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KNYAZEV, S.I. (Sverdlovsk)

"Short textbook in physics for students registering at the institutions of higher learning" by L.V.Sobolev; "How to prepare for the entrance examinations to the institutions of higher learning; physics" by V.R.Saulit, V.IU.Pedalko. Reviewed by S.I.Kniazev. Fiz.v shkole 23 no.1:101-102 Ja-F '63. (MIRA 16:4)

(Physics—Textbooks)
(Sobolev, L.V.) (Saulit, V.R.) (Pudalko, V.IU.)

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KNYAZEV, S.I.

Determining the focal length of a lens by means of the parallax method. Fiz. v shkole 17 no.1:67-68 Ja-F '57. (MLRA 10:2)

1. Ural'skiy gosudarstvennyy universitet im. A.M. Gor'kogo, Sverdlovsk.
(Lenses--Study and teaching)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

18(5,7) SOV/128-59-6-3/25

AUTHOR: Barabash, I.M., Shuper, A.S. and Knyazev, S.I., Engineers

TITLE: Molding Large Steel Castings in Jackets

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 6, pp 6-7 (USSR)

ABSTRACT: For the modern foundry, complete mechanization is the most important problem. For small and medium size foundries, the solution of mechanization problems is easier to find. For large foundries, in which large and individual shaped castings have to be poured, this problem is far from being solved. There exist machines for the manufacture of pattern molds, but only for small patterns. Large patterns have still to be made by hand. Manufacture of mold boxes by means of machines is known too, but still more advanced is the manufacture of pattern molds as permanent cast dies, the standard size of which depends on the molding machines available at the plant. This method leads to savings in time and space. After listing all the weaknesses of the hitherto

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SOV/128-59-6-3/25

Molding Large Steel Castings in Jackets

existing working method, the authors report on a new process introduced by them in cooperation with the Institute VPTI. The metal dies are fastened by bolts and lifted by means of cranes with a 3 tons capacity. The problem of "shrinkage allowance" in molding boxes (for the carcass) is described. Despite several new difficulties, , the permanent metal dies have better properties than those used till now. There are 2 photographs

Card 2/2

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KNYAZEV, S.I. (Sverdlovsk)

~~Remarks on the~~ apparatus for the study of optics. Fiz. v shkole 19 no.1:100 Ja-F '59. (MIRA 12:3)
(Optical instruments)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, Sergey Ivanovich; LEVKOV, A.N., kand. fiz.-matem. nauk, red.; KONSTANTINOVA, V.M., assistent, red.;

[Laboratory manual on optics] Fizicheskii praktikum po optike; posobie dlia studentov universitetov, tekhnicheskikh vuzov i dlia uchitelei srednei shkoly. Sverdlovsk. Pt.3.(Laboratory work on photometry, plane and spherical mirrors, lenses, the eye, and optical systems] Prakticheskie raboty po fotometrii, po izucheniiu ploskikh i sfericheskikh zerkal, linz, glaza i opticheskikh sistem. 1962. 446 p. (MIRA 16:6)

1. Sverdlovsk. Ural'skiy gosudarstvennyy universitet.
(Optics—Laboratory manual)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, S.I.

Determination of the indexes of refraction of liquids and solids.
Zav. lab. 29 no.9:1110-1111 '63. (MIRA 17:1)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, S.I.; CHARIKOV, B.A.

Optical adjustment of plane mirrors. Izm. tekh. no.8:22-23 Ag '63. (MIRA 16:10)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

AUTHOR: Kuyazev, S. N., Engineer

SOV/154-58-4-9/18

TITLE: Surveying Records of Structures of the Kuybyshev Water Power Development (Geodezicheskiye nablyudeniya sooruzheniyami Kuybyshevskogo gidrouzla)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 4, pp 87 - 91 (USSR)

ABSTRACT: The buildings, the spillway dam, the earth dams and the two sluices with the shipping canals of the Kuybyshev water power development are the largest structures which have hitherto been built on soft ground. The experience gained during the construction of the Moskva-Volga canal, of the Volga-Don canal, and of the Tsimlyanskiy water power development were taken into account in the organization of the surveying record project. The surveying measurements carried out within the framework of the observation and the investigation of the deformation of structures in the Kuybyshev development can be considered to be of a fundamental nature. The costs of the observation work carried out during the construction period amounted to about 7 million Roubles.

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Surveying Records of Structures of the Kuybyshev Water Power Development SOV/154-58-4-9/18

The dams were without exception fitted with depth and surface bench marks for an observation of the settling of the bulkhead line and of the slopes. In 1957, the surveying records provided the following information: The principal blocks of buildings of the development settled by 80-200 mm. In the flanking sections of the structures and buildings settling was greater than in the central parts. According to the predictions of the Institute VODGEO settling should have even gone to 25 cm. The maximum settling actually recorded did not even reach half of this value. The remaining structures, as the spillway (63 - 150 mm), the lower sluice gates (114 - 203 mm), and the upper sluice gates (70 - 150 mm), it appeared, did settle much less. Eventual horizontal slipping of structures of the development was also recorded by surveys. The observation of the tilting and the bending of certain parts of the structures was carried out according to the regulations published by the Moscow Institute of Surveying-, Aerial Surveying-, and Cartography Engineers.

Card 2/3

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Surveying Records of Structures of the Kuybyshev Water Power Development SOV/154-58-4-9/18

ASSOCIATION: Nauchno-issledovatel'skiy sektor Gidroproyekta (Scientific Research Sector of the Gidroproyekt)

Card 3/3

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KNYAZEV, S.N

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.; BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVOY, G.A.; BULEV, M.Z.; BURAKOV, N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.; GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT, Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.; GORBACHEV, V.N.; GRZHIB, B.V.; GREKULOV, L.F., kand. s.-kh. nauk; GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO, Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK, A.P.; ZENKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.; KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.; KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.; KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.; LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSKEVICH, K.F.; MEL'NICHENKO, K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk; MUSIYEVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.; OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN, G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMEZOV, N.P.; ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.; RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.; SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY, Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA, Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.; TSISHEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN, N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA, I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,

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ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MEKKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBREZKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, O.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER,

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ANDON'YEV, V.L.... (continued) Card 3.
Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N., tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn. red.

[Volga-Don; technical account of the construction of the V.I. Lenin Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center, and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-stve Volgo-Don ego sudokhodnogo kanala imeni V.I. Lenina, TSimlianskogo gidro uzla i orositel'nykh sooruzhenii, 1949-1952; v piati tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk. Red. toma M.M. Orishin. 1957. 319 p. Vol.2. [Organization of construction. Specialized operations in hydraulic engineering] Organizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.

(Continued on next card)

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ANDON'YEV, V.L.... (continued) Card 4.
Glav. red. S.LA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.
(MIRA 11:9)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-korrespondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin, Rasin).

