L 62214-65 EWT(l)/EWP(m)/EPA(s)-2/EWT(m)/EPA(sp)-2/EPF(n)-2/EWG(v)/EPR/EPA(w)-2/
T-2/EWP(t)/EWP(b)/EWA(m)-2 Pd-1/Pe-5/Ps-4/Pt-7/Peb/Pi-1/Pu-4 DIAAP/IJP(c) JD/MJ/JG

ACCESSION NR: AP5014183 UR/0382/65/000/001/0110/0114

538.4 : 621.313.333

AUTHOR: Avilova, Ye. N.; Doktorova, T. V.; Marin, N. I.; Povsten', V. A.; Turchin, N. M.

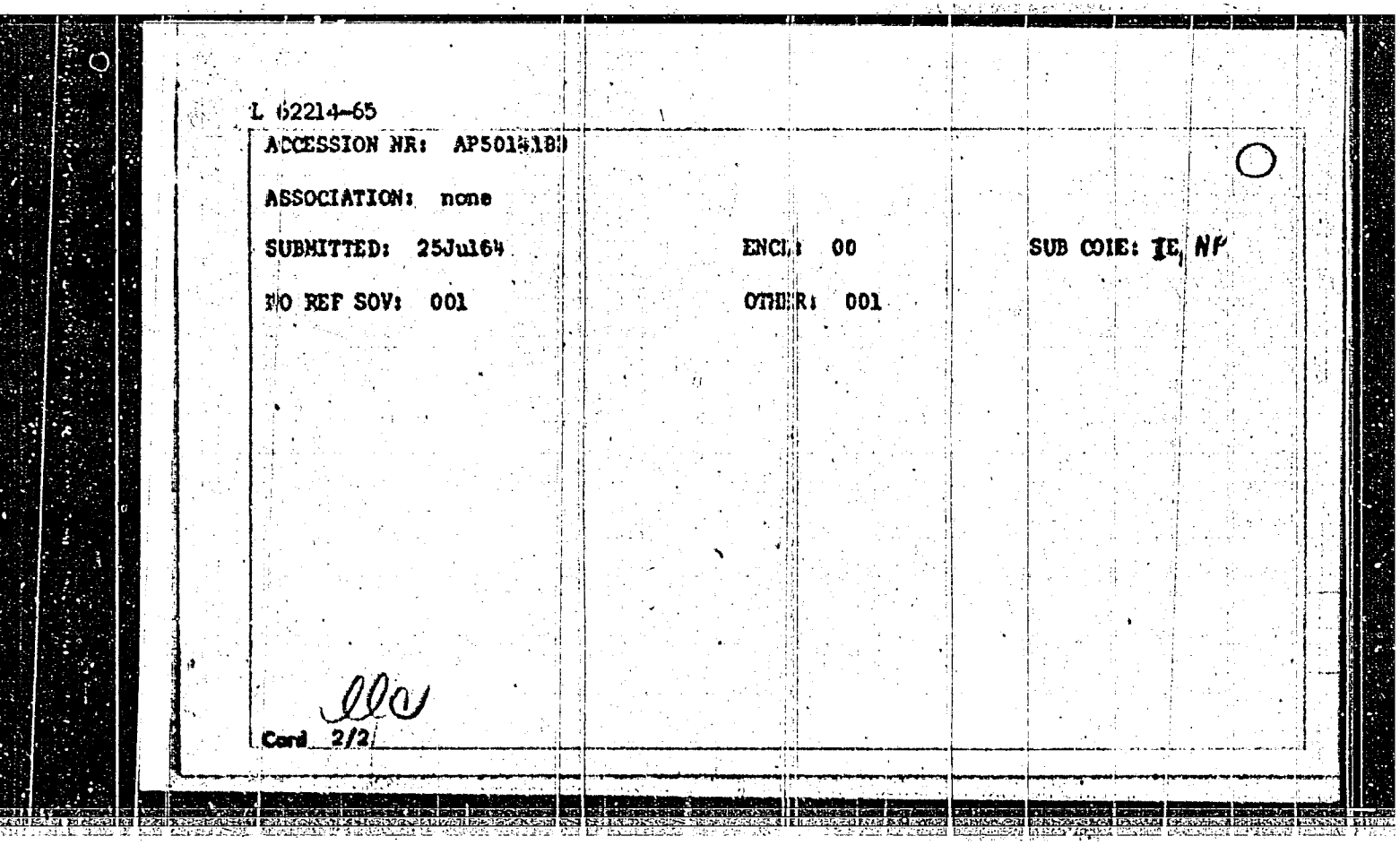
TITLE: Development and exploitation of helical induction pumps

SOURCE: Magnitnaya gidrodinamika, no. 1, 1965, 110-114

TOPIC TAGS: liquid metal pump, magnetohydrodynamics, radioactive material

ABSTRACT: The development and operation of helical induction pumps with large pumping rates (from 0.4 to 150 m^3/hr) is reported. The sustained operation of the Na-K pumps (also operating with Na only) in the 550°K to 680°K temperature regime was tested for 20,000 hours. Advantages and disadvantages of helical pumps are discussed. Specific units, ENIV-6 and ENIV-3 are described in detail and ENIV-3 performance is presented graphically. The largest unit ENIV-6 has a diameter of 53.7 cm and its length is 131 cm. These devices are also capable of pumping radioactive metals. Orig. art. has: 4 figures, 1 table.

Card 1/2



L 62214-65

ACCESSION NR: AP5014180

ASSOCIATION: none

SUBMITTED: 25Jul64 ENCL: 00 SUB CODE: IE, NP

NO REF SOV: 001 OTHER: 001

Card 2/2

[redacted], [redacted], [redacted] Sidorov, V. I.

"Experience of hygienic evaluation of prophylactic nutrition of workers in the chemical industry."

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

AVILOVA, Ye.M., DOKTOROVA, T.V.; MARIN, N.I.; FOMIN, V.A.; TURCHIN, N.M.

Design and operation of helical induction pumps. Mag. gidr. no.1:113-114 '65. (MIRA 18:5)

L 39719-65 EPF(c)/EPF(n)-2/EPR/EPA(s)-2/EWT(m)/EPA(bb)-2/EWG(m)/EWP(b)/EWP(t)
Pr-4/Ps-4/Pt-10/Pu-4 IJP(c) DM/WW/JD/JG

ACCESSION NR: AP5009113 S/0089/65/018/003/0239/0242

AUTHOR: Marin, N. I.; Povsten', V. A.; Doktorova, T. V.; Avilova, Ye. M.

TITLE: Electromagnetic pumps for alkali metals

SOURCE: Atomnaya energiya, v. 18, no. 3, 1965, 239-242

TOPIC TAGS: electromagnetic pump, alkali metal, heat transfer agent, alkali metal alloy, liquid metal

ABSTRACT: Design characteristics, operating principles, and test data are presented for a series of small-size laboratory screw-type electromagnetic vertical pumps operating from a 3-phase a-c power source and intended for pumping liquid metals and alloys (K, NaK) which are used as heat transfer agents. Parameters of the following pumps of the same design but different size are given: ENIV-1, -2, -3, -4, -5, and -6, having capacities of 0.4, 2, 10, 50, 85, and 150 m^3/hr; pressures of 4.7, 2.5, 6, 4, 4.5, and 6 X 10^{-5} n/m^2; and working temperatures of 725, 875, 675, 675, 675, and 775K, respectively. The first 5 pumps of this series are already in operation.

Card 1/2

L 39719-65

ACCESSION NR: AP5009113

The ENIV-3 has operated for 20,000 hr at an NaK alloy temperature of 530K. The ENIV-1 has operated for 500 hr at 525—575K (liquid K), 10 hr at 815K, and 1 hr at 900K. Work is under way on improvements of the construction characteristics of the pump to raise the operating temperature to 825—875K and higher. Orig. art. has: 1 table and 4 figures. [PS]

ASSOCIATION: none

SUBMITTED: 06Mar64 ENCL: 00 SUB CODE: IC, EE

NO REF SOV: 000 OTHER: 000 ATD PRESS: 3229

Cord 2/2

AVILOVA, Ye.M.; DOKTOROVA, T.V.; LUTIKOV, V.K.; MARIN, N.I.; POVSTEN', V.A.; TURCHIN, N.M.

Construction features and test results of conduction pumps. Mag. gidr. no.3:121-126 '65. (MIRA 18:10)

AVIN, G.Sh., mayor meditsinskoy sluzhby; POGONOV, Yu.P., podpolkovnik meditsinskoy sluzhby

Use of vitamin A for increasing night vision in military personnel. Voen.-med.zhur. no.9:75-76 S '61. (MIRA 15:10)
(VITAMINS--A) (NIGHT VISION) (MEDICINE, MILITARY)

YELISTRATOV, A.M.; AVINCHUK, R.A.

