

KARPOV, G.V.

Experimental loss determination in large synchronous generators
and mathematical treatment of experiments in self-braking. Trudy
LPI no. 209:21-55 '60. (MIRA 14:2)
(Electric generators)

KARPOV, G.V.

Method for the experimental determination of the parametric characteristics of synchronous machines by means of the operating conditions. Trudy LPI no. 209:434-440 '60.

(MIRA 14:2)

(Electric machinery, Synchronous)

PHASE I BOOK EXPLOITATION

SOV/5790

Zakharenko, Semen Yefremovich, Professor, Sergey Aleksandrovich Anisimov, Vladimir Alekseyevich Dmitrevskiy, Grigoriy Vasil'yevich Karpov, and Boris Stepanovich Fotin

Porshnevyye kompressory (Piston Compressors) Moscow, Mashgiz, 1961.
454 p. Errata slip inserted. ii, 000 copies printed.

Reviewers: V. A. Rumyantsev, Candidate of Technical Sciences, and L. M. Rozenfel'd, Doctor of Technical Sciences, Professor; Ed. : S. P. Lifshits, Candidate of Technical Sciences; Eds. of Publishing House: V. P. Vasil'yeva, G. A. Dudusova, and N. Z. Simonovskiy; Tech. Ed. : L. B. Shchetinina; Managing Ed. for Literature on the Design and Operation of Machines (Leningrad Department, Mashgiz): F. I. Fetisov, Engineer.

PURPOSE: This textbook is intended for use in engineering schools of higher education.

Card ~~14~~

Piston Compressors

SOV/5790

COVERAGE: The book follows the program of the course "Piston Compressors" which is taught at the Leningrad Polytechnic Institute imeni M. I. Kalinin. The following are discussed: thermodynamic fundamentals of the compression of gases; a modern theory of reciprocating compressors; methods of the design of reciprocating compressors and principles of their construction; and the design and construction of accessories. Basic information necessary for the operation of compressor installations is also given. The book was written as follows: Professor S. Ye. Zakharenko - Sec. 1 of Ch. I, and Chs. II, III, IV, and VI; Docent S. A. Anisimov - Chs. V and VII; Docent V. A. Dmitrevskiy - Sec. 42 to 46 of Ch. VIII; Docent G. V. Karpov - Sec. 47 and 48 of Ch. VIII, and Sec. 53 of Ch. IX; and Docent B. S. Fotin - Sec. 2, 3, and 4 of Ch. I, Sec. 49 to 52 of Ch. IX, and Chs. X and XI. There are 79 references, all Soviet.

TABLE OF CONTENTS [Abridged]:

Foreword

3

Card 2/4

KARPOV, G.V., KAZOVSKIY, YE.YA., KOSTENKO, M.P.

"Determination of large hydro-generator constants."

Report to be submitted for the 19th Biennial Session, Intl. Conf. on Large Electric Systems (CIGRE), Paris, France, 16-26 May '62.

All Scientists Are members of the Inst. of Electromechanics, AS USSR

YANKO-TRINITSKIY, A.A., doktor tekhn.nauk, prof.; ABRAMOVICH, G.P., inzh. (Gomel'); NEDELKU, V., kand.tekhn.nauk, dotsent; KARPOV, G.V.; VERETENNIKOV, L.P., kand.tekhn.nauk, dotsent (Leningrad); VILESOV, D.V., kand.tekhn.nauk, dotsent (Leningrad); ALYAB'YEV, M.I., doktor tekhn.nauk, prof. (Leningrad)

Equations and fundamental relationships in the theory of synchronous machines. Elektrichestvo no.7:81-85 JI '62. (MIRA 15:7)

1. Ural'skiy politekhnicheskii institut imeni Kirova (for Yanko-Trinitskiy).
2. Bukharestskiy politekhnicheskii institut, Rumyniya (for Nedelku).
3. Institut elektromekhaniki (for Karpov).
(Electric machinery, Synchronous)

KARPOV, G.V.

Method for the experimental determination of I_d and I_q currents of
a synchronous machine. Sbor.rab.po vop.elektromekh.no.8:190-212 '63.
(MIRA 16:5)

(Electric machinery, Synchronous)

TANTSIREV, G.D.; KARPOV, G.V.; TAL'ROZE, V.L.

Analytic mass-spectrometer with a modulated molecular beam. Prib.
i tekhn. eksp. 8 no.3:118-121 My-Je '63. (MIRA 16:9)

1. Institut khimicheskoy fiziki AN SSSR.
(Mass spectrometry)

KARPOV, G.V.

Experimental study of the SV 1500/200-88 hydrogenerator.
Elektrichestvo no.2:50-58 F '64. (MIRA 17:3)

1. Institut elektromekhaniki AN SSSR.

KARPOV, G. V.

"D. N. Anuchin. Sketch of His Life, Scientific and Public Activity."
Sub 22 Jun 51, Sci Res Inst of Geography, Moscow Order of Lenin State U
niversity M. V. Lomonosov.

Dissertations presented for science* and engineering degrees in Mos-
cow during 1951.

SO: Sum. No. 480, 2 May 55

* DR. Geographical Sci.

1. KARPOVA, G. V.

2. SSSR (600)

4. Geology, Stratigraphic-Donets Basin

7. Sandstone with hornblende in coal-bearing stratum of the middle Jura in the Donets Basin.
Dokl. AN SSSR 86 No. 6, 1952

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

KARPOV, Georgiy Vladimirovich; SOLOV'YEV, A.I., redaktor; AGOL'TSOVA, N.F.,
redaktor; KOSHELEVA, S.M., tekhnicheskij redaktor

D.N.Anuchin. Pod red. A.I.Solov'eva. Moskva, Gos. izd-vo geogr. lit-
ry, 1954. 39 p. (MLRA 8:3)
(Anuchin, Dmitrii Nikolaevich, 1843-1923)

KARPOV, Georgiy Vladimirovich; NEVELEVA, G.A., redaktor; NOGINA, N.I.,
tekhnicheskij redaktor

[Robert Peary] Robert Piri. Moskva, Gos. izd-vo geogr. lit-ry,
1956. 38 p. (MIRA 10:1)
(Peary, Robert Edwin, 1856-1920)

~~KARPOV, Georgiy Vladimirovich~~; SOBOL', S.L., professor, otvetstvennyy
redaktor; REVELEVA, G.A., redaktor; VILENSKAYA, E.N., tekhnicheskii
redaktor

[Charles Darwin] Charlz Darwin. Moskva, Gos.izd-vo geogr. lit-ry,
1957. 45 p. (MLRA 10:8)

(Darwin, Charles Robert, 1809-1882)

KARPOV, Georgiy Vladimirovich; SOLOV'YEV, A.I., otv.red.; YANIKOV, G.V.,
red.; NOGINA, N.I., tekhn.red.

