PETROV, Yefrem Mikhaylovich, kandidat sel'skokhozyaystvennykh nauk [deceased]; SEROVOV, V.I., redaktor; ZUBRILINA, Z.P., tekhnicheskiy redaktor

[Rowan] Rябина. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 150 p. (MLRA 10:10)
(Rowan)

OVSYANNIKOV, Igor' Vladimirovich; SERGEYEV, V.I., redaktor; ZUBRILINA, Z.P., tekhnicheskiy redaktor.

[Growing fruits indoors] Plodovye rasteniia v komnate. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1957. 109 p. (MLRA 10:4)
(Fruit culture) (House plants)

ZIN'KOVSKIY, Vasiliy Maksimovich; SERGEYEV, V.I., red.; ZUBRILINA, Z.P., tekhn.red.

[Indoor growing of citrus plants] Komnatnaia kul'tura tsitrosovykh rastenii. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 55 p. (MIRA 12:1)

(Citrus fruits)

GUTIYEV, Georgiy Timofeyevich; SERGEYEV, V.I., red.; ZUBRILINA, Z.P., tekhn.red.

[Subtropical fruit plants] Subtropicheskie plodovye rasteniia. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 222 p. (MIRA 12:5)
(Tropical fruit)

ROSSOSHANSKAYA, V.A.; SAVZDARG, V.E.; SERGEYEV, V.I., red.; GOR'KOVA, Z.D., tekhn.red.

[Concise reference manual for vegetable growers; for the central areas of the U.S.S.R.] Kratkii spravochnik ovoshchevoda; dlia srednei polosy SSSR. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 286 p. (MIRA 13:1)

(Vegetable growing)

SAGALOVICH, Ye.N.; SERGEYEV, V.I., red.; SOKOLOVA, N.N., tekhn.red.

[Growing vegetables under glass; achievements of science and progressive practices] Ovoshchevodstvo zashchishchennogo grunta; dostizheniia nauki i peredovoi opyt. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1958. 445 p. (MIRA 12:4)
(Vegetable gardening)

BLINOV, L.F., kand.sel'skokhozyaystvennykh nauk., SERGEYEV, V.I.,red.;
BALLOD, A.I., tekhn.red.

[Fruit growing; progressive practices and achievements of science]
Plodovodstvo; peredovoi opyt i dostizheniia nauki. Moskva, Gos.
izd-vo sel'khoz. lit-ry, 1958. 453 p. (MIRA 11:9)
(Fruit culture)

LORKH, Aleksandr Georgiyevich; SERGEYEV, V.I., red.; PROKOF'YEVA, L.N., tekhn.red.

[Potatoes] O kartofele. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 47 p. (MIRA 13:11)
(Potatoes)

AGAPOV, Andrey Fedorovich; MINENKOVA, V.I., red.; SERGEYEV, V.I., red.; ZUBRILINA, Z.P., tekhn. red.

[High tomato yields] Vysokie urozhai pomidorov. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1960. 117 p. (MIRA 14:5)
(Tomatoes)

FAVOROV, A.M.; IL'IN, V.F.; IL'YASHENKO, A.F.; NEMCHIN, F.I.; BALASHEV, N.N.; SERGEYEV, V.I., red.; PEVZNER, Ye.I., tekhn. red.

[Summer potato planting] Letnie posadki kartofelia. Moskva, Sel'khozgiz, 1961. 109 p. (MIRA 15:6)
(Potatoes)

LOBANOV, Gavril Alekseyevich, kand.sel'khoz.nauk; SERGEYEV, V.I., red.; DEYEVA, V.M., tekhn.red.; GOR'KOVA, Z.D., tekhn.red.

[Developing new fruit and berry varieties] Vyvedenie novykh sortov plodovykh i iagodnykh rastenii. Izd.3., ispr. i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1961. 183 p. (MIRA 14:5)

(Fruit culture)

SMIRNOV, Viktor Fedorovich; SERGEYEV, V.I., red.; PROKOF'YEVA, L.N., tekhn.red.

[Growing dwarf fruit trees] Kul'tura karlikovykh plodovykh derev'ev. Izd.4., ispr. i dop. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1960. 319 p. (MIRA 13:11)
(Dwarf fruit trees)

NAZARYAN, Ye.A.; LOBANOV, G.A.; TRUSEVICH, G.V.; STEPANOV, S.N.; DUSHUTINA, K.K.; RYBAKOV, A.A.; KARANYAN, P.G.; UL'YANISHCHEVA, A.M.; TIKHONOV, N.N.; KAZIZADE, F.N.; SIDORENKO, I.I.; SMIRNOV, V.F.; SHIDENKO, I.Kh.; VASIL'YEV, V.P.; SHISHKOVA, M.I.; SERGEYEV, V.I., red.; GOR'KOVA, Z.D., tekhn.red.

