"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, V.V. (Moskva); GARNYK, G.A. (Moskva); SAMARIN, A.M. (Moskva)

Thermodynamic conditions for the interaction between nitrogen on one hand and silicon and aluminum on the other, in transformer steel. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.2: 40-46 Mr-Ap '63. (MIRA 16:10)

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AVERIN, V.V.; SAMARIN, A.M.

Effect of silicon on the solubility of oxygen in liquid cobalt and in Co-Fe melts. Trudy Inst. met. no.14:50-57 '63. (MIRA 17:8)

1. Chlen-korrespondent AN SSSR; otvetstvennyy redaktor shurnala "Trudy Instituta metallurgii" (for Samarin).

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AVERIN, V.V.; CHERKASOV, S.A.; SAMARIN, A.M.

Deoxidation of cobalt metls. Trudy Inst. met. no.14:58-67 '63 (MIRA 17:8)

1. Chlen-korrespondent AN SSSR; otvetsvennyy redaktor zhurnala "Trudy Instituta metallurgii" (for Samarin).

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AVERIN, V. V.; SAMARIN, A. M.

Physical chemistry of the alloy deoxidation process. Archiw hutn 8 no. 4: 283-299 '63.

1. Baikov Institute, Moskva.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, V.V. (Moskva); [illegible], L.L. (Moskva)

Thermodynamics of nitrogen solutions in liquid iron. Izv. AN SSSR Met. i gor. delo no.2:3-12 Mr-Ap'64 (MIRA 17:8)

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L 63762-65 EPA(s)-2/EWT(m)/EPF(n)-2/EWP(t)/EWP(z)/EWP(b) IJP(c) JD/WW/WB/JG

ACCESSION NR: AP5018012 UR/0020/65/163/001/0166/0168

AUTHOR: Tarakanov, Yu. V.; Cherkasov, P. A.; Averin, V. V.; Samarin, A. M. (Corresponding member AN SSSR)

TITLE: Effect of chromium on the deoxidizing capacity of silicon in nickel and chromium melts

SOURCE: AN SSSR. Doklady, v. 163, no. 1, 1965, 166-168

TOPIC TAGS: deoxidizing capacity, nickel containing melt, chromium containing melt, silicon, oxide phase, oxidation potential, activity coefficient, melt deoxidation

ABSTRACT: The effect of chromium on the deoxidizing capacity of silicon in melts of nickel and chromium was determined with the aid of a previously described technique (V. V. Averin, P. A. Cherkasov, A. M. Samarin. Tr. Inst. metallurgii, 11, Izd. AN SSSR, 1962, p 36) for investigating the equilibrium between the melts, the oxide phase, and a steam-hydrogen mixture with known oxidation potential. The deoxidizing capacity of silicon was determined at 1600°C in Ni melts containing 5, 10, 15, and 20% Cr; the concentration of Si

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L 03702-65

ACCESSION NR: AP5018091

ranged from 0.1 to 2.0%. Electrolytic nickel and chromium, pure silicon, and zirconium-dioxide crucibles were used in this investigation. Fig. 1 shows the solubility of oxygen as a function of Si content in a Fe alloy containing 20% Cr and in pure nickel: it can be seen that the solubility of oxygen decreases with increasing content of silicon in the melts. The effect of silicon on the activity of oxygen, determined on the basis of these findings, was found to decrease with increasing content of Cr in the melt (Fig. 2): this effect reaches its maximum for a Ni melt containing 5% Cr, whereas in a Ni melt containing 20% Cr silicon virtually does not affect the activity of oxygen. By contrast, the activity coefficient of silicon increases with increasing [illegible] Cr, since the presence of Cr weakens the strength of the bonding between Si and Ni. The method of calculating the activity coefficient of Si, also described [illegible] ration of Si is made to condition [illegible] of the deoxidation reaction), which entirely consists of silica. However, the concentration of Si required for this purpose varies as a function of the concentration of Cr. For example, in a Ni-Si melt containing more than 2% Si the deoxidation product is pure silica, whereas the addition of 5% Cr to the molten Ni causes the appearance of silica in the presence of as little as 0.25-

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

L 63782-65

ACCESSION NR: AP5018092

0.30% S1. Orig. art. has: 1 table, 2 figures.

ASSOCIATION: none

SUBMITTED: 22Dec64 ENCL: 02 SUB CODE: MM, GC

NO REF SOV: 002 OTHER: 000

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ACCESSION NR: AP5018092

ENCLOSURE: 01

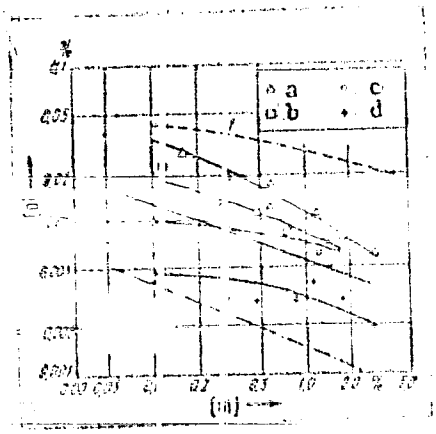

Fig. 1. Solubility of oxygen in melts of nickel and chromium as a function of the content of silicon.

a - 20% Cr
b - 15% Cr
c - 10% Cr
d - 5% Cr
1 - Fe-Si (20%-Si)
2 - Ni-Si
3 - Fe-Si

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L 03702-65
ACCESSION NR: AP5018097

ENCLOSURE: 02

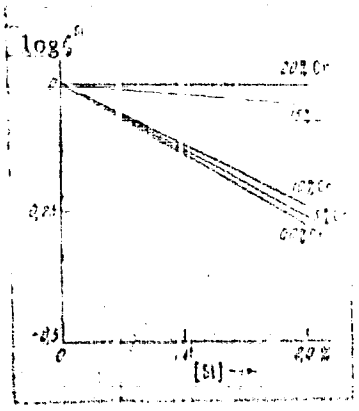

Fig. 2. Activity coefficient of silicon as a function of the concentration of silicon in nickel-chromium melts

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L 4360-66 EWT(m)/EWI(t)/ETI IJP(c) JW/JH/WB/JG

ACC NR: AP5027233 (A) SOURCE CODE: UR/0020/65/164/006/1355/1357

AUTHOR: Cherkasov, P. A.; Averin, V. V.; Samarin, A. M. (Corresponding member, AN SSSR)

ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii)

TITLE: Deoxidizing capacity and activity of silicon in cobalt-chromium melts

SOURCE: AN SSSR. Doklady, v. 164, no. 6, 1965, 1355-1357

TOPIC TAGS: silicon, metal oxidation, cobalt, chromium, oxygen, SOLUBILITY, METAL METALS

ABSTRACT: Experimental data, obtained during an investigation of the solubility of oxygen in Co-Cr melts containing Si proved the dependence of oxygen solubility on the content of Si: an increase in concentration of Si decreased the solubility of oxygen both in Co and Co-Cr melts. An increase in the content of Si in the Co-Cr melts caused a decrease in value of the oxidation potential of the gas phase present in equilibrium with the metal and oxide phase. The value of the oxidation potential depended on the content of Cr in the melt: the higher the content of Cr the lower the value of the oxidation potential. This indicated that the activity of Si (at the same concentration) was higher in melts having a higher concentration of Cr, because its oxidation occurred at a lower partial pressure of oxygen. The coefficient of activity of Si was determined by comparing the thermodynamic conditions of Si oxidation in Co-Cr melts with those in

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L [illegible] EWT(m)/EWP(t)/ETI IJP(c) JD/HW/JG
ACC NR: AP6030060 (A) SOURCE CODE: UR/0020/66/169/006/1383/1386

AUTHOR: Averin, V. V.; Cherkasov, P. A.; Samarin, A. M. (Academician)

ORG: Institute of Metallurgy im. A. A. Baykov, Academy of Sciences SSSR (Institut metallurgii Akademii nauk SSSR)

TITLE: Solubility of nitrogen in liquid cobalt and cobalt-titanium and cobalt-molybdenum melts

SOURCE: AN SSSR. Doklady, v. 169, no. 6, 1966, 1383-1386

TOPIC TAGS: solubility, solution property, free energy, nitrogen, cobalt, titanium, molybdenum, alloy

ABSTRACT: Solubility of nitrogen in liquid cobalt and in cobalt-titanium--(0.25-1.3% Ti) and cobalt-molybdenum--(5-20% Mo) melts was studied by means of measuring the volume of the hot melt after dissolving nitrogen in 1500-1700°K range and at nitrogen pressure of 15-760 mm Hg. The volume of the hot melt was measured with argon and the nitrogen solubility was calculated according to the method of R. D. Pehlke and J. F. Elliott (*Trans. AIME*, 218, 1088 (1959). The experimental setup is described in detail. The nitrogen solubility in molten cobalt at 1 atm pressure was found to obey the relationship $\log [\%N] = 3540/T - 0.435$. The free energy of the nitrogen dissolving in molten cobalt was found to be: $\Delta F = 16{,}200 + 1.99\,T$ cal/gram-atom of nitrogen. At

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1600°K, the dependence of the coefficient of nitrogen activity upon titanium concentration in the cobalt-titanium melts was found to be:

$$\lg f_N^{Ti} = -0{,}45[\%Ti].$$

The effect of molybdenum on nitrogen activity in the Co-Mo melts at 1600°K was found to be

$$\lg f_N^{Mo} = -0{,}015[\%Mo].$$

A. M. Zelichenko took part in the work. Orig. art. has: 4 figures, 6 formulas.

SUB CODE: 11/ SUBM DATE: 28May66/ ORIG REF: 004/ OTH REF: 003

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, V.Z.

