KUTYAVIN, I.D., prof., doktor tekhn.nauk

Determining losses of power in triple-wound transformers.
Izv.vys.ucheb.zav.; energ. 3 no.5:44-45 My '60.
(MIRA 13:6)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova. Predstavlena kafedroy elektricheskikh stantsiy, setey i sistem.
(Electric transformers)

KUTTAVIN, I.D., doktor tekhn.nauk, prof.

Selecting apparatus and conductors according to heating short circuit currents. Izv.vys.ucheb.zav.; energ. 3 no.6:28-29 Je '60. (MIRA 13:6)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova.
(Electric apparatus and appliances)

KUTYAVIN, I.D., prof., doktor tekhn.nauk; CHINENOV, P.P., inzh.

Conditions for using the "Basic systematic rules of technical and cost accounting in power engineering." Izv. vys. ucheb. zav.; energ. 3 no. 9:124-127 S '60. (MIRA 13:9)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M. Kirova. Predstavlena nauchnym seminarom kafedry elektricheskikh stantsiy, setey i sistem.
(Electric utilities--Accounting)

KUTYAVIN, I.D., CHINENOV, P.P.

Determining the efficiency of expenditures in comparing hydroelectric power plants with thermal power plants which are replacing them. Izv.Sib.otd.AN SSSR no.7:3-10 '60.
(MIRA 13:8)

1. Tomskiy politekhnicheskiy institut.
(Electric power plants)

KUTYAVIN, I.D., doktor tekhn.nauk, prof.

Economically effective choice of the power rating of electric transformers. Izv. vys. uchab. zav.; energ. 5 no.1:1-6 Ja '62. (MIRA 15:2)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova.
(Electric transformers)
(Electric power distribution)

KUTYAVIN, I.D., doktor tekhn.nauk, prof., KRASNOV, V.P., inzh.

Engineering and economic determination of optimum voltage and size of wires in an electric network. Izv. vys. ucheb. zav.; energ. 6 no.7:108-112 Jl '63. (MIRA 16:8)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova. Predstavlena nauchnym seminarom kafedr elektricheskikh stantsiy i elektricheskikh setey i sistem.
(Electric power distribution)

KOSTENKO, M.V.; NEYMAN, L.R.; VENIKOV, V.A.; POPKOV, V.I.; MEL'NIKOV, N.A.; VOROB'YEV, A.A.; KUTYAVIN, I.D.; LYSHCHINSKIY, G.P.

V.K. Shcherbakov; on his 60th birthday and 35th anniversary of his educational work. Elektrichestvo no.8:93-94 Ag '63. (MIRA 16:10)

BABIS, R.S. (Zaporozh'ye); BIKI, M.A. (Zaporozh'ye); GORBUNTSOV, A.F. (Zaporozh'ye); KUTYAVIN, I.D., doktor tekhn.nauk, prof.; DEL', G.V., inzh.; KRASNOV, V.P., inzh.

Complex engineering and economic method for designing electric transformers. Elektrichestvo no.10:85-88 O '63. (MIRA 16:11)

1. Tomskiy politekhnicheskiy institut (for Kutyavin, Del', Krasnov).

DEL', Gennadiy Viktorovich, aspirant; KUTYAVIN, Ivan Dmitriyevich, doktor tekhn.nauk, prof.

Determination of the principal dimensions of electric transformers. Izv. vys. uchab. zav.; elektromekh. 6 no.5:551-556 '63. (MIRA 16:9)

1. Kafedra elektricheskikh stantsiy, setey i sistem Tomskogo politekhnicheskogo instituta (for Del'). 2. Zaveduyushchiy kafedroy elektricheskikh stantsiy, setey i sistem Tomskogo politekhnicheskogo instituta (for Kutyavin).

(Electric transformers)

KUTYAVIN, S.M., inzh.

Processing unhulled cottonseed at the Uch-Kurgan Oil Extraction Mill. Masl.-zhir. prom. 24 no.9:36-41 '58. (MIRA 11:10)

1.Uch-Kurganskiy maslookstraktsionnyy zavod Terganskogo sovnarkhoza.
(Uch-Kurgan--Cottonseed)

KUTYAVIN, S.M., inzh.

Adoption of heavy-type roller mills. Masl.-zhir.prom. 26 no.8: 31 Ag '60. (MIRA 13:8)

1. Uch-Kurganskiy maslookstraktsionnyy zavod.
(Uch-Kurgan--Oil industries--Equipment and supplies)

ISMAILOV, I.M., inzh.; GAVRILENKO, I.V., kand.tekhn.nauk; Prinimali uchastiye: KUTYAVIN, S.M.; ORESHKIN, D.K.; TADZHIBAYEV, G.T.; AKHUNDZHANOV, A.I.; TONKIKH, P.I.; PANCHENKO, A.I.; FEL'DSHER, M.G.; VORONINA, L.D.

Lowering the solvent content in seed meal before treatment in evaporators. Masl.-zhir.prom. 26 no.10:7-13 O '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Ismailov, Gavrilenko). 2. Uch-Kurganskiy maslоekstraksionyy zavod (for Kutyavin, Oreshkin, Tadzhibayev). 3. Srednеaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta zhirov (for Panchenko, Fel'dsher, Voronina). (Uch-Kurgan--Oil industries--Equipment and supplies)

ACC NR: AT6014848 (N) SOURCE CODE: UR/2531/66/000/188/0003/0010

AUTHOR: Kolokolov, V.P.; Barkalova, K.N.; Kuprovich, V.V.; Kutyavin, V.A.; Simonova, R.I.

ORG: None

TITLE: On a more precise method of mapping the number of lightning flashes

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 188, 1966. Atmosphernoye elektichestvo (Atmospheric electricty), 3-10

TOPIC TAGS: atmospheric electricity, thunderstorm activity, lightning, ~~lightning occurrence density~~ WEATHER MAP

ABSTRACT: The paper discusses improved methods for mapping the geographical density of lightning flashes. - Lightning discharge counters with a known effective registration radius (defined as the maximum one within which all discharges are registered), were used. An expression for the effective radius, derived for wide band (2-20 kc) counters from a previously published (referenced) paper of L.G. Makhotkin, was too sensitive to its coefficient's errors; therefore, simultaneous registration with a narrow band (56-62 kc) counter was employed. Thunderstorm activity was expressed as the monthly number of discharges per 100 km^2 of the recording station vicinity area. Thunderstorm activity over the North Atlantic has been also evaluated from British MGG and MGS (unreferenced) radiolocation data. Dependence of thunderstorm activity, in

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ACC NR: AT6014848

form of number of discharges per 100 km^2 per month and also number of days with thunderstorms per month, - vs. a temperature-humidity index "te" was determined and established. The temperature-humidity index chosen was represented by the product of the temperature in ^{o}C x absolute humidity in millibars. Comments on further development are given. Orig. art. has: 2 figures, 3 formulas and 4 tables.

SUB CODE: 04/ SUBM DATE: None/ ORIG REF: 006/ OTH REF: 007

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KUTYAVIN, V.A.

Deviation of thunderstorm activity from the mean climatological norm. Trudy GGO no.177:37-38 '65.

(MIRA 18:8)

KUTYAVINA. L. A. Cand Med Sci -- (diss) "Dynamics of the bromide content in the blood and the state of higher nervous activity in patients with hypertension during their treatment with sodium bromide." Mos,1957. 13 pp. (Acad Med Sci USSR). 200 copies. (KL, 8-58, 108)

KUTYAVINA, L.A.

Dynamics of the bromine content of the blood and of the higher nervous activity in hypertension patients following treatment with sodium bromide. Gig.bol. no.5:43-52 '58. (MIRA 13:5)
(BROMIDES IN THE BODY) (HYPERTENSION) (NERVOUS SYSTEM)

KUTYAVINA, M.A.

Observations on trade inversions during the 26th cruise of the "Vitiaz'." Trudy Inst.okean. 40:44-46 '60. (MIRA 14:8)
(Pacific Ocean—Trade winds)

SHKOLYAR, L.F.; MAMONTOV, N.V.; GOL'DEVICH, A.A.; MAYOROVA, Z.V.; KOSTROMINA, N.V.; KUTYAVINA, V.M.; ROMALIS, F.I.; KAPLINSKAYA, L.G., red.; DROZHZHINA, L.P., tekhn. red.

[Transactions of the Soviet Antarctic Expedition] Trudy Sovetskoi antarkticheskoi ekspeditsii, 1955. Leningrad, Izd-vo "Morskoi transport." Vol.23. [Second Continental Expedition, 1956-1958; observational data] Vtoraia kontinental'naia ekspeditsiia, 1956-1958 gg.; materialy nabliudenii. Pod red. L.V.Dolganova. 1961. 277 p. (MIRA 14:11)

1. Sovetskaya antarkticheskaya ekspeditsiya, 1955. 2. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for all except Kaplinskaya, Drozhzhina).