(Volga Don Canal--Hydraulic engineering)

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GERASIMOV, Ye. P.; BERLYAYEV, K. M.; GIL', A. V.; KNYAZEV, S. N., Engineers

"Cast Thread Gauges," Stanki I Instrument, 16, No. 3, 1945

BR-52059019

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

USSR / Pharmacology and Toxicology. Chemotherapeutic Agents. V-10

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 80697

Author : Feynshteyn, A. M.; Knyazev, S. V.
Inst : Not given
Title : Serious Condition Caused by the Use of PAS in Combination with Streptomycin
Orig Pub : Klinich. meditsina, 1957, 35, No 12, 110-111

Abstract : A combined treatment of streptomycin (0.5 g a day) and PAS (10 g a day) were administered to a patient 25 years old with infiltrative tuberculosis of the lungs; pneumothorax was applied. After a dose of 17 g of streptomycin and 340 g of PAS, the condition of the patient suddenly worsened, in connection with the appearance of acute progressive changes of a toxic-allergic character of the skin (edema, erythrodermia, vesicular rash; later, squamous lichen) and of the peripheral blood (leukocytosis 72000,

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BREZHNEV, M., insh.; KEYAZEV, S., insh.

New 1575 horse power passenger motorship. Rech. transp. 19 no. 2:21-25 F '60. (MIRA 14:5)
(Ships—Equipment and supplies)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

BREZHNEV, M., insh.; KNYAZEV, S., insh.

New 1575 horsepower passenger motorship; conclusion. Rech.transp. 19 no.3:21-23 Mr '60. (MIRA 14:5)
(Ships—Equipment and supplies)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, S.V.

Prospects for using plastic materials in river transport. Plast. massy no.5:39 '61. (MIRA 14:4)
(Plastics) (Inland water transportation)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

NOVIK, R., insh.; KNYAZEW, S., insh.

New cargo-passenger 800 hp. diesel vessel. Rech.transp. 19 no.5:17-22 My '60. (MIRA 13:7)
(Freighters--Passenger traffic)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, S., insh.; LENTSIYER, A., insh.

New means for increasing freight traffic. Rech. transp. 20 no. 2:30-31 F '61. (MIRA 14:2)

(Tank vessels)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, S., inzh.

Evaluating the economic efficiency of removable flexible containers. Rech.transp. 20 no.4:34-35 Ap '61. (MIRA 14:5)
(Inland water transportation) (Containers)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, S., inzh.

Flexible containers for the transportation and storage of liquid cargo. Mech. transp. 20 no.5:61-63 My '61. (MIRA 14:5)
(Containers)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, S.V., insh.

Shallow tanker for river service. Sudostroenie 27 no.5:1-2 My '61. (MIRA 14:6)

(Tank vessels)

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Card 2/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V,

Effect of oxygen and of illumination on the formation of thin layers of naphthacene on the surface of aqueous solutions. M. Gerovich, R. Kagenovich, and V. Knyazev (Ed. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 81, 459-63(1951).—Surface potentials *R* of films of naphthacene (I) deposited from a C_6H_6 soln. on the surface of a 0.02 *N* H_2SO_4 soln. in H_2O were measured by the Gouy-Frumkin radioactive-probe method as a function of the area *S* per mol. Under strict exclusion of O_2 from both the C_6H_6 and the aq. soln., *R* attains +222 mv., *s* = 3 sq. A., i.e. the film is multimol. Illumination with a 100-w. lamp for 3 hrs., at a distance of 18 cm. from the vessel in which I was dissolved had no effect on the characteristics of the film. Exposure to O_2 for 5 hrs. in the dark, with the measurements also made in the dark, produced no change in comparison with the expts. under H_2, i.e. there was no oxidation. There is, however, a distinct effect if I is dissolved in C_6H_6 in the dark in a stream of O_2, and the soln. then exposed to light, under a continued stream of O_2. Under the combined action of O_2 and of light, *E* increases, and the properties of the film approximate those of a unimol. film of a polar substance; according to Gillet (*C.A.* 43, 7341*e*), this polar substance would be a peroxide, with O forming a bridge between 2 C atoms in para position in one of the middle rings. In a film of I deposited from an O_2-satd. C_6H_6 soln. exposed to light for 5 hrs., on 0.01 *N* NaOH, *E* was lowered to 121 mv., a behavior characteristic of polar substances according to Frumkin (*C.A.* 19, 1799). In contrast, *E* of the multimol. films of nonpolar I formed in the absence of O_2 and light, depends very little on the pH of the aq. soln. The formation of the multimol. films of unoxidized I is due to adsorption of cations from the soln. and polarization of the nonpolar mols. N. Thon

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KNYAZEV, V.

Going ahead. Voen. znan. 39 no.11:39 N '63. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

Knyazev, V.

Cotton Manufacture

Methods of increasing the productive power of cotton mills. Khlopkovodstvo no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KHYAZEV, V.

Lifesavers. Voen.znan. 36 no.3:35 Mr '60. (MIRA 13:3)

(Lifesaving stations)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.

People of an explcit. Vcen. znan. 40 no.9:47 S '64.
(MIRA 17:12)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V. (g.Pensa)

How to eliminate the "twisting" of the image in the "Belarus'-5" television receiver. Radio no.1:39 Ja '62. (MIRA 15:1)
(Television--Receivers and reception)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.

"The breeding of working dogs" by A.Mazover. Reviewed by V.Kniazev. Voen.znan. .no.5:39 My '61. (MIRA 14:4)

(Dog breeding)
(Mazover, A.)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.

Great fame. Voen.znan. 37 no.4:36 Ap '61. (MIRA 14:4)

(Police dogs) (Border guard)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.

"Guardsmen of the 15th Rifle Division" by S.I.Vasil'ev, A.P.Dikan'. Reviewed by V.Kniazev. Voen. znan. 37 no.11:39 N '61. (MIRA 14:11)

(Russia--Army--History)
(Vasil'ev, S.I.) (Dikan', A.P.)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.

"War and automatic control" by V.N.Vaneev. Reviewed by V. Kniazev. Voen. znan. 33 no.7:39 Jl '62. (MIRA 15:6)
(Automatic control--Military applications) (Vaneev, V.N.)

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KNYAZEV, V.

"People will never forget this." Reviewed by V.Kniazev. Voen. znan. 38 no.5:39 My '62. (MIRA 15:5)
(World War, 1939-1945--Personal narratives)

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KEMTSOV, K.; KRYUZKV, V.

Give more attention to the clubs! Voen. znan. 38 no.3:36 Mr '62. (MIRA 15:2)

(Dog breeding)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

TASHKINOV, A. (Perm'); KNYAZEV, V.; SYCHEV, B., shofer; TELITSYN, A., shofer; SHIRMANOV, Yu., shofer; GORSHKOV, G., shofer; FEDOTOV, G. (Penza); RYBIN, N. (Krasnodarskiy kray); ZYRYANOV, T., bukhgalter posharnoy chasti (Kamensk-Ural'skiy, Sverdlovskaya obl.); KRIVOSHAPOV, I. (Sverdlovsk); VOLODIN, V. (Rostov-na-Donu)

Readers' letters. Posh.delo 8 no.8:30 Ag '62. (MIRA 15:8)

1. Nachal'nik dobrovol'noy posharnoy druzhiny kolkhoza "Rossiya", Kalininskaya obl. (for Knyazev). 2. Bol'shaya-Murashkinskaya rayonnaya posharnaya komanda Gor'kovskoy oblasti (for Sychev, Telitsyn, Shirmanov, Gorshkov).
(Fire prevention)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, U.A.

11(7) PHASE I BOOK EXPLOITATION SOV/2996

Akademiya nauk SSSR. Institut goryuchikh iskopayemykh

Genezis tverdykh goryuchikh iskopayemykh (Genesis Of Solid Fuels) Moscow, AN SSSR, 1959. 358 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Vsesoyuznoye mineralno-sekhnicheskoye im. S. Z. Ordzhonikidze, Moskovskaya ordzhonikidze.

