "Combined". The following conclusions are drawn: the volume of the melting-zone should be as great as possible in order to concentrate the maximum heat in this part of the tank. It must be possible to cool the glass mix to the required temperature in the tank and to use some of the heat for glass-melting. Maximum use should be made of the heated parts of the tank for melting batch. The depth and the surface area of the glass in the non-heated parts of the tank should be kept as small as possible. Channels leading to working-points should be as short as possible. The roof of the tank should be as low as possible. "Dead" corners should be avoided; they give rise to non-uniform glass. Tanks with a large output are preferable. Lowering of the volume of the non-heated parts of the tank and the working-channel, and of the safety level of the glass throughout

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perovskite in the form of a crystal

Thread-like waviness in plate glass. Stek, i ker. ll no. 1:28-29 Ja '54.

(MLRA 7:1)

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Threadlike streaks in plate glass. p. 180

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Modern tank furnaces for glass manufacture.

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AUTHOR: ~~Perov, A.I.~~ 20-120-4-5/67
 TITLE: On Theorems of Uniqueness for Ordinary Differential Equations
 (O teoremaxh yedinstvennosti dlya obyknovennykh differentsial'-
 nykh uravneniy)
 PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 4, pp 704-707 (USSR)
 ABSTRACT: In the real Banach space E the author considers the equation

$$\frac{dx}{dt} = f(t, x) \quad , \quad 0 < t \leq \omega \quad , \quad \|x - x_0\| \leq B$$

and he investigates continuous solutions satisfying the initial condition

$$x(0) = x_0 .$$

Without investigating the question of existence, the author formulates 3 lemmas and 3 theorems on the uniqueness of the solution; here well-known results of Osgood-Tamarkin, Rosenblatt-Nagumo-Perron, Zwirner etc are generalized. Specializing E there arise theorems of uniqueness for infinite systems of ordinary differential equations, for integro-differential equations etc.

There are 8 references, 5 of which are Soviet, 1 German, and

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