(Antarctic regions—Solar radiation)

MOSTOVOY, V.A.; KUTYAYEV, V.N.

Automatic block systems should hve dependable rail networks.
Avtom., telem.i sviaz' 4 no.3:26-27 Mr '60. (MIRA 13:7)

1. Nachal'nik sluzhby signalizatsii i svyazi Privolzhskoy dorogi (for Mostovoy). 2. Nachal'nik laboratorii signalizatsii i svyazi Kalininskoy dorogi (for Kutyayev).
(Railroads--Signaling--Block system)
(Railroads--Rails)

KUTYAYEV, V.N.

A portable device for testing electron-tube voltmeters. Avtom., telem. i sviaz' 7 no.1:24-26 Ja '63. (MIRA 16:2)

1. Nachal'nik filiala laboratorii svyazi Moskovskoy dorogi.
(Electron-tube voltmenter—Testing)

YAGLOV, V.V., inzh.; KUTYAYEV, Yu.N.

Rapid crosscutting at the "Bitiz" mine. Shakht.stroi. no.6:27 Je '59. (MIRA 12:9)
(Czechoslovakia--Mining engineering)

KUTYBA, Janusz; PAWLICKI, Marek

Arterial blood pressure in workers of 2 different plants in Krakow. Pol. tyg.lek. 18 no.50:1874-1876 9 D'63

1. Z I Kliniki Chorob Wewnetrznych AM w Krakowie; kierownik: prof.dr.med. Leon Tochowicz.

12.9100

S/018/61/000/001/002/005
A110/A026

AUTHOR: Kut'yenkov, A., Engineer, Colonel

TITLE: Excavation of Trenches and Pits in Frozen Soil

PERIODICAL: Voyennyy vestnik, 1961, No. 1, pp. 92 - 93

TEXT: Excavation of trenches and pits in soil frozen to a depth of 30 - 35 cm is possible only if the frozen layer is broken up by explosives. For quick drilling of boreholes for blasting charges a new method was developed using a drilling set which consists of a small-sized mobile power plant and 3 drills. At simultaneous use of 2 drills, boreholes 42 mm in diameter and 1 m deep can be drilled per hour on a 35 - 40 m long strip. The depth of the boreholes is: $h = \frac{3}{4} a = \frac{3}{4} 0.8 = 0.6$ m, where a = depth of the frozen layer. The weight of one blasting charge (C) is: $C = 0.7 \cdot Ah^3 = 0.7 \cdot 1.2 \cdot 0.6^3 = 0.182$ kg. Using a blasting charge of three 75 g trotyl catridges with a total weight $C_1 = 0.225$ g the blasted area will be 2R and is computed by

$$R = \sqrt[3]{\frac{C_1}{A}} = \sqrt[3]{\frac{0.225}{1.2}} = 0.57 \text{ m, i.e., } 2R = 1.14 \text{ m,}$$

which corresponds to the predetermined width of the trench. The distance between

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Excavation of Trenches and Pits in Frozen Soil

the boreholes will be 1R = 0.6 m, i.e., 1,670 boreholes on 1 km. For the drilling of boreholes a thermodrill developed from the RTB-61 (RTB-V1) hand drill was used. The temperature and the gas flow velocity through the jet nozzle of the combustion chamber of the drilling set (Fig. 4) permits a quick drilling of boreholes. There are 4 figures.

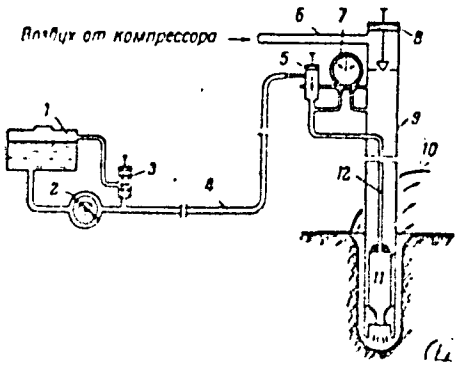

Figure 4: Schematic diagram of the thermic drilling set. 1 - fuel tank; 2 - fuel pumps; 3 - pressure regulating valve; 4 - fuel hose; 5 - fuel cock; 6 - air hose; 7 - dual manometer; 8 - air cock; 9 - rod; 10 - protective shield; 11 - combustion chamber; 12 - fuel pipe.

KUTYEV, K.M.

1

Kutyev, K. M. SL-isomorphisms of partially ordered locally nilpotent groups. Uspehi Mat. Nauk (N.S.) 11 (1956), no. 2(68), 193-198. (Russian)

An SL-isomorphism of a partially ordered locally nilpotent torsion-free group G is an isomorphism mapping the lattice of all semigroups in G (including the empty semigroup) onto the corresponding lattice of a group G^*. A semigroup in G not containing the inverses of its elements is called pure. Various properties preserved by SL-isomorphisms are studied, culminating in the principal result that under an SL-isomorphism of G the image of a pure isolated invariant semigroup with identity is a semigroup in G^* with the same properties. *R. A. Good.*

1. KUTYEV, V. S.

2. USSR (600)

4. **Horse Racing**

7. Fifteen day cross-country race of horses from the S. M. Budennyy stud farm. Konevodstvo 22 no. 10 1952

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

S/081/60/000/017/013/016
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 17, p. 372, # 70452

AUTHORS: Kryukov, S.I., Ki[illegible]yin, A.M., Levskaya, G.S., Terenitsyna, Ye.P., Ustavshchikova, Z.F., Farberov, M.I.

TITLE: Technical Mode of Triethylaluminum Synthesis

PERIODICAL: Uch. zap. Yaroslavsk. tekhnol. in-ta, 1959, Vol. 3, pp. 5-17

TEXT: The authors developed a technical mode of preparing ethylaluminum-sesquichloride (I) with a yield of about 100% on the basis of a method described (Grosse, A.V., Mavity, J.M., Organ. Chem., 1940, No. 5, p. 106) which consists in the interaction of C_2H_5Cl (II) and Al in the presence of 5-10% C_2H_5Br (III) with relation to Al. I_2, (I) and their mixtures were tested as initiators yielding unsatisfactory results. It is assumed that the process is initiated by intermediately forming ethylaluminumsesquibromide, in the case that III is used. I is transformed into $(C_2H_5)_3Al$ (IV) by processing with dispersed Na metal in organic solvents (benzine [illegible], refined kerosene, xylene, isooctane). Na is taken in excess of 5-15%. I is introduced into the reaction by portions in the form of

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A006/A001

Technical Vide of Triethylaluminum Synthesis

30% solution in hydrocarbon, the yield of IV is 70-76% in relation to I, and 70% in relation to II or Al. All the experiments are carried out in dry N_2 atmosphere, free of O_2. Amounts of 40 g Al and 24 g III are heated, while stirring, to 90°C and 160 g (110%) II is added by portions of 10 ml, the reaction lasts 8 hours. I is obtained in the form of a colorless or slightly colored liquid, the yield is 99% boiling temperature 117-122°C/50 mm. In 100 g of the solvent 29 g Na is heated at 100°C, into the hot dispersion 91.4 g I is added during 20 min in the form of a 30% solution in benzine-rubber (boiling temperature 100-115°C), mixed for 30 minutes at 105-110°C and filtrated. The precipitate is washed with 250 c.c. of solvent. IV is obtained in the form of a colorless liquid, self-sublimating in air, the yield is 32.5 g, the boiling temperature 100-107°C/10 mm, d 0.872. The authors present two tables and schematic diagrams of metallic apparatus and laboratory equipment including descriptions.

S. Davydova

Translator's note: This is the full translation of the original Russian abstract.

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Kut'yin, I.M.

12(3); 28(1) PHASE I BOOK EXPLOITATION SOV/2776

Novoye v zheleznodorozhnoy avtomatike, telemekhanike i svyazi; sbornik statey (New Developments in Railroad Automation, Remote Control, and Communications; Collection of Articles) Moscow, Transzheldorizdat, 1959. 198 p. 3,000 copies printed.

Eds. (Title page): B.S. Ryazantsev, Candidate of Technical Sciences, and A.M. Pugodin, Engineer; Ed. (Inside book): G.I. Marenkova, Engineer; Tech. Ed.: G.P. Verina.

PURPOSE: This collection of articles is intended for engineers and technicians specializing in railroad automatic and remote control and communications.