Experimental study of the protection of flat banks from erosion by currents along the banks. Visti Inst.hidrol.i hidr. AN URSR [illegible] '63. (MIRA 16:4)

(Hydraulics)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

USSR/Engineering - Heat engineering FD-1385

AVERIN, Ye. K.

Card 1/1 : Pub. 41-12/18

Author : Averin, Ye. K.

Title : Influence of material and machining of surface on heat emission during water boiling

Periodical : Izv. AN SSSR. Otd. tekh. nauk 3, 116-122, March 1954

Abstract : Studies effect of properties of heating surface on heat emission in tubes made of stainless steel, copper, nickel-plated copper, and aluminum during water boiling process. Disputes experimental results obtained by American investigators, stating that effect of material and finish of heating surface on heat transfer in water boiling is considerably lower than it is generally assumed. Table, graphs, illustrations. Six references; 3 USSR.

Institutions :

Submitted : by Academician M. V. Kirpichev, February 26, 1954

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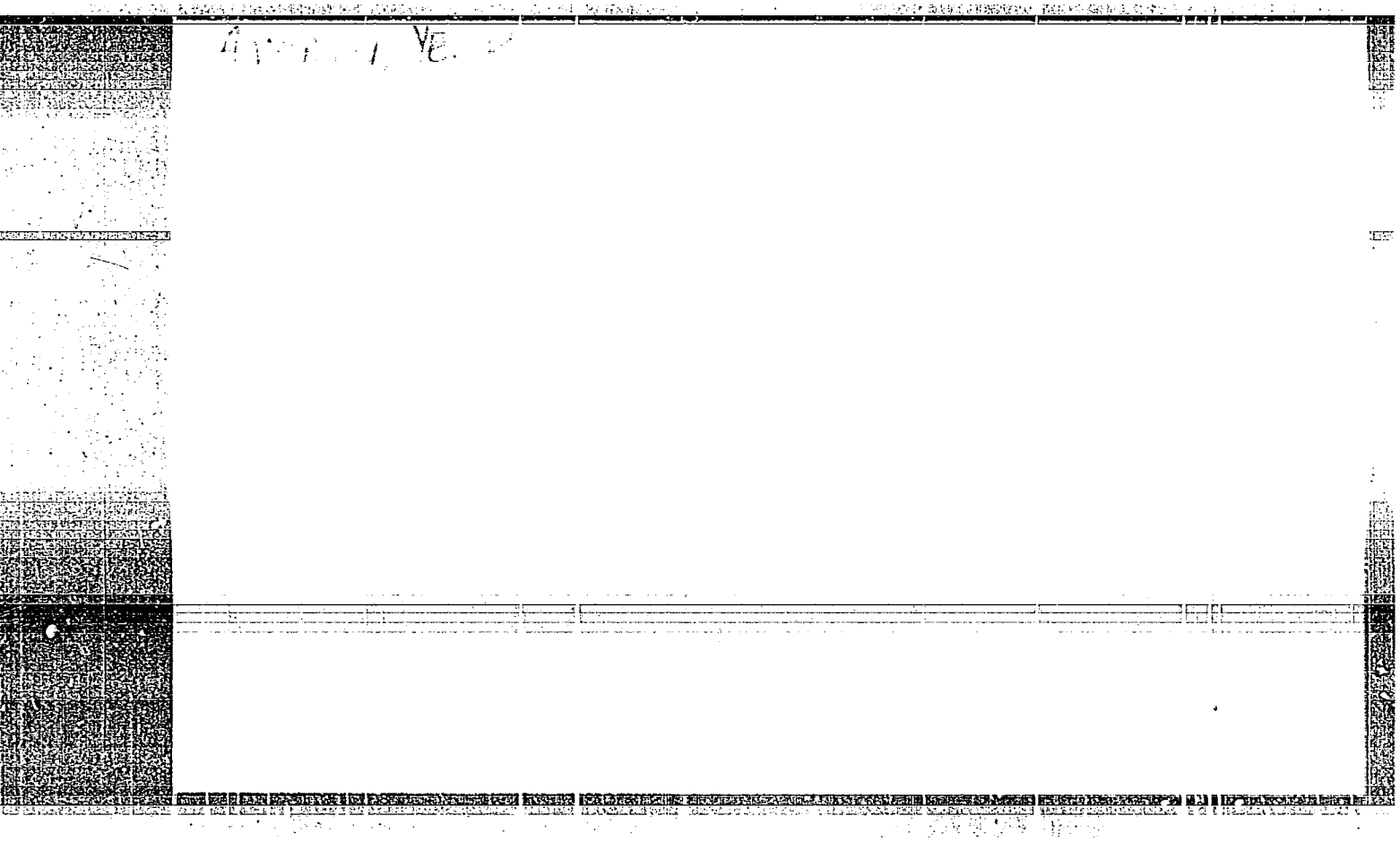

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AVERIN, V. K.
(Cand. Tech. Sci.)

Water. "Heat Exchange during Boiling Under Conditions of Forced Circulation of

report presented at sci. and tech. session on Heat Exchange during Change of Aggregate State of Matter (By Comm. on High Steam Conditions, Power Inst. AS USSR, and Inst. Thermal Engineering, AS UkrSSR), Kiev, 23-28 Sep 57.

Power Inst. Acad. Sci. USSR

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PHASE I BOOK EXPLOITATION SOV/1826

Akademiya nauk SSSR. Energeticheskiy institut

Teploperedacha i teplovoye modelirovaniye (Heat Transfer and Modeling of Heat Processes) Moscow, Izd-vo AN SSSR, 1959. 419 p. Errata slip inserted. 3,500 copies printed.

Resp. Ed.: M. A. Mikheyev, Academician; Ed. of Publishing House: D. A. Ivanova; Tech. Ed.: G. N. Shevchenko.

PURPOSE: The book is intended for scientists concerned with heat transfer, heat selesion, and hydraulics of liquid metals, etc.

COVERAGE: This collection is dedicated to the memory of Academician M. V. Kirpichev who in the twenties initiated a systematic investigation of heat transfer processes and the efficiency of heat apparatus. Later he led the development of research work in this field. Ten special collections devoted to works of Kirpichev's school have been published, one in 1938, Materialy sovetshchaniya po modelirovaniya (Materials of the Conference on Modeling) and in 1951, Teoriya podobiya i modelirovaniya (Theory of Similitude and Modeling). The present collection covers the period from 1944 to 1956 and reflects further development of the work of this school. This theory is fundamental for the analysis of many heat problems in the field of electrical and radio engineering. Of great importance are the first systematic investigations of heat transfer and the hydraulics of liquid metals which as a new kind of heat carrier may be used in the various branches of modern engineering. As a result of special investigations of some cases of convective heat transfer, a dependence of the process on the kind of liquid, temperature, pressure, direction of the heat flow, and other factors, was discovered and established. On the basis of a wide generalization of experimental data, new dependable recommendations for heat analysis of engineering equipment were developed. Of no less interest is the work on heat transmission in boiling liquids and the condensation of vapors. All investigations are based on the theory of similitude, the nature of which, according to M. V. Kirpichev, is that of "experimentation." Work on the theory of a regular regime applied to a system of bodies with an internal source of heat is of interest for the future.

Tikhayev, N. A. Average Heat Transfer in the Flow of Liquids and Pipes

As a result of the analysis and generalization of experimental data of the average heat-transfer in various liquids in turbulent motion (Re > 1·10⁴), in long pipes (length to diameter ratio $\frac{l}{d} > 50$) the following equation was established: $Nu = 0.021 \cdot Re^{0.8} \cdot Pr^{0.43} \left(\frac{Pr}{Pr_w}\right)^{0.25}$ in which the average temperature of the working fluid is the determining temperature and the equivalent (hydraulic) diameter d eq is the determining dimension. On a diagram in the form of the equation: $Nu Pr^{-0.43} \left(\frac{Pr}{Pr_w}\right)^{0.25} = f(Re)$ the first equation was compared to recently published new data on heat transfer. Multiplying Ko by 0.5, i. e. 2.)4.5.6, and 8, the material was divided into 7 groups: 1) experimental data for gases and steam 2) true liquids in circular pipes 3) water, air, and steam in concentric annuli 4) air in rectangular channels 5) air in annuli of trapezoidal, rectangular or triangular section 6) air in annuli composed of an outer conduit and 3 or 4 pipes inside 7) air and water in annuli composed of an outer conduit and 19 pipes inside. Experimental data confirm the values calculated by the proposed equation. There are 45 references: 17 Soviet, 4 English, and 4 German.