Calculation of transformations of a crystalline polyhedron.
Kristallografiia 7 no.2:199-207 Mr-Ap '62. (MIRA 15:4)

1. Institut poluprovodnikov AN SSSR.
(Crystallography, Mathematical)

AVINEZER, Z.Ya., inzh.

Assembly operations in the construction of compressor stations in Belgorod and Kursk. Stroi. truboprov. 6 no.9:12-13 S '61.
(MIRA 14:9)

1. Stroitel'nyy uchastok No.14 Svarochno-montazhnogo tresta, g. Lyubertsy.
(Compressors) (Pipelines--Equipment and supplies)

AVINEZER, Z.Ya., inzh.

Raising and assembling heavy equipment with A-shaped booms. Stroi. truboprov. 7 no.1:15 Ja '62. (MIRA 16:7)

1. Stroitel'nyy uchastok No.14 Svarochno-montazhnogo tresta, g. Lyubertsy.

(Hoisting machinery)

AVINEZER, Z.Ya.

Assembly of technical piping at compressor stations. Stroi. truboprov. 8 no.5:27-29 My '63. (MIRA 16:5)

1. Stroitel'noye upravleniye No.14 Svarochno-montazhnogo tresta, Lyubertsy.

(Pipelines--Buildings and structures)

AVINGO, E.

"Let us build collective farm buildings also in the winter period."

p. 556 (Sotsialistlik Pollumajandus) Vol. 12, no. 12, Dec. 1957
Tallinn, Estonia

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

A/INGO, E.

Closer tasks of building dwellings on collective farms. p. 42.

SOTSILISTLIK POLLUMAJANDUS. POLLUMAJANDUS MINISTEERIUM.
Tallin, Hungary. No. 1, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11
November 1959.

Uncl.

AVINGO, E.

Marking the buildin sites. p.474

SOTSIALISTLIK POLLUMAJANDUS. Tallin, Estonia. Vol. 14, No. 10, May 1959

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

AVINGO, E.

Housing construction on collective farms. p. 283.

SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse Ministeerium)
Tallinn, Estonia. Vol. 13, no. 6, June 1958.

Monthly list of East European Accessions (EEAI) Vol. 9, no. 1, Jan. 1960.

Uncl.

AVINGO, T.

AGRICULTURE

PERIODICAL: SOTSIALISTLIK POLLUMAJANDUS Vol. 14, no. 2, Jan. 1959

AVINGO, T. Making and the use of hotbeds. p. 68.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5. May 1959, Unclass.

AVINOV, P.

Regulating loads according to the designations and types of rolling stock. Zhel.dor.transp. 36 no.6:78 Je '55.
(MIRA 12:4)

1. Nachal'nik otdeleniya Sverdlovskoy dorogi, stantsiya Chusovskaya.

(Railroads--Freight)

BOLOTIN, V.V., doktor tekhn.nauk, prof.; AVINOVITSKIY, I.A., inzh.; BLAGONADEZHIN, V.L., inzh.; KHROMCHENKO, G.Ye.

Choice of the tower span distances in stringing aluminum sheathed power cables. Elektrichestvo no.5:9-12 My '61. (MIRA 14:9)

(Electric lines—Overhead)

AVINOVITSKIY, Inar Yakovlevich; SOLOV'YEV, P.F., red.; BORUNOV, N.I., tekhn.red.

[Terminations of power cables] Okontsevanie silovykh kabelei. Moskva, Gos.energ.izd-vo, 1960. 39 p. (Biblioteka elektromontera, no.21). (MIRA 13:11)

(Electric cables)

AVINOVITSKIY, Inar Yakovlevich; FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn. red.

[Connection of cables] Soedinenie kabelei. Moskva, Gos. energ. izd-vo, 1960. 44 p. (Biblioteka elektromontera, no.40) (MIRA 14:7)

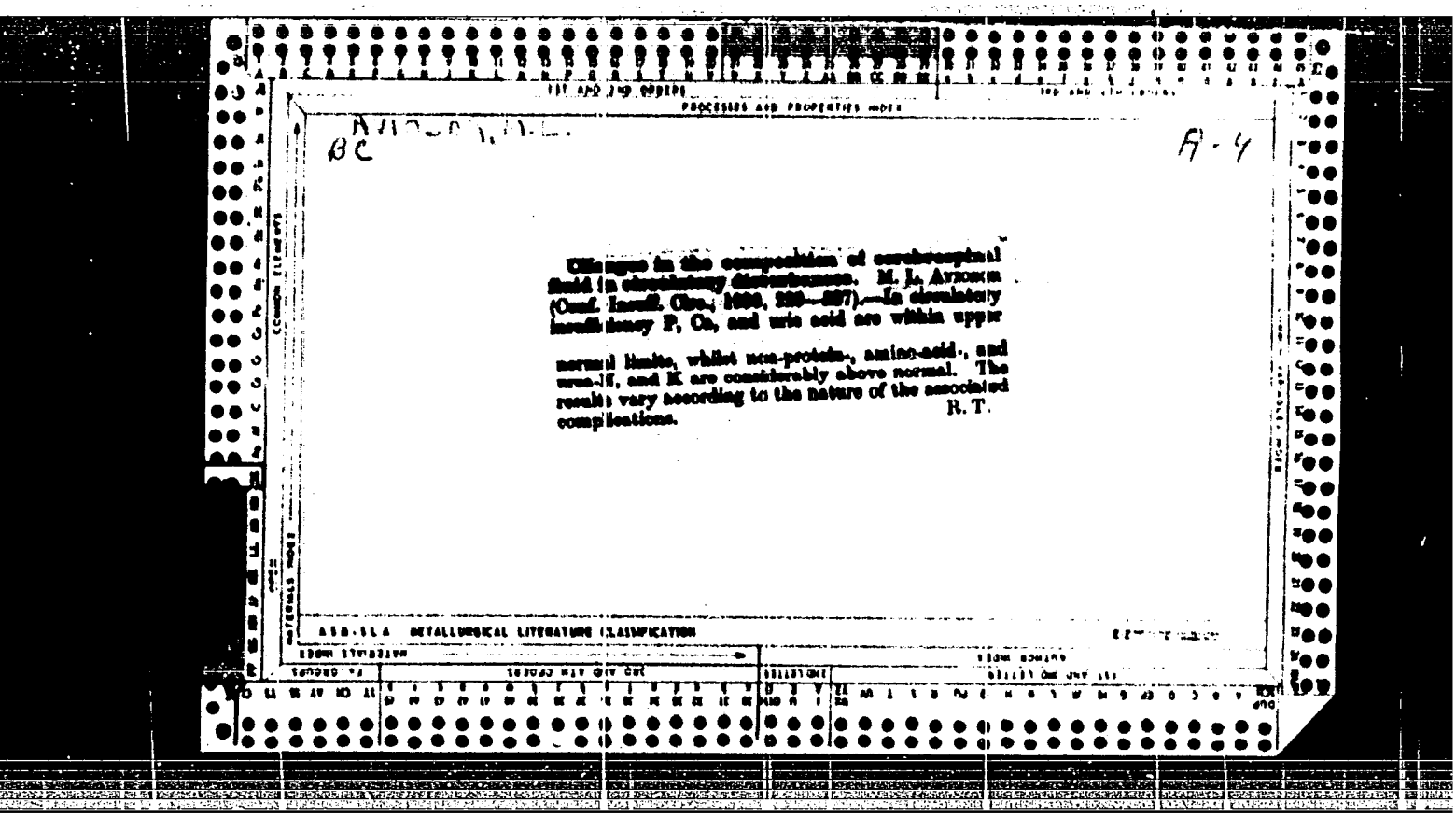
(Electric cables)

AVINOVITSKIY, I.Ya.; ALEKSEYEV, S.V.; BARANOV, B.M.; GEL'MAN, R.Ye.; DVOSKIN, L.I.; DOLGINOV, A.I.; YERMILOV, A.A.; ZALESSKIY, Yu.Ye.; KAMENEVA, V.V.; KLIMIKSEYEV, V.M.; KNYAZEVSKIY, B.A.; KUZNETSOV, P.V.; RIVKIN, G.A.; FEDOROV, A.A.; SERBINOVSKIY, G.V., red.; BOL'SHAM, Ya.M., red.; BRANDENBURGSKAYA, E.Ya., red.; VORONIN, K.P., tekhn. red.