COVERAGE: The articles in this book concern the following problems: the application of automatic control in the electric power supply of automatic block-signalling systems; the construction of electric interlocking systems in switching yards of railroad stations; modernization of route control systems; equipping of runs with a relay-electromechanical system of semiautomatic block signals; protection of track circuits of coded automatic block-signalling systems and telephone networks of overhead communication lines against traction currents in the electrified sections of railroads. A radar device for measuring the speed of railroad cars on slopes and a signalling system for subways are described. Some data are also given from non-Soviet periodicals on automatic and remote control systems and communications and on railroads in the United States. There are no references.

[illegible], I.I., Engineer. Relay-Electromechanical System of Semiautomatic Block Signalling 59

The author describes a system of semiautomatic block signals called "relay-electromechanical" which was developed in 1956-1957 at the Giprotranssignalsvyaz' and which was found to work satisfactorily on a few runs.

[illegible], I.S., Engineer. Route Lever System in Route Control Systems 75

The author is of the opinion that the route-control system of Engineers Batalevich and Grigorev, widely used in the USSR, applies only to small railroad stations. For large railroad stations and sidings a route lever system was developed which can handle both incoming and outgoing trains from all routes and in all directions. Operation of this system for over five years gave satisfactory results. A description of the system is given.

Trukhachev, V.I., and Ye.N. Kisalev, Engineers. Route Control Systems of the Blocking Type 89

The Design Office of the Main Administration of Signalling and Communications of the Ministry of Transport in 1957 developed a new system of route control. This system consists of standard switch-locking arrangements (with route and signal control locks) and central tower equipment. The authors describe the system in detail.

Bolgtsev, A.K., Engineer. Signalling System on Subway Lines 102

The author describes the two-aspect signalling system used in the Moscow and Leningrad subways.

Khanis, A.I., Engineer. Radar Device for Measuring Speed 113

In 1955 the Giprotranssignalsvyaz' started the development of a system of automatic speed regulation of railroad cars in hump yards. In 1957 experimental models of an electronic speedometer of the IES-3 type and of a radar meter of the KIR-1 type were developed and tested under operating conditions. The author describes these devices, which were built on the Doppler-effect principle.

Fel'dman, A.L., Engineer. New Data on the Effect of the Contact Wire Network of D-c Electric Railroads on Telephone Circuits of Overhead Communication Lines 130

At the TsNII MPS studies of the causes of the disturbing effects of d-c contact wire networks on long-distance service channels are being conducted, and methods for the suppression of these disturbances are planned. The author describes the initial results of this investigation.

[illegible], Candidate of Technical Sciences. Development of Automatic and Remote Control on Railroads in the USA 147

This is a descriptive article of achievements in the US in the above field during the last 3 to 5 years.

Pugodin, A.M., Engineer. Communications on Railroads in the USA 173

This is a descriptive article on the various types of communications systems on railroads in the USA.

KUTYLOVSKII, M. P.

Podvizhnoi sostav tramvaia. [Streetcar Rolling stock]. Dopushcheno v kachestve uchebnika dlia tekhnikumov gorodskogo elektrotransporta. Moskva, Izd-vo Ministerstva kommunal nogo khoziaistva
RSFSR, 1948. 423 p. illus.
Bibliography: p. [421]

DLX: TF710.K8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified

KUTYLOVSKIY, M.

Trolley Buses

"Trolley Buses." Part 1. Mechanical equipment. Reviewed by N. Matsura, Yu. Zalonen, M. Kutylovskiy, V. Sosyants. Zhil. -kom. khoz. 2 no. 2, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLA [illegible]D

KUTYLOVSKIY, M.P.

[Electric streetcar equipment; rolling stock] Elektricheskoe oborudovanie tramvaia (podvizhnogo sostava) Utverzhdeno v kachestve uchebnika dlia uchashchikhsia elektromekhanicheskikh tekhnikumov. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1953. 274 p. (MLRA 7:6)
(Street-railroads--Equipment and supplies)

YEFREMOV, I.S. [author]; IVIN, K., inzhener; KUTYLOVSKIY, M., dotsent [reviewers]

Certain shortcomings of a useful book. ("Trolley buses." Part II. I.S. Efremov. Reviewed by K.Ivin, M.Kutylovskii). Zhil.-kom.khoz. 3 no.8:30 Ag '53. (MLRA 6:8)

(Trolley buses) (Efremov, I.S.)

KUTYLOVSKIY, M.P.; SURGUCHEV, V.D.; MOLODYKH, I.A., redaktor; IOFFE, M.L., redaktor; PETROVSKAYA, Ye., tekhnicheskiy redaktor.

[Electric traction in city transportation] Elektricheskaia tiaga na gorodskom transporte. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1954. 354 p. (MLRA 7:12)
(Electric railroads)

KUTYLOVSKIY, M.P.

GALONEN, Yu.M., kandidat tekhnicheskikh nauk.

"Electrical equipment of a streetcar." M.P.Kutylovskii. Reviewed by IU.M.Galonen. Elektrichestvo no.10:96 O '54. (MLRA 7:9)
(Electric railroads--Cars) (Kutylovskii, M.P.)

KUTYLOVSKIY, M. P.

KUTYLOVSKIY, M. P. "Investigation of the Resistance to Train Movement offered by Surface Electric Railroad Transportation." Min Higher Education USSR. Moscow Automobile and Road Inst imeni V. M. Molotov. Moscow, 1956. (Dissertation for the Degree of Candidate in Sciences) TECHNICAL

Sc: Knizhaya Letopis', No. 17, 1956.

AUTYLOVSKIY, Mikhail Petrovich; KHAVIN, Mikhail Nikolayevich; MOLODYKH I.A., redaktor; VARGANOVA, A.N., redaktor izdatel'stva; PETROVSKAYA, Ye.S., tekhnicheskiy redaktor

[Streetcars built by Riga Car Building Plant] Tramvainye vagony RVZ. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1957. 180 p. (MLRA 10:10)
(Riga--Streetcars)

KUTYLOVSKIY, M., kandidat tekhnicheskikh nauk.

Determining the amount of resistance to traction in municipal electric transport. Zhil.-kom.khoz. 7 no.7:20-22 '57. (MIRA 10:10)
(Electric locomotives)

MARKIN, Vladimir Ivanovich, inzh.; KUTYLOVSKIY, Mikhail Petrovich, dotsent, kand.tekhn.nauk; MOROZOVA, O.F., red.; FEDOTOVA, A.F., tekhn.red.; PONOMAREVA, A.A., tekhn.red.

[Manual training in school shops; a textbook for teachers in grades five to seven of secondary schools] Prakticheskie zaniatiia v shkol'nykh uchebnykh masterskikh; uchebno-tekhnicheskoe posobie dlia prepodavatelei V-VII klassov srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958. 391 p. (MIRA 12:2)

(Manual training)

8(6)

AUTHOR : Kutylovskiy, Mikhail Petrovich, Candidate SOV/161-58-2-30/30
of Technical Sciences, Docent on the Chair for Electrical Transportation, Moscow Power Engineering Institute

TITLE: Examination of Tractive Resistance in Rolling Material of Street Cars (Issledovaniye soprotivleniya dvizheniyu podvizhnogo sostava tramvaya)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 2, pp 234 - 241 (USSR)

ABSTRACT: First, the various methods of determining tractive resistance are described. Reference is made to the scientific research carried out 1954 - 1955 by the author. Next, checking of trains on the line in order to determine specific tractive resistance is described. The following three variations of measuring coasting were applied: 1) the chronometric method, 2)use of a speedometer and 3) oscillographic recording of speed and time. The obtained dependences of the tractive resistance from speed are shown in a diagram. The various new empirical formulae are investigated and a formula for computing the tractive resistance is recommended. This

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Examination of Tractive Resistance in Rolling Material SOV/161-58-2-30/30
of Street Cars

formula is based on investigations conducted on street cars on the line, in the tramway depot, examination of traction motors on the test stand, aerodynamic testing of car models and by the theoretical analysis of main-tractive resistance components. There are 6 figures and 1 table.