[Career of a scientist; D.N. Anuchin's life and works] Put'
uchenogo; ocherki zhizni, nauchnoi i obshchestvennoi deiatel'nosti
D.N. Anuchina. Moskva, Gos.izd-vo geogr.lit-ry, 1958. 341 p.
(MIRA 12:5)

(Anuchin, Dmitrii Nikolaevich, 1843-1923)

KARPOV, Georgiy Vladimirovich; NEVELEVA, G.A., red.; NOGINA, N.I.,
tekhn.red.

[Henry Stanley] Genri Stenli. Moskva, Gos. izd-vo geogr. lit-ry,
1958. 56 p. (MIRA 12:1)

(Stanley, Henry Morton, 1841-1904)

KARPOV, Georgiy Vladimirovich; KROPOTKIN, P.N., doktor geologo-mineralog. nauk, otv. red.; PERVAKOV, I.L., red.; ZORKINA, G.P., mladshiy red.; VILEN-SKAYA, E.N., tekhn. red.

[P.A.Kropotkin, the explorer of the Siberian land] Issledovatel' Zemli Sibirskoi P.A.Kropotkin. Moskva, Gos. izd-vo geogr. lit-ry, 1961. 55 p. (MIRA 14:8)

(Kropotkin, Petr Alekseevich, 1842-1921)
(Siberia--Discovery and exploration)

KARPOV, Georgiy Vladimirovich; POLEKHOVA, A.M., red.; YERMAKOV, M.S.,
tekhn. red.

Dmitrii Nikolaevich Anuchin. Moskva, Izd-vo Mosk. univ.,
1962. 62 p. (Zamechatel'nye uchenye Moskovskogo universiteta,
no.31) (MIRA 15:5)
(Anuchin, Dmitrii Nikolaevich, 1843-1923)

KARPOV, G.V.; SOLOV'YEV, A.I.; ORLOV, V.I., retsenzents; LAKTIONOVA, F.I., retsenzents; RODIONOVA, F.A., red.; KOZLOVSKAYA, M.D., tekhn. red.

[Reader on the physical geography of the U.S.S.R.; nature pictures from the works of literary travellers, and scientists] Khrestomatia po fizicheskoi geografii SSSR; kartiny prirody iz proizvedenii pisatelei, puteshestvennikov i uchenykh. Posobie dlia uchitelia. Moskva, Uchpedgiz, 1963. 403 p.

(MIRA 16:12)

(Physical geography)

KARPOV, Grigoriy Vasil'yevich; POMRESHOVA, K.V., red.

[Sealing devices for turbomachines] Uplotnitel'nye ustroistva
turbomashin. Leningrad, 1965. 21 p. (MIRA 18:8)

KAPPOV, G. Ya.

"Economic-Geographical Characteristics of the Sugar Industry in the Kurskaya Oblast and Its Raw Material Base." Sub 22 Jun 51, Sci Res Inst of Geography, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

1. KARPOV. I.
2. USSR (60)
4. Irrigation
7. Great construction projects of communism and the development of irrigated farming.
Kolkh. proizv. 12 no. 11 1952.

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

KARPOV, I.; GUREVICH, B.

New developments in the construction of blast furnaces in 1962.
Prom. stroi. i inzh. soor. 4 no.3:31-35 My-Je '62. (MIRA 15:7)

1. Nachal'nik tekhnicheskogo otdela Ukrglavstal'konstruktsii
(for Karpov). 2. Glavnyy konstruktor Dnepropetrovskogo otdela
Ukrproyektstal'konstruktsii (for Gurevich).
(Blast furnaces)

KARPOV, I.

Togoland. Vnesh.torg. 41 no.12:32-35 '61. (MIRA 14:11)
(Togo—Economic conditions) (Togo—Commerce)

KARPOV, I.

Protecting metal elements from corrosion. Prom. stroi. i inzh. soor. 5
no.2:28-29 Mr-Ap '63. (MIRA 16:4)

1. Nachal'nik tekhnicheskogo otdela Ukrglavstal'konstruktaii.
(Corrosion and anticorrosives)

KARPOV, I.S., kapitan 3-go ranga v otstavke

Squadron commander 1st Earl Mikhail Vladimirovich Viktorov, 1892-1938.
Mor. sbor. 48 no.9:17-20 S '65. (MIRA 18:8)

KARPOV, I. I.

National Institute of Standards and Technology
Gaithersburg, Maryland 20899
NIST Special Publication 800-115
A publication of the National Institute of Standards and Technology
Gaithersburg, Maryland 20899
NIST Special Publication 800-115
A publication of the National Institute of Standards and Technology
Gaithersburg, Maryland 20899

KAROV, I.I., Cand Tech Sci -- (diss) "Study of the
gravitational and magnetic properties of ~~oxidized~~
oxidized ores of the ^{Krivoy Rog} Krivopozhsky Basin ~~with~~
the ^{purpose} ~~objective~~ of ^{during} ~~working out~~ a rational system
for their concentration." Dnepropetrovsk, 1958.
13 pp (Min of Higher Education UkSSR. Dnepropetrovsk
Order of Labor Red Banner Mining Inst in Artem)
150 copies (KL, 50-58, 124)

- 66 -

AUTHOR: Karpov, I.I., Mining Engineer SOV-127-58-9-17/20

TITLE: Development of Technological Projects of Concentration Plants of the Krivoy Rog (Razvitiye tekhnologicheskikh skhem obogatitel'nykh fabrik Krivogo Roga)

PERIODICAL: Gornyy zhurnal, 1958, Nr 9, pp 76-77 (USSR)

ABSTRACT: The reconstruction of the concentration plants of the Krivoy Rog Basin started in 1958. The plants of the Mining Administrations imeni Il'ich and imeni R. Luksemburg will be equipped with new modern machines, which will permit a conversion to more complicated and improved methods of concentration. Modern equipment (separators SKO-NIGRI for the second stage of magnetic concentration) has already been installed in the plant of the Mine imeni Dzerzhinskiy. The author compares present results of concentration in the first two plants with the expected results after reconstruction. There is 1 table.

ASSOCIATION: Dnepropetrovskiy sovnarkhoz (The Dnepropetrovsk Sovnarkhoz)

1. Mining industry--USSR 2. Ores--Processing--Equipment

Card 1/1

KARPOV, Ivan Ivanovich; MARGULIS, Vladimir Solomonovich; DYAKOV,
A.N., red.

[Dressing of iron-bearing quartzite from the Krivoy Rog
Basin] Obogashchenie zhelezistyykh kvartsitov Krivbassa.
Dnepropetrovsk, Dnepropetrovskoe knizhnoe izd-vo, 1964.
39 p. (MIRA 17:10)

BOLGAR, V.I., inzh. (Dnepropetrovsk); ALEKSEYEVA, G.A., inzh.
(Dnepropetrovsk); KARPOV, I.I., kand. tekhn. nauk
(Dnepropetrovsk)

Analyzing the interaction of technological parameters in
developing systems of automating jigs. Gor. zhur. no. 12:
66-67 D '65. (MIRA 18:12)

KARPOV, I.K., provizor

Use of some types of equipment from communal feeding establishments
at a drug manufacturing plant. Apt. delo 10 no. 1:66-67 Ja-F '61.

