"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

The Existence and Uniqueness of the Generalized Solution to Cauchy Problem for the Inhomogeneous Conservation Law SOV/20-126-3-7/69

$$\phi(t,x) = \int_{(0,0)}^{(t,x)} u(t,x)dx - \left[\varphi(u,t,x) - F(t,x)\right] dt$$

is denoted to be the potential of the generalized solution. The potential satisfies the equation

$$(2) \quad \frac{\partial\phi}{\partial t} + \varphi\left(\frac{\partial\phi}{\partial x}, t, x\right) = \int_0^x \psi\left(\frac{\partial\phi(t,\xi)}{\partial\xi}, t, \xi\right) d\xi$$

and the initial condition

$$(3) \quad \phi(0,x) = \phi_0(x) = \int_0^x u_0(\xi)\, d\xi .$$

It is asserted that the initial problem for (1) is equivalent with (2) - (3). The existence and uniqueness of the solution of

Card 2/3

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The Existence and Uniqueness of the Generalized Solution to Cauchy Problem for the Inhomogeneous Conservation Law SOV/20-126-3-7/69

the Cauchy problem is proved for (1) by proving the existence of a unique solution of (2) - (3) by successive approximation. The present paper generalizes the previous papers of the authors [Ref 1,2].
There are 4 Soviet references.

PRESENTED: February 13, 1959, by M.V.Keldysh, Academician

SUBMITTED: February 7, 1959

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. N.

Cand Phys-Math Sci - (diss) "Study of solution to systems of quasi-linear hyperbolic type equations." Moscow, 1961. 8 pp; (Moscow Order of Lenin and Order of Labor Red Banner State Univ imeni M. V. Lomonosov); 225 copies; price not given; (KL, 6-61 sup, 194)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

24.4300
K.5500

S/044/62/000/006/029/127
B158/B112

AUTHORS: Kuznetsov, N. N., Rozhdestvenskiy, B. L.

TITLE: Solution of the Cauchy problem for one system of quasi-linear equations with several independent variables

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 72-73, abstract 6B300 (Zh. vychisl. matem. i matem. fiz., v. 1, no. 2, 1961, 217 - 223)

TEXT: The Cauchy problem in a semi-space $t \geqslant 0$ is considered for a system

$$\frac{\partial v}{\partial t} + (v\nabla)v = \nu\Delta v \quad (\nu > 0) \qquad (1)$$

with the initial condition

$$v(0, x, y) = v_0(x, y). \qquad (2)$$

Here $v = (v_x, v_y)$, $\nabla = (\partial/\partial x, \partial/\partial y)$, $v_0 = (v_{0x}, v_{0y}) \in C^2$, $\partial v_{0x}/\partial y = \partial v_{0y}/\partial x$, $|v_0(x, y)| = O(\sqrt{x^2 + y^2})$ for $x^2 + y^2 \to \infty$. Assuming that $\partial v_x(t, x, y)/\partial y = \partial v_y(t, x, y)/\partial x$ for any t, x, y, the authors obtain ex-

Card 1/2

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plicit formulas for the solution of problem (1), (2) using the method of E. Hopf (Communs Pure and Appl. Math., 1950, 3, no. 3, 201 - 230). From a consideration of the formulas obtained it can be established that when $\nu \to 0$ the solution of problem (1), (2) tends to a limit which can essentially be regarded as a generalized solution of the Cauchy problem for the system

$$\frac{\partial u}{\partial t} + (u\nabla)u = 0 \qquad (3)$$

with the initial condition (2). A study is made of the structure of the boundary function which has, generally speaking, both lines and surfaces of discontinuity . Another procedure is also suggested for the setup of a generalized solution of problem (3), (2), connected with the concept of the potential (RZhMat, 1960, 3054). [Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, Nikolay Nikolayevich; RUSANOV, Viktor Vladimirovich; SYSOYEVA, N.V., red.

[Computer mathematics; methods of approximate computation. Modern computers and programming. Methodological instructions for fifth-year correspondence students of mechanics and mathematics faculties of State universities] Vychislitel'naia matematika; metody priblizhennykh vychislenii. Sovremennye vychislitel'nye mashiny i programmirovanie. Metodicheskie ukazaniia dlia studentov-zaochnikov V kursa mekhaniko-matematicheskikh fakul'tetov gosudarstvennykh universitetov. Moskva, Izd-vo Mosk. univ., 1964. 48 p. (MIRA 18:4)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.N. (Moskva); SHISHKIN, A.A. (Moskva)

A multidimensional problem in the theory of quasi-linear equations. Zhur. vych. mat. i mat. fiz. 4 no.4(suppl.):192-205 '64. (MIRA 18:2)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.N. (Moskva); TSI CHZHUN-TAO [Ch'i Chung-t'ao] (Moskva)

Uniqueness of the solution to a hyperbolic system of linear equations with irregular coefficients. Zhur. vych. mat. i mat. fiz. 4 no.4(suppl.):206-211 '64.

(MIRA 18:2)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.N.; TSI CHZHUN-TAO [Ch'i Chung-t'ao]

Uniqueness theorem in the theory of hyperbolic quasi-linear equations. Vest. Mosk. un. Ser.1:Mat., mekh. 19 no.3:25-30 My-Je '64. (MIRA 17:6)

1. Kafedra vychislitel'noy matematiki Moskovskogo universiteta.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, E.N.; TSI CHZHUN-TAO [Ch'i Chung-t'ao]

Uniqueness of the generalized solution of the Cauchy problem for a hyperbolic system of two quasi-linear equations. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.4:3-6 Jl-Ag '64. (MIRA 17:8)

1. Kafedra vychislitel'noy matematiki Moskovskogo universiteta.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

L 00722-66 EWT(1)/EWT(m)/EWA(d)/FCS(k)/EWA(1)

ACCESSION NR: AT5013294 UR/3043/65/000/004/0255/0260

5/14 B+1

AUTHOR: Kusnetsov, N. N.

TITLE: The calculation of a flow with a piston in a semi-bounded cylindrical tube

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1965. Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 255-260

TOPIC TAGS: gas expansion calculation, gas flow, pipe flow, cylindric flow, flow analysis, wave equation, shock wave structure, shock wave reflection

ABSTRACT: The system under study consists of a cylindrical tube, closed on one side, containing a heavy piston which is at rest. The motion is generated by the difference in pressure on the two sides of the piston and it produces simple waves propagating through the gas. If at the left of the piston in the closed volume region the pressure is higher than on the right, open side, the propagation of a wave of rarification is observed to the left and a density wave to the right. Such a problem is then reduced to the integration of a system of ordinary differential equations, and this approach is more accurate and faster than the method of characteristics. The proposed method can be used only until the piston is reached by perturbations reflected from the walls or from the point at which the shock wave

Card 1/2

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ACCESSION NR: AT5013294

appears within the low pressure region. An appropriate program has been established at the VTs MGU by L. G. Gromova. The required equations of state were supplied by approximate expressions proposed for air elsewhere (Yeroshin V. A., Starova Ye. N. Sbornik rabot VTs MGU, "Chislennyye metody v gazovoy dinamike", no. 4, 1965, pp 221-231). The direct integration of the system follows the Runge-Kutta method with a fourth order accuracy. Orig. art. has: 25 formulas and 1 figure.