ASSOCIATION: Kafedra elektricheskogo transporta Moskovskogo energeticheskogo instituta (Chair for Electrical Transportation, Moscow Power Engineering Institute)

SUBMITTED: February 18, 1958

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USCOMM-DC-60,876

10(6) SOV/161-58-3-24/27

AUTHOR: Kutylovskiy, M. P., Candidate of Technical Sciences, Docent (Moscow)

TITLE: Aerodynamic Tests on the Model of the Streetcar "MTV" (Aerodinamicheskiye ispytaniya modeli vagona "MTV")

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 3, pp 219 - 222 (USSR)

ABSTRACT: The coefficient of streamlining is considered to be of importance for economical reasons, and aerodynamic tests were carried out with a 1:10 scale model of the Streetcar "MTV-82" at the laboratory of the Filial TsAGI im. Zhukovskogo (Branch of the TSAGI imeni Zhukovskiy). Two figures (Figs 1,2) show the model and the arrangement in the wind channel respectively. The coefficient of wind velocity is once defined as a function of wind velocity, and another time as a function of the angle formed by the longitudinal axis of the car and the wind direction. Two diagrams (Figs 3,4) show the results obtained by measuring the above coefficients, and a formula for calculating aerodynamic drag as well as a diagram of the latter (Fig 5) are given. In conclusion, the results obtained by experimental and theoretical investigations are enumerated and conclusions are drawn with respect to the construction of

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Aerodynamic Tests on the Model of the Streetcar "MTV" SOV/161-58-3-24/27

the body of the car. The energy necessary for overcoming aerodynamic drag within one year is mentioned as amounting to 6400 kwh. Finally, the results obtained by controls carried out by the Moskovskogo tramvayno-trolleybusnogo upravleniya (Moscow Tramway-Trolleybus Administration) in 1956 and 1956, which show considerable progress, are mentioned. There are 5 figures.

This article was recommended for publication by the Kafedra elektricheskogo transporta Moskovskogo energeticheskogo instituta (Chair for Electrical Transports at the Moscow Institute of Power Engineering)

ASSOCIATION: Kafedra elektricheskogo transporta Moskovskogo energeticheskogo instituta (Chair for Electrical Transports at the Moscow Institute of Power Engineering)

SUBMITTED: February 18, 1958

Card 2/2

KUTYLOVSKIY, Mikhail Petrovich; CHERNOV, A.P., red.; OTOCHEVA, M.A., red.izd-va; LELYUKHIN, A.A., tekhn.red.

[Electric equipment for the rolling stock of street railways] Elektricheskoe oborudovanie podvizhnogo sostava tramvaia. Izd.2., perer. i dop. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 371 p. (MIRA 13:11)
(Street railways--Cars)

KUTYLOVSKIY, Mikhail Petrovich; KOBOZEV, Vadim Mikhaylovich; SHREDER, Boris Leonidovich; KHAVIN, Mikhail Nikolayevich; CHERTOK, M.S., red.

[Mechanical equipment of the rolling stock of street railroads] Mekhanicheskoe oborudovanie podvizhnogo sostava tramvaia. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 405 p. (MIRA 17:7)

KUTYLOVSKIY, Mikhail Petrovich, dots.; [illegible], [illegible] Dmitriyev. [deceased]; CHASOVNIKOV, V.N., red.

[Electric traction in city transportation] Elektricheskaia tiaga na gorodskom transporte. Izd.2., perer. i dop. Moskva, Stroiizdat, 1964. 343 p. (MIRA 18:3)

KUTYREV, E.I.

Formation of pisolitelike magnetite and pisolitic tuffite.
Izv.AN Arm.SSR. Geol.i geog.nauki 15 no.6:25-34 '62.
(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut, Leningrad.

(Magnetite) (Tuffites) (Pisolite)

KUTYREV, E.I.

Tubular amygdules in the dike of microdiabase (Tunguska syneclise of the Siberian Platform). Zap. Vses. min. ob-va. 94 no.4: 454-459 '65. (MIRA 18:9)

BOGDANOV, Yu. V.; KUPTSEV, E. L.

"Conditions of the Formation of Alpine-type Veins in the Copper-bearing Beds of the Udokan Deposit - North-Eastern Transbaikalia."

report presented at the Symp on Post Magmatic Ore Deposits, Prague, 16-21 Sep 63.

BOGDANOV, Yu.V.; KOCHIN, G.G.; KUTYREV, F.I.; [illegible], F.V.; PROKHOROV, V.P.

Geology, characteristics of the distribution and conditions governing the formation of cuprous sandstones in the northeastern part of the Olekma-Vitim highland. Sov.geol. 8 no.11: 3-18 N '65. (MIRA 19:1)

GOGOLIN, V.K., inzh.; KUTYREV, I.A., inzh.; VLASOV, A.S., inzh.; IFTINKA, G.A., red.izd-va; GOL'BERG, T.M., tekhn. red.

[Handbook on the technical maintenance of tower cranes] Rukovodstvo po tekhnicheskomu ukhodu za bashennymi kranami (NP-61). Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 85 p. (MIRA 15:5)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Cranes, derricks, etc.—Maintenance and repair)

KUTYREV, I.A., inzh.

Breakdown of parts of the caterpillar tread of the E-304, TE-3 and TE-2M excavators. Mekh. stroi. 20 no.6:17-18 Je '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR.

(Excavating machinery)

[illegible], S.

USSR/Govt Financial Controls 4900. Oct 1947
Bibliography

"Review of 'Financial Control in the USSR' by Prof N. N. Rovinskiy," G. Kutozov, S. Kutyrev, S. Glezin, 7 pp

"Sov Finansy" Vol VIII, No 10

Book contains ten chapters. First discusses concept and significance of control in socialist state, particularly financial control. Chapter two discusses financial control organization in detail and its transformation during various phases of socialism. Chapter three deals with organs of state and financial control, regulations dealing with control, and responsibilities of various individuals and institutions. Chapter four takes up financial control foreign states: England, USA, France, and Belgium. Remainder of book is devoted to organizations and methods of control as applied to budgets, budgetary institutions and industrial enterprises. Book is reviewed favorably but defects are pointed out by all three reviewers.

LC

20G80

KUTYREV, S.; RYUMIN, S., redaktor; SUBBOTINA, K., redaktor; LEBEDEV, A., tekhnicheskiy redaktor.

[Verifying the use of working capital in industrial enterprises] Proverka ispol'zovaniia oborotnykh sredstv na promyshlennom predpriiatii. Moskva, Gosfinizdat, 1954. 92 p. [Microfilm] (MIRA 8:2)
(Accounting)

KAL'KUTIN, Vasiliy Afanas'yevich, dots.; MITROFANOV, Vasiliy Mitrofanovich, dots.; KUTYREV, S., otvetstvennyy red.; KONDRAT'YEVA, A., red.izd-va; LEBEDEV, A., tekhn.red.

[Auditing and control of the economic activities of industrial enterprises] Revizila i kontrol' khozialstvennoi deiatel'nosti promyshlennykh predpriiatii. Izd. 2-e, perer. i dop. Moskva, Gosfinizdat, 1957. 279 p. (MIRA 11:4)
(Industrial organization)

KUTUZOV, Grigoriy Aleksandrovich; KUTYREV, S., red.; SHAVRIN, V., red.; TELEGINA, T., tekhn.red.

[Inspection in financial organs] Revizionnaia rabota v finansovykh organakh. Moskva, Gosfinizdat, 1958. 194 p. (MIRA 12:2)
(Auditing)

AREF'YEV, A., arkhitektor; ZAKOV, I., arkhitektor; KUTYREV, Ye., arkhitektor

New center for Sochi. Na stroi. Ros. 3 no.5:6-8 My '62. (MIRA 15:9)

(Sochi—City planning)

KUTYREVA, A.P.

Periodicity in changes of optical characteristics of the earth's atmosphere. Trudy Sekt. astrobot. AN Kazakh.SSR 3:219-258 '55. (MLRA 9:12)

(Atmosphere) (Meteorological optics)

KUTYREVA, A.P.

Is the existence of the vegetation on Mars refuted by V.G. Fesenkov's article? Trudy Sekt. astrobot. AN Kazakh. SSR 3:269-271 '55. (MLRA 9:12)

(Mars (Planet)) (Botany)

KUTYREVA, A.P.

KRISHTOFOVICH, A.N. [deceased]; L'VOV, V.Ye.; MARKOV, A.V., professor; KOROLEV, A.V.; GOLOSNITSKIY, L.P.; OGORODNIKOV, K.F., professor; EYGENSON, M.S., professor; LOZIN-LOZINSKIY, L.K., professor; VOROB'YEV, A.G., professor; KOZLOVA, K.I.; KAZENNOV, B.A.; SUSLOV, A.K.; GEL'FREYKH, G.B.; VASIL'YEV, O.B.; LICHKOV, B.L., professor; SYROMYATNIKOV; KUTYREVA, A.P.; KATTERFEL'D, G.N.; SYTINSKAYA, N.N.; SHARONOV, V.V.; SUVOROV, N.I.; KUCHEROV, N.I.; TIKHOV, G.A.; GORSHKOV, P.M.

Addresses by A.N.Krishtofovich and others. Trudy Sekt.astrobot.AN Kazakh.SSR 4:68-157 '55. (MLRA 9:12)

(Mars (Planet))

KUTYREVA A.F.
p. 2

3 (1) PHASE I BOOK EXPLOITATION SOV/1881

Akademiya nauk Kazakhskoy SSSR. Sektor astrobotaniki.