Resp. Eds.: N. M. Zaporozhev, Corresponding Member, USSR Academy of Sciences, and S. G. Vitov, Doctor of Chemical Sciences; Ed. of Publishing House: A. I. Andrianov; Tech. Ed.: Z. F. Ma'ulin.

PURPOSE: This collection of articles is intended for geochemists, geologists, and other specialists interested in the genesis of solid mineral fuels.

COVERAGE: The collection of papers on the genesis of solid mineral fuels has been prepared for presentation at the 3rd All-Union Conference on this subject. The formation of humic acids and peat from the decomposition of microorganisms and plants is discussed in connection with studies on the origin of hard coal and brown coal, and on the role of certain mineral components in the coal-forming process. The chemical composition of peat and the organic mass of coal are analyzed and shown in a number of tables. Extensive "Bituminous" oil shales are analyzed as are the brown coals of the Dnepropetrovsk basin. Metamorphism and carbonization of coal found in different parts of the Urals and the Ukrainian SSR are also discussed. The transformation of peat matter into combustible minerals is analyzed. References accompany individual articles.

Bushinsky, Yu. V. Genesis of Bituminous Bituminite Oil Shale 6

Petrov, A. S. On the Question of the Origin of Solid Bituminous Oil Shale F

Zaporozhev, N. M., and I. A. Vlasov. Lignite and Initial Stages of Coal Formation 21

Sokolov, V. P. Origin of Brown Coal Found in the Dnepropetrovsk Basin of the Ukrainian SSR 36

Chernovaty, Yu. M. Irregular Carbonization of Brownish Coal Found on the Eastern Flank of the Central and Northern Urals 48

Bogdanova, L. I. Petrographic and Chemical Characterization of Some Types of USSR Vitrinshaya and Bogatovskaya Bituminite 57

Kiryukov, V. V. Conditions of Formation of Slightly Carbonized Coal From Southern Coal Brown Coal Basin

Zaporozhev, N. A. Metamorphism of Brown Coal From Bogatovskaya and Vitrinshaya Deposits of the Eastern Flank of the Northern Urals

Shatsov, A. I. Geologic Conditions of Transformation of Coal Substance in the Dnepropetrovsk Part of the Donbass Platform

Grigoryev, M. Ya. Some Possible Conditions Under Which Coal Strata Could Have Been Formed on the Donetsk Basin

Zakharov, B. P. Evolution of Basic Coal During Metamorphism

Shirokova, I. Ya. Changes in Microscopic Characteristics of Clarain Coal of the Donbass During Metamorphism

Bilyanskiy, V. I. Genesis of Jurassic Coal on Yava

Sokolov, I. V. Organic Sulfur in Coal

Gavrushkin, V. I. Some General Physical and Chemical Questions Concerning the Coal-Forming Process

Petrov, N. I. Characteristics of the Process of Transformation of Peat Matter Into Present Combustible Minerals and the Connection of These Characteristics With the Principal Properties of Combustible Minerals

Ammosov, I. I. Genetic Features of the Coal Substance as Ascertained by Petrographic Findings

Sokolov, V. I. Chemical Nature of the Basic Organic Mass of Bark and Brown Coal and Changes During Metamorphism

Zakharenko, T. A. Changes in the Structure and Properties of Humic Acids During the Coal-Forming Process

Vitov, S. G. Role of Mineral Elements in the Coal-Forming Process

Kontsevoy, V. G., A. I. Polikarpova, and A. A. Yuryevskiy. Genesis of Organic Sulfurous Compounds Contained in Coal

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

BEZHAYEV, M.M., kand.geologo-mineralogicheskikh nauk; KNYAZEV, V.A., dotsent

Occurrence of brecciated coal in the Volchanska brown coal deposit. Izv. vys. ucheb. zav.; gor. zhur.no.11:14-22 1959. (MIRA 14:5)

1. Ural'skiy filial Akademii nauk (for Bezhayev). 2. Sverdlovskiy gornyy institut imeni V. V. Vakhrusheva (for Knyazev). Rekomendovana kafedroy geologii mestorozhdeniy poleznykh iskopayemykh Sverdlovskogo gornogo instituta.

(Ural Mountains—Lignite)
(Coal geology)

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CHERNOUSOV, Ya.M., prof.; KNYAZEV, V.A., dotsent;
ANFIMOV, L.V., assistent

Synonymy of coal seams in the Makheneve deposit. Izv. vys. ucheb. zav.; gor. zhur. no. 4;3-8 '61. (MIRA 14:6)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Rekomendovana kafedroy geologii mestorozhdeniy goryuchikh poleznykh iskopayemykh Sverdlovskogo gornogo instituta.
(Makhnevo region--Coal geology)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

ACCESSION NR: AP4029147 S/0105/64/000/004/0072/0076

AUTHOR: Valeyev, Kh. S. (Candidate of technical sciences); Knyazev, V. A.; Drozdov, N. G. (Doctor of technical sciences, Professor)

TITLE: Nonlinear semiconductor resistors based on zinc, silicon, and tin oxides

SOURCE: Elektrichestvo, no. 4, 1964, 72-76

TOPIC TAGS: zinc oxide orthostannate semiconductor, zinc oxide orthosilicate semiconductor, nonlinear semiconductor

ABSTRACT: Zinc oxide was selected as a semiconductor in the investigation reported, and TiO_2, SiO_2, SnO_2, Al_2O_3, B_2O_3 were tried as dielectric-forming substances. Specifically, two-component $ZnO - SiO_2$ and $ZnO - SnO_2$ ceramics were investigated. Thermographic and petrographic studies of ZnO, SiO_2, SnO_2 and their mixtures in various molecular ratios were conducted. It was found that at 1150—1270 C, the $ZnO - SiO_2$ compound had a slight exothermic effect and exhibited a pronounced expansion of the specimens. Zinc orthosilicate proved to be a good dielectric with $\varepsilon' = 8$, $\rho = 10^{12}$ ohms/cm and a breakdown voltage of

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ACCESSION NR: AP4029147

30 kv/mm. Zinc orthostannate could be sintered at 1440 C and had ε = 10 and a breakdown voltage of 25 kv/mm. In the specimens certain proportions were held between the amount of zinc-oxide crystals and that of the ortho-compound. Additional barrier layers were created in some experiments by introducing a low-melt glass. The static current-voltage characteristics, nonlinearity factor, resistance to 20/40-μsec current pulses, pulse-carrying capacity, density, specific heat capacity, and thermal conductivity were measured. It was found that the degree of nonlinearity of the material can be controlled by introducing low-melt glass. Orig. art. has: 5 figures, 7 tables, and 4 formulas.

ASSOCIATION: Gosudarstvenny*y issledovatel'skiy elektrokeramicheskiy institut (State Electroceramic Research Institute); Moskovskiy energeticheskiy institut (Moscow Power-Engineering Institute)

SUBMITTED: 20Dec63 ATD PRESS: 3050 ENCL: 00

SUB CODE: EC NO REF SOV: 014 OTHER: 003

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BEZBAYEV, M.M.; KNYAZEV, V.A.