[Manual for power engineers of industrial enterprises in four volumes] Spravochnik energetika promyshlennykh predpriiatii v chetyrekh tomakh. Moskva, Gosenergoizdat. Vol.1. [Electric power supply] Elektrosnabzhenie. Pod obshchei red. A.A.Fedorova, G.V. Serbinovskogo i IA.M.Bol'shama. 1961. 840 p. (MIRA 15:6)
(Electric engineering)

GOL'DGOF, Boris Grigor'yevich; LEYBZON, Yakov Izrailevich; SOSKIN, Emil' Artur'ovich; MILLER, G.R., kand. tekhn. nauk, retsenzent; SHELKOVNIKOV, N.I., inzh., retsenzent; AVINOVITSKIY, I.Ya., red.

[Automatic and remote control of the power supply networks of industrial enterprises] Avtomatizatsiia i telemekhanizatsiia energosnabzheniia promyshlennykh predpriiatii. Moskva, Izd-vo "Energiia," 1964. 279 p. (MIRA 17:5)



BC

A-4

Changes in the composition of cerebrospinal fluid in circulatory disturbances. M. J. Avnon (Quart. Journ. Clin., 1926, 320—327).—In circulatory insufficiency P, Ca, and uric acid are within upper normal limits, whilst non-protein-, amino-acid-, and urea-N, and K are considerably above normal. The results vary according to the nature of the associated complications.

R. T.

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

AVERON, M. L.
BC

A-4

Urea content of cerebrospinal fluid (C.S.F.) in various degrees of circulatory insufficiency. M. L. Avenson (J. Med. Ukrain, 193[illegible], [illegible], 115[illegible]—1160).—The urea content of C.S.F. is generally less than that of blood or ascitic fluid; exceptionally, in certain cases of circulatory insufficiency, it may exceed the blood val. In most cases blood- and C.S.F.-urea run parallel. C.S.F.-urea continues to rise after death from heart failure. The urea/non-protein-N quotient of C.S.F. falls in the early stages of cardiac insufficiency, rising again in the terminal stages. The highest vals. for C.S.F.-urea were found in heart disease complicated by impairment of renal function. High C.S.F.-urea was found in endocarditis, and is ascribed to breakdown of C.S.F.-albumin. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

Ca

11 G

The sodium chloride content of the cerebrospinal fluid at different stages of insufficient blood circulation. M. L. Avionc. *J. méd. Ukraine* 10, 1329-39 (Russian and German summaries) (1940); cf. *C. A.* 33, 6431[8], 8705[2]. —In circulatory disturbances the Cl concn. in the cerebrospinal fluid increases. This increase in Cl is greater the more pronounced the circulatory disturbance. The only exception was the 3rd (irreversible) stage, in which the NaCl content was relatively diminished compared with the preceding stage. An attempt is made to explain the above increase in NaCl by a retention of Cl in the organism. Since such a retention has been demonstrated for tissue and edema fluids, with which the cerebrospinal fluid possesses analogous properties, it can also be assumed for the latter. Moreover, in the increase of the NaCl content of the cerebrospinal fluid, the venous stagnation in the entire organism, including the central nervous system, probably also plays a role. This stagnation leads to passage of fluid from the dilated, poorly nourished walls of the vessels to the cerebrospinal fluid system; it can favor a subsequent transition of NaCl into the cerebrospinal fluid. The above exception to the general rule can be ascribed to the influence of a prolonged saltless regimen and in the 3rd stage to the effect of the disturbance of the blood-brain barrier.

Ruth Berggren

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

AVICSOR, M. L., prof.; SHVEDENKO, L. A. (Stanislav)

Clinical aspects of gastric syphilis. Klin. med. no.11:134-135 '61. (MIRA 14:12)

1. Iz kafedry fakul'tetskoy teparii (zav. - prof. M. L. Avicsor) Stanislavskogo meditsinskogo instituta (dir. - dotsent G. A. Babenko)

(STOMACH—SYPHILIS)

VASILENKO, Vladimir Kharitonovich; AVIOSOR, M.L., professor; ARTEM'YEV, S.G., redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor.

[Internal medicine] Vnutrennie bolezni. Pri uchastii M.L.Aviosora. 7-e izd. Moskva, Gos. izd-vo med. lit-ry, 1954. 503 p. [Microfilm] (Medicine)
(MLRA 8:1)

AVIOSOR, M.L., professor

Contraindications for the surgical treatment of hyperthyroid forms of endemic goiter. Vrach.delo no.2:209 F '57. (MLRA 10:6)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L.Aviosor) Stanislavskogo meditsinskogo instituta.
(GOITER)

AVIOSOR, M.L., professor; OL'GINA, F.P., kandidat meditsinskikh nauk

State of the cardiovascular system in patients with endemic goiter before and after treatment. Vrach.delo no.7:765 Jl '57. (MLRA 10:8)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L.Aviosor) Stanislavskogo meditsinskogo instituta
(GOITER) (CARDIOVASCULAR SYSTEM--DISEASES)

AVIOSOR, M.L., prof.; BEREZHNITSKIY, M.N.; SHVEDENKO, L.A.

Combination of myocardial infarct with hemorrhagic pancreatitis.
Vrach.delo no.8:133 Ag '62. (MIRA 15:11)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L.Aviosor) Stanislavskogo meditsinskogo instituta.
(HEART--INFARCTION) (PANCREAS--DISEASES)

AVIOSOR, M.L., prof.; GERASIMENKO, N.I.; BEREZHNITSKIY, M.N.; SHVEDENKO, L.A. (Stanislav)

Interaction of the thyroid gland and pancreas. Klin. med. 41 no.7:137-138 Jl '63 (MIRA 16:12)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. M.L.Aviosor) Stanislavskogo meditsinskogo instituta.

AVIOSOR, M.L., prof.; DUSHKINA, V.L., dotsent; BEREZINITSKIY, M.N.

Diagnosis of rheumatic and theumatoid polyarthritis. Vrach. delo no.11:127-128 N'63 (MIRA 16:12)

1. Klinika fakul'tetskoy terapii Ivano-Frankovskogo meditsinskogo instituta.

AVIOSOR, M.L.; BOBER, I.P.; MEL'MAN, Ye.P.; SOPIL'NIK, A.Yu.

Relation of the degree of experimental disorders of the arterial supply of the liver to peripheral blood proteins. Pat. fiziol. i eksp. terap. 8 no.4:42-47 Jl-Ag '64. (MIRA 18:2)

1. Kafedra fakul'tetskoy terapii (zav.- prof. M.L. Aviosor) i kafedra normal'noy anatomii (zav.- prof. Ye.P. Mel'man) Ivanovo-Frankovskogo meditsinskogo instituta.

MEL'MAN, Ye.P.; SOPIL'NIK, A.Yu.; AVIOSOR, M.I.; BOBER, I.F.

Structural changes in the arterial bed of the dog liver and dynamics of some of its functional indices in experimental ischemia. Arkh. anat., gist. i embr. 47 no.10:23-35 O '64. (MIRA 18:6)

1. Kafedra normal'noy anatomii (nav. - prof. Ye.P.Mel'man) i kafedra fakul'tetskoy terapii (zav. - prof. M.I.Aviosor) Ivano-Frankovskogo meditsinskogo instituta.

AVTOGOR, M.I., prof., BORER, T.P., MEL'MAN, Ye.P., prof., CHERKOVA, M.G.

Dynamics of some biochemical indices of the blood in experimental myocardial infarction in dogs. Kardiologiia 5 no.1:71-72 Ja-F '65. (MIRA 18:9)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.I. Avtogor) i kafedra normal'noy anatomii (zav. - prof. Ye.P. Mel'man) Stanislavskogo meditsinskogo instituta.

AVIRMED, A.; RESHETNIKOVA, L.P.; NOVOSELOVA, A.V.

Simultaneous solubility of lithium and beryllium sulfates in sulfuric acid. Vest.Mosk.un.Ser.2: Khim. 17 no.2:47-49 Mr-Ap '62. (MIRA 15:4)

1. Kafedra neorganicheskoy khimii Moskovskogo universiteta.
(Lithium sulfate) (Beryllium sulfate) (Solubility)

Avirom L.

AVIROM, L., inzh.

Exactness in manufacturing plain and reinforced concrete structural components for large-panel buildings. Biul. tekh. inform. 3 no.12: 26-29 D '57. (MIRA 11:1)

(Precast concrete construction)

AVIROM, L.S., inzh.

Mensuration tolerances in housing and civil construction used in the German Democratic Republic. Biul. tekh. inform. 4 no.3:29-30 Mr '58. (MIRA 11:3)
(Germany, East--Tolerance (Engineering)--Standards)

AVIROM, L.S., inzh.