Trudy, t. 6 (Transactions of the Astrobotanical Sector, Kazakh SSR. Academy of Sciences, Vol 6) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 207 p. Errata slip inserted. 1,300 copies printed.

Eds.: L.N. Moskvicheva and T.I. Shevchuk; Tech. Ed.: P.F. Alferova; Editorial Board: G.A. Tikhov (Resp. Ed.), N.I. Suvorov (Deputy Resp. Ed.) and V.S. Sokolova (Secretary)

PURPOSE: This book is intended for scientists engaged in the fields of astrobotany and astronomy.

COVERAGE: The book summarizes the results gathered from observations of the planet Mars made during its most favorable opposition in 1956. New evidence was obtained to prove the existence of vegetation on that planet. Visually, observations were carried out with the Bredikhin astrograph and the Meniscus telescope AZT-7 (the Maksutov type). Photographically and electrophotometrically they were made using light filters. The book contains a number of critical studies

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on the work Zhizn'vo Vselennoy by A.I. Oparin and V.G. Fesenkov, in which the existence of any vegetable life had been denied. Each article is accompanied by references.

TABLE OF CONTENTS:

KUTYREVA, A.P.

Mars in 1956. Trudy Sekt.astrobot.AN Kazakh SSR 7:8-46 '59. (MIRA 13:5)

(Mars(Planet))

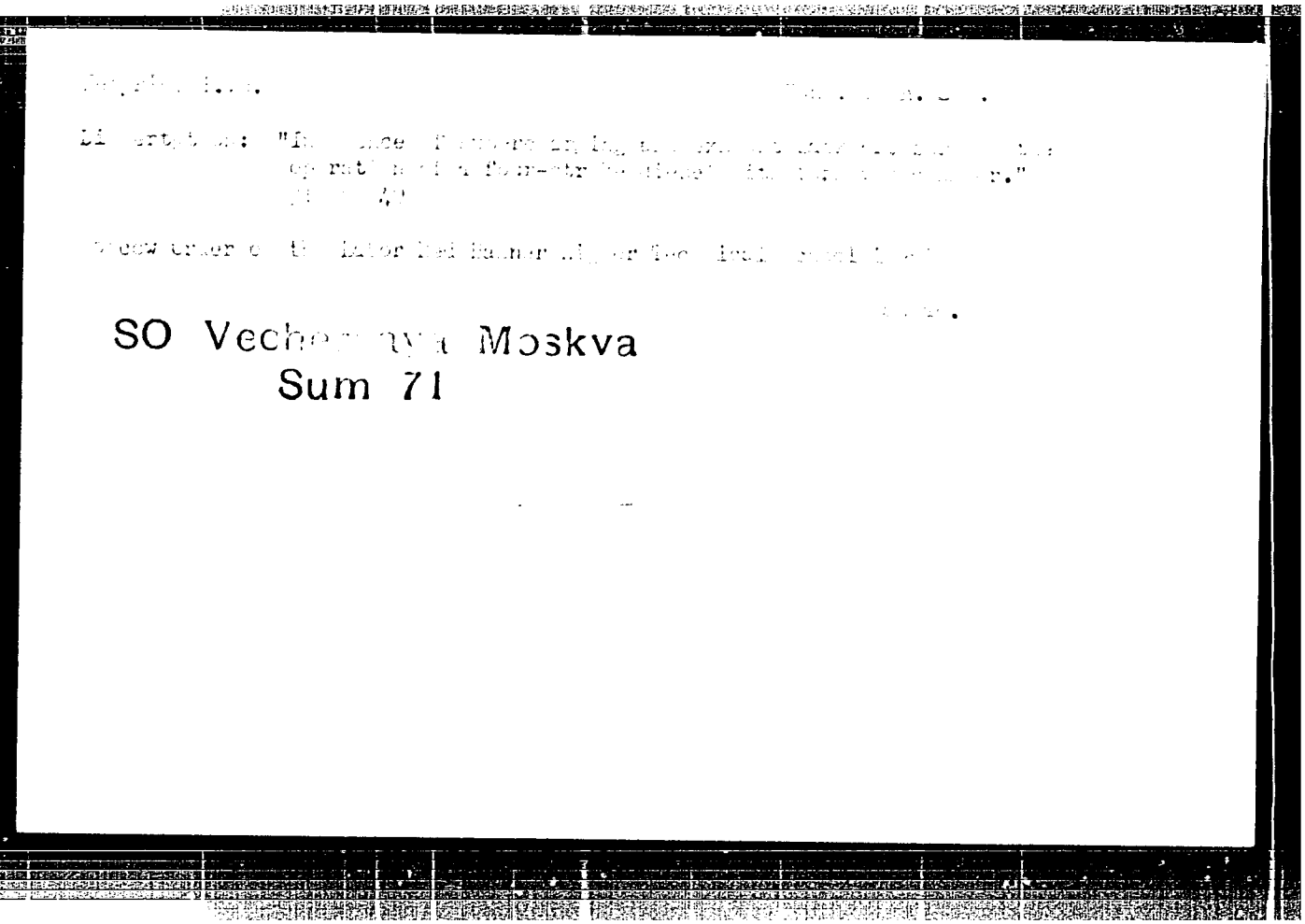
KUTYREVA, A.P.; INTYKBAYEVA, B.B.; KUATOVA, Zh.

Optical properties of alpine plants in the eastern Pamirs. Trudy Sekt. astrobot. AN Kazakh. SSR 8:65-103 '60. (MIRA 13:12)
(Pamirs--Plants--Optical properties)
(Altitude, Influence of)

KUTYREVA, V.P.; KAPLAN, S.L., PIMENOVA, V.M.; GVOZDEVA, A.I.; TITKOVA, Z.V.; LECHITSKIY, V.I.; LEPIKHOVA, M.F.; BERLYANT, I.Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor

[Standard operations involved in trimming; a collection] Tipovye tekhnologicheskie protsessy proizvodstva otdelok; sbornik. Moskva, Vses.koop.izd-vo, 1957. 94 p. (MLRA 10:7)

1. Russia (1917- R.S.F.S.R.) Sovet promyslovoy kooperatsii. TSentral'naya opytno-tekhnicheskaya shveynaya laboratoriya. (Dressmaking)



SO Vechernyaya Moskva
Sum 71

KOSHKIN, Valentin Konstantinovich, professor; LEVIN, Boris Ruvimovich; KUTYRIN, Igor' Nikolayevich; BORISOV, Boris Petrovich; PORTNOV, D.A., doktor tekhnicheskikh nauk, retsenzent; LUSHPA, A.I., kandidat tekhnicheskikh nauk, redaktor; UVAROVA, A.F., tekhnicheskiy redaktor

[Free-piston engines in heat power plants] Dvigateli so svobodno dvizhushchimisia porshniami v teplosilovykh ustanovkakh. Pod red. V.K.Koshkina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 227 p. (MLRA 10:6)
(Gas turbines) (Gas and oil engines) (Pistons)

PHASE I BOOK EXPLOITATION SOV/5405

Avduyevskiy, Vsevolod Sergeyevich, Yuriy Ivanovich Danilov, Valentin Konstantinovich Koshkin, Professor, Igor' Nikolayevich Kutyrin, Militsa Mitrofanovna Mikhaylova, Yuriy Sergeyevich Mikhēyēv, and Oleg Sergeyevich Sergel'

Osnovy teploperedachi v aviatsionnoy i raketnoy tekhnike (Principles of Heat Transfer in Aeronautic and Rocket Engineering) Moscow, Oborongiz, 1960. 388 p. Errata slip inserted. 8,800 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR.

Gen. Ed. (Title page): V. K. Koshkin, Professor; Ed. (Inside book): A. S. Ginevskiy, Candidate of Technical Sciences; Ed. of Publishing House: E. A. Shekhtman; Tech. Ed.: V. P. Rozhin; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This textbook is intended for students in aeronautical

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Principles of Heat (Cont.) SOV/5405

schools of higher technical education. It may also be useful to engineering and technical personnel and aspirants specializing in aircraft and rocket heat-exchange problems.

COVERAGE: The book presents the fundamental problems of heat exchange in modern aircraft and rocket engineering. Data were taken from both Soviet and non-Soviet sources. Problems of high-speed and high-temperature gas flow in the presence of chemical reactions in the boundary layer are discussed, and hydrodynamic methods of heat protection of surfaces and heating problems in winged flying vehicles are included. Attention is given to principles of heat exchange in rarefied gases and in nuclear power reactors. No personalities are mentioned. Chapters VIII to XV are based on non-Soviet literature. Chs. I and II were written by Professor V. K. Koshkin, Ch. III by Docent M. M. Mikhaylova, Ch. IV by Docent O. S. Sergel', Chs. V and VI by Docent Yu. S. Mikheyev, Ch. VII by Docent I. N. Kutyrin, Chs. VIII to XVI by Docent V. S. Avduyevskiy, and Ch. XVII by Docent Yu. I. Danilov.