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy universitet (Computer Center, Moscow University)

SUBMITTED: 00 ENCL: 00 SUB CODE: MA, ME

NO REF SOV: 002 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.N.; ROZHDESTVENSKIY, B.L.

Derivation of a generalized solution to the Cauchy problem for a quasi-linear equation. Usp. mat. nauk 20 no.1:209-212 Ja-F '65. (MIRA 18:4)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

DEMICHEV, A.D.; YENGOVATOV, A.A.; KUZNETSOV, N.N.; KOSTYUKOVICH, N.I.; ULYUYEV, D.I.; USHAKOV, S.M.; LIDERS, G.V., kandidat tekhnicheskikh nauk, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Mechanizing work in major repairing of railroad tracks; experience of track machinery stations] Mekhanizatsiia rabot po kapital'nomu remontu puti; opyt putevykh mashinnykh stantsii. Moskva, Gos. transp.zhel-dor.izd-vo, 1957. 107 p. (MLRA 10:9)
(Railroads--Track)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.N.

Automatic device used for installing fishplates. Put' i put. khoz. no.3:21 Mr '58. (MIRA 11:4)
(Railroads--Tools and implements)
(Railroads--Rails--Fastneings)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.N., inzh.

Removable heads. Put' i put.khoz. 5 no.6:25 Je '61. (MIRA 14:8)
(Screwdrivers)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. N., inzh.

Efficiency promoters of track machinery stations. Put' i put. khoz. 6 no.10:40-42 '62. (MIRA 15:10)

(Railroads—Equipment and supplies)
(Efficiency, Industrial)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

137-58-4-6498

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 23 (USSR)

AUTHORS: Davidson, A.M., Kuznetsov, N.N.

TITLE: Analysis of Rotary Tubular Furnaces (O raschete trubchatykh vrashchayushchikhsya pechey)

PERIODICAL: Sb. nauchn. tr. Severo-Kavkazsk. gorno-metallurg.in-t, 1957, Nr 14, pp 216-223

ABSTRACT: Methods of calculating heat exchange in rotary tubular furnaces are set forth. Equations for the determination of inside diameter, the dimensions of the protected and exposed surfaces of the lining, and of the substance being treated, and the heat exchange between the substance and the gas flow, are developed. Formulas are presented for calculating the length of a tubular furnace that will yield a given output; instructions on determining the optimum diameter are given.

Ya.K.

1. Furnaces--Characteristics 2. Furnaces--Operation

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

SHVARTSMAN, Yakov Naumovich; LEYZEROVICH, G.Ya., kand.tekhn.nauk, retsenzent; BABINA, I.V., inzh., retsenzent; NEYMAN, M.N., inzh., retsenzent; KUZNETSOV, N.N., inzh., red.; MISHARINA, K.D., red.izd-va; KARASEV, A.I., tekhn.red.

[Fluid bed roasting of zinc concentrates] Obzhig tsinkovykh kontsentratov v kipiashchem sloe; uchebnoe posobie dlia podgotovki i povysheniia kvalifikatsii masterov i rabochikh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 92 p. (MIRA 13:9)
(Ore dressing) (Zinc) (Fluidization)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

POGORELYY, A.D.; DEMIDO, N.M.; KUZNETSOV, N.N.

Certain problems in the theory of leaching. Izv.vys.ucheb.zav.; tsvet.met. 3 no.2:54-64 '60. (MIRA 15:4)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra obshchey metallurgii.

(Leaching)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

POGORELYY, A.D.; DEMIDO, N.M.; KUZNETSOV, N.N.

Certain regularities in the continuous leaching process. Izv. vys. ucheb. zav.; tsvet. met. 5 no.4:60-72 '62. (MIRA 16:5)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra obshchey metallurgii.

(Leaching)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

L 13815-65 EWT(m)/EWP(j) Pc-4 RM

ACCESSION NR: AP4047668 S/0138/64/000/010/0007/0012

[illegible] A. [illegible], Novikova, G. Ye., Kuznetsov, N. P.

[illegible] of stereoregular [illegible]

SOURCE: Kauchuk i rezina,, no. 10, 1964, [illegible]

TOPIC TAGS: butadiene rubber, stereoregular synthetic rubber, dilatometry, rubber crystallization, rubber microstructure

[illegible] of stereoregular [illegible] was investigated [illegible]

[illegible] that for all batches of SKD rubber [illegible] crystallization increased

Card 1/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

ACCESSION NR: AP4047668

[illegible] decreasing temperature from -30 to -56-57C, but decreases with a further de- [illegible] temperature. This maximum does not depend on the method of preparation [illegible] factors [illegible] [illegible] show that with [illegible] crystallization decreases [illegible] also decreases the crystallizability [illegible] A polymer con- [illegible] polymerization, the crystallizability decreases [illegible] spectra show [illegible] polymerization does not affect the [illegible] of rubbers, [illegible] weight of SKD sam, [illegible] degree [illegible] polymerization, Thus, the decrease in molecular weight is apparently the main [illegible] the decrease in crystallizability resulting from the increase in the degree [illegible] polymerization. Orig. art. has: 3 figures, 3 tables and 2 formulas.

Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

ACCESSION NR: AP4047668

AUTHOR: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo [illegible] tor

[illegible] ENCL: 00 SUB CODE: OC

NO REF SOV: 002 OTHER: 010

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KRAMP, L.I.; KUZNETSOV, N.P.; OSTROUMOV, B.A.

Equipment for studies in the infrared regions of spectra. Trudy VNIIM no.16:23-41 '51. (MIRA 11:6)
(Spectrum, Infrared) (Optical instruments)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.P.; FAL'KAS, A.I., elektromekhanik.

Simplified method for calculating insulation resistance. Avtom.telem.i sviaz' no.8:33-34 Ag '57. (MLRA 10:8)

1.Starshiy elektromekhanik Vspol'inskoy distantsii signalizatsii i svyazi Severnoy dorogi.
(Railroads--Signaling)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KIRIN, I.S.; GUSEV, Yu.K.; MOSEVICH, A.N.; KUZNETSOV, N.P.; GUSEL'NIKOV, V.S.

Separation of XeO_3 and HIO_3 on zirconium phosphate. Radiokhimiia 7 no.6:736-738 '65. (MIRA 19:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

MOSEVICH, A.N.; KUZNETSOV, N.P.; GUSEV, Yu.K.