Method for calculating the allowable size of forms for plain and reinforced concrete products. Biul. tekh. inform. 4 no.5:23-25 My '58. (MIRA 11:8)
(Concrete construction--Formwork)

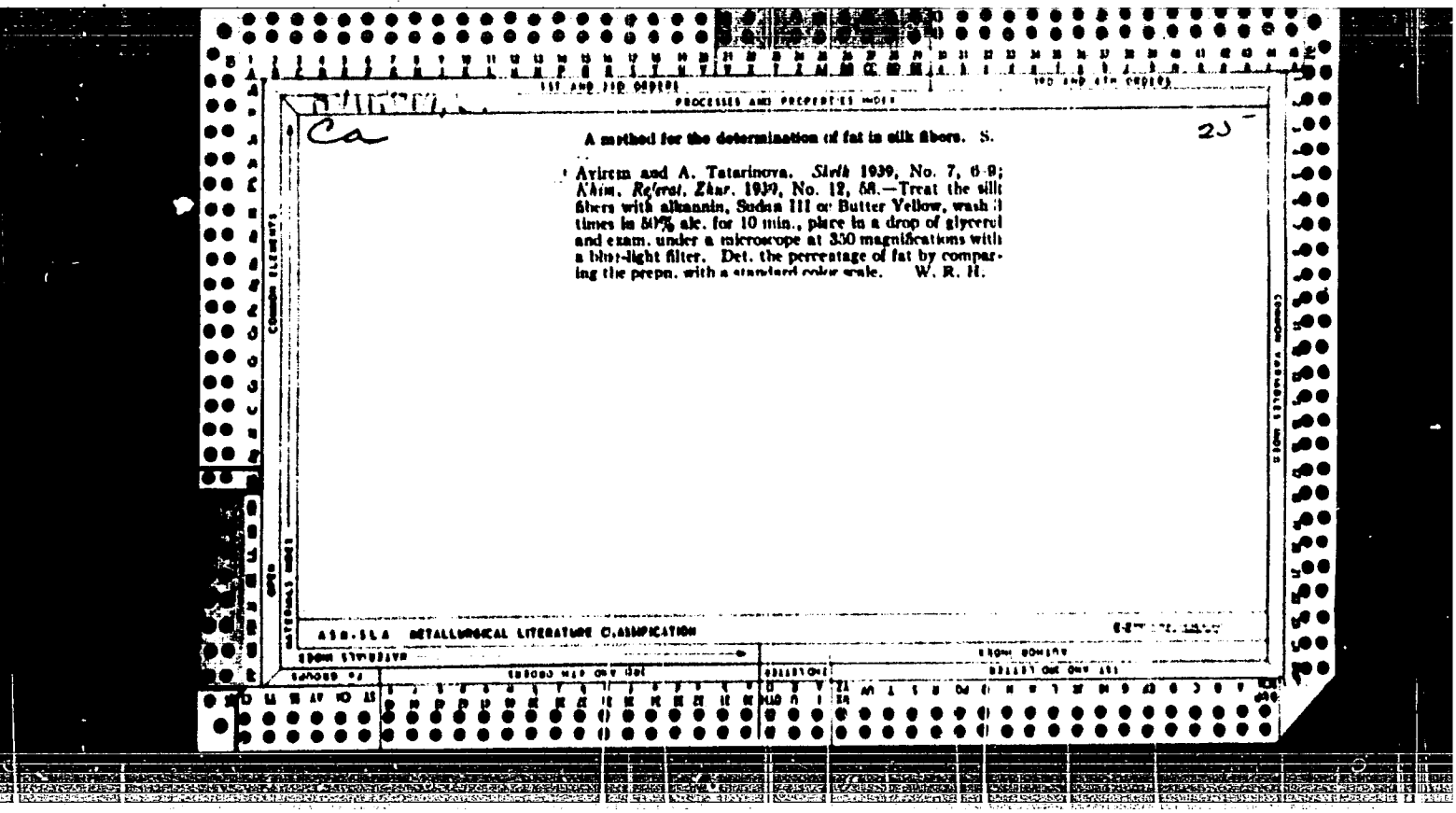
AVIROM, L. S., Cand Tech Sci -- (diss) "System of permissible variations and fittings for miscellaneous living and civic buildings." Leningrad, 1960. 19 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Order of Labor Red Banner Construction Engineering Inst); 220 copies; price not given; (KL, 26-60, 134)

AVIROM, L.S., kand. tekhn. nauk; PITLYUK, D.A., kand. tekhn.nauk; RYNDIN, N.I., kand. tekhn.nauk; GNEDOVSKIY, V.I., prof., zasl. deyatel' nauki i tekhniki RSFSR, retsenzent; PREYS, P.V., prof., nauchnyy red.; GRIGOR'YEVA, I.B., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[Joints for elements of large-panel and large-block buildings] Styki elementov krupnopanel'nykh i kurpnoblochnykh zdanii. Leningrad, Gosstroiizdat, 1962. 215 p. (MIRA 15:7)
(Building--Details)

AVIROM, Leon Saadiyevich, kand. tekhn. nauk; BELYAYEV, B.I., retsenzent; KOSTANDOV, A.I., red.izd-va; CHERKASSKAYA, F.T., tekhn. red.

[Tolerances in large-block house construction] Dopuski v krupnoelementnom zhilishchnom stroitel'stve. Leningrad, Gosstroiizdat, 1963. 162 p. (MIRA 17:1)

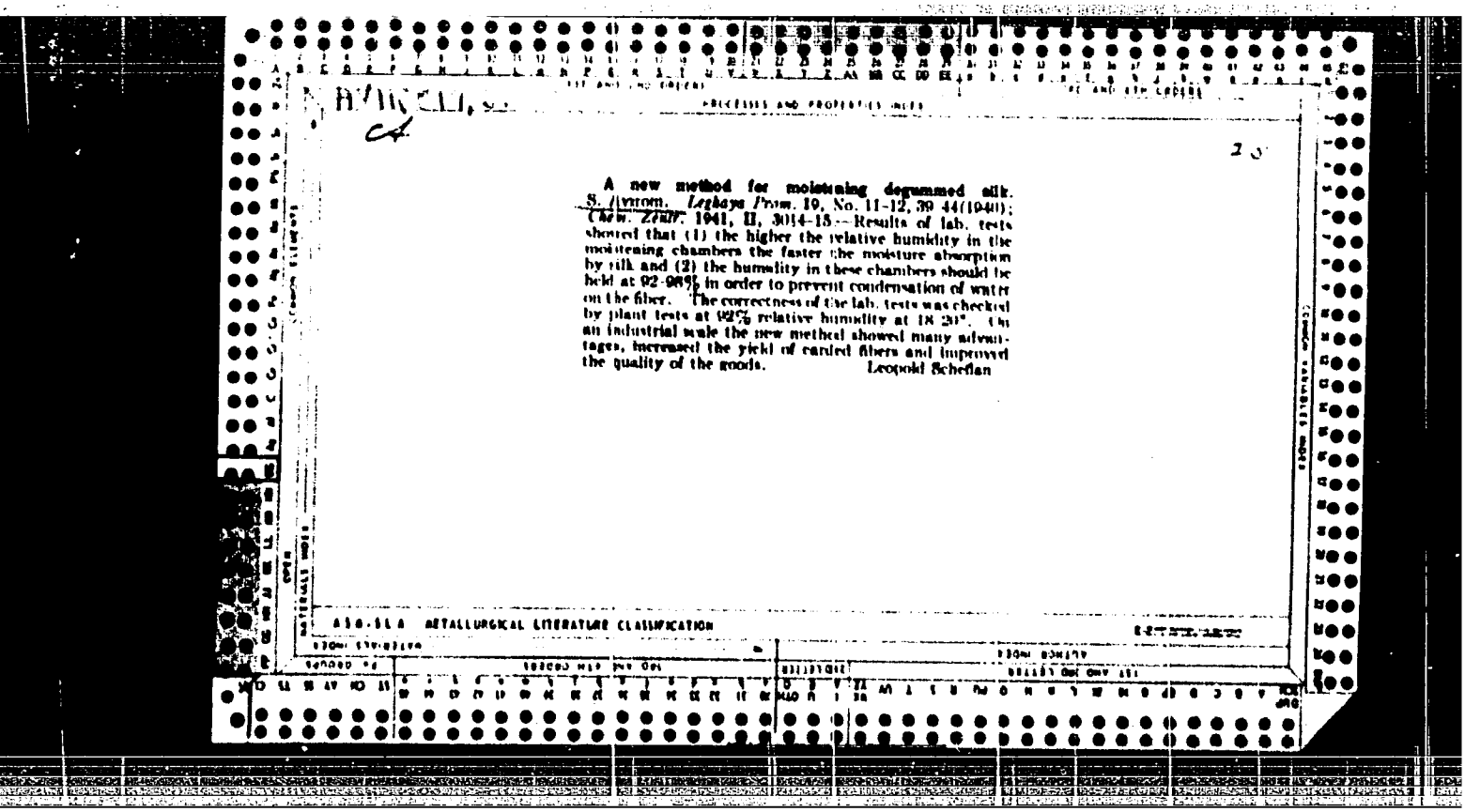


Ca

25

A method for the determination of fat in silk fibers. S.