(MIRA 14:2)

1. Yaroslenskoye oblastnoye apteknoye upravleniye (Upravlyayushchiy
G.B. Garol').

(DRUG INDUSTRY—EQUIPMENT AND SUPPLIES)

L 65235-65 EWT(1)/EWT(m)/EWT(b)/EWT(t) IJP(c) JD

ACCESSION NR: AP5021493

UR/0368/65/003/902/0178/0181

535.37

AUTHOR: Karpov, I. K.; Mikhail'chenko, G. A.

TITLE: Luminescent properties of lithium iodide

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 2, 1965, 178-181

TOPIC TAGS: lithium compound, halide, crystal phosphor, luminescent material, scintillator

ABSTRACT: Luminescent properties and some other optical properties are given for both "pure" and activated lithium iodide single crystals. Gallium, indium, neodymium, europium, ytterbium, copper, silver and tin were used as activators. Optical absorption, photoexcitation and β -luminescence spectra are given for various lithium crystal phosphors. It was found that the best phosphor crystals are those activated with europium, ytterbium, silver and tin. Europium and ytterbium give a luminescence yield which is independent of temperature in a wide range. Low-temperature luminescence was observed in "pure" lithium halide crystals with an energy yield equal to or exceeding that of the best activated crystals of this type ex-

Card 1/2

L 65235-45

ACCESSION NR: AP5021493

cited at room temperature. The luminescence spectra of lithium phosphors are regularly shifted toward the red region in comparison with the corresponding halide phosphors of sodium and potassium. The energy yields of the lithium phosphors are lower by a factor of 1.5-2 when compared with those of sodium and potassium phosphors. Orig. art. has: 2 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 05Jan65

ENCL: 00

SUB CODE: SS, OP

NO REF SOV: 003

OTHER: 003

718
Card 2/2

KARPOV, I.K.; PAMPURA, V.D.

Calculation of the thermodynamic properties of muscovite and potassium feldspar based on experimental data. Dokl. AN SSSR 162 no. 5:1156-1158 Je '65. (MIRA 18:7)

1. Institut geokhimii Sibirskogo otdeleniya AN SSSR, Submitted January 20, 1965.

KARPOV, I.K.

Using thermodynamic calculations for the analysis of mineral equilibria in pegmatites of the Mama region. Geol. i geofiz. no.10:97-105 '65. (MIRA 18:12)

1. Irkutskiy gosudarstvennyy universitet. Submitted March 24, 1964.

KARLOV, I.K.; ANTIPOVA, Ye.N.

Comparative characteristics of the chemical composition of
pegmatites and enclosing rocks in the Mama pegmatite zone.
Izv.vys.ucheb.zav.; geol. i razv. 8 no.10.57-63 0 '66.
(MIRA 1966)

1. Irkutskiy gosudarstvennyy universitet.

MIKHAL'CHENKO, G.A.; KARPOV, I.K.

Recoverable actinometric solution on the basis of leucocrystal
violet. Opt. i spektr. 13 no. 5:690-693 N '62. (MIRA 15:12)
(Leucocrystal violet) (Chemical reactions)

KARPOV, I.K.

Studying the quantitative composition of pegmatites in the Mama region and the genesis of quartz inclusions in microlines. Geol. i geofiz. no.2:122-127 '63. (MIRA 16:5)

1. Irkutskoye geologicheskoye upravleniye.
(Mama region—Pegmatites) (Mama region—Quartz)
(Mama region—Microline)

CAVALISHIN, M.A.; KARPOV, I.K.

Metasomatic nature of the microcline diagram of pegmatites in
the Mama Valley. Zap. Vses. min. ob-va 92 no.6:733-736 '63.

(MIRA 18:3)

ACC NR: AP7004954

SOURCE CODE: UR/0048/66/030/009/1406/1408

AUTHOR: Karpov, I.K.; Kuzhelev, L.P.; Mikhail'chenko, G.A.

ORG: none

TITLE: Radioluminescence of nonactivated alkali-halide crystals /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 9, 1966, 1406-1408

TOPIC TAGS: luminescence, luminescence spectrum, luminescent crystal, alkali halide, radioluminescence, thermoluminescence, scintillation

ABSTRACT: The authors investigated the low-temperature radioluminescence of pure lithium, sodium, potassium and cesium chloride, bromide and iodide crystals. The specimens contained no more than $10^{-5}\%$ of heavy metals. In view of the virtual absence of heavy metals, the high absolute luminescence yields (up to 10%) and the absence of photoluminescence under ultraviolet excitation, the authors conclude that that 90 to 95% of the observed low-temperature luminescence was due to the host crystal alone. Radioluminescence was excited at -150°C by β radiation from a $\text{Sr}^{90} + \text{Y}^{90}$ source. In general the radioluminescence yield decreased with increasing mass of the cation and decreasing mass of the anion. The luminescence yields of the cesium yields of the cesium salts, however, were higher than those of the corresponding

Card 1/2

ACC NR: AP 7004954

potassium salts, and the luminescence yields of the iodides did not vary greatly with the cation mass. To determine whether the luminescence of the pure phosphors was due to recombination at lattice defects or to some mechanism that remains effective in a perfect crystal, the authors compared the optical spectra of the thermostimulated luminescence of previously irradiated crystal with the spectra of the low-temperature radioluminescence. It was found that both spectra of the chlorides and bromides contain the same bands, although with different relative intensities, but that the shortest wavelength and strongest band in the radioluminescence spectra of LiI, NaI, KI, and CsI does not appear in the thermoluminescence spectra at any temperature. These crystals are known to be good low-temperature scintillators, and it is hypothesized that their scintillation is due to the short wavelength luminescence that cannot be ascribed to recombination at lattice defects. It is suggested that this luminescence may be due to radiative annihilation of anionic excitons. The effects of dopants are briefly discussed. The addition of KI to KBr was found to increase the radioluminescence yield, the mixture luminescing stronger than either of the pure components. The luminescence of NaCl.NaI single crystals increased by a factor of 10 on cooling from + 25 to - 150° C. This hybrid crystal had a narrow luminescence band at 225 mμ. The addition of thallium increased the strength of the 225 mμ band by a factor of 8, and the radioluminescence and thermoluminescence spectra were identical; from this it is concluded that the Tl^+ and I^- centers act together as a single entity. Special experiments (not described) showed that at least one of the thermoluminescence peaks is due to delocalization of electrons. Orig. art. has: 3 figures.

SUB CODE: 20 SUBM DATE: none ORIG. REF: 002 OTH REF: 006

Card 2/2

KARPOV, I.M., kandidat tekhnicheskikh nauk; FANDEYEV, V.V., dotsent, kandidat tekhnicheskikh nauk; ZAMARIN, Ye.A., zasluzhennyy deyatel' nauki i tekhniki, professor doktor tekhnicheskikh nauk, redaktor; VORONIN, K.P., tekhnicheskiiy redaktor.