Card 2/20

VASILENKO, Aleksey Nikolayevich, kand. tekhn. nauk; DAYZHANOV, Yevgeniy Vasil'yevich, dots.; ISAYEV, Sergey Ivanovich, kand. tekhn. nauk; KORNEYCHUK, Nikolay Karpovich, kand. tekhn. nauk, dots.; KOFANOV, Vyacheslav Ivanovich; assistent; KRUTOV, Vitaliy Ivanovich, doktor tekhn. nauk, prof.; MIRONOV, Boris Mikhaylovich, kand. tekhn. nauk; NIGMATULIN, Iskander Nigmatulevich, doktor tekhn. nauk, prof.; NOSOV, Mikhail Vasil'yevich, prof.; SAVOYLOV, Mikhail Sergeyevich, assistent; SPORYSH, Igor'Pavlovich, kand. tekhn. nauk, prof.; KHVOSTOV, Viktor Ivanovich, kand. tekhn. nauk; SHISHOV, Yevgeniy Viktorovich, kand. tekhn. nauk; YUDAYEV, Boris Nikolayevich, kand. tekhn. nauk, dots.; KUTYRIN, I.N., dots., kand. tekhn. nauk, [illegible]; SHVEDOV, [illegible], dots., retsenzent; TUPITSYNA, L.A., [illegible]; FUFAYEVA, G.I., [illegible]

[Problems in technical thermodynamics and heat transfer] Sbornik zadach po tekhnicheskoi termodinamike i teploperedache. [By] A.N.Vasilenko i dr. Moskva, Vysshaia shkola, 1964. 369 p. (MIRA 17:4)

1. Prepodavatel'skiy kollektiv kafedry termodinamiki i teploperedachi Moskovskogo vysshego tekhnicheskogo uchilishcha (for all except Kutyrin, Shvedov, Tupitsyna, Fufayeva). 2. Moskovskiy aviatsionnyy institut (for Kutyrin, Shvedov).

L 54053-65 EWT(l)/EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR/EWP(j) Pc-4/Pr-4/Ps-4/
Pl-4/Pu-4 RPL WW/JW/GS/RM

ACCESSION NR: AT5010479 UR/0000/65/000/000/0003/0028

AUTHOR: Koshkin, V. K. (Doctor of technical sciences); Kuznetsov, V. V. (Engineer); Kutyrin, I. N. (Candidate of technical sciences); Lapushkin, N. A. (Candidate of technical sciences)(Deceased)

TITLE: Use of the endothermic coolant decomposition effect for increasing the cooling efficiency

SOURCE: Issledovaniya teploobmena v potokakh zhidkosti i gaza (Investigation of heat exchange in liquid and gas flows). Moscow, Izd-vo Mashinostroyeniye, 1965, 3-28

TOPIC TAGS: coolant, endothermic decomposition, coolant decomposition, heat exchange, cooling efficiency, energy storage capacity

ABSTRACT: Heat exchange processes can be accelerated not only by the use of endothermic phase transitions but also by means of additional endothermic reactions within the coolant. In view of the absence of appropriate data which could influence the choice of the best coolants with optimal cooling decomposition effects, the authors carried out theoretical analyses and approximate evaluations of the energy storage capacity of various dissociating coolants, and determined such capacities experimentally within a given temperature range during heat exchanges between the wall and a moving coolant. The results of this thorough study show

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L 54053-65
ACCESSION NR: AT5010479

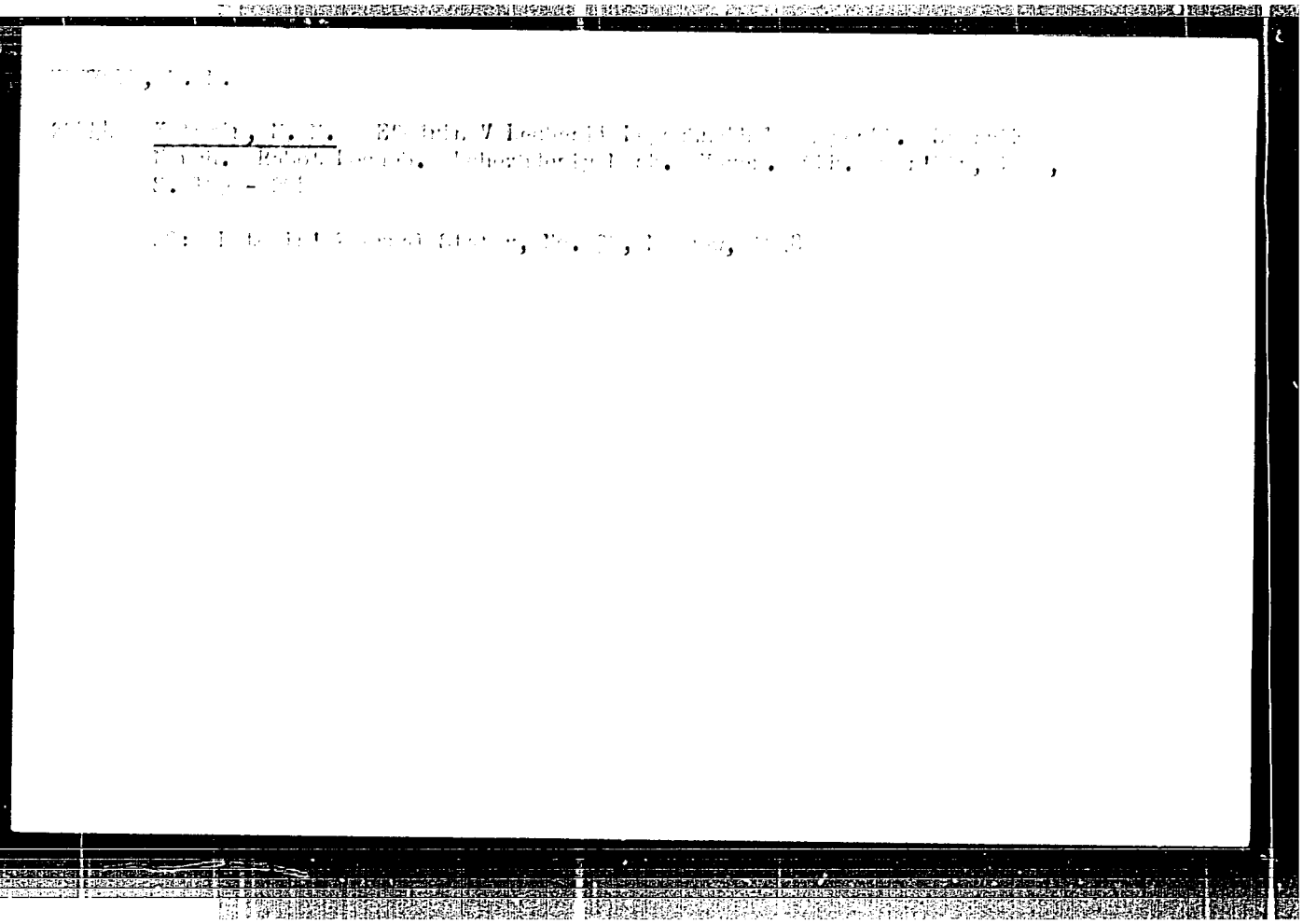
that methyl and ethyl alcohols, ethylene glycol, lithium hydride, lithium ammoniate, ammonium fluoride, and acetic, oxalic, and formic acid exhibit the largest specific energy-storing capacity while ammonia, pentane, isopentane, and air proved to be unsuitable. In spite of the large enthalpy of hydrogen, it can hardly be used as a coolant in mobile devices because its low density makes the use of large reservoirs mandatory. The best are ammonium acetate, a 70% aqueous solution of methyl alcohol, and pure ammonium bicarbonate; all other coolants are close to water vapor. All coolants with the exception of pure ammonium bicarbonate and its 20% aqueous solution leave solid deposits. Orig. art. has: 26 formulas, 17 figures, and 3 tables.

ASSOCIATION: None

SUBMITTED: 11Dec64 ENCL: 00 SUB CODE: ID

NO REF SOV: 005 OTHER: 003

Card 2/2



[illegible], N.N.

"Tonsil Problem in a Clinic." Thesis for degree of Dr. Medical Sci. 19 Nov 50, Acad Med Sci USSR.