Avirem and A. Tatarinova. *Shelk* 1939, No. 7, 6-9; *Khim. Referat. Zhur.* 1939, No. 12, 58.—Treat the silk fibers with alkannin, Sudan III or Butter Yellow, wash 3 times in 80% alc. for 10 min., place in a drop of glycerol and exam. under a microscope at 350 magnifications with a blue-light filter. Det. the percentage of fat by comparing the prepn. with a standard color scale. W. R. H.



A new method for moistening degummed silk. S. Ivvrom. *Legkaya Prom.* 10, No. 11-12, 39-44(1940); *Chem. Zentr.* 1941, II, 3014-15.—Results of lab. tests showed that (1) the higher the relative humidity in the moistening chambers the faster the moisture absorption by silk and (2) the humidity in these chambers should be held at 92-98% in order to prevent condensation of water on the fiber. The correctness of the lab. tests was checked by plant tests at 92% relative humidity at 18-20°. On an industrial scale the new method showed many advantages, increased the yield of carded fibers and improved the quality of the goods. Leopold Scheflan

A56-51A METALLURGICAL LITERATURE CLASSIFICATION

AVIROM,S., kandidat tekhnicheskikh nauk; ELYAKHER,M., inzhener

Production and use of "carbonized" wool. Prom.koop. no.3:53-56 Mr '55. (MLRA 8:11)

(Wool industry)

AVIROH, S., kand.tekhn.nauk; MARENKOVA, N., starshiy nauchnyy sotrudnik

Wool fabrics from fur waste. Mest. prom. i khud. promys. 2 no.6:1-2 Je '61. (MIRA 14:7)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut (for Marenkova).

(Woolen and worsted manufacture)

AVIROM, S., kand.tekhn.nauk; KIL'CHEVSKAYA, Z., starshiy nauchnyy sotrudnik

They make good carpets. Mest.prom.i khud.promys. 3 no.3:28-30 Mr '62. (MIRA 15:3)

1. Nauchno-issledovatel'skiy institut khudozhestvennoy promyshlennosti (for Kil'chevskaya).

(Carpets)

AVIROM, S. M.

29093- AVIROM, S. M. I MAGITT, YE. G. -- Skonostnoy Kolorisiichekiy Metod Opredeleniya Stepeni Odrevesneniya L'nyanogo Volokna, Nauch-issled. Trudy (ts Engr. Nauch-issled. IN-T Lubyanykh Volokon) T. 111, 1949, s. 5-15 Bibliogr: 7 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

AVIROM, S.M., kand. tekhn.nauk, nauchn. sotr.; GLOTSER, L.I., kand. tekhn.nauk, nauchn. sotr.; GORELIK, S.A., kand. tekhn. nauk, nauchn. sotr.; LEYTES, L.G., kand. tekhn. nauk, nauchn. sotr.; PLATONOVA, Yo.I., nauchn. sotr.; [illegible], kand. tekhn. nauk, nauchn. sotr.; Prinyali uchastiye: ZOTOV, V.A., nauchn. sotr.; FILATOVA, M.V., nauchn. sotr.; NIKITIN, G.N., nauchn. sotr.; ROMASHOV, A.I.; GODINER, F.Ye., red.

[Recovery and use of secondary wool in consumers' goods] Poluchenie i primenenie vtorichnoi shersti v izdeliiakh narodnogo potrebleniia. [By] S.M.Avirom i dr. Moskva, Izd-vo "Legkaia industriia," 1964. 260 p. (MIRA 17:5)

1. Nachal'nik pryadil'nogo tsekha Pushkinskoy fabriki No.13 (for Romashov).

17(14)

SOV/177-58-7-13/28

AUTHOR: Geyro, S.B., Candidate of Medical Sciences, Avisov, P.B., Major of the Medical Corps, and Rybakova, G.A.

TITLE: Changes of the Peripheral Blood and the Medulla Ossium due to Osteosynthesis by Means of a Metal Pin in Fractures of Hollow Cylindrical Bones

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 7, pp 58-63 (USSR)

ABSTRACT: The article discusses changes of the peripheral blood and of the medulla ossium in patients with various fractures of hollow cylindric bones and local changes of the medulla ossium prior to the introduction of the pin and after its extraction. A great many scientists including Raysh (1943), Slani (1941), R.L. Ginzburg (1952), Ya.G. Dubrov (1952), A.S. Ignat'yev (1956) who studied the red blood of patients after osteosynthesis, observed in several cases anemia of different degrees. Ya.

Card 1/3

Changes of the Peripheral Blood and the Medulla Ossium due to Osteosynthesis by Means of a Metal Pin in Fractures of Hollow Cylindrical Bones

G. Dubrov experimentally proved local changes of the medulla ossium after osteosynthesis of the hip bone. The author of this article sums up the results of his investigations in the following conclusions: 1) Concerning the blood system osteosynthesis is not contra-indicated. 2) Osteosynthesis of the hollow cylindrical bones by means of a metal pin takes no effect on hematopoiesis. The changes of the blood system following the operation are temporary or reversible. 3) After osteosynthesis, active hematopoiesis is to be observed in the punctate of the patient's sternium. 4) In long hollow bones without active and general hematopoiesis the steel pin is an insignificantly negative effect on the hematopoietic functions. Only in the zone directly adjacent to

Changes of the Peripheral Blood and the Medulla Ossium due to Osteosynthesis by Means of a Metal Pin in Fractures of Hollow Cylindrical Bones

the pin's canal an excrescence of the strome of the connectivum and a restraint of the active parenchyma take place. 5) It is to be supposed that changes of the blood system due to osteosynthesis result from the metal pin as stimulus of the receptors of the medulla ossium and from the effect of the very injury and the surgical intervention. 6) During 3 to 6 months following operation the compound of the peripheric blood in most of the patients was normal and only in a few cases was a tendency to moderate leucopenia with relative lymphocytosis and neutropenia observed. There are 2 tables.

Card 3/3

604. AQUEDUCT OF THE COCHLEA AND ITS SUPPLEMENTARY CANALS IN MAN (TOPOGRAPHO-ANATOMICAL RESEARCH) (Russian text) - Avisov P. B. Leningrad, USSR - VESTN. OTO-RINO-LARING. 1958, 20/4 (19-24) Illus. 4

The differences in the structure and topography of the aqueduct of the cochlea, as well as of its supplementary canals, were observed as a result of studying series of histotopographical sections of pyramids of temporal bones of 46 persons. The length of the aqueduct of the cochlea amounted to 7-16.7 mm., its width in the narrowest point 0-275 μ. In 36 out of 46 subjects it was overgrown with bone. The content of the canal consisted of connective tissue of a reticuloendothelial nature. Supplementary canals contained veins through which the labyrinthine blood poured out into the inferior sagittal sinus. (XI, 1*)

PIROGOV, Nikolay Ivanovich [deceased]; AVISOV, P.B.; BISENKOV, N.P.; DYSKIN, Ye.A.; MIKHAYLOV, S.S.; DANILOV, I.V., prof., retsenzent; RUFANOV, I.G., prof., retsenzent; MAKSIMENKOV, A.N., prof., red. toma; RUFANOV, I.G., otv.red.; BAKULEV, A.N., zam.otv.red.; VISHNEVSKIY, A.A., red.; GESSLEVICH, A.M., red.; DAVYDOVSKIY, I.V., red.; KORNEYEV, V.M., red.; KOCHERGIN, I.G., red.; KROTKOV, F.G., red.; PETROV, B.D., zam.otv.red.; SEMEKA, S.A., red.; MIKHAYLOV, S.S., red.; RULEVA, M.S., tekhn.red.

[Collected works in eight volumes] Sobranie sochinenii v vos'mi tomakh. Moskva, Gos.izd-vo med.lit-ry. Vol.3. [Articles on experimental, operative, and military field surgery, 1847-1854] Trudy po eksperimental'noi, operativnoi, i voenno-polevoi khirurgii, 1847-1954. 1959. 533 p. (MIRA 14:1)
(SURGERY)

AVIZOV, A.G.

Study of some characteristics of the milk yield of cows. Uzb. biol. zhur. 8 no.6:62-65 '64. (MIRA 18:3)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva Ministerstva proizvodstva i zagotovok sel'khozyaystvennykh produktov UzSSR.

Country: USSR E
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103481.