Chromatographic separation of some oxygen compounds of xenon and iodine. Radiokhimiia 7 no.6:678-687 '65.
(MIRA 19:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.R.; RYABIN, V.A.; TEL'PISH, V.V.

Kinetics of chromium oxidation in chromite charges formed from ores with various FeO content. Zhur. prikl. khim. 36 no.12: 2754-2757 D'63. (MIRA 17:2)

1. Pervoural'skiy khrompikovyy zavod i Ural'skiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. S. AND ABRAMOV, V. S.

Interaction of Dialkyl Phosphorous Acids with Aldehydes and Ketones. III. Isopropyl and Isobutyl Esters of α-Hydroxyalkyl Phosphinic Acids, page 398
Sbornik statey po obshchey khimii (Collection of Papers of General Chemistry), Vol I, Moscow-Leningrad 1953, pages 762-766

Kazan Chemico-Technological Inst imeni S. M. Kirov

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S.; VASIL'YEV, A.A., red.; BERDYYEV, B., tekhn. red.

[Mineral chemicals industry of the Turkmen S.S.R.]Gornokhimicheskaia promyshlennost' Turkmenskoi SSR. Ashkhabad, Sovet narodnogo khoziaistva TSSR, 1960. 17 p. (MIRA 15:10)

(Turkmenistan--Mines and mineral resources)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

Kuznetsov, N.S.

KRASIL'NIKOV, Andrey Dmitriyevich; KUZNETSOV, N.S., inzhener, nauchnyy redaktor; TYAPKIN, B.G., redaktor izdatel'stva; PERSON, M.N., tekhnicheskiy redaktor

[Reading building plans] Chtenie stroitel'nykh chertezhei. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. 174 p. (MIRA 10:7)
(Architectural drawing)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. S.: Cand Master Tech Sci (diss) -- "The construction of architectural perspectives of large areas taking into account the relief of the locality". Moscow, 1958. 14 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 150 copies (KL, No 1, 1959, 119)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, Nikolay Sergeyevich,; GORSHKOV, A.P., red. izd-va,; EL'KINA, E.M., tekhn. red.

[Making wide-angle perspectives with high horizon planes] Postroenie shirokougol'nykh perspektiv s vysokim gorizontom. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 53 p. (MIRA 11:12)

(Architectural drawing)
(Perspective)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

POLUNOV, Leon Solomonovich; GOSTEV, Vadim Ivanovich; IOANNESYANTS, M.A., inzh., retsenzent; KUZNETSOV, N.S., inzh., retsenzent; YAKOVLEVA, V.I., red.izd-va; SOROKINA, G., tekhn.red.

[Design of industrial laboratories and offices of the department of technical control; brief manual] Proektirovanie zavodskikh laboratorii i sluzhb otdela tekhnicheskogo kontrolia; kratkoe spravochnoe posobie. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 154 p. (MIRA 13:4)
(Engineering laboratories)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, Nikolay Sergeyevich; ANISIMOV, Nikolay Nikitovich; FILIPPOV, V.A., kand. ped. nauk, red.; OSELEDETS, Z.M., red. izd-va; SHERSTNEVA, N.V., tekhn. red.; KOROBKOVA, N.I., tekhn. red.

[Drawing and mechanical drawing]Cherchenie i risovanie. Moskva, Gosstroiizdat, 1962. 314 p. (MIRA 16:1)
(Mechanical drawing)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

CHAYVANOV, B.V.; KUZNETSOV, N.S.

Improvement of industrial planning in enterprises of the Moscow City Economic Council. Biul.tekh.-ekon.inform.Gos.nauch.-issl. inst.nauch.i tekh.inform. 17 no.1:93-94 '64. (MIRA 17:2)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KAV'YAROV, I.S.; KUZNETSOV, N.S.

The T-108 crawler tractor. Biul. tekh.-ekon. inform. no. 4:57-59 '61. (MIRA 14:5)

(Crawler tractors)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

27969
S/193/61/000/009/007/007
A004/A101

12.6000

AUTHOR: Kuznetsov, N.S.

TITLE: Tractors for regions of the extreme north

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 9, 1961, 71 - 72

TEXT: According to the 1961 plan for the development and introduction of new machinery, the Chelyabinskiy traktornyy zavod (Chelyabinsk Tractor Plant) has developed 6- and 15-ton tractors suitable for operation in the severe climate of extreme northern districts. By April 1961, the designs of the Plant were approved by the b. GNTK RSFSR. These 6- and 15-ton tractors are based on the new T-130 and ДЭТ-250 (DET-250) designs. The tractor undercarriage has been considerably reinforced and protected from soil or pieces of rock getting into it. Also the transmission is protected, and the caterpillar tracks are reinforced. The tractors are equipped with engine-heating arrangements and heated fuel tanks. Special metals, rubber and synthetic materials have been used [Abstracter's note: none of the materials is specified] to ensure an operation of the tractors at temperatures reaching -50°C. A combined technical council of the Chelyabinsk Sovnarkhoz and Tractor Plant, together with representatives of the Vostochno-Sibir-

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A004/A101

Tractors for regions of the extreme north

skiy filial Sibirskogo otdeleniya AN SSSR (East Siberian Branch of the Siberian Department of the AS USSR), the Magadan, Krasnoyarsk and Yakutsk Sovnarkhozes, the Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut (State All-Union Scientific Research Institute of Tractors) and VNIIstroydormash have examined and approved the designs of the 6- and 15-ton tractors for regions of the extreme north. Interdepartmental tests of these new tractor models are going to be carried out during 1961 and 1962.

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KUZNETSOV, N.S.

The DET-250 high-power diesel-electric tractor with earthmoving equipment. Biul.tekh.-ekon.inform. no.7:74-76 '61.

(MIRA 14:8)

(Tractors) (Earthmoving machinery)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S.; YEMEL'YANOV, L.V., redaktor; UVAROV, A.F., tekhnicheskiy redaktor.

[Improved equipment and instrument for machinery layout] Usovershenstvovannye prisposobleniia i instrument dlia razmetki. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1954. 63 p.
(Machine-shop practice)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S.

Improved marking gauges. Izm.tekh. no.4:91-93 Jl-Ag '56. (MLRA 9:11)

(Calipers)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

AUTHOR: Kuznetsov, N.S., Engineer. 114-6-9/11

TITLE: Notes on the work of TsNIITMASH (Central Scientific Research Institute of Heavy Engineering)'Iz rabot TsNIITMASH)

PERIODICAL: "Energomashinostroenie" (Power Generation Machinery Construction) 1957, Vol. 3, No. 6, p. 28 (U.S.S.R.)

ABSTRACT: 1) The strength of gas turbine blades has been tested in vibration combined with tension. The work was carried out on a new experimental set-up with asymmetric load cycle conditions at high temperatures. It was established that alternating bending stresses up to 50% of the static tensile stress have practically no influence on the strength of smooth round specimens. The vital influence of stress concentration and the influence of blade profile on the strength were demonstrated.