Lithological composition and the conditions of the formation of Middle Jurassic continental deposits of the eastern slope of the Urals. Dokl. AN SSSR 147 no.1:170-173 N '62. (MIRA 15:11)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR. Predstavleno akademikom D.V. Nalivkinym.
(Ural Mountains—Petrology)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

VALEYEV, Kh.S., kand.tekhn.nauk; KNYAZEV, V.A.; DROZDOV, N.G., doktor tekhn.nauk, prof.

Nonlinear semiconductor resistances based on zinc, silicon, and tin oxides. Elektrichestvo no.4:72-76 Ap '64. (MIRA 17:4)

1. Gosudarstvennyy issledovatel'skiy elektrokeramicheskiy institut (for Valeyev, Knyazev). 2. Moskovskiy energeticheskiy institut (for Drozdov).

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KNYAZEV, V.A.

Petrographic composition of coals in the Pakhnevo deposit. Trudy Sver. gor. inst. no.43:51-70 '63. (MIRA 18:7)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

ANFIMOV, L.V.; KNYAZEV, V.A.; CHERNOUSOV, Ya.V.

Coal manifestation in the littoral sediments of the Makhnevo deposit in the eastern slope of the Urals. Trudy Sver. gor. inst. no.43:71-74 '63. (MIRA 18:7)

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PHASE I BOOK EXPLOITATION 474

Kartsev, M.A., Aleksandridi, T.M., Knyazev, V.D., Tsnetov, G.I., Legezo, L.S., Lavrenyuk, Yu.A., Shchurov, A.I., Brusentsov, N.P., Kuznetzova, V.P.

Bystrodeystvuyushchaya vychislitel'naya mashina M-2 (High-speed Computer M-2) Moscow, Gostekhizdat, 1957. 228 p. 10,000 copies printed.

Ed. (title page): Bruk, Isaak Semenovich, Corresponding Member, USSR Academy of Sciences; Ed. (inside book): Bezborodov, Yu. M.; Tech. Ed.: Gavrilov, S.S.

PURPOSE: The book is written for engineers and students of vuzes, specializing in computer techniques, and for specialists interested in computer applications.

COVERAGE: The book describes the M-2, a small-dimensioned, universal, high-speed digital computer developed by the Laboratory of Control Machines and Systems of the Academy of Sciences, USSR. A detailed description is given of the basic computer units: the arithmetic

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unit, internal memory devices, control devices and output devices. This description is supplemented with an exposition of the guiding principles of computer design, the binary system, coding and programming, and the design of basic components of the system. This makes the book accessible to readers who have no special training in electronic computers. The basic characteristics of the computer are as follows: the calculation system is binary; the code presentation is with a floating and fixed binary point; the number of binary digits is 34; the computation accuracy, with a floating binary point, is about eight decimal bits, and with a fixed binary point, about ten decimal bits (computations with doubled accuracy are also possible); the range of numbers in operations with a floating binary point is from 2^{31} to 2^{-32}; the coding system is a three-address code; operations performed are: addition, subtraction, multiplication, division, congruence with modulus, algebraic congruence, logical (signed) multiplication, sign inversion, transfer of numbers, and auxiliary operations (30 in all); the average speed of operation is

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2000 operations per second. Of the internal memory devices the basic one is electrostatic, consisting of cathode-ray tubes of the 13L037 type, for 512 numbers; the access time is 25 μsec; the auxiliary consists of a magnetic drum for 512 numbers; the speed of rotation is 2860 rpm. The external memory device consists of a magnetic tape with a capacity of 50,000 numbers; its length is 600 m and speed 0.4 m/sec. The data is fed in on perforated paper tape at the rate of about 30 numbers per sec. The decoding of data is in tabular form, the printing speed is 24 numbers per min. The power supply is from a 3-phase a-c metwprl 127/220-v, the power intake is 29 kw. The area covered by the computer is 22 sq. m. The total number of tubes is 1879, of which 1676 are used in the computer itself and 203 in the power supply. The types and numbers of tubes used in every unit are given in Appendix 2. The personnel consists of two people per shift. The cost of building the computer was about one million rubles, and the cost of 24-hr operation is 16,000 to 18,000 rubles per month. The various stages of development of the M-2 involved

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the following engineers: M.A. Kartsev, V.V. Belinskiy and A.B. Zalkind, who developed the arithmetic unit; the electrostatic memory device was developed by T.M.Aleksandridi and Yu.A. Lavrenyuk; control devices by L.S. Legezo, V.D. Knyazev and G.I. Tanetov; magnetic memory devices by A.I. Shchurov and L.S. Legezo; input and output devices by A.B. Zalkind; the power supply system by V.V. Belynskiy, Y.A. Lavrenyuk and V.D. Knyazev; the control panel by V.V. Belynskiy and A.I. Shchurov. The design work was supervised by M.A. Kartsev. The following laboratory constructors, technicians, mechanics and assemblymen also worked on the project; I.Z. Gel'fgat, A.D. Grechushkin, N.A. Nemtsev, F.F. Rzheutskiy, I.K. Shvil'pe, D.U. Yermochenkov, L.I. Fedorov, and G.I. Korostylev. The following persons collaborated in the writing of the book: M.A. Kartsev (Chapters I to VI and XI), I.M. Aleksandridi (Chapter VII), V.D. Knyazev (Chapters II, III, VII and IX), V.P. Kuznetsova (Chapter XII), Yu. A. Lavrenyuk (Chapters V and VII), G.I. Tanetov (Chapters VI, IX and XIII), A.I. Shchurov (Chapter VIII), N.P. Brusentsov (Chapters VIII, IX, XIV) and L.S. Legezo (Chapter X).

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PHASE I BOOK EXPLOITATION SOV/3671

Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin

Tsifrovaya tekhnika i vychislitel'nye ustroystva: [Sbornik] (Digital Technique and Computing Devices; Collection of Articles) Moscow, Izd-vo AN SSSR, 1959. 184 p. Errata slip inserted. 4,000 copies printed.

Ed.: N.S. Bruk, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: S.Tu. Shteynbok; Tech. Ed.: V.V. Volkhova.

PURPOSE: This collection of articles is intended for persons specializing in computer technique.

COVERAGE: Most of the work in this first issue of the Collection of Articles of the Institute of Electronic Control Machines of the Academy of Sciences, USSR, was carried out during 1958-1959, and was dedicated to digital technique. The Institute conducted studies aimed at creating a high-speed memory device of large capacity. One of the results of this work was improvement of the M-2 computer by replacing its static storage device with ferrite memory cores. Other articles concern the use of transistors in digital computers, stability of analog computers equipped with d-c operational amplifiers, and the use of the M-2 computer in solving various problems. Future issues of this collection of articles will present the results of work in digital technique in mathematical investigations, and in control machines and systems of control which operate on the principle of digital technique. Some personalities are mentioned in the articles. References accompany some of the articles.

Gelenbe, E.B., A.L. Brudno, and M.M. Vladimirova. Calculation of Mutual- and Self-Impedances of Multiphase Electrical Networks With Digital Computers 128

The authors describe the procedure adopted for this calculation, which was made with the M-2 computer. There are 7 references, all Soviet.

Gelenbe, E.B., and I.A. Shubin. Calculations of the Distribution of Reactive Power in Long Distance Transmission Lines With Electronic Digital Computers 137

The authors describe the procedure adopted for this calculation, in which they investigated, with the help of the M-2 digital computer, the problem of electronic computer voltage-regulation in high voltage transmissions in which a fairly large number of step-down substations is used along the transmission route. There are four references, all Soviet.