Article by K. [illegible], N. [illegible], V. A. Kuraiev, A. Pinkevich, and G. [illegible]. Heat Transfer in Liquids Flowing in Annular and Flat Channels

The article gives the results of special investigation of an average heat transfer process in annular and flat channels. Some different experimental arrangements and simple formulas for calculating heat transfer in a flow of water are described and diagrams of the arrangements are given. The experimental work was done at the Laboratoriya teploperedachi Energeticheskogo instituta AN SSSR (Laboratory of the Heat Transfer Institute, Academy of Sciences, USSR) under the guidance of M. A. Mikheyev. The tests were carried out by the authors of the article, assisting is the mechanic N. I. Pozdnev. Senior Engineer A. A. Tolstikhina and senior

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24(8) PHASE I BOOK EXPLOITATION SOV/1826

Akademiya nauk SSSR. Energeticheskiy institut

Teploperedacha i teplovoye modelirovaniye (Heat Transfer and Modeling of Heat Processes) Moscow, Izd-vo AN SSSR, 1959. 419 p. Errata slip inserted. 3,500 copies printed.

Resp. Ed.: M. A. Mikheyev, Academician; Ed. of Publishing House: D. A. Ivanova; Tech. Ed.: G. N. Shevchenko.

PURPOSE: The book is intended for scientists concerned with heat transfer, heat emission, and hydraulics of liquid metals, etc.

COVERAGE: This collection is dedicated to the memory of Academician M. V. Kirpichev who in the twenties initiated a systematic investigation of heat transfer processes and the efficiency of heat apparatus. Later he led the development of research work in this field. Two special collections devoted to works of Kirpichev's school have been published, one in 1938, Materialy soveshchaniya po modelirovaniya (Materials of the Conference on Modeling) and in 1951, Teoriya podobiya i modelirovaniye (Theory of Similitude and Modeling). The present collection prepared in 1956 represents further development of the work of this school. This theory is fundamental for the analysis of many heat problems in the field of electrical and radio engineering. Of great importance are the first systematic investigations of heat transfer and the hydraulics of liquid metals which as a new kind of heat carrier may be used in the various branches of modern engineering. As a result of special investigations of some cases of convective heat transfer, a dependence of the process on the kind of liquid, temperature, pressure, direction of the heat flow, and other factors, was discovered and established. On the basis of a wide generalization of experimental data, new dependable recommendations for heat analysis of engineering equipment were developed. Of no less interest is the work on heat transmission in boiling liquids and the condensation of vapors. All investigations are based on the theory of similitude, the nature of which, according to M. V. Kirpichev, is that of "experimentation." Work on the theory of a regular regime applied to a system of bodies with an internal source of heat is of interest for the future.

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Mikheyeva, I. M. Heat Transfer in Free Motion of Various Fluids 226
This article is concerned with the process and mechanism of heat transfer as related to the physical properties of fluids and to the temperature, temperature pressure, and direction of heat flow. A horizontal pipe of 30mm. diameter and working media of air, water, and two kinds of converter oil were chosen for investigation. There are 11 references: 7 Soviet, 1 English, and 3 German.

Averin, Ye. K., and G. N. Kruzhilin. Heat Transfer in Boiling Water in Forced Circulation 239
It is stated that in one type of future atomic reactor, boiling water will be used for cooling heat-producing elements. The practical application of this principle is difficult and has its limitations. In this connection tests were made in order to determine the admissible (critical) heat loads in the flow of boiling water in slit conduits. The method is described and results of tests and tables of values are given. There are 5 references: 4 Soviet and 1 English.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SOV/96-59-5-5/19

AUTHORS: Arsen'yev, Yu.D., Candidate of Technical Sciences and Averin, Ye.K., Candidate of Technical Sciences

TITLE: The Approximate Determination of the Optimum Cycle for Two-Circuit Atomic Power Stations (O priblizhennom opredelenii optimal'nogo tsikla dvukhkonturnykh atomnykh stantsiy)

PERIODICAL: Teploenergetika, 1959, Nr 5, pp 29-33 (USSR)

ABSTRACT: This is a theoretical article on determining which intermediate temperature in two-circuit atomic power stations gives the lowest cost. Once the maximum and minimum temperatures of the overall cycle are fixed there is only one intermediate temperature that gives the highest thermal efficiency in two-circuit system. In actual power stations the practical engineering possibilities in building reactors and other economic considerations, usually over-ride the thermal efficiency. It is, therefore, quite a complicated matter to determine the best intermediate temperature and a number of simplifying assumptions are usually made. For instance, if the cost of fuel is not included the power costs least when the maximum amount is generated, which happens with

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The Approximate Determination of the Optimum Cycle for Two-Circuit Atomic Power Stations

the temperature given by Expression (1). This expression has been derived by a number of Soviet and foreign authors. There has been some dispute about the correct definition of the maximum temperature: it should, of course, be the surface temperature of the protective tubes round the fuel elements. Formulae are then derived for the cost of electric power, with allowances for the deterioration and for repair of the reactor, the biological shielding, the auxiliary equipment for the reactor and the remaining conventional equipment of the power station. The effects on costs of unit size of set, steam conditions and the like are also considered. Expression (4) is then derived for the intermediate temperature that gives the lowest cost. However, despite the simplifying assumptions that have been made, the expression can only be solved by the method of successive approximations. This happens because the component corresponding to reactor cost is itself a function of the output and the intermediate temperature.

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The Approximate Determination of the Optimum Cycle for Two-Circuit Atomic Power Stations

Hence, for approximate determination of the intermediate temperature, it is best to make use of the relative fuel cost and the relative reactor component, as given in Expression (5). When the appropriate substitutions are made, expression (6) is derived and gives the intermediate temperature in more convenient form when used in conjunction with expression (6a). In deriving the formulae it has been assumed that the fuel cost per kilowatt hour of thermal output of the reactor is constant, whereas when enriched uranium fuel is used it depends considerably on the thermal output. This question is considered in somewhat more detail. The decrease in fuel cost with increase in thermal output of the station is characteristic of atomic power stations. It results from the increased amount of energy that is released per unit volume of active zone in a given time. Large errors can arise if this point is not watched when Eq (6) is used. Other assumptions are also made in the derivation of Eq (6); for example, it is supposed that the minimum temperature difference in the steam generator between

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The Approximate Determination of the Optimum Cycle for Two-Circuit Atomic Power Stations

the heat transfer medium and the working substance is always positive. It is, therefore, of interest to examine how far Eq (6) corresponds to the operating data from actual stations that have been designed on the basis of detailed examination. Intermediate temperature and thermal efficiency calculated from Eq (6) for a number of practical conditions are plotted in Fig 2, which also includes points calculated from the data given in Table 1 for a number of Soviet and foreign power stations. In practical stations when the fuel costs are high, the intermediate temperature and the efficiency are made high. The opposite circumstance occurs when the station is intended mainly to produce plutonium. Changes in the thermal output of a reactor, the thermal efficiency, the electrical output and the increase in power cost as functions of the cycle temperature are graphed in Fig 3. It is concluded that although a number of simplifying assumptions are made in deriving Eq (6), the resulting curves in Fig 2 correspond reasonably closely to data for

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The Approximate Determination of the Optimum Cycle for Two-Circuit Atomic Power Stations

existing atomic power stations. The equation is, therefore, suitable for approximate calculations of the thermal circuit parameters. Finally examples are given to illustrate the approximate choice of the best cycle in atomic power stations and it is concluded that by use of Eq (6) it is quite simple to analyse the influence of individual components of the power cost. Such analysis is of considerable interest in examining the future development of thermal cycles in atomic power stations. There are 3 figures, 1 table and 15 references, 9 of which are Soviet, 1 French and 5 English or translations to Russian from English.

ASSOCIATION: Energeticheskiy Institut AN SSSR (The Power Institute, Academy of Sciences, USSR)

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85461

S/089/60/009/002/016/019/XX
B006/B059

26.1310

AUTHORS: Arsen'yev, Yu. D., Averin, Ye. K.

TITLE: The Problem of Determining the Optimum Thermal Cycle in Nuclear Power Plants by Approximation

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 2, pp. 133 - 134

TEXT: The authors of the present "Letter to the Editor" discuss problems arising in the calculation of the best thermodynamic cycle corresponding to the lowest costs of electric energy, as well as the difficulties of an exact calculation. They particularly refer to similar work done by D. D. Kalafati (Refs. 1-4) discussing it and criticizing the results. In Ref. 1, the postulate that costs of electric energy be a minimum led to equation (1) for the mean temperature of the working substance: $T_{1c}^{m.opt} = \sqrt{T_p^{max} T_{2c}/(1-z)}$; T_p^{max} denotes the maximum temperature on the wall (T_w) of the fuel element; T_{2c} denotes the condenser temperature (T_{con}); $z = \eta_t$. For inexpensive fuel, z may be set equal to zero, and equation (1)

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The Problem of Determining the Optimum Thermal Cycle in Nuclear Power Plants by Approximation

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B006/B059

then reads as follows: $T_{1c}^{n.opt} = \sqrt{T_p^{max} T_{con}}$ (2). In Ref. 1, either the wall temperature (T_w) or the temperature in the center of the fuel element (T_{cen}) was substituted for T_p^{max}. In the present article, it is shown that in (1) and (2) T_{cen} and T_p^{max} cannot be equated if plane or cylindrical fuel elements are considered. Proof is given and discussed in detail. The second section of the article briefly points out that equations (1) and (2) in Refs. 1 and 2 are applied to both cycles with and without regenerative preheating of the water. This leads to the wrong conclusion that a cycle with regenerative heating has the higher efficiency. In the third section, the authors briefly discuss the use of equations (1) and (2) to calculate the cycles of boiling-water reactor power plants; and in the last section, they criticize the fact that in Refs. 1-4 the influence of changes in electric power or of the parameters of the steam conveyed to the turbine on costs was not considered. Problems of investment and operating costs are discussed, and the equations derived in

Card 2/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

85461

The Problem of Determining the Optimum Thermal Cycle in Nuclear Power Plants by Approximation

S/089/60/009/002/016/019/XX
B006/B059

Refs. 1-4 are said to be of minor importance. There are 1 figure and 4 Soviet references.