Author : Avkent'yeva, V.A.; Alatyrtseva, I. Ye.; Burukina, A.V.; Zobnina, K. S.; Gel'shan, L.S.; Kuznetsova, G.S.; Minkovich, Ye. I.
Inst : -
Title : The Problem of Increasing the Therapeutic Effectiveness of Dysentery Bacteriophage.

Orig Pub: Sb. Bakteriofagiya, Tbilisi, Gruzmedgiz, 1957, 115-121.

Abstract: Of 337 dysentery cultures isolated in children who were sick with chronic dysentery only 50 percent proved to be sensitive to the usual standard phages. The phages were adapted (to each culture individually)

Card : 1/2

E

Country : USSR
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103461

to cultures selected for their biochemical and serological properties but chiefly for their phage-resistance. A mixture was made of these phages (polyphage) which was used for treatment. The treatment was given in three courses consisting of three cycles each. Of 356 children sick with chronic dysentery who were given phage treatment 335 (94.1 o/o) were discharged healthy. Twenty persons (5.9 o/o) remained chronic carriers. -- Ya. I. Rautenshteyn.

Card : 2/2

16

L 38491-66 EWT(d)/EWT(l)/EWT(m)/EWP(w)/EWP(k) IJP(c) WH/EM

ACC NR: AP6017820 (N) SOURCE CODE: UR/0147/66/000/002/0003/0008

48
47
B

AUTHOR: Avkhimovich, B. N.

ORG: none

TITLE: Calculation of the unsteady state heat conductivity of multilayer plates

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1966, 3-8

TOPIC TAGS: heat conductivity, flat plate

ABSTRACT: Most previous solutions of the problem have been in the form of converging series. The basic difficulty in their use is the necessity of finding the roots of complex transcendental characteristic equations. The present article is an attempt to obtain approximate solutions for infinite multilayer plates which are free of the above mentioned shortcoming. The dimensionless temperature of such a plate satisfies the equations

$$\frac{\partial \theta_l}{\partial \tau} = a_l \frac{\partial^2 \theta_l}{\partial x^2} \qquad (l = 1, 2, 3, \ldots, n) \qquad (1)$$

with the following boundary and initial conditions:

UDC: 536.212

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L 38491-66
ACC NR: AP6017820

$$\lambda_1 \frac{\partial \theta_1(l_1)}{\partial x} = -h\theta_1(l_1),$$

$$\lambda_l \frac{\partial \theta_l(l_{l+1})}{\partial x} = \lambda_{l+1} \frac{\partial \theta_{l+1}(l_{l+1})}{\partial x},$$

$$\theta_l(l_{l+1}) = \theta_{l+1}(l_{l+1}), \quad (2)$$

$$l = 1, 2, 3, \ldots, n-1,$$

$$\frac{\partial \theta_n(0)}{\partial x} = 0,$$

$$\theta_1(x, 0) = \theta_2(x, 0) = \ldots = \theta_n(x, 0) = 1.$$

The author first proceeds to obtain a solution of the initial equations in the form

$$\theta_i(x, \tau) = \eta_1(\tau) x_i^{(1)}(x) + \eta_2(\tau) x_i^{(2)}(x) + \ldots + \eta_n(\tau) x_i^{(n)}(x), \quad (3)$$

$$i = 1, 2, 3, \ldots, n.$$

This is followed by a determination of the position of the heating front. Orig. art. has: 21 formulas and 2 figures.

SUB CODE: 20/ SUBM DATE: 25Jan65/ ORIG REF: 004

Card 2/2 LC

L 47140-66 EWT(d)/EWT(1) IJP(c) WW/GD
ACC NR: AT6031847 SOURCE CODE: UR/0000/66/000/000/0003/0034

AUTHOR: Avkhimovich, B. M. (Candidate of technical sciences)

ORG: none

TITLE: Calculation of nonstationary temperature fields in structures by the method of moments

SOURCE: Metody raschetov temperaturnykh poley i teplizolyatsii letatel'nykh apparatov (Methods for the calculation of temperature fields and heat insulation of aircraft); sbornik statey. Moscow, Izd-vo Mashinostroyeniye, 1966, 3-34

TOPIC TAGS: flight vehicle heating, heat conduction, heat conduction equation, moments method, LINEAR OPERATOR, HILBERT SPACE, HEAT EQUATION, AIRCRAFT

ABSTRACT: The problem of calculating nonstationary temperature fields in heated flight vehicles is analyzed. It is pointed out that simple approximate analytic solutions for a certain type of such problems were obtained recently by means of an integral method (the true temperature profile is approximated by an n-th degree polynomial) which is of the Galerkin type and whose successful application depends on the proper selection of the system of basis functions. However, for more complex structures (for example a stiffened skin), there are no recommendations on how to select the basis functions and the integral method cannot be applied. In this article, a sufficiently general method (the method of moments) for selecting the basis

Card 1/2 UDC: 629.13:536.12.001

L 47140-66
ACC NR: AT6031847

functions, based on the properties of linear bounded operators in Hilbert space, is presented. The method of moments makes it possible to construct a system of basis functions defined only by the initial heat conduction equations and the boundary conditions of the problem which ensure the fast convergence of the solution (the solution of the problem is sought in the form of series in basis functions). The question of selecting the initial basis function is considered. The application of the method to calculating nonstationary temperature fields is presented for the following typical elements of flight vehicles: 1) indefinite solid plate; 2) indefinite multilayer plate; and 3) stiffened skin panel. Some design formulas are derived. The peculiarities of calculations at the initial stage of heat transfer are analyzed. Orig. art. has: 7 figures and 74 formulas. [LK]

SUB CODE: 01, 20/12 SUBM DATE: 25Mar66/ ORIG REF: 005/ OTH REF: 002/ ATD PRESS: 5089

Card 2/2 afs

ACC NR: AP6036856 SOURCE CODE: UR/0147/66/000/004/0063/0067

AUTHOR: Avkhimovich, B. M.

ORG: none

TITLE: Calculation of the temperature equalization time in multilayer cylinders

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 4, 1966, 63-67

TOPIC TAGS: solid fuel, solid fuel rocket, heat condensation, temperature equalization

ABSTRACT: The rapid determination of the time required for temperature equalization in a part immersed in a medium of constant temperature is of interest for many technical problems, e.g., for the thermostating of solid fuel rocket engines. Previously published analytical solutions of nonsteady-state heat conduction problems have involved laborious numerical calculations; therefore, in the present study, an analysis was made by the method of moments, and the following approximate solution (not in series form) was obtained for calculating the time required for temperature equalization in a multilayer cylinder (see Fig. 1):

$$\tau_B = \frac{4.6}{R_1 - R_n} \sum_{i=1, 2, 3, \ldots, n-1} \left\{ \frac{R_{i+1}^3 - R_i^3}{12a_i} + c_1^{(i)} \left[R_{i+1} (\ln R_{i+1} - 1) - R_i (\ln R_i - 1) \right] + c_2^i (R_{i+1} - R_i) \right\},$$

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where R_i are the radii at the contact surface of the layers;

$$c_1^{(i)} = R_{i+1}\frac{\lambda_{i+1}}{\lambda_i}\left[\frac{R_{i+1}}{2a_{i+1}} + c_1^{(i+1)}\frac{1}{R_{i+1}}\right] - \frac{R_{i+1}^2}{2a_i};$$

$$c_2^{(i)} = -\left[\frac{R_i^2}{4a_i} + c_1^{(i)}\ln R_i\right] - \frac{\lambda_i}{h}\left[\frac{R_i}{2a_i} + c_1^{(i)}\frac{1}{R_i}\right];$$

λ, thermal conductivity; and a is the thermal diffusivity. For a plain cylinder the formula reduces to

$$Fo_s = 2{,}3\left(\frac{1}{3} + \frac{1}{Bi}\right),$$

where Fo is the Froude number, and Bi is the Biot number. Orig. art. has: 21 formulas and 2 figures.

SUB CODE: 21/ SUBM DATE: 15Mar65/ ORIG REF: 002/ ATD PRESS: 5107

Abs Jour : Ref Zhur Biol., No 3, 1959, 12415

Author : Avkhimovich, R.N.

Inst : Minsk Medical Institute

Title : Basal Metabosism in Patients with Cariiovascular Insufficiency and Factors Influencing Its Condition

Orig Pub : Sb. nauchn. rabot. Minskiy med., in-t, 1957, 18, 129-139

Abstract : In severe cases of disease of the cariiovascular system an increase of the basal metabolism (BM) rate was established. But in sharply expressed congested manifestations and decompensations the BM went down to normal. In patients with cardiopulmonary insufficiency the BM was depressed in a majority of cases. The function of the thyroid gland of those patients tested with the

Card 1/2

Abs Jour : Ref Zhur Biol., No 3, 1959, 12415

application of I^{131} was usually normal, and only in in- [illegible] was it below normal. -- Ye.M. Berkovich

Card 2/2

AVRAMENKO, N.V., ANIKIN, A.G., DEGTYAREVA, G.M.