Berzhaev, N.G. Conversion of Continuous Electrical Quantities Into Digital Codes 150

The author discusses the conversion of continuously variable or analog electrical quantities into digital codes which express these quantities by means of discrete electrical states. He presents, in table form, conversion methods or converter types together with the characteristics of each method or type. There are 8 references: 3 Soviet (one of which is a translation) and 5 English.

Bruno, A.L., and Yu.A. Lazarevskiy. Operation of the M-2 Electronic Digital Computer (Brief Report) 168

This is a report concerning the operation of the M-2 and results obtained from it in the period 1953-1958.

Karlsen, N.A., V.P. Bunyev, and V.P. Kuznetsova. High-Speed Electrostatic Printing Device 175

The authors describe an experimental model of an electrostatic parallel printing device developed at the Laboratory in 1956-1957. The printing rate is 300 lines per sec.

Berzhaev, N.G., and V.A. Tret'yakov. Ferrite-Transistor Trigger With One Transistor 179

The authors describe the trigger device which they developed at the Laboratory. They compare it with a similar one-transistor trigger described in the IRE Proceedings, 1956, No 3, enumerating the disadvantages of this particular trigger and the advantages of their trigger. There is one English reference.

Gelyuber, N.I. Decimal Counter Equipped With Ferrite-Transistor Triggers 183

The author describes a counter in which the four column scheme of a binary counter with feedback was applied. This counter may find application as an integrating device for decimal frequency division in systems of pulse automation and computing technique, and also in nuclear electronics.

KNYAZEV, V.D.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

S/799/62/000/002/006/011

AUTHORS: Knyazev, V.D., Sakharov, V.N.

TITLE The magnetic-tape deck of the computing machine M-2.

SOURCE Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin. Tsifrovaya tekhnika i vychislitel'nyye ustrayst[illegible] no. 2, 1962, [illegible]-97.

TEXT. The tape deck (TD) provides the tape drive past the recording and playback heads as determined by the switch unit. A general-view photograph and a block scheme of the TD are adduced. The TD consists of the following parts: The tape [illegible] the tape-feed and -take-up system with two coils, the recording and playback [illegible], the tape-drive control circuitry, the magnetic recording, playback, and [illegible] heads, the control board, and the power supplies. The coils hold 500 m of magnetic tape (Type-4) 18.75 mm wide. The tape contains 4 information and 2 [illegible] tracks. At the drive speed of 2 m/sec, the recording density amount to [illegible] mm of tape length. The recording or playback time of a single zone [illegible] digit binary numbers) is then 0.6 sec. Start and stop time [illegible] msec. The [illegible] of the mechanism of the TD is illustrated with an isometric exploded [illegible] the kinematic arrangement of the TD. [illegible] diagram [illegible] operation of the pressure rollers. The take-[illegible] and feed [illegible]

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The magnetic-tape deck of the computing.... S/799/62/000/002/006/011

described and the switch arrangement is illustrated with a schematic cross-sectional drawing. The bulk-tape eraser head and the recording and playback heads [illegible]bed. The tape-drive controls, which contain [illegible] independent parts, namely, [illegible] and stop-solenoid control and the drive-reversal control network, are [illegible]. The first of these is illustrated in a full-scale schematic diagram. The [illegible] diagram of the playback amplifier, which is a 4-cascade rheostat amplifier, [illegible]. The recording of the information is performed on a previously saturation-[illegible]zed tape. Only the "1" are recorded on the magnetic tape. An absence of [illegible] signifies the signal "0". Advantage [illegible] Disadvantage [illegible] magnetic-tape noise level. Two types of control are provided: Automatic [illegible]. Practical hints concerning the setting-up and maintenance of TD are [illegible]. There are 7 figures (the text lists up to Fig. [illegible], presumably erroneously).

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

S/[illegible]62/000/002/007/011

AUTHORS: Knyazev, V. D., Landau, I. Ya.

TITLE: The magnetic-tape control unit of the computing machine M-2.

SOURCE: Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin. Tsifrovaya tekhnika i vychislitel'nyye ustroystva. no. 2, 1962, 98-109.

TEXT: The magnetic-tape memory unit (MTMU) is employed as an external memory unit for the storage of great amounts of information for the digital computer M-2 of the INEUM (Institute of Electronic Control Machines), AS USSR. The [illegible] wide magnetic tape (MT) contains zones with [illegible] 34-digit binary numbers. [illegible] of a single length of MT contain 400 zones (204,800 number or 7.10[illegible] binary bits). There are 4 information and 2 service tracks. Recording of information is done by the pulse method on saturation-magnetized MT, only the "1" digits are recorded. Recording and playback is done by the parallel-series method synchronously with prerecorded markers. Each number is divided into 6 columns having 4 binary bits per column (the last column contains 2 bits). At the tape speed of 2 m/sec, the recording density is 3.75 pulses/mm of tape length. The reading time of one zone is 0.6 sec; starting and stopping time is 5 msec. The MTMU contains a control unit and a tape-driver unit. The MTMU can operate in the following regimes: (a) MT marking, (b) zone search, (c) information recording in one zone

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(512 numbers), (d) playback of one recorded zone, (e) erasing of the information of one zone, (f) bulk erasing of information. Marking of the MT comprises the recording of service information for 400 zones, that is, 4608 markers for each zone, in one service track and the address markings in the other service track. A schematic drawing of the placement of the information and service markings on the MT is shown. A block scheme of the MT control unit is provided, also a schematic diagram of the MT-marking network. A full-page schematic network diagram of the zonal-search network is shown. A schematic network diagram of the recording network is shown, together with a detailed explanation, both for the recording and the playback mode. The operation of the erase mode is described. The control board, with its controlling and monitoring functions, is described. 3 control programs, designed for the daily check of the operation of the machine and the MTs, are described. Program no. 1 verifies the operation of the tape deck, tape-drive control, and the connection between the machine and the control block; this program consists of a multiply-repeated command cycle: "Search, erase, search, leadout, search, leadin, ... etc.". Program no. 2 provides a verification of the operation of the recording and readout control block. Program no. 3 is intended essentially for the verification of the quality of the magnetic tape. Program no. 2 was used to verify the storage time of recorded "1's" on the MT (Type 4) with continual return to the same zone. It was found that under such conditions up to 250 correct readouts were feasible, after which first isolated and then multiple skips (to "0") on all tracks occur.

 There are 5 figures.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

S/799/62/000/002/008/011

AUTHOR: Knyazev, V. D.

TITLE: Some problems of the dependability of magnetic-tape memory equipment.

SOURCE: Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin. Tsifrovaya tekhnika i vychislitel'nyye ustroystva. no. 2. 1962, 110-124.

TEXT: Magnetic-tape (MT) memory equipments (ME) permit a concentration of the greatest amount of information per unit volume (up to 10^5 binary bits per dm^3) and convey the information between the MT ME and computer in the shortest possible time (in some equipments, $5 \cdot 10^5$ binary bits/sec). However, MT ME exhibit a relatively low dependability, since the recording and playback of information is accompanied by fairly significant noise. The characteristics of the noise arising during the passage of information through the MT ME is analyzed in detail. In addition to spurious signals picked up by the playback head from the tape, a number of causes of noises within the playback circuit itself exist: (a) pickup from external fields at the amplifier input and the magnetic head, (b) power-supply pickup, (c) interstrack cross-over pickup, (d) changes in the parameters of the electronic equipment, (e) power-supply voltage fluctuations. It is reasoned that the magnitudes of the amplitudes of the reproduced signals or the spurious signals obey a Gauss distribution.