SUBMITTED: March 24, 1960

Card 3/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Ye.K.

Soluble glass production practices. Sbor. trud. BITM no.22: 37-40 '64. (MIRA 18:6)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.A., inzh.; OLI'SHKOV, Ye.F., inzh.; KARYAKIN, R.N., inzh.

Investigating the power factor of a.c. electric traction systems used in rectifier electric locomotives. Trudy TSNII MPS no.156:33-48 '58. (MIRA 11:8)
(Electric locomotives) (Mercury-arc rectifiers)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.A., inzh.; KARYAKIN, R.N. inzh.; PANIN, A.P., inzh.

Results of experimental determination of the spectral composition of initial currents used in rectifier electric locomotives. Trudy TSNII MPS no.156:49-57 '58. (MIRA 11:8)
(Electric locomotives)
(Mercury-arc rectifiers)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.A.

Age relation between porphyrite dikes and ore veins in the Chadak deposit in the Uzbek S.S.R. Uzv.geol.zhur. no.1:27-37 '60. (MIRA 13:6)

1. Uzglavgeologiya
(Chadak region (Uzbekistan)--Geology)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.A.

Genesis of Chada veined skarns and carbonates. Uzb. geol. zhur. no.6:32-40 '60. (MIRA 14:1)

1. Sredneaziatskiy politekhnicheskiy institut.
(Chada region—Skarns)
(Chada region—Rocks, Carbonate)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.A.

Metallogenic characteristics of gold-ore deposits in the eastern Kurama Range. Uzb.geol.zhur. 6 no.2:33-37 '62. (MIRA 15:4)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent.
(Kurama Range—Gold ores)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.A.

Morphology of ore bodies in low-temperature gold deposits. Uch. zap. SAIGIMSa no.7:149-152 '62. (MIRA 17:2)

1. Srednеaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, YU. V.

Averin, Yu. V. "The stone woodcock of Eastern Kamchatka", Okhrana prirody, 1948, No. 5, p. 12-16.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.V.

Zoogeographical survey of Kamchatka [with summary in English]. Biul.MOIP. Otd.biol. 62 no.5:29-37 S-O '57. (MIRA 10:11)
(KAMCHATKA--BIRDS--GEOGRAPHICAL DISTRIBUTION)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AV[illegible], [illegible].V., Dac[illegible] Sci--([illegible]) "Birds of the [illegible] Pain-[illegible]." Lon, 19[illegible]. [illegible] with schematic drawings (Acad Sci USSR. Zoological Inst), [illegible] copies ([illegible],[illegible]-[illegible],[illegible])

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yu.V., doktor biologicheskikh nauk

Some changes in the composition of the game fauna of Moldavia during past centuries. Okhr.prir.Mold. no.1:125-132 '60.
(MIRA 15:2)

(Moldavia--Game and game birds)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

PRINTS, Ya.I., otv. red.; AVERIN, Yu.V., doktor biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; KARYAKINA, I.I., red.; LEDVICH, M.M., tekhn. red.

[Problems in the ecology and economic importance of terrestrial fauna] Voprosy ekologii i khoziaistvennogo znacheniia nazemnoi fauny. Kishinev, Izd-vo "Shtiintsa," 1961. 83 p. (MIRA 15:7)

1. Akademiya nauk Moldavskoy SSR. Institut zoologii. 2. Deystvitel'nyy chlen Akademii nauk Moldavskoy SSR (for Prints).
(Moldavia--Zoology, Economic)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERIN, Yuriy Viktorovich, doktor biol. nauk; LOZAN, Mina Nikolayevich; ROZINSKIY, Shmil' Abramovich; KHACITONONA, A.A., red.; PLENTSKOVSKIY, V.L., tekhn. red.

[Harmful rodents in Moldavia and measures for their control] Vrednye gryzuny Moldavii i mery bor'by s nimi. Pod red. IU.V. Averina. Kishinev, Izd-vo "Shtiintsa," 1962. 66 p. (MIRA 15:10)

(Moldavia--Rodent control)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

PRINTS, Ya.I., otv. red.; AVERIN, Yu.V., doktor biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; KARYAKINA, I.I., red.; POLONSKIY, S.A., tekhn. red.

[Problems of the ecology and practical value of birds and mammals in Moldavia]Voprosy ekologii i prakticheskogo znacheniia ptits i mlekopitaiushchikh Moldavii. Kishinev, Izd-vo "Shtiintsa" Akad. nauk Moldavskoi SSR, 1962. 86 p.
(MIRA 16:1)

1. Akademiya nauk Moldavskoy SSR. Institut zoologii. 2. Deystvitel'nyy chlen Akademii nauk Moldavskoy SSR (for Prints).
(Moldavia--Birds) (Moldavia--Mammals)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SPASSKIY, A.A., otv. red.; YAROSHENKO, M.F., red.; MARITS, A.M., kand. biol. nauk, red.; AVERIN, Yu.V., doktor biol. nauk, red.; PRINTS, Ya.I., red.; KORYAKINA, I., red.

[Papers on neurophysiology] Sbornik po neirofiziologii. Kishinev, Kartia Moldovenieske, 1963. 99 p. (MIRA 17:6)

1. Akademiya nauk Moldavskoy SSR. Institut zoologii. 2. Deystvitel'nyy chlen AN Moldavskoy SSR (for Spasskiy, Prints). 3. Chlen-korrespondent AN Moldavskoy SSR (for Yaroshenko).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

PRINTS, Ya.I., otv. red.; AVERIN, Yu.V., doktor biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; KORYAKINA, I.I., red.

[Injurious entomofauna of Moldavia and measures for its control] Vrednaia entomofauna Moldavii i mery bor'by s nei. Kishinev, Kartia moldoveniaske, 1963. 108 p. (MIRA 17:8)

1. Akademiya nauk Moldavskoy SSR. Institut zoologii.
2. Deystvitel'nyy chlen AN Moldavskoy SSR (for Prints).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SPASSKIY, A.A., doktor biol. nauk, akademik, otv. red.; YAROSHENKO, M.F., doktor biol. nauk, red.; AVERIN, Yu.V., doktor biol. nauk, red.; KUZNETSOVA, E., red.

[Animal and plant parasites of Moldavia] Parazity zhivotnykh i rastenii Moldavii. Kishinev, Kartia moldoveniaske, 1963. 131 p. (MIRA 17:10)

1. Akademiya nauk Moldavskoy SSR. Institut zoologii. 2. Akademiya nauk Moldavskoy SSR (for Spasskiy). 3. Chlen-korrespondent AN Mold.SSR (for Yaroshenko).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SPASSKIY, A.A., otv. red.; AVERIN, Yu.V., doktor biol. nauk, red.; VERINA, V.N., red.; KRUPENIKOV, I.A., kand. geol.-miner. nauk, red.; ODUD, A.L., kand. geogr. nauk, red.; POKROVSKIY, V.S., kand. biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; SHAPOSHNIKOV, L.K., kand. biol. nauk, red.; POSAZHENIKOVA, Ye., red.

[Transactions of the Fifth All-Union Conference on the Conservation of Nature] Trudy Vsesoiuznogo soveshchaniia po okhrane prirody. 5th. Kishinev, Kartia moldoveniaske, 1963. 267 p. (MIRA 17:11)

1. Vsesoyuznoye soveshchaniye po okhrane prirody. 5th, Kishinev, 1962. 2. Predsedatel' Komissii po okhrane prirody AN Moldavskoy SSR (for Odud). 3. Starshiy nauchnyy sotrudnik Komissii po okhrane prirody pri Gosplane SSSR (for Pokrovskiy). 4. Vitse-prezident AN Moldavskoy SSR. Deystvitel'nyy chlen AN Mold.SSR (for Spasskiy). 5. Zaveduyushchiy laboratoriyey pochvovedeniya Instituta pochvovedeniya i agrokhimii im. N.A.Dimo (for Krupenkov). 6. Institut zoologii AN Moldavskoy SSSR (for Averin).

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

3916
S/120/62/000/003/030/048
E032/E114

26-7315

AUTHOR: Averina, A.P.