Effect of experimental conditions on the value of the effective distribution coefficient in zone melting. Zhur. fiz. khim. 39 no.6:1507-1508 Je '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova. Submitted April 2, 1964.

L 12031-66 EWT(m)/EWP(t)/EWP(b) JD

ACC NR: AT5022662 SOURCE CODE: UR/0365/65/001/005/0539/0542

AUTHOR: Ayramenko, V. I.; Fppereka, M. Ya.

ORG: Novosibirsk Electrotechnical Institute of Communications (Novosibirskiy elektrotekhnicheskiy institut svyazi) 45 B

TITLE: Internal stresses in a-c deposited chromium plate 14

SOURCE: Zashchita metallov, v. 1, no. 5, 1965, 539-542

TOPIC TAGS: electrolytic deposition, alternating current, cathode polarization, metal coating, chromium plating, tensile stress, hardness

ABSTRACT: A study was made of the effect of alternating sinusoidal current on cathode polarization, internal stress, and microhardness of chromium coatings deposited at 56°C from an electrolyte containing CrO_3 and H_2SO_4 in the amounts of 160 and 1.6 g/l, respectively. The cathode polarization was measured oscillographically, and the microhardness was determined by the PMT-3 apparatus at 200 g pressure on the indentor. The value of the internal stresses in chromium depended on the thickness of the deposited layer: it decreased from 9×10^8 newton/m^2 in 0.2μ coatings to 10^8 n/m^2 in 5μ coatings. Therefore, all measurements and

1/2 UDC: 621.357.7
541.135.7

calculations were made at a constant thickness of 0.2 μ. Internal tensile stress decreased with increase in the amplitude of the a-c component. At relatively low d-c densities (30 amp/ dm^2) and comparatively high a-c densities, the internal stresses changed their sign. Thus, alternating current may be one of the factors permitting production of stress-free chromium plate. The internal tensile stresses decreased with increased frequency of the alternating current (in sonic ranges), but less so than during increased amplitudes and without changing the sign of internal stress. The frequency dependence on current efficiency was complex: in the range of 50-500 cps the current efficiency decreased with increased frequency, but it increased with increased frequency at frequencies > 500 cps. The microhardness of chromium coatings decreased with increased amplitude of the alternating current. The curve of the frequency effect on the microhardness had a minimum at frequencies of 400 - 500 cps. The oscillograms of cathode polarization indicated that the application of sinusoidal current affected the displacement of the average value of the cathode potential to the anode side, i.e. it resulted in the depolarization of the electrode. Orig. art. has: 3 figures.

SUB CODE: 07,10/SUBM DATE: 14Dec64/ ORIG REF: 007/ OTH REF: 003

2/2

AVKSENT'YEV, A.A.

Starting diesels from power rectifier units. Energ.biul.no.9:30 S '57. (MIRA 10:10)

(Diesel engines)

LUKASHEV, K.I., akademik; AVKSENT'YEV, A.N., kandidat geologo-mineralogicheskikh nauk, redaktor; KHOLYAVSKIY, S., redaktor izdatel'stva; ALEKSANDROVICH, M., tekhnicheskiy redaktor

[Rare metals and their use in industry] Redkie metally i ikh ispol'zovanie v promyshlennosti. Minsk, Izd-vo Akademii nauk BSSR, 1956. 178 p. (MLRA 10:1)

1. Akademiya nauk BSSR (for Lukashev)
(Metals)

LUKASHOU, K.I.; AUKSENTS'EU, A.N.; PURSENKA, A.V.; MAKHNACH, A.S.

Geological investigations on the White Russian territory during 40 years (1917-1957). Vestsi AN BSSR Ser. fiz.-tekh. nav. no.3:73-87 '57. (MIRA 11:1)
(White Russia--Geological research)

AVKSENT'YEV, A.N.

Over the gological map of White Russia. Znan. sila 32 no.11:21 N '57.
(MLRA 10:11)

1. Chlen-korrespondent AN BSSR, direktor Instituta geologii.
(White Russia--Mines and mineral resources)

3(5) PHASE I BOOK EXPLOITATION SOV/2077

Akademiya nauk Belorusskoy SSR, Minsk. Institut geologicheskikh nauk

Trudy, Vyp. 1 (Transactions of the Institute of Geological Sciences of the Belorussian SSR Academy of Sciences) Nr 1. Minsk, 1958. 227 p. 700 copies printed. Errata slip inserted.

Editorial Board: A.N. Avksent'yev, A.V. Fursenko, and V.N. Shcherbina; Ed. of Publishing House: Ye. G. Barabanova; Tech. Ed.: I. Volokhanovich.

PURPOSE: This issue of the Institute's Transactions is intended for geologists interested in both the physical and historical geology of Belorussia.

COVERAGE: This collection of articles on the geology of Belorussia has been prepared by members of that republic's Geological Institute. Individual papers discuss the prospects of future development of Belorussia's geological and geophysical studies, problems in the petrography of sedimentary rocks, and questions in paleontology and hydrogeology. Among the papers on historical geology are a study of the development of Foraminifera and one on spore-pollen analysis of Lower Carboniferous horizons. References accompany each article.

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TABLE OF CONTENTS:

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8-4-59

AVKSENT'YEV, A.N.

MALININ, S.N., dotsent, kand.ekon.nauk, otv.red.; LUPINOVICH, I.S., doktor sel'skokhoz.nauk, akademik, zamestitel' otv.red.; URUSOV, V.V., otv.red. po vypusku; LUKASHEV, K.I., doktor geologo-mineral.nauk, akademik, red.; AVKSENT'YEV, A.N., kand.geologo-mineral.nauk, red.; ROGOVOY, P.P., doktor sel'skokhoz.nauk, akademik, red. Sostaviteli kart: BOBYLEVA, Ye.A.; VOLKOVA, V.V.; VORONTSOVA, G.V.; MARKOVA, N.T.; TIKHONRAVOVA, Ye.V.; IL'YUSHIN, I.M., kand.filosof.nauk, red.kart; KRAVCHENKO, I.S., kand.istor.nauk, red.kart; KUPREVICH, V.F., doktor biolog.nauk, akademik, red.kart; BURZGAL, T.S., red.-kartograf; GULYUK, G.I., red.-kartograf; LEVSHINOV, A.O., red.-kartograf; RUTKOVSKAYA, M.S., red.-kartograf; SVIRSKIY, A.S., red.-kartograf

[Atlas of the White Russian Soviet Socialist Republic] Atlas Belorusskoy Sovetskoy Sotsialisticheskoy Respubliki. Minsk, Akad.nauk BSSR, Glav.upr.geodez. i kartografii MVD SSSR, 1958. XIV, 140 maps. (MIRA 12:4)

1. Predsedatel' Gosplana BSSR (for Malinin). 2. AN BSSR; prezident Akademii sel'skokhoz.nauk BSSR (for Lupinovich). 3. Direktor Minskoy kartograficheskoy fabriki (for Urusov). 4. AN BSSR; vitse-prezident AN BSSR (for Lukashev). 5. AN BSSR (for Rogovoy). 6. Chlen-korrespondent AN BSSR (for Il'yushin). 7. AN BSSR; chlen-korrespondent AN SSSR; prezident AN BSSR (for Kuprevich).

(White Russia--Maps)

LUKASHEV, K.I.; AVKSENT'YEV, A.N.

Geological study of the White Russian territory. Trudy Inst. geol.nav. AN BSSR no.1:5-9 '58. (MIRA 12:1)
(White Russia--Geology)

GORELIK, Zalman Abramovich; MISHAGOVA, Edit Donal'dovich; LEVKOV, Ernst Arkad'yevich; AVKSENT'YEV, A.N., red.; BARABANOVA, Ye., red. izd-va; VOLOKHANOVICH, I., tekhn. red.

[Sands of the White Russian S.S.R. and their industrial utilization] Peski BSSR i ikh promyshlennoe ispol'zovanie. Minsk, Izd-vo Akad. nauk BSSR, 1961. 170 p. (MIRA 14:11)
(White Russia—Sand)

AVKSENT'YEV, ~~(R10x)~~

USSR/Electronics - Personalities Oct 53

"Dissemination of Radio Engineering Information," B. Avksent'yev, Riga

Radio, No 10, p 10

Members of House of Sci and Eng, Latvian SSR, include E. Damberg (worker in VEF plant) I. Olyn'sh and I. Auns. E. Freydenfel'd lectured on "Oxide Ferromagnetic Materials for High-Frequency Apparatus." In 1953 workers at Power Eng Inst, Acad Sci Latvian SSR, developed clamps for cold welding of nonferrous

276T19

metals. House organized conference on theory and application of progressive experience VEF plant and "Krasnaya Zarya" plant in Leningrad.