[Canals] Kanaly. Pod red. Ye.A.Zamarina. Moskva, Gos.izd-vo lit-ry po stroit. i arkhitekture, 1951. 87 p. [Microfilm] (MLRA 9:6)
(Canals)

KARPOV, I.M., kandidat tekhnicheskikh nauk; KOSTYAKOV, A.N., professor,
nauchnyy redaktor; BEYLINA, I.A., redaktor; SMOL'YAKOVA, M.V.,
tekhnicheskiiy redaktor.

[Irrigation and water supply] Oroshenie i obvodnenie. Moskva, Gos.
izd-vo lit-ry po stroit. i arkhitekture, 1954. 70 p. (MLRA 8:2)
(Irrigation) (Water supply)

SIDOROV, A.A., kandidat tekhnicheskikh nauk, redaktor; BLIZNYAK, Ye.V. doktor tekhnicheskikh nauk, professor; OLESHKEVICH, L.V., kandidat tekhnicheskikh nauk, dotsent; AKHUTIN, A.N., doktor tekhnicheskikh nauk, professor; BEREZINSKIY, A.R., doktor tekhnicheskikh nauk, professor; GRISHIN, M.M., doktor tekhnicheskikh nauk, professor; DZHUNKOVSKIY, N.N., doktor tekhnicheskikh nauk, professor; ZHEMOCHKIN, B.N., laureat Stalinskoy premii, doktor tekhnicheskikh nauk, professor; MIKAYLOV, K.A., doktor tekhnicheskikh nauk, professor; NICHIPEROVICH, A.A., doktor tekhnicheskikh nauk, professor; NESTERUK, F.Ya., doktor tekhnicheskikh nauk; NEDRIGA, V.P., kandidat tekhnicheskikh nauk; SAFONOV, P.V., inzhener; LATYSHENKOV, A.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; MUROMOV, V.S., kandidat tekhnicheskikh nauk, dotsent, redaktor; BARSOV, M.V., inzhener, redaktor; MEYSTER, V.A., kandidat tekhnicheskikh nauk, redaktor; LIPKIND, M.V., kandidat tekhnicheskikh nauk, redaktor; LYAPICHEV, P.A., kandidat tekhnicheskikh nauk, redaktor; KARPOV, I.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; REPIN, V.P., inzhener, redaktor; MEDVEDEV, L.Ya., tekhnicheskii redaktor.

[Hydraulic engineering handbook] Spravochnik po gidrotekhnike, Moskva, Gos.izd-vo lit-ry, po stroit. i arkhit. 1955. 828 p.
(MLRA 8:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii. 2. Zasluzhenyy deyatel' nauki i
(Continued on next card)

SIDOROV, A.A., kandidat tekhnicheskikh nauk, redaktor, and others... (Card 2)

[Hydraulic engineering handbook] Spravochnik to gidrotekhnike,
Moskva, Gos.izd-vo lit-ry, po stroit i arkhitekt. 1955. 828 p.
(Card 2) (MLRA 8:10)

2. Zasluzhenyy deyatel' nauki i tekhniki RSFSR (for Bliznyak)
3. Deystvitel'nyy chlen Akademii nauk AzSSR (for Mikaylov)
(Hydraulic engineering)

KARPOV, I.P., inzh.; LITVINSKIY, P.G., inzh.

Mechanization of welding work in the erection of metal structures.
Mekh. stroi. 20 no.11:15-17 N '63. (MIRA 17:1)

KARPOV, I.P., inzh.; LITVINSKIY, P.G., inzh.; STAROVOYTOV, A.A., inzh.;
SHINKAREV, B.M., inzh.

Results of welding with a powder-metal wire in assembling
structures of metallurgical enterprises. Prom. stroi. 41
no.11:35-38 N '63. (MIRA 17:2)

1. Ministerstvo montazhnykh i spetsial'nykh stroitel'nykh
rabot UkrSSR.

KARPOV, I. Sh.

Changing the technology of G-13 steel smelting in open-hearth
furnaces. Kolya 21 no.3:13-14 Mr '59. (MIRA 12:6)

1.Orotukhanskiy zavod.
(Magadan Province---Steel---Metallurgy)

KARPOV, I.V.

"Studies on the psychology of learning the Russian language by deaf
mute schoolchildren" by Zh. I. Shif. Reviewed by I.V.Karpov.
Vop. psikh. 4 no.5:165-166 S-O '58. (MIRA 11:12)
(Deaf--Education) (Russian language--Study and teaching)
(Shif, Zh.I.)

KARPOV, I.V.

MODZOLEVSKIY, Igor' Vladimirovich; BARSEGOV, A.A.; ~~KARPOV, I.V.~~; KARTSEV,
I.T.; KRYLOV, N.M.; NIKOLAYEV, I.V.; REVICH, V.I.; SHEVYAKOV, V.A.;
SHOKHIN, O.A.; CHUSOV, A.I.; GORODNICHEV, N.G., redaktor; CHERNYSHEV,
V.I., redaktor; KHITROV, P.A., tekhnicheskii redaktor

[General course on railroads] Obshchii kurs zheleznnykh dorog. Izd.
2-e, perer. Moskva, Gos. transportnoe zhel-dor. izd-vo, 1954. 316 p.
(Railroads) (MLRA 8:3)

KARPOV, I.V.

TABLE I BOOK INFORMATION

ROW/956

Metallurgy: Shortly stated, No. 2 (Metallurgy Collection of Articles, No. 2),
Leningrad, Metallurgy, 1979. 300 p. 2,300 copies printed.

Reep, V.A., G.I. Karpov, Candidate of Technical Sciences, Eds.: V.I. Gerasimov
and V.I. Gerasimov, Tech. Sci.: V.I. Gerasimov.

REMARKS: This collection of articles is intended for technical personnel at
industrial plants and at research and educational institutions. It may also
be used by students taking courses in several specialties.

CONTENTS: The articles present the following material: original data on the
production of steel in open-hearth, electric, and vacuum arc furnaces; labor-
saving methods of heat treatment of variable thickness along the width;
results of an investigation of sheet metal made from large ingots; and problems
of metallurgical processes in liquid steel. Some theoretical analysis of
practical problems is included, and practical recommendations are given
concerning specific problems. Biographical notes are included. Most of the
articles are accompanied by references.