[Grusha] Pear. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 534 p. (MIRA 13:12)

(Pear)

SHEKHOVTSEV, M.Ya.; IGNATENKO, S.V.; SERGEYEV, V.I., red.; PROKOF'YEVA, L.N., tekhn.red.

[Oboyan' State Fruit Nursery and Farm] Oboianskii plodopitomnicheskii sovkhoz. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 195 p. (MIRA 14:3)
(Oboyan' District--Nurseries (Horticulture))

GORIN, Timofey Ivanovich, kand. sel'khoz. nauk; SERGEYEV, V.I., red.; PROKOF'YEVA, L.N., tekhn. red.

[Quince] Aiva. Izd.2., ispr. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 179 p. (MIRA 14:11)
(Quince)

SAPUNOV, Petr Yegorovich, zven'yevoy, Geroy Sotsialisticheskogo Truda. Prinimali uchastiye: FEDIN, M.A.; SALOMAKHIN, I.I.; SAFRONOV, V.V.; CHELEMENTSEV, I.T. CHELYSHKIN, Yu.G., red.; SERGEYEV, V.I., red.; SOKOLOVA, N.N., tekhn.red.

[Sixty-two centners of corn per hectare] 62 tsentnera zerna kukuruzy s gektara. Moskva, Izd-vo sel'khoz.lit-ry, zhurnalov i plakatov, 1962. 77 p. (MIRA 15:4)

1. Kolkhoz "Krasnoye znamya" Dmitrovskogo rayona Orlovskoy oblasti (for Sapunov).
(Dmitrov District—Con (Maize))

CHURAYEV, Ivan Alekseyevich, kand.sel'khoz. nauk; SERGEYEV, V.I., red.; PROKOF'YEVA, L.N., tekhn. red.

[American fall webworm]Amerikanskaia belaia babochka. Izd.2., ispr. i dop. Moskva, Sel'khozizdat, 1962. 101 p. (MIRA 15:9)

(Fall webworm)

NESTEROV, Yakov Stapanovich, kand. sel'khoz. nauk; SERGEYEV, V.I., red.; PEVZNER, V.I., tekhn. red.

[Rest period of fruit trees] Period pokoia plodovykh kul'tur. Moskva, Sel'khozizdat, 1962. 150 p. (MIRA 15:6)
(Dormancy in plants) (Ftuit trees)

KOLESNIKOV, V.A., doktor sel'khoz.nauk, prof.; SERGEYEV, V.I., red.; PEVZNER, V.I., tekhn. red.

[Root systems of fruit and berry plants and methods for studying them] Kornevaia sistema plodovykh i iagodnykh rastenii i metody ee izucheniia. Moskva, Sel'khozizdat, 1962. (MIRA 15:7)
k90 p.
(Roots (Botany)) (Fruit culture—Research)

SPIVAKOVSKIY, Naum Davidovich; SERGEYEV, V.I., red.; GUREVICH, M.M., tekhn. red.

[Fertilizing fruit and berry cultures] Udobrenie plodovykh i iagodnykh kul'tur. Izd.2., ispr. i dop. Moskva, Sel'khozizdat, 1962. 359 p. (MIRA 15:7)

(Fertilizers and manures)

SEVAST'YANOVA, Mariya Ivanovna, kand. sel'khoz. nauk; SERGEYEV, V.I., red.; BELOVA, N.N., tekhn. red.

[Herbicides in vegetable gardening] Gerbitsidy v ovoshchevodstve. Moskva, Sel'khozizdat, 1963. 55 p. (MIRA 16:6)
(Herbicides) (Vegetable gardening)

BUDAGOVSKIY, V.I., prof.; SERGEYEV, V.I., red.; PEVZNER, V.I., tekhn. red.; KOBYAKOVA, G.N., tekhn. red.

[Commercial growing of dwarf fruit trees] Promyshlennaia kul'tura karlikovykh plodovykh derev'ev. Moskva, Sel'khoizdat, 1963. 382 p. (MIRA 17:1)
(Dwarf fruit trees)

STEPANOV, Sergey Nikolayevich, kand. sel'khoz. nauk; SERGEYEV, V.I., red.; SOKOLOVA, N.N., tekhn. red.