Summary 71, 4 Sep 52. Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920020-0"

KUTYRIN, N.A., dotsent, kandidat tekhnicheskikh nauk [deceased].

"Thermostatics." M.F.Okatov. Reviewed by N.A.Kutyrin. [Trudy] MVTU no.27:47-50 '54. (MLRA 7:11)
(Thermodynamics) (Okatov, M.F.)

KUTYRIN, V.V.

V-belt instead of cast iron rings. Kuz.-shtam.proizv. 5 no.5: 49 My '63. (MIRA 16:9)

KUTZ-IN, V.I.

Using styrene acryl resin in repairing machine tools. Stan. i instr. 35 no.11:39-40 N '64. (MIRA 18:3)

L 1662-66 EWT(d)/EWP(e)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(z)/EWP(b)/EWP(l)/EWA(c) JD/HW

ACCESSION NR: AT5022888 UR/2776/65/000/043/0053/0059

AUTHOR: Borok, B. A.; Malin, A. P.; Markelov, V. V.; Andreyev, P. S.; Kutyrina, V. M.; Loginov, A. A.; Grosval'd, V. G.; Aksenov, G. I.

TITLE: Experience in rolling powders in an industrial-type rolling mill

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 43, 1965. Poroshkovaya metallurgiya (Powder metallurgy), 53-59

TOPIC TAGS: rolling mill, powder metallurgy, metal powder, powder metal rolling

ABSTRACT: The authors describe an industrial two-high powder-rolling mill with roll diameters 600 and 900 mm, based on a standard rolling mill originally built in 1940, and equipped with special powder-feeding bunkers. The mill consists of an open-top steel housing with variable positioning of rolls -- they can be aligned either horizontally or at angles of 22.5°, 45°, and 60°C (Figs. 1, 2). Its main drive is powered by a DC 257.4 kw (350 HP) 40-800 RPM motor. It has been used for the experimental rolling of strips from the powders of iron, OKh18N9 stainless steel, molybdenum, and titanium. These experiments demonstrated the

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ACCESSION NR: AT5022888

mill's suitability for organizing the industrial production of poreless strips from the powders of different metals and alloys. Such strips, 0.8-1.0 mm thick, display physical properties that are not inferior to those of strips produced by rolling ingot metal. This strip thickness is in complete agreement with the basic equation of rolling, which implies that strip thickness is a function of roll diameter:

$$\gamma_s = \frac{\gamma_p}{\tau}\left[1 + \frac{D}{\delta} + \frac{\alpha^2}{2}\right], \qquad (1)$$

where γ_p and γ_s are the densities of powder (bulk weight) and strip, respectively, g/cm^3, D is the roll diameter, δ is the thickness of rolled strip, mm; α is the angle of reach, deg; and τ is the coefficient of reduction of the powder during rolling. Hence this basic equation applies not only for laboratory rolling mills but also for industrial rolling mills and can be used in designing the latter. Before the rolling of metal powders can be industriallyintroduced, however, these three problems must be solved: lateral restriction of the zone of deformation of powder in the rolls; continuous, uniform supply of powder to the feeder; and con-

L 1662-66

ACCESSION NR: AT5022888

tinuous sintering of the strip. Orig. art. has: 2 figures, 3 tables, 5 formulas.

ASSOCIATION: none

SUBMITTED: 00	ENCL: 02	SUB CODE: MM,
NO REF SOV: 010	OTHER: 005	

Card 3/3

S/075/60/015/004/023/030/XX
B020/B064

AUTHORS: Mikhaylenko, Yu Ya., Lebedev, N N, Kolchin I K, and Kutyrina, Ye G

TITLE: Analysis of Multicomponent Mixtures From Infrared Absorption Spectra. 2. Information 2. Determination of the Isomers of Chloro Cumenes, Tertiary Butyl Benzenes, and Chloro Diphenyl Methanes

PERIODICAL: Zhurnal analiticheskoy khimii, 1960 Vol 15, No 4 pp 495 - 499

TEXT: The analysis is described in detail in the previous publication of this series (Ref. 1). The spectrophotometer IKS-11 (IKS-11) was used with bulbs of sylvine 0.09 cm thick and with specially purified carbon disulfide as a solvent (Ref. 2). Calibration was made by determining the extinction coefficients of every aromatic compound for every wavelength used. The o-, m-, and p-isomers of chloro cumene, tertiary butyl chloro benzene, and chloro diphenyl methane

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Analysis of Multicomponent Mixtures From Infrared Absorption Spectra Information 2. Determination of the Isomers of Chloro Cumenes, Tertiary Butyl Benzenes, and Chloro Diphenyl Methanes

S/075/60/015/004/023/030/XX
B020/B064

were used for calibration. Chloro cumene and butyl chloro benzene were obtained by the Grignard reaction from the respective bromo-chloro benzene isomer and alkyl bromide using n-heptane instead of absolute ether as a solvent (Ref 3). The chloro diphenyl methane isomers resulted from the condensation of the respective chloro benzyl chloride with benzene in the presence of $AlCl_3$. The constants of the compounds are given in Table 1. First, all compounds were qualitatively analyzed to determine the absorption maxima of the isomers. To find the absorption bands of the individual isomers, the data published on disubstituted benzene derivatives were used, i.e. the band at 770 - 740 cm^{-1} is characteristic of the ortho-disubstituted derivatives, the bands at 800 - 770 cm^{-1} and 710 - 690 cm^{-1} of the meta-disubstituted derivatives, and the band at 855 - 790 cm^{-1} of the para-disubstituted derivatives (Refs. 8, 9). Figs. 1, 2, and 3

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Analysis of Multicomponent Mixtures From Infrared Absorption Spectra. Information 2. Determination of the Isomers of Chloro Cumenes, Tertiary Butyl Benzenes, and Chloro Diphenyl Methanes

S/079/60/015/004/023/030/XX
B020/B064

show the absorption spectra of the chloro-alkyl benzene isomers studied. The absorption band lying in the range for p-, m-, and o-disubstituted benzenes are obtained on the curves. The wavelengths most convenient for determining the isomers are given. Moreover, the absorption curves show absorption maxima at 1037 and 1100 cm^{-1} which may be due to the vibrations of the benzene cycle (Ref. 9). The optical density of each compound in CS_2 solution was measured and the extinction coefficients were calculated for each wavelength. Tables 2, 3, and 4 give the results. Since the Lambert - Beer law does not hold for the solutions examined, it was necessary to employ the method of successive approximations in determining the composition of mixtures just as in Ref. 1. The results of an analysis of artificial mixtures showed that the mean error is approximately 4%. There are 3 figures, 4 tables, and 10 references: 4 Soviet, 2 German, 3 US, and 1 French.

Card 3/4

Analysis of Multicomponent Mixtures From Infrared Absorption Spectra. Information 2. Determination of the Isomers of Chloro Cumenes, Tertiary Butyl Benzenes and Chloro Diphenyl Methanes

S/075/60/015/004/023/030/XX
B020/B064

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED: September 13, 1958

Card 4/4

L 12976-63 EWP(j)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW
ACCESSION NR: AT3002349 S/2513/63/013/000/0383/0388 66

AUTHOR: Mikhaylenko, Yu. Ya.; Senetskaya, L. P.; Kuty*rina, Ye. G. 65

TITLE: Quantitative determination of double bonds in unsaturated organosilica compounds by infrared spectral absorption

SOURCE: AN SSSR. Komissiya po analiticheskoy khimii. Trudy*, v. 13, 1963. Organicheskiy analiz, 383-388

TOPIC TAGS: double bond, unsaturated hydrocarbon, organosilica compound, IR spectra, vinyltriethoxysilane, divinyltetraethoxydisiloxane

ABSTRACT: An attempt is made to develop a direct and quick method for the determination of double bonds in unsaturated organosilica compounds which would give reliable results. A quantitative method has been proposed for the above determination by employing the infrared absorption spectra. It was found that the band 940-960 cm sup -1 can be used in the determination of double bonds in organosilica compounds the same way as the determination of double bonds in other hydrocarbons. Vinyltriethoxysilane and divinyltetraethoxydisiloxane were synthesized and used as standards. The infrared analysis agree well with chemical analysis. The relative error by infrared analysis is plus or minus 0.70%. Orig. art. has: 3

Association: Moscow Inst. of Chemical Technology

Card 1/2/

24.3400 also 2308

83636
S/081/60/000/015/002/014
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 15, p. 15, # 60233

AUTHORS: Kutyrkin, V.N., Peyzulayev, Sh.I., Tunitskiy, L.N.