Gerasimov, V.I., Candidate of Technical Sciences. Effect of the Steel-
making Method on the Quality of Manufactured Electrode Steel. 34

Andreyev, I.A., Professor, and L.A. Gerasimov. Ways of Improving Metal
Quality Based on the Results of Process Control by the Ultrasonic Method
of Detecting Defects in Acid and Basic Open-Hearth Steel With High
Chromium Content. 67

Andreyev, I.A., Professor, Academy of Measurements for
Setting Standards of the Temperature for the Triple
and Treble of Steel. 89

Andreyev, I.A., and M.S. Borenberg. Application of the Automatic
Color Process for Measuring the Temperature of Liquid Steel. 115

Karpov, I.V., Engineer. The Possibility of Measuring the Temperature
of Liquid Steel and Pure Iron by a Shielded Pyrometry. Theoretical
analysis. 126

Gerasimov, V.I., and M.S. Borenberg. Negative Ligations of Impurities
in Steel Ingots. 136

Alshab, D.Y., Engineer. Ligations of Alloying Elements Within the
Grains of Primary Crystallization in Structural Steel. 142

Gerasimov, V.I., Candidate of Technical Sciences, Eds.: V.I. Gerasimov,
Engineer, and V.I. Gerasimov, Engineer. Rolling Sheets of Irregular
Cross Section. 153

Reep, V.A., Engineer. On the Theory of Determining the Average
Rolling Diameter in Rolling With Grooved Rolls. 155

Reep, V.A., Engineer. Determination of the Coefficient of Elongation
in Rolling Strip With Rectangular Reduction Along the Width. 176

Reep, V.A., Candidate of Technical Sciences. Disintegrating Features
of Strips in Vacuum Arc Furnaces. 188

Reep, V.A., and V.I. Gerasimov, Engineer. Method of Predicting and
Rolling Rectangular Cross-Sectioned Strips for Making Titanium Alloys. 221

Reep, V.A., and V.I. Gerasimov, Engineer. Some Process Problems in the
Production of Titanium in Vacuum Arc Furnaces. 236

Reep, V.A., and V.I. Gerasimov, Engineer. Methods of Making Addition
Alloys for Titanium Alloys. 251

Reep, V.A., Candidate of Technical Sciences. Predicting of Titanium
Alloys. 269

Reep, V.A., G.I. Karpov, Engineer, and V.I. Gerasimov, Engineer. Process Characteristics of the
Production of Hot-Rolled U-Or Titanium-Alloy Sheets. 282

Reep, V.A., Engineer, and V.I. Gerasimov, Engineer. Possibility of
Using Direct-2 Titanium Process. 294

AVIATION: Library of Congress

Card 5/5

AUTHOR: Karpov, I.V.

32-12-59/71

TITLE: Short Reports (3) (Korotkiye soobshcheniya).

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 12, pp. 1519-1519 (USSR)

ABSTRACT: In this paper a device is recommended, with the aid of which an optical length measuring device of the type "W38-1" is used as a dilatometer. According to the graph shown, the device is vertically arranged upon a stand. The sample is heated in a tube-shaped porcelain heater, and its dilation is transferred by means of a quartz lever to the measuring part of the apparatus. A Pt-PtRh-thermocouple is used as an indicator of temperature; its cold junctions are kept at a constant temperature level. In the diagram (coordinates: dilation of the sample - temperature) the critical points are determined by the curvature of the curve. In this way also the coefficient of linear dilation of a sample of material can be determined. There is 1 figure.

AVAILABLE: Library of Congress

Card 1/1 1. Dialometers-Revision

MODZOLEVSKIY, Igor' Vladimirovich, inzh.; BARSEGOV, A.A.; KARPOV, I.V.;
KARTSEV, I.T.; KRYLOV, N.M.; NIKOLAYEV, I.V.; REVICH, V.I.;
SHEVYAKOV, V.A.; SHOKHIN, O.A.; CHUSOV, A.I.; GUBAREVA, N.T.,
red.; BOBROVA, Ye.N., tekhn.red.

[General course in railroad engineering] Obshchii kurs zheleznikh
dorog. Izd.3., perer. Pod obshchei red. I.V.Modzolevskogo.
Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia,
1960. 290 p. (MIRA 13:12)
(Railroad engineering)

KARLOV, I.V., inzh.

Possibility of measuring the temperature of liquid steel and
molten flux by shielded low-temperature thermocouples. Met-
tallurgiiia 2:126-135 '59. (MIRA 14:3)
(Thermocouples)(Liquid metals)

KARPOV, I.V.

Measuring the temperature of liquid steel by means of
low-temperature pickups. Zav.lab. 26 no.6:733-736
'60. (MIRA 13:7)

(Steel) (Temperature--Measurement)

KARPOV, I. V., CAND TECH SCI, "UTILIZATION OF ~~THE~~ LAWS
GOVERNING THE HEATING OF BODIES OF THE SIMPLEST FORMS FOR
MEASURING HIGH TEMPERATURES OF MOLTEN METALS." LENINGRAD,
1961. (MV-SSO-RSFSR [MIN OF HIGHER AND SEC SPEC ED RSFSR]),
LENINGRAD POLYTECH INST IM M. I. KALININ). (KL, 3-61, 216).

L 12h12-65 EWT(d)/EWT(m)/EWP(t)/EWP(h)/EWP(b)/EWP(1) JD/HH

ACCESSION NR: APL048373

8/0032/64/030/011/1416/1417

AUTHOR: Karpov, I. V.

TITLE: A dilatometer for high-speed cooling

SOURCE: Zavodskaya laboratoriya, v. 30, no. 11, 1964, 1416-1417

TOPIC TAGS: dilatometer, phase transition

ABSTRACT: The dilatometer designed by the author has been used to measure phase transitions at rates of cooling ranging from 3-5 to 300° C/sec (within the interval 800-4000). The principal feature of the instrument is an extensometer having low inertia and insignificant friction. The extensometer consists of 2 grids (one movable, one fixed) of alternating opaque and transmitting bands (of precise dimensions-- $75 \pm 5 \mu$). The intensity of transmitted light decreases from a maximum to a minimum (zero) as the movable grid shifts (in response to volume change), or from zero to a maximum. The movable grid is attached to a quartz rod, the upper end of which is fastened to the sample and the lower end to a spring. A thin layer of mineral oil is inserted between the grids to eliminate friction. Figure 1 on the Enclosure illustrates the setup. The grids are photographic negatives. The transmitted light generates corresponding photocurrent which is recorded on

Card 1/3

L 12412-65

ACCESSION NR: AP4048373

the film of an oscillograph. Temperature and time are also simultaneously recorded on this film, which then contains all information necessary for constructing a thermokinetic diagram. The temperatures at the beginning and the end of phase transitions are shown, and the time these transitions occur is recorded. Measured results appear to be good. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: SS, ME

ENCL: 01

OTHER: 001

NO REF SOV: 001



Card 2/3

L 12412-65

ACCESSION NR: AP4048373

ENCLOSURE: 01

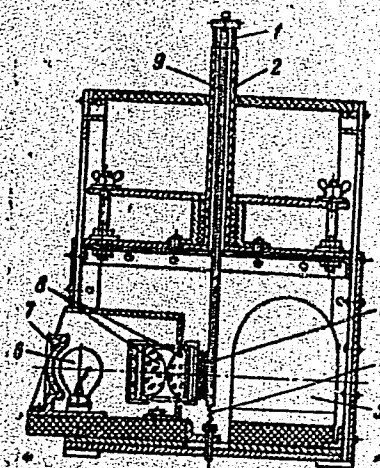


Fig. 1. Sketch of dilatometer

1- specimen; 2- quartz tube; 3- grid of extensometer; 4- spring;
5- photomultiplier; 6- lamp; 7- reflector; 8- condenser lens;
9- quartz rod.

Card 3/3

SOV/112-57-6-13142

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 6, p 212 (USSR)

AUTHOR: Karpov, I. V.