[Fruit nursery] Piodovyi pitomnik. Izd.2., dop. i perer. Moskva, Sel'khozizdat, 1963. 510 p. (MIRA 17:3)

[illegible], V.V., kand. sel'skokhoz. nauk; [illegible], I.I., kand. sel'skokhoz. nauk; [illegible], V.I., red.

[Breeding and cultivation of citrus fruits in the northern part of the subtropics] Selektsiia i agrotekhnika tsitrusovykh na severe subtropikov. Moskva, Izd-vo "Kolos," 1964. 231 p. (MIRA 17:2)

TRUSEVICH, G.V.; SERGEYEV, V.I., red.

[Rootstock of fruit species] Podvoi plodovykh porod. Moskva, Kolos, 1964. 494 p. (MIRA 17:12)

SERGEYEV, V.I., inzhener

Some scientific research problems and the design of inland navigation vessels. Rech. transp. 14 no.6:10-13 Je '55. (Shipbuilding) (MLRA 8:9)

SERGEYEV, V.I., inzhener

Methods of practical investigation of hull corrision in river-going vessels. Rech.transp. 14 no.8:9-13 Ag'55. (MLRA 8:11)
(Hulls (Naval architecture)) (Corrosion and anticorrosives)

SERGEYEV, V. I

124-11-13359

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 150 (USSR)

AUTHOR: Sergeyev, V. I.

TITLE: To the Problem of the Approximate Determination of the General Bending Moments of Ships in the Preliminary Design Stage. (K voprosu priblizhennogo opredeleniya obshchikh izgibayushchikh momentov v stadii eskiznogo proyektirovaniya sudov.)

PERIODICAL: Tr. Akad. morsk. flota, 1956, Nr 4, pp 46-69.

ABSTRACT: Bibliographic entry.

Card 1/1

SOV/81-59-16-57457

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 264 (USSR)

AUTHOR: Sergeyev, V.I.

TITLE: The Corrosion Wear of Hulls of Ships on Inland Waters

PERIODICAL: V sb.: Zashchita morsk. sudov ot korrozii. Moscow, "Morsk. transport", 1958, pp 26-32

ABSTRACT: A table is given of the yearly average of thinning in the bilge casing of ships navigating in deep-water basins, and diagrams of the rate of general and local corrosion of the hulls of river ships are also presented. For the plotting of the diagrams data of natural tests carried out by the TsNII of River Shipping was used. In distinction from sea vessels the ships on inland waters have no increased wear in the region of variable water lines. The causes and the degree of corrosion destructions in the casing of ships at various height have been considered in detail. Data for the corrosion wear of the most vulnerable spots of the inner side of the board casing of the ship are presented. The problem of the corrosion wear of the ships can be solved by means of: introducing new effective methods of painting the under-water part of the hull, on the basis

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of ethinol varnish; applying bitumen coatings of the ship holds; using water-sand blast cleaning of the hulls before painting. The decrease of the corrosion wear rates of the outer casing to 0.015 - 0.02 mm/year makes for many types of hull constructions a general overhaul unnecessary during the whole service period of river and lake ships.

V. Lukinskaya.

RACHKOV, A.S., inzh.; SERGEYEV, V.I., inzh.

Pusher tugs for use on inland waterways. Sudostroenie 24 no.9:1-6 S '58. (MIRA 11:11)
(Tugboats)

SERGEYEV, V.I., inzh.

Repair cycles and the average life of river vessels. Trudy LIVT no.6:22-40 '60. (MIRA 15:3)
(Ships--Maintenance and repair)

SERGEYEV, V.

Structure of foreign trade in socialist countries. Vnesh.torg. 41 no.12:3-14 '61. (MIRA 14:11)
(Communist countries--Commerce)

BENUA, F.F.; DUKOR, Z.G.; KLYUSHENKOV, I.S.; KONSTANTINOV, V.P.; KATLER, A.I.; MAYKOV, N.K.; PRAYSMAN, A.D.; SERGEYEV, V.I.; TRUFANOV, V.G.; FEDOROV, V.F.; FRUMIN, S.R.; CHERTKOV, Kh.A.; SHIBANOV, B.V.; VATASHKINA, S.A., red.izd-va; CHERNOV, M.I., red.; BOBROVA, V.A., tekhn. red.

[Handbook on ship repairs in two volumes] Spravochnik po remontu sudov v dvukh tomakh. Pod obshchei red. M.I.Chernova. Moskva, Izd-vo "Rechnoi transport." Vol.2. 1963. 600 p. (MIRA 16:9)
(Ships--Maintenance and repair)

BENUA, F.F.; DUKOR, Z.G.; KLYUSHENKOV, I.S.; KONSTANTINOV, V.P.; KOTLYAR, D.I.; MAYKOV, N.K.; PRAYSMAN, A.D.; SERGEYEV, V.I.; TRUFANOV, V.G.; FEDOROV, V.F.; FRUMIN, S.R.; CHERTKOV, Kh.A.; SHIBANOV, B.V.; CHERNOV, M.I., red.; VITASHKINA, S.A., red.izd-va; BODROVA, V.A., tekhn. red.