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Some problems of the dependability ... S/799/62/000/002/008/011

An equipment was constructed and is described here for the purpose of determining the probability characteristics and the distribution curves of the amplitudes of the signals. A block scheme and a circuit diagram are shown. A method for the inspection and correction of the information reproduced is adduced. The statistical method obtained by the verification equipment permits one to obtain an objective evaluation of the dependability of a given tape deck under investigation and to select optimal operational values (limiting level, maximum number of runs of the MT, etc.). The relatively low dependability of a MT ME requires the introduction of corrections to the information. The method of matrix correction of the information, applied to each number, appears most economical as to equipment, supernumerary information, and continuous information processing. This method, described in the paper, permits one to correct individual errors in a number and to control all binary and the overwhelming mass of multiple errors. The methods required to protect service information (marker, addresses, etc.) are shown to be simple and economical. There are 10 figures and 4 references (1 Russian-language Soviet, 1 Swedish, and 2 English-language).

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.

25(1) PHASE I BOOK EXPLOITATION SOV/1771

Fominykh, I.P., Yu. Yu. Zelikman, and V. Knyazev

Novoyev v liteynom proizvodstve; iz opyta liteynykh tsekhov predpriyatiy Tuly i oblasti (New Developments in Founding; Foundry practices in Tula and Tula Province) [Tula] Tul'skoye knizhnoye izd-vo, 1956. 78 p. 3,000 copies printed.

Ed. (Title page): I.P. Fominykh, Candidate of Technical Sciences; Ed. (Inside book): M.N. Tylkin; Tech. Ed.: L.I. Pulin.

PURPOSE: This book is written in simplified technical language by specialists in the field of casting for foundry workers and for the general public.

COVERAGE: This book contains articles describing recent developments and innovations in foundry practice. The articles deal with a method of steel casting which produces easily removed dead heads, chill casting of mining machine parts, chill casting of bronze, and the utilization or resins for mold mixtures. No personalities are mentioned. References are given at the end of each article

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3
1 KML

Determination of the Retention Time of Materials in a [illegible]

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.F.

AUTHOR: Knyazev, V.F. 130-10-15/18

TITLE: Direct Production of Iron from Ores. (Pryamoye polucheniye zheleza iz rud)

PERIODICAL: Metallurg, 1957, No.10, pp. 32 - 35 (USSR)

ABSTRACT: After a brief review of the development of iron-making techniques the requirements of direct ore-to-iron processes are stated and practical difficulties are considered. This is followed by discussions of various successful sponge-iron processes: Hogonas, Wiberg and Krupp-Renn, diagrammatic layouts of the plant and illustrations of some of the products being given. Finally, the possibility of the direct use of ores in the finely-divided state (fluidized-bed or sweep methods) is discussed, the conclusion being that although much work is proceeding on this in many countries the various processes are still in the experimental stage.

ASSOCIATION: TsNIIChM

AVAILABLE: Library of Congress.

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

AUTHOR: Knyazev, V. F. SOV/32-24-10-53/70

TITLE: The Use of Microfurnaces for Studying the Phenomena of Wetability (Primeneniye mikropechi dlya izucheniya yavleniy smachivayemosti)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1283-1284 (USSR)

ABSTRACT: To determine the regional angles of wetting solid iron molten with ammonium chloride slags according to the method of the stationary drop (Ref 1) the so-called microfurnace was used in the present case (Ref 2). The construction of this furnace was modified a little. A schematic representation as well as a description are given. The observation of the slag drop is carried out through an observation window of the furnace using a microscope of the type [illegible] -1. In the method employed a piece of slag is put into the heating element which is connected to the thermocouple. The furnace is closed, evacuated, and filled with argon. The experiment is carried out with a weak argon current. The moment of melting of the piece of slag as well as the formation of a droplet are determined by means of a stop watch. By turning the ocular lens (with graduations) the height and width of the drop are measured. It was found that an ad-

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SOV/32-24-10-53/70

The Use of Microfurnaces for Studying the Phenomena of Wetability

dition of 6,35% iron oxide changes the wetting little; however, on an addition of 10,4% the wetting changes considerably. There are 1 figure and 2 references, 1 of which is Soviet.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy)

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V. F., Cand of Tech Sci -- (diss) "Study of the Conditions of Bar [pig] Formation in a Rotary Furnace," Moscow, 1959, 14 pp (Central Scientific Research Institute of Ferrous Metallurgy) (KL 4-60, 119)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

15(2)

AUTHORS: Lur'ye I. L., Knyazev, V. F., Makurov, A. V.

SOV/131-59-4-7/16

TITLE: The Operation of the Lining of a Rotary Refining Furnace (Sluzhba futerovki vrashchayushcheysya krichnoy pechi)

PERIODICAL: Ogneupory, 1959, Nr 4, pp 168-171 (USSR)

ABSTRACT: In the experimental industrial department of the Orsko-Khalilovskiy metallurgical Kombinat (OKhMK) a rotary refining furnace has operated since 1955 by means of which the technology of the refining process of chromium-nickel-iron ores of the Khalilovskiy rayon is being investigated. Also practical data on the working of the fire-proof lining are available. The operational conditions of the lining of a rotary refining furnace: The furnace is continuously charged with a mixture of brown iron ore and fine coke. The furnace is divided into three zones: The preparation zone up to 700°, the regeneration zone from 700 up to 1100° and the refining zone from 1100 up to 1300-1350°, which has most difficult operational conditions. Further the equipment of the furnace lining is described: The preparation and regeneration zone is lined with bricks with a high content of fire-clay of the Semiluki

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plant (GOST 1598-53) and the refining zone with highly aluminous bricks of the Podol'sk works (ChMTU 3207-52). The lining is performed according to figure 1. The furnace operates in campaigns of various duration. The causes of the interruptions are given in the table. Also the repair work is listed and the lining of the refining zone was carried out according to figure 2. Conclusions: The most considerable wear and tear of the lining of the rotation furnace OKhMK was observed in the beginning of the refining zone which is due to the influence of slags with an increased content of iron oxides. Highly aluminous bricks with an Al_2O_3-content of more than 75%, which were recommended by the UNIIO and produced by the Podol'sk works of refractories, exhibit a good stability. Large lumps which are formed on the melting of the scums exert a detrimental influence upon the working of the lining in the regeneration zone. There are 2 figures, 1 table, and 4 references, 3 of which are Soviet.