TITLE: The use of an omegatron for the measurement of partial pressures in high vacuum systems

PERIODICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 123-127

TEXT: The author has investigated the PMO-4C (RMO-4S) omegatron, the design of which was similar to that described by D. Alpert and R.S. Buritz (J. Appl. Phys., 25, 1954, 202). The RMO-4S has an additional diaphragm under the cathode (0.3 mm diameter) through which the electron beam enters the working chamber of the omegatron. The apertures through which the electron beam passes in the analyzer are 1 mm in diameter. Owing to this construction the electron beam does not enter the analyzer circuit when the omegatron is properly aligned in the magnetic field. A schematic drawing of the device is shown in Fig.2 (1, 2 - cathode; 3 - cathode diaphragm; 4 - analyzer; 5 - electron collector; 6 - high frequency plate; 7 - ion collector). Special high tension supplies were employed to stabilize the electron beam to better than 0,5%. Omegatrons

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very similar to the RMO-4S have been described in detail by A.G. Edwards (Brit.J.Appl.Phys., 6, 1956, 44) and D.S. Stark (Vacuum, 9, 1959-1960, 288). Measurements have shown that the RMO-4S is capable of producing quantitative results at maximum sensitivity. This is in agreement with the results reported by Alpert and Buritz, who showed that the sensitivity of an omegatron should be of the same order of magnitude as that of an ionization gauge. Calibration of 50 omegatrons using pure helium showed that the average spread in the sensitivity of the RMO-4S omegatrons is less than 10%. The sensitivity to nitrogen is 10 mm Hg/cm. Partial pressures can be measured to better than 20% without special calibration. In a magnetic field of 3 kOe the omegatron was found to resolve all ion peaks up to mass number 20. There are 5 figures and 1 table.

SUBMITTED: November 29, 1961

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

ACC NR: AP6030143 (A) SOURCE CODE: UR/0120/66/000/004/0132/0137

AUTHORS: Averina, A. P.; Vinogradov, [illegible] I.; Grinchenko, T. G.

ORG: none

TITLE: Electric mass filter as a gas analyzer in vacuum systems

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 132-137

TOPIC TAGS: vacuum gas analyzer, laboratory instrument, mass spectrum, mass filter, gas filter/ EFM-1 mass filter

ABSTRACT: The construction and operation details of an electric mass filter EFM-1 are described. The filter is used to control gas composition in vacuum systems over a pressure range of 10^{-3} to 10^{-8} torr. The block-schematic of the system is shown. It consists of a power supply system, a counter, an input cascade to the electrometric amplifier to measure ion currents, an electrometric amplifier, a potentiometer, and a high frequency generator. The generator has a variable voltage output at 3 Mc. It is stabilized by means of a ferro-resonance stabilizer to reduce variations in the voltage to less than 1% for an input voltage variation of ±10%. The detailed circuit diagram of the generator is given. It consists of a master oscillator, an amplifier, a power supply, a linear detector, and a measuring system. The complete filter system is tested with a zone refining and molybdenum smelting equipment. Spectrometric data

UDC: 621.384.8

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

ACC NR: AP6030143

are obtained for the constituent gases, and it is shown that the resolving power for the equipment is 50 and that the atomic mass range is 1--50. The authors thank S. I. Gendelya for taking part in the construction and preparation of the counter, and express their gratitude to I. A. Baranov and V. F.Gruzdev for their influence on the work and their help for organizing the test equipment. Orig. art. has: 9 figures.

SUB CODE: 14, 09/ SUBM DATE: 17Feb65/ ORIG REF: 002/ OTH REF: 007

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, A.P.; LEVINA, G.N.; LEPEKHINA, V.T.; RAFAL'SON, A.E.

Omegatron mass-spectrometer for analyzing residual gases in high-vaccum systems. Prib. i tekh. eksp. 9 no.2: 121-125 Mr-Ap'64. (MIRA 17:5)

1. Spetsial'noye konstruktorskoye byuro analiticheskogo priborostroyeniya AN SSSR.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

ACCESSION NR: AP4033128 S/0120/64/000/002/0121/0125

AUTHOR: Averina, A. P.; Levina, G. N.; Lepekhina, V. T.; Rafal'son, A. E.

TITLE: Omegatron mass spectrometer for analyzing residual gas in high-vacuum systems

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 121-125

TOPIC TAGS: spectrometer, mass spectrometer, residual gas, high vacuum technique, high vacuum electronic device

ABSTRACT: The development of a new MKh 4301 omegatron mass spectrometer is reported which consists of the following parts: (1) an analyzer; (2) a measuring unit that includes an h-f oscillator, a cathode-ray-tube recording unit, sweep amplifiers, an ion-current amplifier, and a power-supply unit; (3) an electrometric stage of the ion amplifier; (4) a permanent magnet; (5) a permanent-magnet adjuster; and (6) a chassis with a lifting mechanism. The

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

ACCESSION NR: AP4033128

spectrometer has the following characteristics: measurement range, 2-150 atomic mass units (amu); sensitivity, 10 per torr; resolution, 25 per mass 25; pressure range, 10^{-5} — 10^{-10} torr; relative error in partial-pressure measurement, ± 10%; magnetic field strength, 3,300 oerst; duration of recording, 2, 5, and 10 sec for oscillographic screen, or 3 and 30 min for EPP-09 electron-potentiometer tape; frequency bands of the oscillator, 30-480 kc for manual sweep, or 30-2,800 kc for automatic sweep. Other details given. Orig. art. has: 5 figures and 3 formulas.

ASSOCIATION: SKB Analiticheskogo priborostroyeniya AN SSSR (Special Design Office for Analytical Instruments, AN SSSR)

SUBMITTED: 06May63 DATE ACQ: 11May64 ENCL: 00

SUB CODE: PH, GE NO REF SOV: 001 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

L 00061-66

ACCESSION NR: AP5021322 UR/0120/65/000/004/0005/0013
621.384.8

AUTHOR: Averina, A. P.; Linnik, L. N.; Nikitina, G. I.

TITLE: Mass spectrometry for the determination of partial pressures in vacuum systems

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 5-13

TOPIC TAGS: mass spectrometer, spectrometer, electrical filter, electric measuring instrument

ABSTRACT: This survey paper based on 56 articles describes the omegatron, farvitron, radio-frequency mass spectrometer (topatron), time-of-flight mass spectrometer (chronotron), electrical mass filter, and cycloidal mass spectrometer. The paper presents the basic characteristics of these devices, their merits, and their shortcomings. Orig. art. has: 5 formulas, 12 figures, and 1 table.

ASSOCIATION: None

SUBMITTED: 07Sep64 ENCL: 00 SUB CODE: CP, EE

NO REF SOV: 009 OTHER: 047

Card 1/1

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, A.P.

Spurious peaks in the omegatron mass-spectrum. Prib. i tekh.eksp. 10 no.5:174-177 S-O '65.

1. Submitted August 27, 1964. (MIRA 19:1)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

BELYAYEVA, A.I.; AVERINA, I.A.

Determination of pyridoxine by the microbiological method.
Lab.delo 7 no.7:22-23 Jl '61. (MIRA 14:6)

1. Kafedra propedevticheskoy terapii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.
(PYRIDOXINE)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, I.A.

Some data on the qualitative composition, the quantity and the distribution of phytoplankton off the western shores of Africa in the spring and summer of 1960. Trudy Azchernirо no.20: 17-24 '62. (MIRA 16:4)

(Atlantic Ocean—Phytoplankton)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

ACCESSION NR: AP4031446 S/0016/64/000/004/0070/0073

AUTHOR: Mitol'man, P. M.; Averina, I. V.; Tomenko, Ye. K.; Verezub, L. G.; Dobzhinskaya, M. G.; Khodorova, Z. G.; Altuyeva, Ye. G.

TITLE: Reactogenic nature and immunological efficacy of a new sorbed soluble diphtheria-pertussis-tetanus vaccine

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 4, 1964, 70-73

TOPIC TAGS: diphtheria-pertussis-tetanus vaccine, sorbed soluble D.P.T. vaccine, soluble pertussis antigen, reduced D.P.T. reaction, D.P.T. immunological efficacy, body temperature change, blood serum titer

ABSTRACT: A new sorbed soluble diphtheria-pertussis-tetanus vaccine containing a soluble pertussis antigen, instead of a corpuscular one, has been developed to reduce reactions to D.P.T. inoculations. A group of children was investigated to find reaction intensity and immunological efficacy of the new vaccine. All children were examined by a pediatrician before immunization and temperature was taken for two days before each of three inoculations. Findings show that the

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ACCESSION NR: AP4031446

new vaccine does not produce any strong reactions as found in 1 to 4.3% cases immunized with vaccines containing corpuscular pertussis antigens. Moderately severe temperature reactions were found in only 1.9 to 2.1% cases compared to 7 to 15% cases for nonsorbed vaccines. Body temperature increases ranging from 37.1 to 37.5°C were found in 32% after 1st inoculation, 26.1% after the 2nd inoculation, and 19.3% after the 3d inoculation. Weak local reactions in the form of a quickly disappearing hyperemia were found in 26 to 32.2%. Blood serum titers of pertussin agglutinins, diphtheria antitoxin, and tetanus toxoid as well as Schick reaction tests all demonstrate the high immunological efficacy of the new D.P.T. vaccine. Orig. art. has: 3 tables.

ASSOCIATION: Khar'kovskiy institut vaksin i sy*vorotok im. Mechnikova (Kharkov Institute of Vaccines and Serums)

SUBMITTED: 01Jun63

SUB CODE: LS NR REF SOV: 000 ENCL: 00 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, L.A.; BORISOV, K.N., kand.tekhn.nauk; RODINA, N.M.

Plotting mechanical characteristics of an electric motor according to the results of the high-speed motion-picture photography of its starting. Trudy MAI no.145:46-49 '62. (MIRA 15:9)

(Electric motors--Testing)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

L 20818-65 EWT(1)/EWP(m)/EWG(v)/FCS(k)/EWA(h)/EWA(1) Pd-1/Pe-5/Pi-4

AUTHOR: Zaytsev, S. G.; Shatilov, A. P.; Lazareva, Ye. V.; Trukhanova, I. N.; [illegible]; Vaichkov, M. K.