[Handbook on ship repairs in two volumes] Spravochnik po remontu sudov v dvukh tomakh. Pod obshchei red. M.I. Chernova. Moskva, Izd-vo "Rechnoi transport." Vol.1. 1963. 550 p. (MIRA 16:12)

(Ships--Maintenance and repair)
(Marine engineering--Handbooks, manuals, etc.)

L 09052-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WB

ACC NR: AR6032261 (N) SOURCE CODE: UR/0398/66/000/006/V011/V011

38

AUTHOR: Sergeyev, V. I.

TITLE: Effect of corrosion on the strength of ship hulls

SOURCE: Ref. zh. Vodnyy transport, Abs. 6V61

REF SOURCE: Proizv.-tekhn. sb. Tekhn. upr. M-va rechn. flota REFSR, no. 5(49), 1965, 24-28

TOPIC TAGS: corrosion, ship, pitting, hull strength, pitting corrosion

ABSTRACT: Special research has been conducted on the effect of corrosion wear on the mechanical qualities of shipbuilding steel. Samples of St. 3 steel were tested by a method described in the original article. Results of the investigation are presented in graphic form. It was found that the ultimate strength and yield point of the sample cross-section depend on the diameter and the depth of the pitting. In repairing vessel hulls, it is necessary to consider only the decrease in the areas of the cross sections of stays caused by corrosion. A method was proposed for determining the average thickness of corroded hull plating. A prophilograph to

UDC: 629.12.002.51

Card 1/2

L 09052-67 0

ACC NR: AR6032261

determine the average thickness of the plating has been developed. Orig. art. has: 5 figures. [Translation of abstract]

SUB CODE: 13/

Card 2/2 nst

SERGEYEV, V.K.

Moscow mathematics and navigation school. Vop.geog. no.34:150-160 '54.
(Naval education) (MLRA 7:12)

[illegible], [illegible]

[illegible], V. I. "On the Far Eastern larch Xylocleptus altaicus Gebl.", Sbornik rabot (Dal'nevost. nauch.-issled. In-t les. Khoz-va i l. oeksploatatsii), Issue 1, 194[illegible], p. 171-74.

SO: U-43[illegible], 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

[illegible], . . .

[illegible], . . . "On the [illegible] of the Japan wood borer Cossus cerebra F. (Lepidoptera, Cossidae) in the Far East", Sbornik rabot (Dal'nevost. nauch.-issled. in-t les. khoz-va i lesokhimicheskoy), Issue 1, 1946, p. 174-76.

SO: U-4393, 17 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

L 24674-65 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/FCS/EWG(v)/EPR/EWP(j)/T/EWP(b)/EWA(l)
Pc-4/Pe-5/Pi-4/Pr-4/Ps-4/Pt-10 RM/WW

ACCESSION NR: AP5004687 S/0191/64/000/009/0013/0017

AUTHOR: Severov, A. A.; Gorbacheva, T. B.; Lukin, B. V.; Sergeyev, V. K.

TITLE: Changes in the fine and porous structures of phenol-formaldehyde resin during rapid short-duration heating to high temperatures

SOURCE: Plasticheskiye massy, no. 9, 1964, 13-17

TOPIC TAGS: phenolic plastic, polymerization, heat effect, crystal chemistry, polymer structure

Abstract: Changes in the structure of GOST 4559-49 phenol-formaldehyde resin have been studied during rapid short-duration heating up to 2900° C. The initial resin was cured for about 20 days at 160° C; its degree of polymerization was 98.2%. The specimens were heated at rates of 10,000—20,000° C/min. Heating was conducted in increments of 100° below 1100° C and 300° above 1100° C, with a 1-min holding time at each temperature. The samples were then cooled in nitrogen. Changes in the porous structure of the specimens were studied by visual observation, micrographs, and porosity measurements based on moisture absorption. In addition, weight loss, shrinkage, and compressive

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strength of the specimens were determined. The results of the study are given in the form of micrographs and plots of porosity and weight versus temperature (see Fig. 1) and shrinkage and strength versus temperature (see Fig. 2).