AVKSENT'YEV, G.A., inzh.; CHISHCHENKO, G.A., inzh.; YAKOVENKO, I.M., MIROSHNICHENKO, V.V.

Collective responsibility for the enforcement of safety rules. Bezop. truda v prom. 2 no. 6:27-29 Je '58. (MIRA 11:7)

1. Predsedatel' shakhtkoma shakhty No. 32(for Yakovenko). 2. Predsedatel' komissii okhrany truda(for Miroshnichenko).
(Donets Basin--Coal mines and mining--Safety measures)

AVKSENTYEV, I., STETSENKO, P. N.,

"Effective Internal Fields on Nuclei of the Antiferromagnetic Transition Metals"

report presented at the Symposium on Ferroelectricity and Ferromagnetism, Leningrad, 30 May-5 June 1963.

AVKSENT'YEV, I.

Efficiency promoters of the "S.Lazo" Factory. Kozh.-obuv.prom. 7 no.3:33 Mr '65. (MIRA 18:10)

AVKSENT'YEV, I. G.

Candidate of Technical Sciences
"Geometric Accuracy and Labor-Consumption in Lathe Production" Stanki I Instrument, 17, No. 2-3, 1946

SO: MLRA.

AVKSENT'YEV, I. G.

Avksent'yev, I. G. - "Planing of cast iron with wide cutters," Trudy EMMS, Eksperim. nauch.-issled. in-t metallorezhushchikh stankov, Issue 1, 1948, p. 66-89, - Bibliog: 5 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

AVKSENT'YEV, I. G.

Avksent'yev, I. G. - "Experimental study of the cutting force when planing cast iron," Trudy EMTS, Eksperim. nauch.-issled. in-t metallorezhushchikh stankov, Issue 1, 1948, p. 90-112, - Bibliog: 5 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

AVK[illegible]V, I. G.

No. 37341--Skorostnoe rarezanie rez'by. (Iz doklada na konferentsii monitomash po skorostnym metodam obrabotki. Moskva. 1948). Stanki i instrument, 1949, No.12, S. 12-15.

So: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

AVKSENTYEV, I. G.

USSR/ Miscellaneous

Card 1/1 : Pub. 103 - 14/29

Authors : Avksentyev, I. G.

Title : Problem of utilizing reverse motion of planing machines

Periodical : Stan. i instr. 9, 30-31, Sep 1954

Abstract : The problem of utilizing the reverse motion of universal type planing machines is discussed. The disadvantages of utilizing the reverse motion of planers is explained. Graphs; drawings.

Institution : ...

Submitted : ...

AVKSENT'YEV, I. G.

USSR/ Engineering - Thread cutting

Card 1/1 : Pub. 128 - 16/31

Authors : Avksent'ev, I. G.

Title : Cutting force and power consumption during high-speed cutting of screw threads

Periodical : Vest. mash. 10, 68 - 71, Oct 54

Abstract : The editorial gives some information on methods for calculating the required power and power consumption during high-speed cutting of screw threads. New methods for cutting screw threads with four-point cutters made of Mark 40Kh steel are also described. Diagrams; drawings; graphs.

Institution : ....

Submitted : ....

ZEL'DIN, A.P.; [illegible]; LEV, A.I.; [illegible]; ABRAMOV, L.D.;
AVESBUCHEV, L.M.

Reviews and bibliography. Kosm.-okhr. [illegible] 7 no.8:30-36 Ag '65.
(MIRA 18:9)

ABRAM P.Ya.; ALEKSANDROVA, G.I.; VOL'SKIY, V.S.; GORDON, Kh.I.; KLIMOVICH, A.I.; LIFSHITS, V.A.; FEDOTOV, F.G.[deceased]; AVKSENT'YEV, P.A.,[retsenzent]; ZAKHAROV, N.N.[retsenzent]; KOCHANOV, M.I.[retsenzent]; LEKSASHOV, P.P.[retsenzent]; NOVIKOV, V.F.[retsenzent]; SOKOLOV, M.V.[retsenzent]; SHESTOPAL, V.M.[retsenzent]; YAKOBSON, M.O.[retsenzent]; GAL'TSOV, A.D., red.; STRUZHESTRAKH, Ye.I., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; POCHTAREVA, A.V., red. izd-va; TIKHANOV, A.Ya., tekhn. red.; MODEL', B.I., tekhn. red.

[Handbook for the establishment of norms in the machinery industry in 4 volumes]Spravochnik normirovshchika-mashinostroitelia v 4 tomakh. Moskva, Mashgiz, Vol. 4. [Engineering norms in auxiliary shops]Tekhnicheskoe normirovanie vo vspomogatel'nykh tsekhakh. 1962. 478 p. (MIRA 16:2)
(Machinery industry--Production standards)

AVKSENT'YEV, S. I.

7478. AVKSENT'EV, C. I. Kontrol'nyye raboty po obshchey fizike. (Mekhanika I akustika). Dlya studentov-zaochnikov I kursa fiz.-matem. fak. Ped. in-tov. M., uchpedgiz, 1954. 31s. s ill. 20sm. (Glav. upr. podgotovki uchiteley m-va prosveshcheniya RSFSR. nauch.-metod. kabinet po zaoch. obucheniyu uchiteley). 10,000 EKZ. 35k.--(55-4216) 53 (071.4)

So. Knizhnaya Letopis', Vol. 7, 1955

AVKSENT'YEV, S.I., dots., red.; PONOMAREVA, A.A., tekhn. red.

[Programs of pedagogical institutes; program of state examinations in physics; major: physics] Programmy pedagogicheskikh institutov; programma gosudarstvennykh ekzamenov po fizike (spetsial'nost' fizika). [Moskva] Uchpedgiz, 1958. 7 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedeniy.
(Physics--Study and teaching)

AVKSENT'YEV, S.I., dots.; VOLKOVA, Z.V., prof.; KAPUSTIN, A.P., prof.; VOLCHOK, V.L., tekhn. red.

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STEPANENKO, P. N.; AVRUTIN, Yu. I.

"The effective internal fields on nuclei of some transition metals and thin alloys."

report submitted for Intl Conf on Magnetism, Nottingham, UK, 6-13 Sep 64.

Moscow State Univ.

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[illegible]

AUTHORS: Stetsenko, P. N.; Avksent'yev, Yu. I.

TITLE: Effective magnetic fields at the nuclei of antiferromagnetic transition metals

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 806-811

TOPIC TAGS: antiferromagnetism, nuclear magnetic field, transition metal, manganese, chromium, magnetic moment, electron spin, specific heat, hyperfine structure, magnetic cooling

ABSTRACT: A method was developed for measuring the specific heat in the region of very low temperatures, for the purpose of determining the mutual correlation between the local magnetic field at a nucleus and the field due to spontaneous magnetization in a ferromagnetic substance. The method was used to investigate the effective

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magnetic fields at the nuclei of manganese and chromium, which have an ordered distribution of the d- or f-electron spins, but not a spontaneous magnetic moment. The effective field was determined by measuring the nuclear specific heat. Both metals exhibit considerable hyperfine interaction. The method employs magnetic cooling, and the specific heat is determined in it not from a sudden temperature rise due to receipt of a certain amount of energy, but from the rate of continuous change of temperature following application of a known amount of power. The equipment is described in detail. The results show the effective field intensity to be 150 kOe at the manganese and chromium nuclei, respectively. The results agree well with those obtained by others. "The authors are deeply grateful to Ye. I. Kondorskiy for continuous interest in the work and for valuable remarks." Orig. art. has: 5 figures and 5 formulas.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet (Moscow State University)

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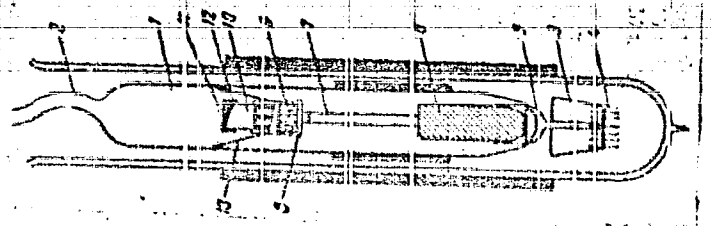

Fig. 1. Construction of calorimeter.

1 - Glass ampoule, 2 - glass tube for filling with helium, 3 - ground glass stopper, 4 - current leads, 5 - salt block holder, 6 - cooling salt, 7 - cold pipe, 8 - sample holder, 9 - superconducting jumpers, 10 - sample, 11 - thermometer, 12 - heater, 13 - centering whiskers

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