TITLE: Methods for measuring the density field of gas flow in a shock tube with the aid of an interferometer

SOURCE: AN SSSR. Energeticheskiy institut. Fizicheskaya gazodinamika i svoystva gazov pri vy*sokikh temperaturakh (Physical gas dynamics and properties of gases at high temperatures). Moscow, Izd-vo Nauka, 1964, 104-114

TOPIC TAGS: gas dynamics, gas density measurement, shock wave, shock tube, interferometry, nitrogen shock wave

ABSTRACT: The paper deals with techniques for interferometric studies of shock waves in a tube. The lengths of the high and low pressure tubes are 0.9 and 3.4 m [illegible] the internal cross section is 72 x 72 mm, and the side-walls of the end-section are made of accurately (0.2 band over the entire field) plane-parallel glass. A description of the electronic details for recording, synchronization, etc. is then given. A Mach-Zehnder [illegible] length, by point and line-discharges of a capacitor charge to 10 kV. The scanning

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L 20818-65

ACCESSION NR: AT4048013

method allowed continuous density measurement at a fixed plan with spatial

[illegible] at reflected shocks as a function of the M[illegible] nitrogen with an initial pressure of 10 mm Hg and a temperature of [illegible] [illegible] figures and 5 equations

ASSOCIATION: Energeticheskiy institut AN SSSR (Power Engineering Institute AN SSSR)

SUBMITTED: 06Mar64 ENCL: 00 SUB CODE: ME

NO REF SOV: 006 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, L.I.

Varieties of strawberries developed abroad. Kons. i ov. prom. 13 no.4:37-40 Ap '58. (MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.
(Strawberries--Varieties)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, L.I.; PONOMARENKO, S.F.

Growing high-quality strawberry planting stock. Kons. i ov. prom. 14 no.5:31-33 My '59. (MIRA 12:6)

1.Moskovskoye otdeleniye instituta rasteniyevodstva (for Averina).
2.Sovkhoz "Bogucharovo" Tul'skoy oblasti (for Ponomarenko).
(Strawberries)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

KRIVIN, B.G.; AVERINA, L.I.

Virus diseases of strawberries and the procedure for freeing seedlings of infection. Kons. i ov. prom. 14 no.8:31-35 Ag '59. (MIRA 12:9)

1.Moskovskoye otdeleniye Vsesoyuznogo instituta rasteniyevodstva.
(Strawberries--Diseases and pests)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

TELYATNIKOVA, G.N., kand. sel'skokhoz. nauk; AVERINA, L.I.

Growing strawberry transplants on peat-humus beds. Dokl. Akad. sel'khoz. 24 no.7:22-28 '59. (MIRA 1[illegible].10)

1.Nauchno-issledovatel'skiy institut konservnoy promyshlennosti. Predstavlena akademikom M.A. Lisavenko.
(Strawberries)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, L. I.

Some biological characteristics of foreign varieties of strawberries. Kons.i ov.prom. 15 no.4:31-35 Ap '60.
(MIRA 13:6)
1. TSentral'nyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.
(Strawberry—Varieties)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, L.I.

Chemical and technological testing of foreign strawberry varieties. Kons.i ov.prom. 15 no.5:30-32 My '60. (MIRA 13:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.
(Strawberries--Varieties)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, L.I.

"An Agrobiological and Technical Study of Varieties of Strawberry of Foreign Breeding;"

dissertation for the degree of Candidate of Agricultural Sciences (awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2, 1963, pp 232-236)

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L 17778-63
RM/WW/MAY

EPR/EWP(j)/EPF(c)/EWT(m)/BDS AFFTC/ASD Ps-4/Pc-4/Pr-4

ACCESSION NR: AP3005854

S/0051/63/015/002/0274/0280 76 72

AUTHOR: Averina, L.N.; Kerner, B.I.; Nikulina, R.A.; Sokolovskaya, T.I.; Tsirlin, Yu.A.

TITLE: Light collection in scintillators

SOURCE: Optika i spektroskopiya, v.15, no.2, 1963, 274-280

TOPIC TAGS: scintillator, light collection, scintillator design

ABSTRACT: Expressions are derived for the light collecting coefficient τ of a cylindrical scintillator with polished surfaces and no packaging. The light-collecting coefficient is defined as the ratio of the radiant energy emerging through one face of the scintillator and entering the photomultiplier to the total energy produced by the scintillations in the volume of the scintillator with an absorption coefficient k and an index of refraction n. Knowledge of τ is obviously important for designing efficient scintillators and evaluating their overall efficiency. Fresnel reflection from the glass face of the photomultiplier tube is taken into account (reflections from the top and bottom ends of the cylinder compensate each other). The results of calculations by means of the deduced formulas were compared with experiment in two ways: 1) modelling, using a plexiglas cup filled with

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, M,

Effect of credit on the introduction of modern technology in heavy industry. Den. i kred. 13 no.11:43-46 N '55. (MLRA 9:2)
(Credit) (Russia--Industries)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

BYTOVA, A.; AVERINA, M.

From the practice of a leading branch. Den. i kred. 15 no.10: 55-60 O '57. (MIRA 10:10)
(Sverdlov--Banks and banking)

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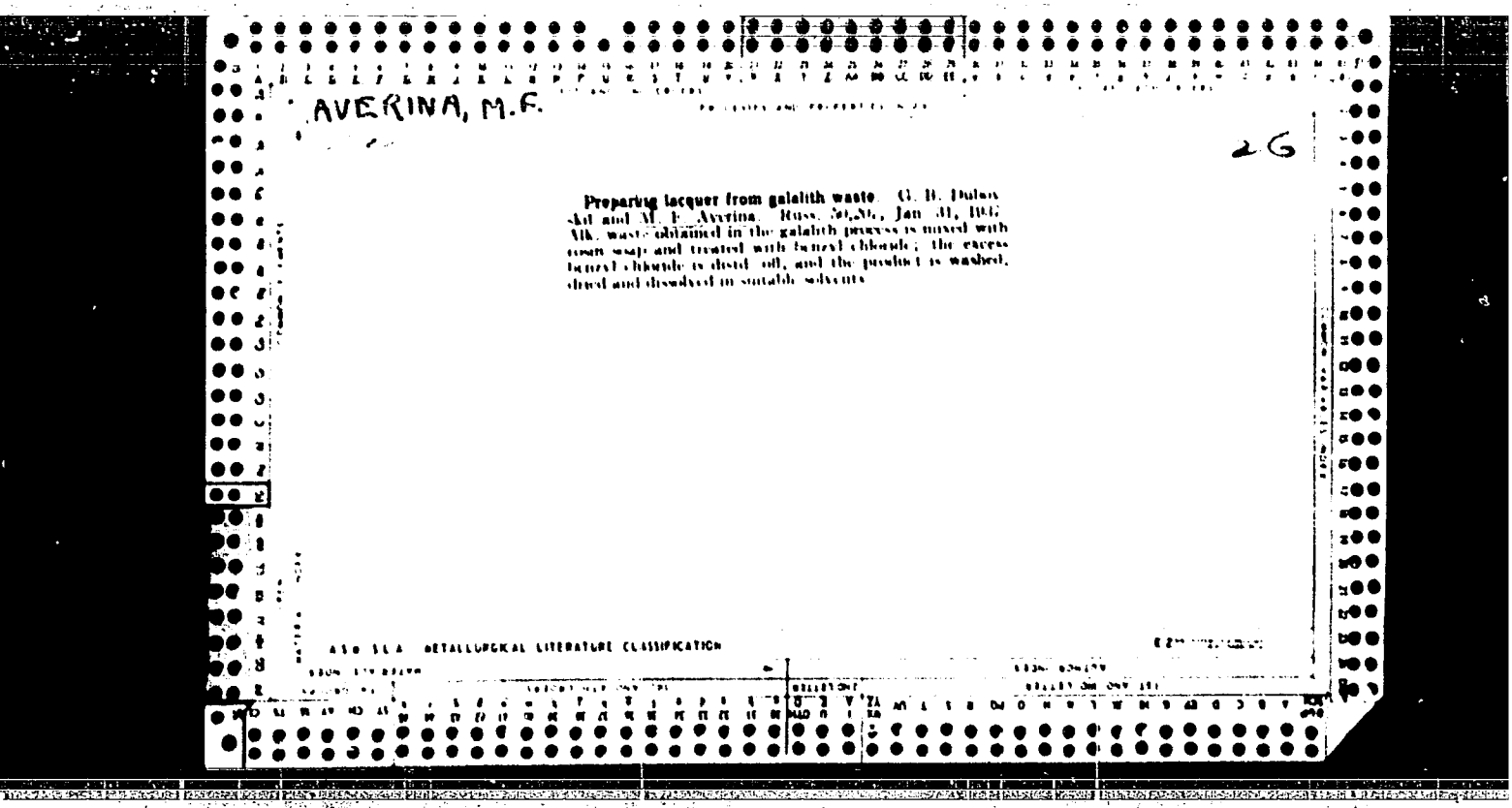

AVERINA, M.F.