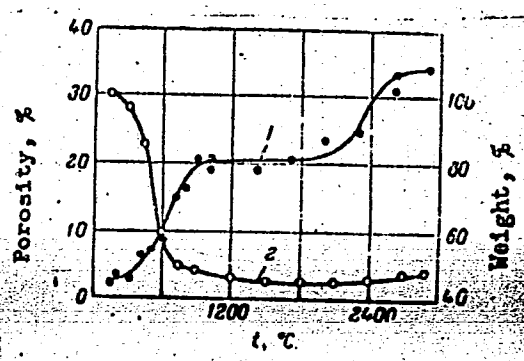

Fig. 1. Dependence of porosity (1) and weight (2) of phenol-formaldehyde resin on heating temperature.

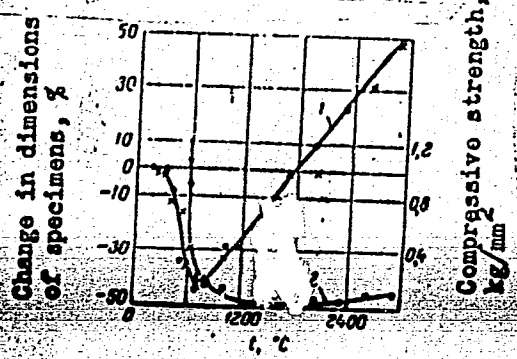

Fig. 2. Dependence of shrinkage (1) and strength of specimens of phenol-formaldehyde resin on the heating temperature

L 24674-65

ACCESSION NR: AF5004687

The results showed that: 1) Pores and cracks develop rapidly at 400—700° C as a result of the evolution of volatile pyrolysis products. The process causes considerable weight loss and shrinkage of specimens. 2) The pores continue to develop at 700—1300° C, but at a slower rate. At the same time wide cracks are formed. These cracks cannot be determined by moisture absorption, and the magnitude of the measured porosity remains unchanged up to 1900° C. 3) At 1900—2600° C, the pores continue to develop; since specimen weight remains unchanged, it is concluded that the porosity develops as a result of an increase in the density of the coke pore walls. 4) At 2600—2900° C, the pores become filled with secondary products formed by pyrolysis-product decomposition. The specimens become blocks and acquire a metallic luster, and their weight increases slightly. 5) The specimen volume increases continuously at above 700° C and attains 150% of its initial value at 2900° C. 6) The specimen compressive strength drops from its initial value of 700—2100 kg/mm^2 to 0.05 kg/mm^2 at 1700—2600° C, and then increases again at 2900° C to 0.10 kg/mm^2 owing to the deposition of secondary products which fill the pores and cracks.

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ACCESSION NR: AP5004687

The fine structure of the resin was studied by the x-ray diffraction method. The results of the study are given in the form of x-ray diffraction patterns and in the form of changes of the diffusion ring width and of interplanar spacings in the c-axis direction with temperature (see Fig 3).

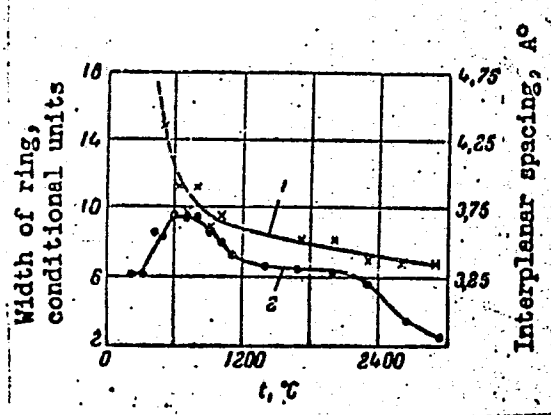

Fig. 3. Dependence of interplanar spacing and width of diffusion ring on temperature:

1) Intermolecular distance and interplanar spacing; 2) width of the diffusion ring.

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These results show that: 1) Heating of the resin to 250° C causes its further polymerization. 2) At 300—700° C, the resin degrades and coke structures are formed. 3) Above 800° C, the formation of primary and the ordering of secondary coke structures (bundles) continues; the two-dimensional coke-structure formation ends at 1200—1300° C. 4) At 1200—2300° C, slow growth of bundles continues. 5) At higher temperatures, in the pregraphitization period, the bundles begin to grow more rapidly; regions with a three-dimensional ordering (crystallites of graphite) appear at 2900° C. Thus during rapid heating graphitization begins at higher temperatures than during heating at a rate of 10° C/min with 2-hr holding periods, in which case graphitization begins at 2400° C.