2) Investigations were made into the possibility of inspecting thick welded joints made by multi-layer welding of pearlitic and austenitic steels. A special ultrasonic defectoscope was developed, the main parameters of which (working frequency and sensitivity) are selected with allowance for the results of investigations which have been made into the damping of ultrasonic waves in welded joints of various types and also the technical requirements in respect of quality of each welded joint.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

Notes on the work of TsNIITMASH (Central Scientific Research Institute of Heavy Engineering). Cont.)

114-6-9/11

A procedure of ultrasonic inspection was developed for several types of massive welded joints on important parts of steam and gas turbines.

An instruction was drawn up for production inspection of welded joints on super-high pressure steam piping. The work was carried out together with workers of the Leningrad Metal Works (LMZ) and the Kharkov Turbine Works (KhTZ).

3) As a result of work which has been done on methods and means of measuring large internal and external diameters equipment has been installed in the Leningrad Metal Works for the application of a remote optical method of measuring external diameters of water turbine parts of more than 10 metres diameter.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S., inzhener.

Work of the Central Scientific Research Institute of Machine Building and Metalworking. Energomashinostroenie 3 no.9:37 S '57. (MIRA 10:10)

(Steel castings)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

AUTHOR : Kuznetsov, N.S. (Engineer). 114-7-11/14

TITLE : The First Economics Conference of the Central Scientific Research Institute of Heavy Engineering. (Pervaya ekonomicheskaya konferentsiya TsNIITMASh.)

PERIODICAL: "Energomashinostroyeniye" (Power Machinery Construction) 1957, No.7, Vol.3, p.32. (U.S.S.R.)

ABSTRACT: The Central Scientific Research Institute of Heavy Engineering held its first Economics Conference on the 25th-26th April. More than 200 of the Institute's staff and about 50 representatives of different organisations took part. The assistant director, N.N.Zorev, presented a report entitled "Concrete economics of scientific research work and tasks of the first economics conference". The conference heard 22 reports about the economic effectiveness of work on the main lines of activity of the institute: technological processes of welding in line production, heat treatment, electrical heating by power frequency currents, cold working of metal, manufacture of blanks for turbine blades, new brands of heat resistant steel, the strength of metal in gas turbine parts, welded-cast and welded-forged constructions in water turbines, and a number of similar questions. Over 100 placards were exhibited which besides describing the essence of the work included calculations of the expected or actual effect of introducing them into industry. The works of the conference will be published.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

The First Economics Conference of the Central Scientific Research Institute of Heavy Engineering. (Cont.) 114-7-11/14

A most important result of the conference was to direct the attention of the collective of the institute to questions of concrete economics. The conference noted a number of important problems that it would be important to solve and also noted deficiencies in the procedure and organisation of work on determination of the technical-economic results of work.

2/2 (Note: This is a complete translation).

There are no figures and no literature references.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

25(2) PHASE I BOOK EXPLOITATION SOV/2354

Kuznetsov, Nikolay Semenovich

Vysokoproizvoditel'nyye prisposobleniya i instrument razmetchika (High-capacity Devices and Tools for the Layout Man) Moscow, Mashgiz, 1958. 96 p. (Series: Biblioteka razmetchika, vyp. 2) 10,000 copies printed.

Ed. of Publishing House: T.M. Somova; Tech. Ed.: N.A. Dugina; Editorial Board of Series (Ural-Siberian Division, Mashgiz): N.S. Kuznetsov, Engineer, L.A. Rogachevskiy (Ed. of this issue) Candidate of Technical Sciences, and T.M. Somova, Engineer.

PURPOSE: This booklet is intended for layout men.

COVERAGE: This booklet, the second of a series of 12, deals with technical progress in the field of marking. The purpose of the Markers' Library is to assist layout men in improving their skill, to stimulate creative work, and to develop more efficient methods and higher productivity. No personalities are mentioned. There are 40 references: 31 Soviet, 6 English, 2 French, and 1 German.

Card 1/ 2

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

High-capacity Devices and Tools (Cont.) SOV/2354

TABLE OF CONTENTS:

Ch. I. Marking Devices
Supporting and aligning devices 3
Prisms 3
Sine-principle devices 7
Marking heads 17
Centering headstocks 19
Coordinate-marking devices 31

Ch.II. Marking Instruments 33
Computers 44
Scriber blocks 44
Prick punch instruments and devices 51
Instruments and devices for marking circular lines 70

Bibliography Cited 80

AVAILABLE: Library of Congress 96

Card 2/2

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S., inzh.

Conference on production technology for welded hydraulic turbine shafts. Energomashinostroenie 4 no. 6:48 Je '58. (MIRA 11:8)
(Hydraulic turbines)
(Welding)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S., inzh.

Transactions in power engineering of the Central Research Institute of Technology and Machinery during the first half year of 1958. Energomashinostroenie 4 no.12:34 D '58.

(Power engineering) (MIRA 11:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S.

AUTHOR: Kuznetsov, N.S., Engineer

117-58-5-20/24

TITLE: The Latest in Marking Technique (Novoye v razmetochnoy tekhnike)

PERIODICAL: Mashinostroitel', 1958, Nr 5, pp 43-46 (USSR)

ABSTRACT: The article deals exclusively with foreign achievements in marking technique. It discusses the merits of a number of marking devices, gauges and measuring instruments dealt with in English, German and French literature. There are 11 figures and 8 non-Soviet references.

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Card 1/1

1. Scientific instruments-Measurement

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

AUTHOR: Kuznetsov, N.S., Engineer

TITLE: Device for the Hammer Hardening of Details (Prisposobleniye dlya naklepa detaley)

SOV-117-58-8-11/28

PERIODICAL: Mashinostroitel', 1958, Nr 8, pp 29-30 (USSR)

ABSTRACT: The surface hardening of steel details increases their wear resistance. At those places of the details where the form and the size changes sharply, considerable stresses arise during the hammering. The fillets of small rollers may be hardened by rolling, but for large rollers this method is not possible. Hardening by blasts of metal shot, is also impossible because the chambers for this method are not big enough for large rollers. Furthermore, hardening by this method reaches only a depth of 0.5 mm. In the article a device is described which may be used for hammer hardening of large parts (Figure 1). It is installed on a milling machine or a turning lathe. The exchangeable hammer head is fastened to the spindle. It works at 1,500 cycles per min. Hardening by this method reaches a depth of 20-25 mm.
There is 1 diagram and 1 photo.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

AUTHORS: Goncharik, A.P., Engineer, and Kuznetsov, N.S. SOV/117-58-12-7/36

TITLE: A Pneumatic Installation for Removing Waste Wood (Pnevmaticheskaya ustanovka dlya udaleniya drevesnykh otkhodov)

PERIODICAL: Mashinostroitel', 1958, Nr 12, pp 9 - 10 (USSR)

ABSTRACT: The wood-working shop of the Penzenskiy mashinostroitel'nyy zavod (Penza Machine Building Plant) is equipped with a pneumatic installation for removing waste wood, which has been working for two years without any repairs. The installation consists of a pipeline with suction branches terminating in collectors, which are connected with the wood working machines. The waste is transported by an air stream through the pipeline to a centrifugal ventilator and then through another pipeline to a dust extractor from where it is brought by a conveyer to the boiler room. The maximum capacity of the installation is $18m^3$ or 3.6 tons per hour. There is 1 diagram.