TITLE: Analysis of the Operation of an Asymmetrically-Supplied Three-Phase Rectifying Circuit (Analiz raboty trekhfaznoy vypryamitel'noy skhemy pri nesimmetrichnom yeye pitanii)

PERIODICAL: Tr. Mosk. in-ta mekhaniz. i elektrifik. s. kh., 1956, Nr 3, pp 89-95

ABSTRACT: The necessity to investigate such operating conditions of a rectifier has arisen in connection with using a three-phase rectifier bridge circuit for the compounding of synchronous generators where cases of asymmetrical supply are possible. The analysis of circuit phenomena is conducted by the method of decomposing the asymmetrical three-phase system of voltages into its positive-phase sequence and negative-phase sequence symmetrical components. It is pointed out that the method of symmetrical components is applicable to a nonlinear system if the nonlinearly conditions are superimposed on the individual components of the input asymmetrical voltage; the nonlinearity

Card 1/2

SOV/112-57-6-13142

Analysis of the Operation of an Asymmetrically-Supplied Three-Phase Rectifying . . .

conditions in this case are represented by firing and extinguishing angles of individual phases of the rectifier. The asymmetry factor k , which is equal to the ratio of absolute values of positive-to-negative phase-sequence voltage components, and the angle ψ_a between these components, are suggested as characteristic of the asymmetrical system. The asymmetry factor k varies from 0 under symmetrical conditions to 1 under maximum asymmetrical conditions. With a specified value of k , all asymmetry cases are covered by the angle ψ_a within the limits $0 - \frac{\pi}{3}$. Expressions are presented for the firing angles of the valves in each phase depending on the asymmetry factor k and the angle ψ_a and also for the effect of these parameters on rectified voltage. As a result of analysis of the above relations, it has been found that in a three-phase bridge circuit the negative-phase sequence voltage has practically no effect on the value of rectified voltage. Experimental verification on a pilot model has corroborated the above theoretical results.

I. L. R.

Card 2/2

KARPOV, I. V.

"Investigation of a Three-Phase Rectifying Scheme in Plants with Forced Excitation in Electric Power Stations for Agricultural Purposes in the Case of Asymmetric Short-Circuits,"

Dissertation for the Degree of Candidate of Technical Sciences, defended at Moscow Institute for Mechanization and Electrification of Agriculture.
27 June 1952. (Elektrichestvo, 1958, Nr 4, 92-93)

BUDZKO, I.A., akademik, otv.red.; BONDARENKO, S.P., kand.tekhn.nauk, zamestitel' otv.red.; MARTYNIENKO, I.I.; KARPOV, I.V., red.; OLEYNIK, V.S., red.; KOSOVSKIY, V.A., red.; KVITKA, S.P., khudozhestvenno-tekhn.red.

[Problems connected with electric power supply to agriculture; collection of articles on materials of the scientific session of the section of the electrification of agriculture] Voprosy elektrosnabzheniia sel'skogo khoziaistva; sbornik statei po materialam nauchnoi sessii seksii elektrifikatsii sel'skogo khoziaistva. Kiev, Izd-vo Ukr.akad.sel'khoz.nauk, 1959. 149 p.
(MIRA 13:2)

1. Kiyev. Ukrain's'ka akademiia sil's'kohospodars'kykh nauk.
2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina, direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrifikatsii sel'skogo khozyaystva (VIESKh) (g.Moskva) (for Budzko).

(Electricity in agriculture)

KARPOV, I.V., kand.tekhn.nauk dots.; SIN'KOV, V.M., kand.tekhn.nauk dots.

Textbook for institutions offering courses in the electrification of agriculture ("Electric stations and substations" by S.A.Burgnev. Reviewed by I.V.Karpov, V.M.Sin'kov). Izv.vys.ucheb.zav.; energ. 2 no.8:130-133 Ag '59. (MIRA 13:2)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.
(Electricity in agriculture)
(Rural electrification)

KARPOV, I.V., kand.tekhn.nauk

Useful book ("Manual for rural electricians" by V.S.Odintsov.

Reviewed by I.V.Karpov). Mekh.sil'.hosp. 8 no.9:3 of cover

S '59. (MIRA 13:1)

(Electric engineering) (Odintsov, V.S.)

KARPOV, I.Ya.; RAUSH, G.F.

Experience in the automatization of scraper conveyers in Vorkuta.
Ugol' 35 no. 4:9-10 Ap '60. (MIRA 14:4)

1. Pechorskiy nauchno-issledovatel'skiy ugol'nyy institut. Kombinat
Vorkutugol'.
(Pechora Basin—Conveying machinery) (Automatic control)

KARPOV, I.Ye., polkovnik med. sluzhby

Vladimir Mikhailovich Bekhterev. Voen. med. zhur. no.1:87-91 Ja '57
(BIOGRAPHIES, (MIRA 12:7)
Bekhterev, Vladimir Mikhailovich, 1857-1927)

KARPOV, I. Ye. (Moskva)

V.I. Lenin and health protection for workers in the U.S.S.R. Fel'd.
i akush. 25 no. 4: 3-7 Ap '60. (MIRA 14:5)

(LENIN, VLADIMIR IL'ICH, 1870-1924)
(PUBLIC HEALTH)

KARPOV, I.Ye., polkovnik meditsinskoy sluzhby

All-Union Conference of active workers in public health. Voen.-
med.zhur. no.1:94-96 Ja '61. (MIRA 14:1)
(PUBLIC HEALTH--CONGRESSES)

KARPOV, K. A.

Karpov, K. A. On the numerical solution of certain problems of analysis on tabulators with vertical-horizontal action. Doklady Akad. Nauk SSSR (N.S.) 62, 741-744 (1948). (Russian)

A brief discussion is given of the use of a tabulator of "type Astra" as a difference engine. Values of a polynomial are built up by successive summation of differences in the usual way. One more step gives one the "integral" of the polynomial. *D. H. Lehmer (Berkeley, Calif.).*

Math. Inst. im V. A. Steklov, A.S. U.S.S.R.

Source: Mathematical Reviews,

Vol 10 No. 6

KARPOV, K. A.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 560 - I

BOOK

Call No.: AF646812

Author: KARPOV, K. A.

Full Title: TABLES OF THE FUNCTION $w(z) = e^{-z^2} \int_0^z e^{x^2} dx$ IN THE
COMPLEX DOMAIN

Transliterated Title: Tablitsy funktsii $w(z) = e^{-z^2} \int_0^z e^{x^2} dx$ v komplek-
snoy oblasti

PUBLISHING DATA

Originating Agency: Academy of Sciences, USSR. Institute of Exact
Mechanics and Calculating Technique

Publishing House: Academy of Sciences, USSR

Date: 1954 No. pp.: 536+79 (Appendix)

No. of copies: 3,500

Editorial Staff

Responsible Editor: Prof. V. A. Ditkin. Contributors: Scientific
Collaborators of the Laboratory of the Institute L. S. Bark and

N. A. Meller, and the Laboratory Senior Technician T. V. Firsova.

PURPOSE: To be used in connection with the study of the problem of pro-
pagation of radio waves near the plane surface of the earth, as sug-
gested by Doctor of Phys.-Math. Sciences P. A. Ryazin.