COMMENT: The article is interesting as an apparent attempt to determine the character and possibly the rate of progressive thermal deterioration of a GRP binder at temperatures and heating rates comparable to those arising in missile combustion chambers or on the surface of re-entry plates. At the given heating rate, i.e., 170-330 C/sec, testing temperatures of 400-2900°C could be reached within the time required to reproduce approximately the thermal conditions to which GRP used for aerospace purposes is subjected. It is true that only the binder and not the GRP itself was tested, and that heat transfer was not

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ACCESSION NR: AP5004687

studied in this series of experiments. However, a knowledge of the character of the degradation of the least resistant component is essential for further research. The low compressive-strength values obtained for the coke specimens may be of importance in evaluating the crumbling of coked material which serves as a shield for the plastic which is still intact.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MT, TD

NO REF SOV: 003 OTHER: 002 FSB v.1, no.1

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L 52700-65 EPA(s)-2/EWT(m)/EPF(c)EPR/EWP(j)/T/ Pc-4/Pr-4/Ps-4/Pt-7
RM/WW

ACCESSION NR: AP5014492 UR/0032/65/031/006/0716/0717

AUTHORS: Severov, A. A.; Sergeyev, V. K.; Bordovskaya, N. V. 41 B

TITLE: A method for microstructural analysis of fiberglass-reinforced plastics 15

SOURCE: Zavodskaya laboratoriya, v. 31, no. 6, 1965, 716-717

TOPIC TAGS: plastic, fiberglass, structure analysis, resin

ABSTRACT: Microstructural analysis of the transverse sections is described as a method for quality control of fiberglass-reinforced plastics. The authors explain the shape of fibers and twisted strands in such sections and the nature of the mechanical and the chemical failures of this material. They also present a method for preparing polished sections to be used in the study of such defects as cracks and pores which determine the nature of the failure. The length of the straight cracks in the resin is limited by the distance between the layers of fiberglass. The curved cracks are normally found in the glass fibers saturated with resin. Microcracks are located at the junctions of the fibers and the binder; their width is 0.5μ and their length reaches 1 mm. The pores can be seen at the accumulations of resin and between the layers of fiberglass, are commonly of a

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L 52700-65
ACCESSION NR: AP5014492

regular form, and are 0.5-10 mm in size. They may occur singly or in groups, and are never interconnected. Orig. art. has: 1 microphotograph.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MT

NO REF SOV: 000 OTHER: 000

Card 2/2

SHASHKOV, A.G.; YAS'KO, O.I.; SERGEYEV, V.L.; YUREVICH, F.B.

Electric arc heaters for obtaining high-temperature streams. (MIRA 15:3)
Inzh.-fiz.zhur. 5 no.1:115-129 Ja '62.
(Electric arc) (Electric heating)

21772
S/170/61/004/004/003/014
B108/B209

11.5300
26.2311

AUTHOR: Sergeyev, V. L.

TITLE: Calculation of the thermodynamic functions for an air-carbon mixture at high temperatures

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 4, 1961, 16 - 24

TEXT: In the present study, the author determined the basic thermodynamic functions describing an air-carbon mixture forming in a discharge arc from graphite electrodes. The mixture consists of 70% air and 30% carbon. Temperature and pressure determine the relationship between the number of molecules, ions, and atoms per cm^3. The air-carbon mixture consists of many kinds of particles (N_2, O_2, C_2, Ar_2, NO, CN, CO, N, O, C, Ar, O_2^+, N_2^+, NO^+, CO^+, CN^+, C^+, N^+, O^+, Ar^+, e, C^{++}, N^{++}, O^{++}, etc.) quite a number of which may be neglected. The concentration of the components in such a mixture is determined from the equation of state of a perfect gas: $p = nkT$ (1), the particle balance up to double ionization (2), the charge equilibrium (3), the law of mass action (4)-(15), and the state of the air-

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Calculation of the thermodynamic ...

carbon mixture (16), (17):

$$n = n_e + n_{N_2} + n_{O_2} + n_{C_2} + n_N + n_O + n_C + n_{NO} + n_{CN} + n_{CO} + \\ + n_{C^+} + n_{N^+} + n_{O^+} + n_{C^{++}} + n_{N^{++}} + n_{O^{++}}, \quad (2)$$

$$n_e = n_{N^+} + n_{O^+} + n_{C^+} + 2n_{N^{++}} + 2n_{O^{++}} + 2n_{C^{++}}, \quad (3)$$

$$\frac{n_N^2}{n_{N_2}} = s_N, \quad (4) \qquad \frac{n_O^2}{n_{O_2}} = s_O, \quad (5)$$

$$\frac{n_C^2}{n_{C_2}} = s_C, \quad (6) \qquad \frac{n_{N^+} n_e}{n_N} = s_{N^+}, \quad (7)$$

$$\frac{n_{O^+} n_e}{n_O} = s_{O^+}, \quad (8) \qquad \frac{n_{C^+} n_e}{n_C} = s_{C^+}, \quad (9)$$

$$\frac{n_N n_O}{n_{NO}} = s_{N,O}, \quad (10) \qquad \frac{n_C n_N}{n_{CN}} = s_{C,N}, \quad (11)$$