Card 1/1

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PHASE I BOOK EXPLOITATION SOV/4652

Kuznetsov, Nikolay Semenovich, and Anatoliy Aleksandrovich Opanasyuk

Peredovyye metody razmetki po shablonam i kalibram (Advanced Layout Methods with Templets and Gauges) Moscow, Mashgiz, 1960. 68 p. (Series: Biblioteka razmetchika, vyp. 5) 10,000 copies printed.

Editorial Board of Series: N. S. Kuznetsov, Engineer, B. Ya. Miroshnichenko, Candidate of Technical Sciences, S. V. Lisitsyn (Ed. of this booklet) Engineer, and T. M. Somova, Engineer; Ed.: T. M. Somova; Tech. Ed.: N. A. Dugina.

PURPOSE: This booklet is intended for layout men in machining shops.

COVERAGE: This is the fifth in a series of thirteen booklets comprising the "Library of a Layout Man". Included is information on the achievements of leading layout men in their use of plane and 3-dimensional templets, gages, and master parts. By means of concrete examples the authors

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Advanced Layout (Cont.) SOV/4652

attempt to show that the use of gages, and templets results in simplification of work procedure and increase in labor productivity. No personalities are mentioned. There are 19 references, all Soviet.

TABLE OF CONTENTS:

Ch. I. Use of Templets for Layout Work (By N. S. Kuznetsov)
1. Plane templets 3
Laying out plane articles with templets 5
Plane templets in 3-dimensional layouts 5
Special cases for the use of templets 11
2. The 3-dimensional templets 23
Layout of parts with 3-dimensional templets 28
Centered templets for 3-dimensional layouts 28
Layout of cylindrical surfaces with templets 35
3. Special cases for the use of templets in 3-dimensional layouts 40
4. Using drawings as templets 43
47

Card ~~2/3~~

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

VINOGRADOV, Boris Vladimirovich; LISITSYN, S.V., inzh., red.; KUZNETSOV, N.S., inzh., red.; GAVRILOV, P.G., kand.tekhn.nauk, red.; SOMOVA, T.M., inzh., red.izd-va; DUGINA, N.A., tekhn.red.

[Dimensions and layout of parts in the manufacture of machinery] Razmery i razmetka detalei v mashinostorenii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 84 p. (Biblioteka razmetchika, no.13). (MIRA 13:11)

(Laying out (Machine-shop practice))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

MIROSHNICHENKO, Boris Yakovlevich; BUKHVALOVA, K.I., inzh., red.vypuska; KUZNETSOV, N.S., inzh., red.; GAVRILOV, P.G., kand.tekhn.nauk, red.; SOMOVA, T.M., inzh., red.; MARCHENKOV, I.A., tekhn.red.

[Layout precision in the manufacture of machinery] Tochnost' mashinostroitel'noi razmetki. Sverdlovsk, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 86 p. (Biblioteka razmetchika, no.4). (MIRA 14:1)

(Laying out--Machine-shop practice)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

S/114/60/000/009/007/007
E194/E435

AUTHOR: Kuznetsov, N.S., Engineer

TITLE: A New Form of Collaboration Between an Institute and Works

PERIODICAL: Energomashinostroyeniye, 1960, No.9, p.43

TEXT: During 1959, the Council of TsNIITMASh (The Central Scientific Research Institute of Technology and Machine Building) held three sessions at large heavy engineering works. Because of the success of these sessions a further joint session was held in April 1960 at the Khar'kov Turbine Works to consider the prospects of turbine development at the works during the next seven years and also developments in materials and components. The session was attended by the leading workers of the main Power Engineering and Heavy Engineering Manufacturers, of the Khar'kov Council of National Economy, scientific workers from various Research Institutes. Twenty one reports and eight communications were read by staff of TsNIITMASh and the Khar'kov Turbo-Generator Works. In his introductory report, the Chief Engineer S.I.Berezin discussed the prospects of development of turbine manufacture at the works during the next seven years.

Card 1/3

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E194/E435

A New Form of Collaboration Between an Institute and Works

Reports on materials for steam and gas turbines were read by I.L.Mirkin, T.I.Volkova, and L.P.Trusov, also by M.I.Pokrass, by N.I.Budko, by Yu.V.Kostochkin and by V.N.Goncharova. The treatment, and particularly heat treatment, of heat resistant steels and alloys was discussed in the reports of N.A.Radzivilov, G.I.Grigorash, B.I.Lazarev, M.M.Timofeyev and G.S.Vasil'chenko and A.D.Vershinskaya. Reports on various aspects of welded and forged rotor manufacture were read by M.A.Khabacheva, Ya.L.Voynich and N.V.Tikhomirov. Five authors read communications on materials for use in water turbines. Reports on welding of austenitic-ferritic steel were read by N.Ye.Levenberg and A.S.Gel'man. Reports on general engineering questions, mainly in connection with casting, were read by A.F.Nasankin, N.S.Kreshchanovskiy, N.I.Klochnev, Ye.N.Bobyr' and P.A.Borsuk. Reports on cold welding of cast iron with steel electrodes were read by V.V.Bazhenov and G.V.Larin. The director of TsNIITMASh Doctor of Technical Sciences, Professor Ye.P.Unksov described his visit to England. The decisions of the meeting emphasized that integrated development of investigation of new materials, of

Card 2/3

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E194/E435

A New Form of Collaboration Between an Institute and Works

methods of manufacture and of treating components for steam, gas and water turbines, on which the scientific activity of TsNIITMASh is based, is the best way of solving problems in engineering, as is confirmed by many years experience of collaboration between institutes and works. The general trend to follow in scientific research work was agreed on and some particular problems requiring joint solution were mentioned.

Card 3/3

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S., inzh.

Conference on economics held at the Central Research and Machinery Building Institute. Energomashinostroenie 7 no.5:32 My '61. (MIRA 14:8)
(Electric machinery--Congresses)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

BRYUNETTI, B.Ye.; KOVTUN, A.A.; KUZNETSOV, N.S.; RASPOPOV, O.M.; CHICHERINA, N.D.; YANOVSKIY, B.M.