ASSOCIATION: TsNIIChERMET

Card 2/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

The Operation of the Lining of a Rotary Refining Furnace

SOV/131-59-4-7/16

Orsko-Khalilovskiy metallurgicheskiy kombinat (Orsko-Khalilovskiy Metallurgical Kombinat)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

S/130/61/000/009/001/005
A006/A101

AUTHOR: Knyazev, V. F., Head of the Laboratory for Direct Iron Production

TITLE: The Conference on direct iron production from ores

PERIODICAL: Metallurg, no. 9, 1961, 9

TEXT: A scientific-coordinational Conference on direct production of iron and steel from ores was convened from May 16-19, 1961 at the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I. P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy - TsNIIChM - imeni I. P. Bardin). The Conference heard reports by 29 members, and 38 persons participated in a discussion. The production of sponge iron for iron powder production, and in rotating drum furnaces, and the refinery-ore process were the subjects of reports delivered by representatives from TsNIIChM, the Orsk-Khalilovo Metallurgical Combine, Giprostal', Gipronikel, the Institute of Cermets and Special Alloys, AS UkrSSR. Reports on new research and planning operations were delivered by scientific workers of the Institute of Gas Utilization, AS UkrSSR, Ukrgipromez, VNIIMT, (Sverdlovsk), Gintsvetmet, Mekhanobrchermet, the "Sibelektrostal" Plant and other organizations. It was stated that research should be concentrated

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

The Conference on direct iron production from ores S/130/61/000/009/001/005
A006/A101

on new highly efficient and economical processes using the latest scientific and and technical achievements. It was recommended to organize a department for the direct production of iron at TsNIIChM.

ASSOCIATION: TsNIIChM

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

S/180/62/000/005/001/011
E075/E435

AUTHORS: Nasonov, P.Ya., Vasil'yev, Ye.N., Lur'ye, I.L., Knyazev, V.F. (Moscow)

TITLE: The reduction of iron oxides with hydrogen in a fluidized bed at an elevated pressure

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo, no.5, 1962, 29-36

TEXT: The reduction of mill scale and a Krivoy Rog ore fines with hydrogen in a fluidized bed at elevated pressures and low temperatures was investigated in order to elucidate the influence of pressure, the rate of feeding reducing gas, particle size of the starting material and temperature on the reduction process. The experiments were carried out in a laboratory apparatus made from stainless steel with a fluidized bed reactor, operating intermittently with 300 g samples. Experimental conditions: temperature from 490 to 650°C; pressure from 3 to 30 atm gauge; two rates of feeding hydrogen - 2.5 and 4.5 litre/sec. The process of reduction was controlled by measuring the decrease in

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the amount of hydrogen in the gas holder. In the lower pressure range (up to about 9 atm) an increase in pressure was found to lead to an intensification of the process, even without an increase in the rate of supply of hydrogen to the reactor. An increase in pressure from 3 to 4 atm had a considerably higher effect than an increase from 4 to 5 or from 5 to 6 atm (the corresponding increases in the consumption of hydrogen read from the graph were about 36, 14 and 13% respectively). In the higher pressure range the increase in the rate of reduction is due to an increase in the supply of hydrogen to the reactor which can be made without increasing dust losses. Optimal reduction temperatures at a pressure of the gaseous phase of 30 atm and a hydrogen feed rate of 0.3 litre/sec per 1 cm^2 of the free cross-sectional area of the reactor are: to obtain 70 to 75% reduction - 500 to 520°C; to complete the reduction process - 550 to 560°C. Under the above temperature conditions neither sintering of ore particles nor sticking of particles to the walls of the reactor was observed. For reducing scale the maximum temperature of the process can be raised to 650°C. Within the range of 0.3 to

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The reduction of iron ... S/180/62/000/005/001/011
E075/E435

0.10 mm the particle size of the scale has no influence on the reduction process. The iron powder produced is pyrophoric. The minimum annealing temperature of the iron powder necessary to remove its pyrophoricity without soaking and with a 30 minute soaking was found to be 780 and 750°C respectively. There are 4 figures.

SUBMITTED: March 15, 1962

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.F.; KRASHENINNIKOV, Ye.A.; KURNISHKO, O.V.; KONONOV, M.I.; KOZ'YAKOV, V.S.

Automatic unit for studying variations in the weight of specimens. Zav. lab. 30 no.9:1150 '64. (MIRA 18:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni Bardina.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

MAZHENOV, M.A.; RYZHONKOV, D.I.; KNYAZEV, V.P.; FILIPPOV, S.I.

Kinetic characteristics of the reduction of iron ore pellets by hydrogen and methane. Izv. vys. uchzb. zav.; chern. met. 8 no.7:11-15 '65. (MIRA 18:7)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.G.; TARABAYEV, L.M.

Two-spindle milling-machine attachment. Mashinostroitel' no.12:18 D '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KLIMOV, I.Ya.; KNYAZEV, Y.K.; ALEKSAKHIN, N.P.

Research work on chemically stable paint materials for use in the atomic power industry; literary review. Lakokras. mat. i ikh prim. no.3:46-49 '63. (MIRA 16:9)
(Atomic power industry—Equipment and supplies)
(Protective coatings)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

AKHMETOV, M.M., kand. tekhn. nauk; ANOSHKIN, V.V., gornyy inzh.; DROZDOVSKIY, N.N., gornyy inzh.; SHAMSUTDINOV, R.N., gornyy inzh.; RUDAKOV, N.F., gornyy tekhnik; KNYAZEV, V.L., tekhnik

Results of testing electric detonators with a delay interval of 15 msec. Gor. zhur. no.5:38-39 My '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy gornometallurgicheskiy institut tsvetnykh metallov (for all except Knyazev). 2. Leninogorskiy polimetallicheskiy kombinat (for Knyazev).

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

AKHMETOV, M.M.; ANOSHKIN, V.V.; DROZDOVSKIY, N.I.; VALEOZHANIN, V.V.; FILIPPOV, N.I.; KNYAZEV, V.L.; SMIRNOVA, A.M.

Short-delay blasting in mines of the Leninogorsk Complex Ore Combine. Trudy Alt. GMNII AN Kazakh. SSR 15:43-47 '63. (MIRA 17:3)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

AKHMETOV, M.M.; ANOSHKIN, V.V.; DROZDOVSKIY, N.N.; KNYAZEV, V.L.; GAZIZOV, Kh.Kh.

Effect of current strength on the internal time drift from wear of electric short-delay detonators. Trudy Inst.gor.dela AN Kazakh.SSR 8:102-106 '61. (MIRA 15:4)
(Detonators)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

ACCESSION NR: AP4033106 S/0120/64/000/002/0050/0057

AUTHOR: Akopyan, G. S.; Dayon, M. I.; Knyazev, V. M.; Solodnikov, I. N.

TITLE: Investigation of spark chambers with a large memory

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 50-57

TOPIC TAGS: spark chamber, spark chamber telescope, Nor-Amberd telescope, air spark chamber, air argon alcohol spark chamber

ABSTRACT: A three-flat-chamber telescope installed in Nor-Amberd (Armenia) at 2,000 m altitude is described. To reduce the error in determining trajectory, one electrode in each chamber is subdivided into 5 separate glass plates covered with SnO_2 and electrically independent. Deviations of the spark from the particle path are evaluated; h-v pulse delays of 2 and 30 microsec and clearing fields of 100 v/cm are considered. The effect of over-voltages on the accuracy of path localization was experimentally studied. These conclusions are offered: (1) In the chambers filled with the air-argon-alcohol-vapor mixture, the mean-square deviation of the spark from the particle path is about 0.2 mm; it does not vary with the h-v pulse delay up to at least 30 microsec; (2) The open-air chambers have a lower accuracy of path localization; this accuracy essentially improves