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Calculation of the thermodynamic ...

$$\frac{n_C n_O}{n_{CO}} = s_{C,O}, \qquad (12) \qquad \frac{n_{C^{++}} n_e}{n_{C^+}} = s_{C^{++}}, \qquad (13)$$

$$\frac{n_{N^{++}} n_e}{n_{N^+}} = s_{N^{++}}, \qquad (14) \qquad \frac{n_{O^{++}} n_e}{n_{O^+}} = s_{O^{++}}, \qquad (15)$$

$$\frac{n_{CO} + n_{NO} + 2n_{O_2} + n_O + n_{O^+} + n_{O^{++}}}{n_{NO} + n_{CN} + 2n_{N_2} + n_N + n_{N^+} + n_{N^{++}}} = \frac{14,7}{55,3} = 0,265, \qquad (16)$$

$$\frac{n_{CO} + n_{NO} + 2n_{O_2} + n_O + n_{O^+} + n_{O^{++}}}{n_{CO} + n_{CN} + 2n_{C_2} + n_C + n_{C^+} + n_{C^{++}}} = \frac{14,7}{30} = 0,49. \qquad (17)$$

n_i denotes the number of particles of the respective kind per cm^3, s_i the

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Calculation of the thermodynamic ...

equilibrium constants of the respective reactions which for various temperatures and pressures are determined from

$$\lg s_{r+1} = -\frac{5040}{T}(E_{r+1} - \Delta V) + 1{,}5 \lg T + 15{,}38 + \lg \frac{2Z_{r+1}}{Z_r}, \qquad (18).$$

In this equation, ΔV denotes the change in ionization energy E due to the charged particles, Z - the sum of states, r - the degree of ionization.

$$Z_r(T) = g_{r,0} + g_{r,1} e^{-\frac{E_{r,1}}{kT}} + g_{r,2} e^{-\frac{E_{r,2}}{kT}} + \ldots, \qquad (20),$$

where $E_{r,i}$ is the excitation energy of the i-th level, $g_{r,i} = 2J_{r,i}+1$ - the statistical weight of the i-th level, $J_{r,i}$ - the total moment of momentum. In the considered temperature range of between 10 000 and 20 000°K (1 atm) it is sufficient to calculate only neutral and singly ionized atoms and the

Card 4/15

Calculation of the thermodynamic ...

electrons. Thus, one obtains

$$\frac{p}{kT} = n_e\left[1 + \frac{6{,}82}{\frac{1}{n_e/s_{O^+}+1} + \frac{3{,}78}{n_e/s_{N^+}+1} + \frac{2{,}04}{n_e/s_{C^+}+1}}\right]. \quad (21),$$

$$\left.\begin{aligned} n_{O^+} &= \frac{n_e}{1 + \frac{(n_e/s_{O^+}+1)}{0{,}265(n_e/s_{N^+}+1)} + \frac{(n_e/s_{O^+}+1)}{0{,}49(n_e/s_{O^+}+1)}} \\ n_{N^+} &= \frac{n_{O^+}(n_e/s_{O^+}+1)}{0{,}265(n_e/s_{N^+}+1)}, \qquad n_{C^+} = \frac{n_{O^+}(n_e/s_{O^+}+1)}{0{,}49(n_e/s_{C^+}+1)} \end{aligned}\right\}. \quad (22)$$

plus Eqs. (7) - (9). For the calculation of the constants of the reaction equilibrium, the author used data from Ref. 2 (Wienecke R., Z. Physik,