TEXT DATA

Coverage: The introduction discusses the transformations of the func-
tion $w(z)$ by integration and by applying Taylor's series, its graphi-
cal representation in the form of the curves of the ensuing differ-
1/2

Tablitsy funktsii
v kompleksnoy oblasti

AID 560 - I

ential equations, the method used in calculating these tables, their characteristics and instruction for their use. The tables give the values of the real part $u(\rho, \theta)$ of the function $w(z)$ and its imaginary part $v(\rho, \theta)$, where ρ is the modulus and θ the argument of the complex variable z . The angle θ is given for every 5° from 0° to 45° , and for 90° ($k=0$); ρ is given for every 0.001 from 0.000 to 5,000; and u and v are given five decimal points. In the Appendix are given tables of Lagrangian interpolation coefficients in abbreviation.

No. of References: Total number 7, 1934-1952, of which 2 are in Russian, 4 in English and 1 in German.

Facilities: Computations were made in the Experiment-Counting Laboratory of the Institute.

2/2

Handwritten: KARPOV K.A.

SUBJECT USSR/MATHEMATICS/Applied mathematics CARD 1/1 PG - 716
 AUTHOR KARPOV K.A., RAZUMOVSKIY S.N.
 TITLE Tables of the integral logarithm.
 PERIODICAL Moscow: Publication of the Academy of Sciences of the USSR
 320 p. (1956)
 reviewed 4/1957

$$\text{li } x = \int_0^x \frac{dt}{\ln t} \quad \text{for } x = 0(0,0001)2,50 \quad (0,001)20,0 \quad (0,01)200 \quad (0,1)500$$

(1)10.000 (10)25000 with 7 valid digits. $\text{li } x - \ln |1-x|$ for $x = 0,950$
 (0,0001)1,050 with 6 decimales. Auxiliary table $\frac{t(1-t)}{2}$ for $t=0(0,001)0,50$.

The computations were made with the electronic computing machine BESM.
 With exception of the intervals $0 \leq x \leq 0,0403$; $0,95 \leq x \leq 1,05$ and $1,4477 \leq x \leq 1,4551$, $\text{li } x$ can be interpolated linearly and in the interval $0,95 \leq x \leq 1,05$ the function $\text{li } x - \ln |1-x|$ with an error which does not exceed 1,6 unities of the last digit.

16(1)

PHASE I BOOK EXPLOITATION

SOV/1255

Karpov, Konstantin Adrianovich

Tablitsy funktsii $F(z) = \int_0^z e^{x^2} dx$ v kompleksnoy oblasti (Tables of the Function $F(z) = \int_0^z e^{x^2} dx$ in a Complex Domain) Moscow, Izd-vo AN SSSR, 1958. 517 p. (Series: Matematicheskiye tablitsy) 3,400 copies printed.

Resp. Ed.: Ditkin, V.A., Professor; Tech. Ed.: Zelenkova, Ye.V.

Sponsoring Agency: Akademiya nauk SSSR. Vychislitel'nyy tsentr.

PURPOSE: This book may be useful to mathematicians, physicists and engineers.

COVERAGE: This book completes the work of the authors on the tabulation of the probability integral in the complex domain. It contains detailed tables for the function $F(z) = u(\rho, \theta) + i v(\rho, \theta) = \int_0^z e^{x^2} dx$, where θ varies from 45° to 90° with appropriate variations of ρ ; detailed tables of the function $F(x) = \int_0^x e^{t^2} dt$

Card 1/3

KIREYEVA, Ida Yevgen'yevna; KARPOV, Konstantin Andrianovich; DITKIN,
V.A., prof., otv.red.; YAKOVKIN, M.V., red.; KORKINA, A.I.,
tekhn.red.

, [Tables of Weber functions] Tablitsy funktsii Vebera. Moskva,
Vychislitel'nyi tsentr. Akad.nauk SSSR. Vol.1. 1959. 340 p.
(Functions) (MIRA 13:11)

KARPOV, K. A. and DITKIN, V. A.

"Work of the Computational Center of the Academy of Sciences USSR on the
Calculation and Publication of Mathematical Tables"

presented at the All-Union Conference on Computational Mathematics and
Computational Techniques, Moscow, 16-28 November 1961

KARPOV, K.A.; CHISTOVA, E.A.; DITEIN, V.A., prof., otv. red.

[Weber functions] Tablitsy funktsii Vebera. Moskva, Vy-
chislitel'nyi tsentr AN SSSR. Vol.2. 1964. 340 p.
(MIRA 17:7)

TERENT'YEV, Makar Leont'yevich; KARPOV, Konstantin Dmitriyevich;
KATSHEL'SON, S.M., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Make better use of all possibilities in agriculture] Polnee
ispol'zovat' rezervy v sel'skom khoziaistve. Moskva, Izd-vo
"Znanie," 1960. 37 p. (Vsesoiuznoe obshchestvo po rasprostra-
nieniu politicheskikh i nauchnykh znani. Ser.5, Sel'skoe
khoziaistvo, no.4) (MIRA 13:2)
(Agriculture)

NOVIKOV, V.N.; TOLSTOV, L.K.; SEREBRYAKOVA, Ye.K.; SOKOLOV, B.M.; Prini-
mal uchastiye: Melent'yev, Yu.I.; KAPGER, V.S.; ZORCHENKO, I.F.;
KARPOV, K.F.; Kushnarenko, V.S.; SHEVCHENKO, L.I.; TRIFONOVA, N.
I.; PODZHUNAS, V.A.; MASLITSKAYA, M.P.

Obtaining industrial naphthalene from the centrifugal naphthalene
of the Gubakha Coke and Coal Chemicals Plant. Koks i khim. no.8:
35-38 '62. (MIRA 17:2)

1. Vostochnyy uglekhimicheskiy institut (for Novikov, Tolstov,
Serebryakova). 2. Gubakhinskiy koksokhimicheskiy zavod (for Soko-
lov).

ZHINKIN, G.N., dots., kand. tekhn. nauk; PERETRUKHIN, N.A., st. nauchnyy
sotr., kand. tekhn. nauk; KARASEV, Ya.M., dots., retsenzent;
KASATKIN, A.I., inzh., retsenzent; KARPOV, K.N., dots., retsenzent;
YERMAKOV, K.A., red.

[Roadbed construction in permafrost regions] Sooruzhenie zemliano-
polotna zheleznykh dorog v raionakh vечноi mёрзлоты; uchebnoe po-
sobie po kursu "Stroitel'stvo zheleznykh dorog" dlia studentov
dnevnoy, vecherney i zaonoynoy obucheniya. Leningrad, Leningr.
in-t inzhenerov zhel-dor. transporta im. V.N.Obratzsova, 1961. 61 p.
(MIRA 16:3)

(Railroad engineering--Cold weather conditions)
(Frozen ground)

CHISTIAKOVA, A.M.; KARPOV, K.V.