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ACCESSION NR: AP4033106

with a higher efficiency; the mean-square deviation may be as high as 0.6 mm; (3) In the large-memory chambers, most spark deviations have a low value; still, a large number of sparks occur outside the trajectory; several rows of chambers should be used to exclude the latter case. "The authors are deeply grateful to A. I. Alikhanyan for his interest and help in carrying out this project; to M. M. Veremeyev for designing and building the mechanical part of the outfit; to V. Kh. Voly*nskiy and L. F. Klimanova for their participation in the initial phase of the project; to V. N. Bolotov, M. I. Devishev, and A. P. Shmeleva for their part in data processing and discussions; to G. A. Marikyan, K. Matevosyan, R. Yerendzhakyan, V. A. Mishchenkov, and also to the service personnel of the station for their great assistance in carrying out the project." Orig. art. has: 7 figures, 4 formulas, and 1 table.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Institute of Physics, AN SSSR); Fizicheskiy institut GKAE SSSR (Institute of Physics, GKAE SSSR)

SUBMITTED: 29Mar63 DATE ACQ: 11May64 ENCL: 00

SUB CODE: NS, PH NO REF SOV: 003 OTHER: 002

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ACCESSION NR: AP5007024

7

of High Energy Physics, Berkeley, Calif., 1960) and by others (Proc. Symposium

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[illegible] Berkeley, Calif., 1960) and by others (Proc. Symposium on Nucl. Instr., Harwell, Sept. 1961) in argon-, helium-, and helium-neon-filled chambers can be largely explained by undetected impurities in the inert [illegible] The authors wish to thank A. I. Alikhanyan for his attention to the work. [illegible] great help in [illegible] Stadnikov [illegible]

[illegible] 12 formulas, and 4 tables

[illegible] Fizicheskiy institut AN SSSR (Institute of Physics, AN SSSR)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

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ACC NR: AP6013491

ned by the oxygen content, that is the memory and precision remain essentially the same at a given oxygen content in the working mixture. A theory of chamber effectiveness in the registration of single particles, with particular regard to the influence of high voltage impulse delay was developed & discussed in conjunction with experimental results. It is concluded that the negative ions which initiate the spark discharge are located in a small region adjacent to the negative electrode. Effectiveness in the spark registration of multiple particle trajectories decreased with the increase of delay time. The introduction of dielectric layers markedly increased the efectiveness of the chamber in shower registration. The authors thank A.I. Alikhanyan for his attention to this work and S.S. Kulikova and V.A. Mishchenkov for a substantial assistance in this effort. Orig. art. has: 5 figures, 3 formulas and 1 table.

SUB CODE: 17,18 / SUBM DATE: 25Feb65 / ORIG REF: 004 / OTH REF: 002

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

AKOPYAN, G.S.; BOLOTOV, V.N.; DAYON, M.I.; DEVISHEV, M.I.; KNYAZEV, V.M.; MARIKYAN, G.A.; MATEVOSYAN, K.A.; SHMELEVA, A.P.

Ionizing particles accompanying nucleons with energies of $E_0 \approx 170$ Bev. at an altitude of 2000 meters. Izv. AN SSSR. Ser.fiz. 29 no.10:1953-1955 O '65. (MIRA 18:10)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNYAZEV, V.N.

KNYAZEV, V.N.

Osnovnye voprosy kislorodnogo obespecheniia vysotnykh poletov. Moskva, Voen, izd-vo, 1947. 182 p., diagrs.

Title tr.: Basic problems of oxygen supply in altitude flights.

TL697.O8K55

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330008-5

KNIAZEV, V.N. and K.E. POLISHCHUK

Oborudovanie samoletov. Dopushcheno v kachestve uchebnogo posobiia dlia aviatsionnykh vuzov. Moskva, Oborongiz, 1952. 463 p., illus., diagrs.

Bibliography: 19 items

Title tr.: Aircraft equipment. Approved as a textbook for schools of advanced aeronautical studies.

TL697.A1K5

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

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34279
S/535/61/000/143/005/006
D033/D112

26.2142
17.1100

AUTHOR: Knyazev, V. N.

TITLE: The energy output and the strength of high-pressure gas bottles

SOURCE: Moscow. Aviatsionnyy institut. Trudy, no. 143, 1961. Issledovaniye nekotorykh elementov gidropnevmaticheskogo oborudovaniya samoletov, pp 99-130.

TEXT: The author investigates the energy output and the strength of high-pressure air- or gas-bottles used in modern aviation. He discusses the energy output of compressed air, i.e. its maximum weight energy output, and its weight energy output at a constant operating pressure, and the energy output of compressed-air bottles when the weight of the bottles is taken into account. In this connection, he examines the volume and weight of a bottle, the volumetric energy output of gas bottles, the effect of thickening the bottom of cylindrical bottles with spherical bottoms, and cylindical bottles with ellipsoid bottoms. The energy output of simple high-pressure gas bottles can be raised by the use of high-strength

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D033/D112

The energy output ...

of spherical bottom surfaces by ellipsoid surfaces leads to an increase in the wall thickness of these surfaces; (6) The relative weight of annular bottles is only 10 to 12% greater than that of long cylindrical bottles; (7) When deciding which type of energy storage device to use in an aircraft, it is necessary to take into account, besides the energy output of the storage devices, the weight, volumetric and energy characteristics of the single units transforming and utilizing the energy discharged by the storage devices. There are 14 figures, 5 tables and 2 Soviet-bloc references.

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Energy efficiency and strength of high-pressure gas containers. (MIRA 15:6)
Trudy MAI no.143:99-130 '61.
(Gases, Compressed--Equipment and supplies)

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Radiometric methods in prospecting for rare metal carbonatite deposits in Siberia. Sbor. st. MOION no.1:65-77 '62. (MIRA 16:3)
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(Radioactive prospecting)

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KUZNETSOV, V.G.; DANCHEV, V.I.; KNYAZEV, V.S.

Some problems of the petrography of the old weathered surface of the Zirabulak-Ziaetdinskiye Mountains (western Uzbekistan). Trudy MINKHiGP no.25:314-317 '59. (MIRA 15:5)
(Uzbekistan--Weathering)

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KNYAZEV, V.S.; CHARYGIN, A.M.; SHNIP, O.A.

Igneous rocks in the closed part of the fold basement in western Usbekistan. Trudy MINKHiGP no.38:69-90 '62. (MIRA 15:9)
(Usbekistan—Rock, Igneous)

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KNYAZEV, V.S.; SHNIP, O.A.

Petrographic composition of basement rocks in Turkmenia. Trudy MINKHiGP no.38:91-109 '62. (MIRA 15:9)
(Turkmenistan—Petrology)

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Lithology of Permotriassic sediments in the Kyzan area of the Busachi Peninsula. Trudy MINKHiGP no.38:110-121 '62. (MIRA 15:9)

(Kyzan region—Rocks, Sedimentary)

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KNYAZEV. V. S. 188T48

USSR/Geophysics - Quartz, Clastic Jul/Aug 51

"Experiences Gained in the Study of Clastic Quartz," G. G. Lemmleyn, V. S. Knyazev

"Iz Ak Nauk SSSR, Ser Geol" No 4, pp 99-101

Describes the procedures and methodology followed in investigating clastic quartz and gives the brief characteristics of various types of quartz: nontransparent, semitransparent, fractile (fissured), without inclusions, opalescing, with acicular inclusions, with lamellar-foliate (flaky) inclusions, and regenerated. Microphotographs of various types.

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