Studying the structure of the Central Russian Depression by the magnetotelluric method. Uch. zap. LGU no.324:3-16 '64.

(MIRA 18:4)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

YANOVSKIY, B.M.; BRYUNELLI, B.Ye.; KOVTUN, A.A.; KUZNETSOV, N.S.; RASPOPOV, O.M.; CHICHERINA, N.D.

Magnetotelluric sounding in the Central Russian Depression. Izv. AN SSSR. Ser. geofiz. no.7:999-1006 Jl '64. (MIRA 17:7)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

ACCESSION NR: AP4043137 S/0049/64/000/007/0999/1006

AUTHOR: Yanovskiy, B. M., (Doctor of physico-mathematical sciences), Bryunelli, B.Ye., Kovtun, A.A., Kuznetsov, N.S., Raspopov, O.M., Chicherina, N.D.

TITLE: Magnetotelluric sounding in the Central Russian Depression

SOURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 7, 1964, 999-1006

TOPIC TAGS: magnetotelluric sounding, geology, geophysics, terrestrial conductivity, magnetotelluric profiling, electrical profile

ABSTRACT: Information published earlier on magnetotelluric sounding work in the Central Russian Depression is reviewed, and new work done in the central part of the region is described. The work was undertaken to determine the value of the total longitudinal conductivity and the depth and thickness of the poorly conducting basement. Information on the relief of the bottom of the depression is contradictory; data obtained by drilling, logging and sounding are compared. It is noted that the electrical profile of the studied region can be represented schematically as a three-layer structure with an upper layer of

Card 1/3

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relatively high resistivity, a layer of low resistivity and a base of high resistivity. It was with these initial data and concepts that an expedition from the Leningradskiy gosudarstvenny*y universitet (Leningrad State University) began magnetotelluric sounding work in the summer of 1962. Sounding was done at four points along a profile running across the assumed strike of the axis of the depression. Several days were spent at each point. The variations of the H_x H_y Ex and E_y components of the electromagnetic field were recorded. Variations with different periods were recorded continuously for the period from 14 August through 4 September, 1962. A spectrum of variations from 5-10 to 2000-3000 seconds was obtained at each point. The vectors of variations in E and H in most cases were not perpendicular to one another. For periods of less than 400 seconds they were nonperpendicular by only 2-8°, but for greater periods the deviation was 10-15°. The methods and formulas used in processing the data are presented. It was found that all the curves obtained in approximately the same geological region differ in behavior in the region of small periods, indicating considerable variation in the sedimentary complex of the studied region. In addition, in the region of large periods on all the sounding curves, there was a maximum indicating an increase in conductivity at great depths. A formula for estimating the thickness of poorly conducting layers is given. The new magnetotelluric sounding data are

Card 2/3

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ACCESSION NR: AP4043137

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compared with drilling data. It was found that the depth of the upper surface of the well-conducting layer varies from point to point in the range 200-400 km; it is noted that variations of this scale also have been reported elsewhere in the literature. Orig. art. has: 7 formulas, 3 figures and 3 tables.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet imeni A. A. Zhdanova (Leningrad State University)

SUBMITTED: 10Jul63 ENCL: 00

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, L. A. Cand. Tech. Sci.

Dissertation: "Intensification of the Scrap-Process in an Oil-Heated Open-Hearth Furnace by Application of Oxygen." Moscow Order of the Labor Red Banner Inst of Steel imeni I. V. Stalin, 12 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

Kuznetsov, N.S.

18(5) PHASE I BOOK EXPLOITATION SOV/2295

Moscow. Institut stali

Primeneniye kisloroda v staleplavil'nom proizvodstve (Use of Oxygen in Steelmaking) Moscow, Metallurgizdat, 1957. 418 p. (Series: Its: Sbornik, 37) Errata slip inserted. 3,500 copies printed.

Ed.: Ye. A. Borko; Ed. of Publishing House: Ya. D. Rozentsveyg; Tech. Ed.: Ye. B. Vaynshteyn; Editorial Board of the Institute: M.A. Glinkov, Doctor, Professor; R.N. Grigorash, Candidate of Technical Sciences, Docent; N.T. Gudtsov, Academician; V.P. Yelyutin, Doctor, Professor; A.A. Zhukhovitskiy, Doctor, Professor; I.N. Kidin, (Resp. Ed.) Doctor, Professor; B.G. Livshits, Doctor, Professor; A.P. Lyubimov, Doctor, Professor; I.M. Pavlov, Corresponding Member, Academy of Sciences, USSR; K.G. Trubin, Doctor, Professor; and A. N. Pokhvisnev, Doctor, Professor

PURPOSE: This collection of articles is intended for scientific, industrial, chemical, and metallurgical engineers, physicists

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and students.

COVERAGE: This book is a collection of scientific research papers on the utilizations of oxygen in steelmaking. The use of oxygen blast for the intensification of fuel combustion and the introduction of oxygen into liquid metal in order to oxidize admixtures are among the topics discussed. The use of oxygen in scrap-ore processes for making steel from pig iron with a high phosphorus content is also discussed. Several articles deal with the heating and processing fundamentals of steelmaking in a recirculation steel-melting furnace. Individual articles deal with the economics of steelmaking with oxygen-blast and the optimum conditions for effective utilization of oxygen. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Filipov, S.I. [Professor, Doctor of Technical Sciences]. Kinetics of Oxidation of Elements in the Metal Bath During Oxygen Blast 5
The author discusses oxidation of carbon, manganese, silicon,

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and phosphorus, in relation to the rate of introduction of oxygen into the bath.

Glinkov, M.A. [Professor, Doctor of Technical Sciences] and V.I. Mitkalinnyy [Candidate of Technical Sciences]. Thermal Work of Open-hearth Furnaces in the Scrap Process 22
The authors describe modifications made on a furnace to achieve higher efficiency when oxygen blast is introduced.

Kuznetsov, N.S. [Docent]. Intensification of the Open-hearth Process by Utilizing Oxygen for Fuel Combustion 33
The author discusses the relationship between the ratio of oxygen introduced, and the heat value of the fuel gas. He also makes recommendations for changes in the refractory lining of furnaces.

Kharitonov, A.S. [Candidate of Technical Sciences], and K.G. Turbin [Doctor of Technical Sciences, Professor]. Use of Oxygen for Intensification of Decarbonization in the Open-hearth Bath 38

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The authors study the possibilities of shortening heat time by forced decarbonization, and by reheating metal during the rimming period with oxygen blast.

Kornfeld, V.N. [Candidate of Technical Sciences]. Effect of Oxygen Utilization on the Degasification of Metal During Melting (Open-hearth Scrap Process) 80

This article is a study of the concentration of gases present in metal in the bath at varying rates of oxygen enrichment of the air and under various conditions of oxygen blast.