Organization of laboratory control over public nutrition.
Trudy LSGMI 25:65-78 '55. (MIRA 12:8)

1. Kafedra gigiyeny pitaniya Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - dotsent Z.M.Agranovskiy) i Pishchevoye otdeleniye Leningradskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (starshiy sanitarno-pishchevoy vrach A.P.Melkumova).

(NUTRITION,

in Russia, laboratory control (Rus))

S/113/60/000/010/001/014
D270/D301

AUTHORS: Chapchayev, A.A., Candidate of Technical Sciences,
Karpov, K.V., and Maskenskov, K.M.

TITLE: Gasoline injection in the GAZ-12 engine

PERIODICAL: Avtomobil'naya promyshlennost', no. 10, 1960, 4 - 7

TEXT: On the basis of a standard carburettor from the ГАЗ-12 (GAZ-12) engine, NAMI endeavored to produce a prototype engine with direct gasoline injection. Its purpose was to obtain maximum power and economy. The feed system of the experimental engine was formed by a high pressure 6-plunger gasoline pump with its supply piston pump and vacuum regulator, nozzle, valve tube and fuel filter. Two variants of cylinder heads were designed. The location of the nozzle over the exhaust valve is important with regard to cooling the hot zone, improved evaporation of fuel and favorable conditions for mixing. Automatic regulation of the mixture was accomplished with a diaphragm type vacuum regulator, connected to the choke tube. A detailed description and account of their operation are given. The

Card 1/3

S/113/60/000/010/001/014
D270/D301

Gasoline injection in the ...

system is provided with sufficient regulation and with the necessary means for correcting the mixture in relation to the operating conditions. The experiments began with the investigation of the experimental cylinder head, a compression ratio of 6.7 and the nozzle in the axis. The engine worked best at an injection angle of 65°, when the engine developed 61 hp at 2,000 rpm with a consumption of 240 g/hp.hour. The engine worked abnormally with injection during the compression cycle. When angles are larger than 90°, too short duration produces bad mixing; this variant of injection results in higher power but lower fuel economy. The engine with a standard heat, 6.2 compression and nozzle over the cylinder (injection angle 65°) worked steadily with markedly enriched mixtures. The engine worked much better with the nozzle located above the exhaust valve. Experiments demonstrated that the most suitable moment of injection is to start it during suction at 25° after top dead center. Increase of this angle leads to over-rich regulation. This confirms the findings of various investigations that optimum injection is in the first half of the suction cycle. The needle nozzle proved to be the best type, particularly from point of view of fuel economy, because

Card 2/3

SOKOLOV, Yu.; KARPOV, L.

Tractor trains for grain transportation. Avt.transp. 40
no.3:44-45 Mr '62. (MIRA 15:2)
(Grain--Transportation)

KARPOV, L.; SOKOLOV, Yu.

Tractor trains manufactured at the Ul'yanovsk Automobile
Plant. Avt.transp. 40 no.5:44-45 My '62. (MIRA 15:5)
(Ul'yanovsk—Tractor trains)

KARPOV, L.

Determination of the number of workers employed at the
inner factory transportation. Ekonomika org pracy 13 no.4:168-172
Ap '62.

KARPOV, L.; SOKOLOV, Yu.

Intermediate motor-vehicle models of the Minsk Automobile Plant.
Av.transp. 40 no.7:45-47 J1 '62. (MIRA 15:8)
(Minsk—Automobile industry)

KARPOV, L.A.

Use of the traffic potentialities of the railroads is a very important condition for handling freight increase. Zhel dor. transp. 39 no.3:8-12 Mr '57. (MLRA 10:4)

1. Zamestitel' Ministra putey soobshcheniya.
(Railroads--Management)

KARPOV, L.A.

Make fuller use of potentials for speeding up railroad car turnover. Zhel.dor.transp. 41 no.3:3-8 Mr '59. (MIRA 12:6)

1. Zamestitel' ministra putey soobshcheniya.
(Railroads--Traffic)

KARPOV, L.A.

New grain crop and the tasks facing railroadmen. Zhel.dor.
transp. 41 no.7:46-50 J1 '59. (MIRA 12:12)

1. Zamestitel' ministra putey soobshcheniya.
(Grain--Transportation)

KARPOV, L.A.

Advantages of the consolidation of the Moscow main lines.
Zhel.dor.transp. 42 no.1:9-14 Ja '60. (MIRA 13:5)

1. Nachal'nik Moskovskoy dorogi.
(Railroads--Consolidation)

KARPOV, L.A.

Under the sign of progress and advanced technology; from the practices
of the Moscow Railroad. Zhel.dor.transp. 42 no.11:8-14 N '60.

(MIRA 13:11)

1. Nachal'nik Moskovskoy dorogi.
(Railroads)

KARPOV, L.

Railroads are waiting for help from the scientific technical
community. NTO 3 no. 5:22-25 My '61. (MIRA 14:5)

1. Nachal'nik Moskovskoy zheleznoy dorogi.
(Railroads—Technological innovations)
(Automation)

KARPOV, L.

Determining the level of organization in transportation and loading
and unloading work at an enterprise. Biul. nauch. inform.: trud i
zur. plata 4 no.1:27-31 '61. (MIRA 14:3)
(Railroads, Industrial) (Loading and unloading)

KARPOV, L. A.

New stage in communist labor competition. Zhel. dor. transp.
45 no.4:9-14 Ap '63 (MIRA 16:4)

1. Nachal'nik Moskovskoy dorogi.
(Railroads--Employees)
(Socialist competition)

KARPOV, L.A.

Improving the organization of passenger transportation. Zhel.
dor. transp. 46 no.7:19-26 J1 '64. (MIRA 17:8)

1. Nachal'nik Moskovskoy dorogi.

1. KARPOV, L. D. eng.
2. USSR (600)
4. Stores or Stockroom Keeping
7. Organization of the work of stock rooms for manufactured products.
Sel'khoz mashina no 11: N '52.
9. Monthly List of Russian Accessions, Library of Congress, Feb, 1953, Unclassified.

KARPOV, L.^D; TULUPOVA, N.

Determining maintenance norms and the number of auxiliary workers.
Sots. trud no. 4:81-87 Ap '57. (MLRA 10:6)
(Machinery industry--Production standards)

PHASE I BOOK EXPLOITATION

SOV/4115

Karpov, Lev Dmitriyevich

Metodika rascheta normativov nezavershennogo proizvodstva; dlya mashinostroitel'nykh zavodov (Method of Calculating Norms for Semifinished Products for Machine-Manufacturing Plants) Moscow, Gosplanizdat, 1959. 127 p.
3,500 copies printed.

Ed.: I.M. Petrushev; Tech. Ed.: Ye. S. Gerasimova.

PURPOSE: This book is intended for the engineering and technical personnel in production organization in the machine-manufacturing industry.

COVERAGE: The book describes methods of calculating the in-process production of medium lots, large lots and mass production in the machine-manufacturing industry. Some fundamental requirements for calculating custom and small-lot in-process production are also given. The method is based on five years of experience in agricultural machinery plants. Data from some other plants and from scientific research institutes have also been used. No personalities are mentioned. There are 12 references, all Soviet.

Card 1/5