TITLE: Investigation of the "BeF" Spectrum

PERIODICAL: Fiz. sb. L'vovsk. un-t, 1957, No. 3 (8), pp. 486-489

TEXT: A ДФС -3 (DFS-3) spectrograph (2A/mm dispersion) was used to investigate the BeF emission spectrum in the 2800-3400 A range ($^2\Pi$- $^2\Sigma$ transition) in a discharge tube heated to 750-800°C. A reduction of the rotational structure to K≈15-18 as compared to the arc spectrum (K > 55), made it possible to obtain a considerably greater number of band edges than in operating with an arc. Wave numbers of 1-1 band lines are given. The presence of lines with K = 0 and 1 in the branch show that the BeF molecule terms are inverted ones. See also RZhKhim, 1959, No. 8, # 26114.

A. Mal'tsev

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

ALDANAZAROV, A.T.; AYTBAYEV, T.Kh.; KUTYAKINA, N.A.

Changes in the protein composition of blood serum in lead poisoning in an experiment; preliminary report. Izv. AN Kazakh. SSR. ser. med.nauk no.2:48-53 '63 (MIRA 16:10)
(BLOOD PROTEINS) LEAD POISONING)

L 41059-65 EWP(j)/EWT(m)/T Pc-4 RM

ACCESSION NR: AP5007140 S/0303/65/000/001/0017/0019

AUTHOR: Abduvaliyev, A.A.; Kutyrova, S.A.; Akhmedova, S.

TITLE: Lacquers based on melaminoformaldehyde resin modified with furfuryl alcohol

SOURCE: Lakakrasochnyye materialy i ikh primeneniye, no. 1, 1965, 17-19

TOPIC TAGS: melaminoformaldehyde resin, melaminoformaldehyde lacquer, furfuryl alcohol, pentamethylolmelamine resin, polymer film, film adhesion, resin structure

ABSTRACT: The authors prepared modified pentamethylolmelamine resins, intended for use as a base for lacquers, by the condensation of pentamethylolmelamine with furfuryl alcohol and excess formaldehyde in the presence of butyl alcohol. A 10% aqueous solution of NaOH was added to 0.2-1.2 mol of a 37% solution of formaldehyde and 0.1-mol of melamine in a 4-way flask with a mixer, a reflux condenser, a dropping funnel and a thermometer, raising the pH to 7.5-8.0 and the temperature to 80C. Then, 1-6 mol of furfuryl alcohol combined with butyl alcohol was added in 60-80 min, as methylolamine began to precipitate, followed by the addition of 10% HCl to pH 4-6. After a 10-hr condensation at 80-90C the mixture was neutralized with 10% NaOH, and the resin layer was isolated by removing the aqueous layer. An Oswald viscosimeter and a Kargin dynamomet-

Card 1/2

L 41059-65
ACCESSION NR: AP5007140

ric balance were used to investigate the characteristic viscosity and the thermomechanical properties of the resin purified by precipitating with water from butanol solution and dried in a vacuum at 50C. An elementary analysis and X-ray studies established the presence of hydroxyl and methylene radicals, furan rings, and melamine in the resin's structure, indicating that only 3 mol of furfuryl alcohol, at the most participated in the condensation; the resin did not contain butoxyl radicals. Adhesion to metal and wood of lacquers based on this resin was found to be adequate and the films dried quickly both at room and elevated temperatures preserving their hardness and elasticity at 60-80C. Orig. art. has: 2 tables and 3 formulas.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MT, OC

NO REF SOV: 006 OTHER: 005

Card 2/2

L 35533-65 EWT(m)/EWP(j) Pc-4 RM

ACCESSION NR: AP5008238 S/0286/65/000/005/0130/0130

AUTHORS: Sultanov, A. S.; Korshak, V. V.; Abduvaliyev, A. A.; Kutyrova, S. A. 17

TITLE: A method for obtaining modified urea-formaldehyde resin. 16 Class 39, No. 151807 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 130

TOPIC TAGS: resin, urea formaldehyde resin, methylfuran, physicochemical property

ABSTRACT: This Author Certificate introduces a method for obtaining modified urea-formaldehyde resin. To obtain a resin which is stable in storage, produces an elastic film, and dries at a normal temperature, urea-formaldehyde resin is modified with methylfuran. 9

ASSOCIATION: none

SUBMITTED: 15Dec61 ENCL: 00 SUB CODE: MT

NO REF SOV: 000 OTHER: 000

Card 1/1

The tungsten ore deposit near the city of Sverdlovsk S. I. Borodaevskii and P. I. Kutyukhin. *Razvedka Nedr* 1939, No. 12, 11-14.—Geol. and mineralogical descriptions of the deposit are given. V. A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KUTYUKHIN, P.I.; BORODAYEVSKIY, N.I.; BORODAYEVSKAYA, M.B.

Composition of ores and changes near veins at the Berezovskiy ore field. Sov.geol. no.14-15:110-116 '47. (MLRA 8:8)
(Berezovskiy region—Ore deposits)

ARASHKEVICH, V.M., dotsent; VESELOV, A.I., professor; VOLOTKOVSKIY, S.A., professor; ZHUKOV, L.I., dotsent; IPPOLITOV, M.D., dotsent; KUTYUKHIN, P.I.,dotsent; KOMPANEYETS, V.P., dotsent; MALAKHOV, A.Ye., professor; NEUDACHIN, G.I., dotsent; RYABUKHIN, G.Ye., professor; SAKOVTSEV, G.P., dotsent; STOYLOV, B.A., dotsent;TROP, A.Ye.,dotsent; FEDOROV,S.A., professor; YAROSH, A.Ye., dotsent, redaktor; TARKHOV, A.G., redaktor; GAMBURTSEVA, Ye.Ye., redaktor; GUROVA, O.A., tekhnicheskiy redaktor.

[Collection of articles on geophysical methods of prospecting] Sbornik statei po geofizicheskim metodam razvedki. Moskva,Gos. nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1955. 109 p. (MLRA 8:11)

1. Sverdlovsk.Gornyy institut.
(Prospecting--Geophysical methods)

KUTYUKHIN, P.I.

ARASHKEVICH, V.M., dotsent, redaktor; VESELOV, A.M., professor, redaktor; VOLOTKOVSKIY, S.A., professor, redaktor; ZHUKOV, L.I., dotsent, redaktor; IPPOLITOV, N.D., dotsent, redaktor; KAMPANIYETS, V.P., dotsent, redaktor; KUTYUKHIN, P.I., dotsent, redaktor; MALAKHOV, A.Ye., professor, redaktor; NEUDACHIN, G.I., dotsent, redaktor; RYABUKHIN, G.Ye., professor, redaktor; SAKOVTSEV, G.P., dotsent, redaktor; STOYLOV, B.A., dotsent, redaktor; TROP, A.Ye., dotsent, redaktor; FEDOROV, S.A., professor, redaktor; YAROSH, A.Ya., dotsent, redaktor; SLAVOROSOV, A.Kh, redaktor izdatel'stva; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Problems in the efficient organization of surveying in mining enterprises] Voprosy ratsionalizatsii markscheidarskoi sluzhby na gornykh predpriiatiiakh. Moskva, Ugletekhizdat, 1955. 128 p.
(MLRA 9:10)

1. Sverdlovsk. Gornyy institut.
(Mine surveying)

KUTYUKHIN, P.I.

Role of alteration rocks in prospecting and exploration of gold deposits in the Urals. Izv.vys. ucheb. zav.; tsvet. met. no.3: 10-22 '58. (MIRA 11:11)

1. Sverdlovskiy gornyy institut. Kafedra metodiki poiskov i razvedki mestorozhdeniy poleznykh iskopayemykh.
(Gold ores) (Ural Mountain region--Prospecting)

KUTYUKHIN, P.I.

Distribution of gold in the Belaya vein of the Dzhetygara deposit. Trudy Gor.-geol. inst. UFAN SSSR no.40:143-154 '59. (MIRA 13:11)
(Dzhegytara region--Gold ores)

FASMAN, A.B.; KUZYUKOV, G.G.; [illegible], D.V., akademik

Kinetics and the mechanism of K_2PtBr_4 reduction by carbon monoxide in aqueous solutions. Dokl. AN SSSR 158 no.5:1147-1150 O '64.
(MIRA 17:10)

1. Kazakhskiy gosudarstvennyy universitet im. S.M.Kirova, Alma-Ata. 2. AN KazSSR (for Sokol'skiy).

GOLUBOV, V.A.; KUTYUKOV, G.G.; FASMAN, A.B.; [illegible]

Reaction of H_2PdCl_4 with carbon monoxide in aqueous solutions. Zhur. neorg. khim. 9 no.10:2319-2324 O '64.

(MIRA 17:12)

1. Kazakhskiy gosudarstvennyy universitet im. S.M. Kirova.