Orlov, V.I. [Candidate of Technical Sciences], R.M. Ivanov, [Engineer], and Kh. D. Yerinin [Engineer]. Gas Content in the Open-hearth Bath 98

The authors discuss the content of oxygen, hydrogen, and nitrogen present in the open-hearth bath at various stages of the heat

Bannyy, N.P. [Candidate of Economic Sciences], and V.A. Romenets

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

[Candidate of Technical Sciences]. Technical and Economic Efficiency of Oxygen Utilization in Open-hearth Processes 124

Oyks, G.N. Doctor of Technical Sciences, [Professor], Yu. V. Kryakovskiy [Candidate of Technical Sciences], and V.P. Grigor'yev [Engineer]. Intensifying Open-hearth Conversion of High-phosphorus Pig Iron by Introducing Oxygen Into the Bath 138

Oyks, G.N., Yu. V. Kryakovskiy, Ye. A. Kapustin, and V.P. Grigor'yev. Efficiency of Oxygen Utilization for Enriching Air in the Open-hearth Conversion of High-phosphorous Pig Iron 152
The author describes comparative industrial tests of different stages of the open-hearth process with and without the use of oxygen.

Oyks, G.N. Selecting the Proper Method for Open-hearth Conversion of High-phosphorus Pig Iron 166
The author suggests a composition of open-hearth charge, which, combined with oxygen blast, is supposedly more efficient in dephosphorization.

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Abrosimov, Ye. V. [Candidate of Technical Sciences, Docent]. Intensification of the Open-hearth Scrap Process With Oxygen 177

The author discusses the use of oxygen blast for the intensification of fuel combustion, for the meltdown, for the direct oxidation of charge elements, and for the duration of the entire heat.

Abrosimov, Ye. V., V.A. Kudrin [Candidate of Technical Sciences], and G.I. Demin [Candidate of Technical Sciences, Docent]. Material and Heat Balances of the Open-hearth Scrap Process With Oxygen Blast 195

The authors give an account of a comparative experimental investigations of heat and material balances of open-hearth processes with and without oxygen blast.

Kudrin, V.A. Temporary Overoxidation of the Open-hearth Bath During Oxygen Blast 214

Abrosimov, Ye. V., and V.A. Kudrin. Course of Carbon Oxidation in the Open-hearth Bath During Oxygen Blast 232

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Kudrin, V.A., and Ye. V. Abrosimov. Possibility of Decreasing Time of the Rimming Process Proper in the Open-hearth Bath During Oxygen Blast 252

The author presents a method of decreasing rimming time to 4 to 5 minutes, thus increasing production by 5 to 10 percent

Kryakovskiy, Yu. V. Dust Formation in the Open-hearth Furnace During the Scrap Process 260

Aleksandrova, A.I. [Candidate of Technical Sciences], G.N. Oyks, and N.P. Bannyy. Making Steel From High-phosphorus Pig Iron 281

The authors discuss production data for the conversion of high-phosphorus pig iron, including heat time, slag formation, and the effect of oxygen on fuel consumption.

Glinkov, M.A. Doctor of Technical Sciences [Professor], and N.S. Vavilov [Candidate of Technical Sciences]. Heat Exchange Above the Bath of a Recirculation Steel-melting Furnace 305

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This article deals with the thermal and technical aspects of a 10-ton industrial recirculation steel-melting furnace with simultaneous fuel feed from both ends accompanied by the application of oxygen-enriched air.

Krivandin, V.A. [Candidate of Technical Sciences]. Study of Combustion in the Recirculation Steel-melting Furnace 330

The author describes an investigation of the combustion processes, furnace gases, and composition of the exhaust gases.

Rekhtman, A. Ya. [Candidate of Technical Sciences, Docent]. Special Characteristics of Gas Flow in a Recirculation Steel-melting Furnace 354

The author discusses investigations made in a model furnace for the study of gas flow, the distribution of combustion products, and the distribution of pressure on the walls.

Demin, G.I. [Docent]. Heat Balances of a Recirculation Steel-melting Furnace 372

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Use of Oxygen in Steelmaking SOV/2295

Molchanov, N.G. [Candidate of Technical Sciences, Docent]. Comparison of Gaseous Fuel Combustion Processes in Furnaces With Through and Recirculating Gas Flows 377

Livshits, B.G. [Doctor of Technical Sciences, Professor], L.A. Shishko [Candidate of Technical Sciences, Docent], and N.G. Lakhman [Engineer]. Quality of Steel Made in a Recirculation Steel-melting Furnace 395

The authors investigate the qualities of recirculation-furnace steels, comparing them with ordinary open-hearth steel.

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137-58-6-11670

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 64 (USSR)

AUTHOR: Kuznetsov, N.S.

TITLE: Intensification of the Open-hearth Process by Use of Oxygen to Burn the Fuel (Intensifikatsiya martenovskogo protsessa primeneniyem kisloroda dlya szhiganiya topliva)

PERIODICAL: Sb. Mosk. in-t stali, 1957, Vol 37, pp 33-37

ABSTRACT: Calculations are presented on the effect of O_2 used to intensify the combustion of fuel in open-hearth furnaces, on the consumption of air, and the quantity of combustion products with fuels of various heating value. It is noted that the optimum degree of enrichment of air with O_2 depends to a significant degree upon the heating value of the fuel. Specifically, when heavy oil is burned in the open hearth the figure is calculated at 40%, while under shop conditions it is 27-32% O_2.

A.S.

1. Open hearth furances--Performance 2. Fuels--Combustion
3. Oxygen--Applications

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.S.

Mills for cold rolling of very thin pipes. Biul. tekhn.-ekon. inform. no.8:14-15 '58. (MIRA 11:10)
(Rolling mills)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

CHERNYAYEV, I.I.; KUZNETSOV, N.T.

Acid-base properties of some tetrammines of platinum(IV). Zhur. neorg. khim. 6 no.1:81-89 '61. (MIRA 14:2)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova Akademii nauk SSSR.
(Platinum compounds)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

CHERNYAYEV, I.I.; KUZNETSOV, V.T.

Mixed platinum pentamines. Zhur. neorg. khim. 6 no.1:71-80 '61. (MIRA 14:2)

1. Institut obshchey i neorganicheskoy khimii N.S. Kurnakova Akademii nauk SSSR.

(Platinum compounds)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

CHERNYAYEV, I.I.; KUZNETSOV, N.T.

Acid-base properties of ethylenediamine-ammonia platinum pentamines.
Zhur.neorg.khim. 7 no.4:762-768 Ap '62. (MIRA 15:4)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR.
(Platinum compounds) (Amines) (Ethylenediamine)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

CHERNYAYEV, I.I.; KUZNETSOV, N.T.

Mixed iodopentamines of platinum. Zhur.neorg.khim. 7 no.4:756-761 Ap '62. (MIRA 15:4)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR.