26

Preparing lacquer from galalith waste. G. B. Dubovskii and M. F. Averina. Russ. 50,[illegible], Jan. 31, 193[illegible]. Alk. waste obtained in the galalith process is mixed with rosin soap and treated with benzyl chloride; the excess benzyl chloride is distd. off, and the product is washed, dried and dissolved in suitable solvents.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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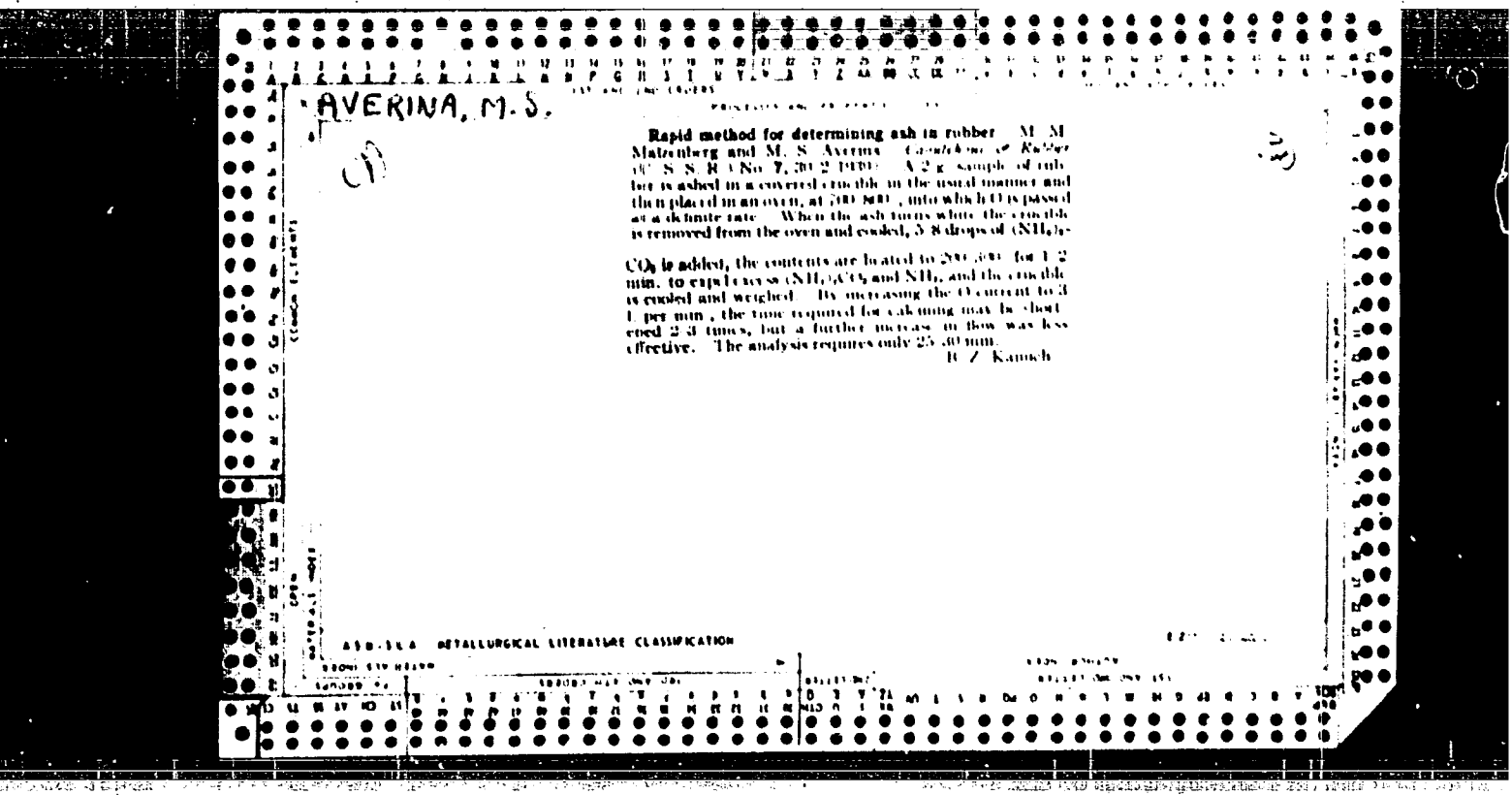

AVERINA, M. S.

Rapid method for determining ash in rubber. M. M. Matzenberg and M. S. Averina. *Caoutchouc & Rubber* (U. S. S. R.) No. 7, 30-2 1939. A 2 g. sample of rubber is ashed in a covered crucible in the usual manner and then placed in an oven, at 700-800°, into which O is passed at a definite rate. When the ash turns white the crucible is removed from the oven and cooled, 5-8 drops of $(NH_4)_2CO_3$ is added, the contents are heated to 200-300° for 1-2 min. to expel excess $(NH_4)_2CO_3$ and NH_3, and the crucible is cooled and weighed. By increasing the O current to 3 l. per min., the time required for calcining may be shortened 2-3 times, but a further increase in flow was less effective. The analysis requires only 25-30 min.

B. Z. Kamich

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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AVERINA, M.S.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

FRIDLYANDER, I.N.; ROMANOVA, O.A.; ARCHAKOVA, Z.N.; GUR'YEV, I.I.; DRONOVA, N.P.; PETROVA, A.A.; BYCHKOVA, Z.S.; Prinimali uchastiye: FOMIN, K.N.; LEBEDEVA, N.S.; REZNIK, P.G.; AVERKINA, N.; ZHELTOVSKAYA, L.S.; VOROB'YEV, Yu.A.; TYURIN, N.N.

Manufacture and investigation of semifinished products from high-strength and heat-resistant VAD23 aluminum alloys. Alium. splavy no.3:194-200 '64. (MIRA 17:6)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SPIRO, M.S.; AVERINA, M.S.

Chemical composition and properties of coals in the Aldano-Chul'man region of the South-Yakutsk Basin. Uch. zap. NIIGA. Reg. geol. no.4:150-166 '64. (MIRA 18:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

KUSAKIN, N.D.; VYATKIN, S.Ye.; AVERINA, M.V.

Structural modifications of carbon material in petroleum pyrolysis cokes. TSvet.met. 38 no.10:59-62 O '65.
(MIRA 18:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

USSR/Human and Animal Physiology - Blood. Blood Coagulation. T-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, 84082

Author : Averina, N.I.

Inst : Kirgisian Institute of Medicine.

Title : Problems Pertaining to Mechanisms of Blood Clot Retraction.

Orig Pub : Tr. Kirg. med. in-t, 1956, 8, 291-293.

Abstract : No abstract.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, N.I., kand.med.nauk

Toxoplasmosis in a clinic for internal diseases. Sov.med. 25 no.1: 43-47 Ja '62. (MIRA 15:4)

1. Iz kafedry gospital'noy terapii (zav. - prof. R.Ya.Spivak) Luganskogo meditsinskogo instituta (dir. - dotsent F.D.Povelitsa).
(TOXOPLASMOSIS)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, N.I., kand.mod.nauk; KRAVCHENKO, C.A.; SKOROBOGAT'KO, P.A.

Vascular tone and capillary circulation during work in hot shops. Vrach. delo 4:150-152 Ap '62. (MIRA 15:5)

1. Kafedra gospital'noy terapii (zav. - prof. R.Ya.Spivak) Luganskogo meditsinskogo instituta.
(BLOOD--CIRCULATION) (HEAT--PHYSIOLOGICAL EFFECT)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

25(1); 25(1) PHASE I BOOK EXPLOITATION SOV/3133

Korroziya i zashchita stali; sbornik statey (Corrosion and Protection of Steel: Collection of Articles) Moscow, Metallurgizdat, 1959. 233 p. 7,000 copies printed.

Eds.: B.D. Tomashov, Doctor of Chemical Sciences, Professor; Reviewers: A.A. Zhukhovitskiy, Doctor of Chemical Science, Professor, and K.M. Pomerantsev, Docent; Ed. of Publishing House: Ye.G. Alekseyev; Tech. Ed.: E.M. Popova; Managing Ed. for Literature on Machine and Instrument Construction: B.V. Peterovskiy, Engineer.

PURPOSE: This book is intended for scientific and technical personnel concerned with questions of the corrosion and protection of metals.

COVERAGE: The articles in this collection deal with the corrosion of steels in corrosive environments, investigation of the effect of various factors on corrosion, and methods of protecting steels from gas and electrochemical corrosion. Special attention is given to new methods of investigation. A number of the articles give the results of studies made under operating conditions. New data, obtained by the Department of Metal Corrosion, Institute of Steel (Moscow Institute of Steel), are published here for the first time. Four articles are the result of work conducted jointly by the laboratories of the Rostovskiy metallurgicheskiy zavod "Sotsialisticheskaya Rekonstruktsiya" (Rostov Metallurgical Plant "Socialist Reconstruction") and the Rostovskiy-na-Donu filial N.I. Kalinina (Chemical Plant Named N.I. Kalinin). Most of the articles contain practical recommendations on the protection of metals from corrosion. No personalities are mentioned. References follow each article.

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Tomashov, N.D. Theory of Corrosion and Ways of Increasing Corrosion Resistance of Metallic Alloys 5

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Gerasimov, V.V. (Engineer). Effect of Oxides on the Gas Corrosion of Iron and Low-Resistant Steels 57

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[illegible] and P.A. Tolmachev, Candidate of Technical Sciences). Corrosion Resistance of Low-Alloy Steels 142

Tomashov, N.D., and A.A. Lokhorina (Candidate of Technical Sciences). Electrochemical Investigation of Atmospheric Corrosion of Metals 156

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Tomashov, N.D., Yu.A. Shchigorev (Engineer), K.M. Antonovskaya (Engineer), and A.P. Nazvanova (Engineer). Resistivity of Stainless Steels 191

Markin, V.I. (Engineer), and V.A. Titov. Effect of Cermets Failure on the Corrosion Fatigue of Iron Wire 214

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

Vsesoyuznyy nauchno-issledovatel'skiy [illegible]

Nekhrupkost'kaliya korroziya i korrozionnaya [illegible]
(Intergranular corrosion and stress corrosion of metals) Moscow, Mashgiz, 1960.
358 p. 3,000 copies printed.

Ed.: I.N. Bogachev, Candidate of Technical Sciences; Ed. of Publishing House: I.I. Lesnichenko, Engineer; Tech. Ed.: V.D. Kiritova; Managing Ed. for Literature on Metallurgical Equipment Making (Mashgiz): V.V. Rubtsovskiy, Engineer; Editorial Board: I.N. Bogachev, Candidate of Technical Sciences (Chairman), V.P. Batalov, Candidate of Technical Sciences, V.M. Blinov, Candidate of Technical Sciences, V.N. Gudtsov, Candidate of Technical Sciences, and A.V. Tumarkin, Candidate of Technical Sciences.

PURPOSE: This collection of articles is intended for technical personnel concerned with problems of corrosion of metals.

COVERAGE: The collection contains discussions of intergranular corrosion of stainless steels and stress corrosion of carbon steels, low-alloy and stainless steels, and light-weight and nonferrous alloys.

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SHEVCHUK, V.G.; AVERINA, E.A.

System lithium sulfate-beryllium sulfate-magnesium sulfate-water at 35 degrees Centigrade. Zhur. neorg. khim. 9 no.12:2764-2768 D '64. (MIRA 18:2)

1. Poltavskiy inzhenerno-stroitel'nyy institut, kafedra khimii.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SHEVCHUK, V.G.; AVERINA, R.A.

System Li_2SO_4 - $(NH_4)_2SO_4$ - $MgSO_4$ - H_2O at 25°C. Zhur.neorg.khim. 10 no.12:2824-2826 D '65. (MIRA 19:1)

1. Poltavskiy inzhenerno-stroitel'nyy institut, kafedra khimii.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

USSR / Pharmacology. Toxicology. Anticoagulants.

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 13887

Author : Averina, R.I.
Inst : -
Title : The Prothrombin Level and Blood Coagulation in Therapy With Salycilates.

Orig Pub : Klinich. meditsina, 1958, 36, No. 3, 33-38

Abstract : The study of blood coagulation in cardiac patients presents a real problem insofar as in rheumatic heart disease, especially in the presence of cardiac fibrillation, thrombo-embolic processes are very frequent. 75 patients were treated with salycilates; a group of the patients received, aside from this, the anticoagulants heparin, dicoumarin and phenyl-indandione. Therapeutic doses of salycilates did not induce a

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, R.I.

Charocteristics of the use of anticoagulants in rheumatic lesions of the heart. Sov.med. 25 no.5:18-23 My '62. (MIRA 15:8)

1. Iz 2-y kafedry terapii TSentral'nogo instituta usovershenstvovaniya vrachey (zav. - prof. B.Ye.Votchal) na baze bol'nitsy imeni S.P.Botkina (glavnyy vrach Yu.G.Antonov).
(ANTICOAGULANTS (MEDICINE) (RHEUMATIC HEART DISEASE)
(CORONARY HEART DISEASE)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVERINA, R.I.

Use of anticoagulants and salicylates in rheumatic heart disease.
Terap.arkh. 31 no.7:16-21 Jl '59. (MIRA 12:11)

1. Iz 2-y kafedry terapii (zav. - prof.B.Ye.Votchal) TSentral'nogo instituta usovershenstvovaniya vrachey na baze bol'nitsy imeni S.P.Botkina.
(RHEUMATIC HEART DISEASE therapy)
(ANTICOAGULANTS therapy)
(SALICYLATES therapy)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

VOTCHAL, B.Ye.; AVERINA, R.I. (Moskva)

Technic for anticoagulatn therapy. Klin.med. no.1:15-19 '62.
(MIRA 15:1)

(ANTICOAGULATNS (MEDICINE)—THERAPEUTIC USE)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

KOZ'MINA, Natal'ya Petrovna, doktor biolog. nauk, prof.; AVERINA, T.I., red.; SAVEL'YEVA, Z.A., tekhn. red.

[Grain and grain products] Zerno i produkty ego pererabotki. Moskva, Izd-vo tekhn. i ekon.lit-ry po voprosam zagotovok, 1961. 519 p. (MIRA 15:3)

(Grain)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

SINEL'SHCHIKOV, Vasiliy Illarionovich; MASHKOV, B.M., spets. red.; AVERINA, T.I., red.; SAVEL'YEVA, Z.A., tekhn. red.

[Conditions and procedure for receiving grain, legume seeds, and oilseeds from collective and state farms] Usloviia i poriadok priema zerna, semian bobovykh i maslichnykh kul'tur ot kolkhozov i sovkhozov. Moskva, Zagotizdat, 1963. 122 p. (MIRA 16:7)

(Grain trade) (Legumes) (Oilseeds)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

KOZ'MINA, Yevgeniya Petrovna, doktor tekhn.nauk, prof.;
AVERINA, T.I., doktor tekhn. nauk, prof., red.

[Technological characteristics of groats and pulse crops]
Tekhnologicheskie svoistva krupianykh i zernobobovykh kul'tur. Moskva, TSINTI GOSKOMZAGA, 1963. 293 p.
(MIRA 17:7)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

FASMAN, Vol'f Berkovich, dots., kand. tekhn. nauk; AVERINA, T.I., red.; SAVEL'YEVA, Z.A., tekhn. red.

[Operational design of a grain elevator] Operativnyi raschet raboty elevatora. Moskva, Zagotizdat, 1963. 84 p. (MIRA 16:10)

(Grain elevators)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

UGOLIK, Nikolay Fomich; BAVLI, Georgiy Samoylovich; AVERINA, T.I., red.; GOLUBKOVA, L.A., tekhn. red

[Analysis of technical standards and production operations of grain-processing enterprises] Analiz tekhnicheskogo urovnia i proizvodstvenno-khoziaistvennoi deiatel'nosti predpriiatii po pererabotke zerna. Moskva, TSinti, 1963. 209 p. (MIRA 17:2)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610004-7

AVRAMA, Ye.

Hydroelectric Power Stations

Harnessing the river. Mol. kolkh. 20, No. 4, 1953.

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AVERINA, Ye.P., kand.med.nauk

Treating cavitary pulmonary tuberculosis with tuberculin and antibacterials. Vrach.delo supplement '57:35 (MIRA 11:3)

1. Fakul'tetskaya terapevticheskaya klinika (zav.-prof. M.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta i Kuybyshevskiy gorodskoy protivotuberkuleznyy dispanser.
(TUBERCULOSIS)

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AVERINA Ye.P., kand.med.nauk (Kuybyshev)

Respiratory and vascular reflexes in tuberculosis. Klin.med. 36 no.12:52-56 D '58. (MIRA 12:6)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye.Kavetskiy) Kuybyshevskogo meditsinskogo instituta i Kuybyshevskogo gorodskogo protivotuberkuleznogo dispansera (glavnyy vrach M.D.Makarov).

(TUBERCULOSIS, physiol.
resp. & vasc. reflexes (Rus))

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AVERINA, Ye.P., kand.med.nauk

Indications for and methods of treating pulmonary tuberculosis with tuberculin and antibacterial preparations. Probl.tub. no.6:53-58 '61. (MIRA 14:9)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta (dir. - kand. med.nauk D.A. Voronov) i Kuybyshevskogo gorodskogo protivotuberkuleznogo dispansera (glavnyy vrach M.D. Makarov).
(TUBERCULIN)

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AVERINA, Ye.P., dotsent

Cholinesterase activity in tuberculosis and its changes during tuberculin therapy. Vrach.delo no.10:69-72 O '62. (MIRA 15:10)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - zasluzhennyy deyatel' nauki, prof. N.Ye.Kavetskiy) Kuybyshevskogo meditsinskogo instituta i Kuybyshevskiy gorodskoy protivotuberkuleznyy dispanser.
(CHOLINESTERASES) (TUBERCULOSIS) (TUBERCULIN)

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AVKRINA, Ye.P., kand.med. nauk

Study of the effectiveness of antituberculosis vaccination in young persons with a positive reactiion to tuberculin.
Kaz.med. zhur. no.2:15-18 Mr-Ap'63 (MIRA 16:11)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - prov. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.

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AVERINA, Ye.P.; BORKHOVETSKAYA, A.A.

Study of the propordin system in pulmonary tuberculosis.
Vrach. delo no.3:161-63 Mr '64. (MIRA 17:4)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - zasluzhennyy deyatel' nauki prof. N.Ye.Kavetskiy) Kuybyshevskogo meditsinskogo instituta i sanatoriy "Lesnoye" Kuybyshevskoy oblasti.

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