(Platinum compounds) (Amines)

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L [illegible] EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL/AFWL WW/RM
[illegible] AP4043571 [illegible] 1817/1821

[illegible] Kuznetsov, N. T.

TITLE: Synthesis of P-phenylphosphinoborines

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 8, 1964, 1817-1821

TOPIC TAGS: phenylphosphinoborine, synthesis, hydrolytic stability, acid stability, alkali stability, solubility, [illegible] structure, polymer structure

[illegible] Phenylphosphinoborines were synthesized by the reaction of $NaBH_4$ with [illegible] phosphine [illegible] phenyl[illegible]

[illegible]

[illegible] filtration of the salt and removal of the solvent, these products were [illegible] at 164-170C and at 70-80C, respectively, to form the polymeric materials

Card 1/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

ACCESSION NR: AP4043571

$$n(C_6H_5)_2PH \cdot BH_3 \rightarrow [(C_6H_5)_2PBH_2]_n + nH_2$$

$$nC_6H_5PH_2 \cdot BH_3 \rightarrow [C_6H_5PBH]_n + 2nH_2$$

Benzene-insoluble fractions formed in these reactions corresponded to the formulas [illegible] and [illegible] [illegible] manner [illegible]

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

ACCESSION NR: AP4043571

AUTHOR: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova

DATE ACQ: 12Feb64

SUB CODE: GC NO REF SOV: 009 OTHER: 003

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.T.

Synthesis of p-phenylphosphinoborine. Zhur. neorg. khim. 9 no.8: 1817-1821 Ag '64. (MIRA 17:11)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. T.

USSR/Geophysics - Mongolian Geography Sep/Oct 51

"Water Exchange Among the Central-Group Lakes in Mongolia's Valley of Big Lakes," N. T. Kuznetsov, Inst of Geog, Acad Sci USSR

"Iz Ak Nauk SSSR, Ser Geog" No 5, pp 53-57

Subject valley is located west of Mongolian People's Republic, between Altay, Khangai and Tannu-Ola mountain ranges. Describes geological history, geographical peculiarities and the climate of the valley at 1,000-1,500 meters altitude.

205T57

Kuznetsov, N. T.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. T.

USSR/Geophysics - Glacial Deposits May/Jun 52

"Glacial Deposits in the Mongolian Altay and Their Influence on the Contemporary Hydrography of Rivers," N.T. Kuznetsov, Inst of Geog, Acad Sci USSR

"Iz Ak Nauk SSSR, Ser Geograf" No 3, pp 46-50

One of the physicogeographical problems in the study of Mongolia requiring detailed investigations is the problem concerning its ancient deposits. Here the author's aim is to show on the example of Mongolian Altay the influence of glacial lakes and seas on present-day river networks. He

216T86

gives the scheme of the hydrographic net in the northern end of Lake Tolbo; also the scheme showing the distribution of ancient glacial deposits in the northeastern part of the Mongolian Altay.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

IVANOV, A.T.; KUZNETSOV, N.T.

Chemistry of rivers of the Mongolian People's Republic. Izv.AN SSSR Ser. geog. no.4:28-38 Jl-Ag '53. (MLRA 6:8)

1. Institut geografii Akademii nauk SSSR.
(Mongolia--Chemical denudation) (Chemical denudation--Mongolia)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. T.

"Original Form of Relief," Priroda, No.6, pp. 103-04, 1953. Inst. of Geog., AS USSR

Describes relief of valleys of great lakes of Mongolia which are called "remotely prepared river bed residue".

261T84

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.T.

XUZNETSOV, N.T. [redacted] GELLER, S.Yu., redaktor; DOBRONRAVOVA, A.O., redaktor; NEVRAYEVA, N.A., tekhnicheskiy redaktor.

[Exploiting the rivers of our land] Osvoenie rek nashei rodiny. Moskva, Izd-vo Akad.nauk SSSR, 1954. 94 p. (MIRA 8:3)
(Rivers) (Hydraulic engineering)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.T.

Paleogeographic mystery of the Bulgan River. Vop.geog. no.35: 296-300 '54. (MLRA 7:12)
(Bulgan Valley, Mongolia)

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KUZNETSOV, N. T.

USSR/ Geography - Fluvial systems

Card 1/1 Pub. 45 - 5/18

Authors : Kuznetsov, N. T.

Title : The regularity of the feed and discharge of rivers of the Mongolian People's Republic

Periodical : Izv. AN SSSR Ser. geog. 1, 46 - 53, Jan-Feb 1955

Abstract : An analysis is made of the river system of Outer Mongolia, a country which is dry in the southern part and the northern part of which is covered by mountains with rivers flowing northward. Contrary to the usual condition of mountain regions the rivers are fed mostly from rain instead of snow. The drainage is dealt with by river and by season. Map; graph; table.

Institution : Acad. of Sc., USSR, Geographic Institute

Submitted : .....

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV,N.T.

Some characteristics of lakes and their utilization in virgin and idle lands in the northern provinces of Kazakhstan. Izv. AN SSSR. Ser.geog. no.2:62-68 Mr-Ap '55. (MLRA 8:6)

1. Osobaya kompleksnaya ekspeditsiya SOPS AN SSSR po zemlyam novogo sel'skokhozyaystvennogo osvoyeniya, Institut geografii AN SSSR.
(Kazakhstan--Lakes)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N. T.

USSR/Geography - Mongolia

Card 1/1 Pub. 86 - 16/39

Authors : Kuznetsov, N. T.

Title : Rivers of the Mongolian People's Republic

Periodical : Priroda 44/3, 97 - 100, Mar 1955

Abstract : The principle features of the fluvial system of Mongolia are presented, such as their origin in the central mountain ranges where they are fed by rains instead of the usual mountain snows. Some description is also given of the erosion and weathering material covering the mountains, the lakes and irrigation. Map; illustrations.

Institution : Academy of Sciences, USSR, Geographic Institute

Submitted : .....

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.T.

Means of utilizing local water resources in virgin lands of Kazakhstan. Priroda 44 no.8:91-93 Ag '55. (MIRA 8:10)

1. Institut geografii akademii nauk SSSR
(Kazakhstan--Water supply)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

L'VOVICH, M.I.; ARHF'YEVA, V.A.; KUZNETSOV, N.T.

Changes of runoff in virgin land development areas and tasks confronting hydrology as a geographical science. Izv.AN SSSR.Ser. geog.no.1:80-91 Ja-F '57. (MLRA 10:4)

1. Institut geografii AN SSSR.
(Runoff)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120020-7

KUZNETSOV, N.T.

Possibilities of changing the water balance of artificial and natural reservoirs in the plain region of northern Kazakhstan. Izv.AN SSSR.Ser.geog.no.1:109-113 Ja-F '57. (MLRA 10:4)

1. Institut geografii AN SSSR.
(Kazakhstan--Hydrology)

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