146, 39, 1956). Results are shown in Tables 1 and 2. For temperatures of about 30 000°K one has to consider double ionization. Neglecting the neutral atoms, one then obtains

$$n = 2n_e - \frac{n_e\left[1+\frac{(n_e/s_{O^{++}}+1)}{0{,}265(n_e/s_{N^{++}}+1)}+\frac{(n_e/s_{O^{++}}+1)}{0{,}49(n_e/s_{C^{++}}+1)}\right]}{\frac{(n_e/s_{O^{++}}+1)(2+n_e/s_{N^{++}})}{0{,}265(n_e/s_{N^{++}}+1)}+\frac{(n_e/s_{O^{++}}+1)(2+n_e/s_{C^{++}})}{0{,}49(n_e/s_{C^{++}}+1)}+(n_e/s_{O^{++}}+2)}=$$

$$= 2n_e - n_e a/b \qquad (23),$$

$$n_{O^{++}} = \frac{n_e}{b}; \qquad n_{N^{++}} = \frac{n_{O^{++}}(n_e/s_{O^{++}}+1)}{0{,}265(n_e/s_{N^{++}}+1)};$$

$$n_{C^{++}} = \frac{n_{O^{++}}(n_e/s_{O^{++}}+1)}{0{,}49(n_e/s_{C^{++}}+1)}.$$

Card 6/15

plus Eqs. (7) - (9). Fig. 1 shows the results for 150 atm. The enthalpy of 1 g of substance is

$$i = \frac{1}{\rho}\sum_k \rho_k i_k. \qquad (25)$$

where ρ denotes the density. Assuming the considered air-carbon mixture to consist of chiefly atoms and ions, the enthalpy reads as follows:

$$i = \frac{1}{\rho}\left\{\frac{5}{2}p + 1{,}602\cdot 10^{-12}\left[\frac{D_N}{2}(n_N + n_{N^+}) + \frac{D_O}{2}(n_O + n_{O^+}) + \right.\right.$$
$$\left.\left. + \frac{D_C}{2}(n_C + n_{C^+}) + E_N n_{N^+} + E_O n_{O^+} + E_C n_{C^+}\right]\right\}, \qquad (29),$$

where D_k denotes the dissociation energy in ev, and p the pressure in dynes/cm^2. The specific heat as determined from graphical differentiation of the enthalpy curves (Fig. 2) is shown in Fig. 3. The entropy of the

mixture is

$$S=\frac{1}{\rho}\sum_k n_k m_k s_k. \qquad (31),$$

and, with the substitutions from above,

$$S=\frac{1{,}3803\cdot 10^{-16}}{\rho}\left\{(49{,}183+3{,}4538\ \lg T)n_\Sigma+2{,}3025\left[\sum_k n_k(1{,}5\ \lg A_k+\right.\right.$$

$$\left.\left.+\lg Z_k-\lg n_k)\right]+\sum_k n_k T\frac{\partial}{\partial T}\ln Z_k\right\},\ эрг/г\cdot град \qquad (32),$$

where n_k and n_Σ denote the concentration of the k-th component and of the

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mixture, respectively (in cm^{-3}), A_k - atomic or molecular weight. The sums of states as determined with the help of data from Ref. 13 (Moore S. Atomic energy levels, 1949) et al., and from Eq. (20), are presented in Table 3. The final results are shown in the form of an i-versus-S diagram (Fig. 4). There are 4 figures, 3 tables, and 13 references: 6 Soviet-bloc and 7 non-Soviet-bloc.

SUBMITTED: July 5, 1960

Card 9/15

SERGEYEV, V. L.; TROFIMOV, V. P.; YEREVICH, F. B.; YAS'KO, O. I.

Some results of studying the operation of an electric arc heater with gas stabilization of the discharge. Inzh.-fiz. zhur. 6 no.1:14-18 Ja '63. (MIRA 16:1)

(Electric arc)

L 53874-65
ACCESSION NR: AP5017246 UR/0170/64/000/007/0062/0064

AUTHOR: Sergeyev, V. L.; Yurevich, F. B.

TITLE: Characteristics of an electric arc heater with two cooled electrodes

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 7, 1964, 62-64

TOPIC TAGS: thermoelectric equipment, electrode, discharge chamber

ABSTRACT: The results of a study of the operation of an electric arc heater with two cooled electrodes are given. The volt-ampere characteristics of the heater are determined. The dependence of enthalpy and velocity as the output on power is is also determined for various flow rates. The authors state that the discharge chamber described is more stable and yields greater power than a discharge chamber studied by them earlier (Inzhenerno-fizicheskiy zhurnal, No 1, 1963). Orig. art. has: 3 graphs.

ASSOCIATION: none
SUBMITTED: 14Dec63 ENCL: 00 SUB CODE: EE, TD
NR REF SOV: 001 OTHER: 001 JPRS

Card 1/1

L 8917-66 EWT(1)/ETC/EPF(n)-2/EWG(m) WH

ACC NR: AP5026848 SOURCE CODE: UR/0170/65/009/004/0427/0432

44,55

AUTHOR: Sergeyev, V. L.

44,55

ORG: Institute of Heat and Mass Transfer, AN BSSR, Minsk (Institut teplo- i massobmena AN BSSR)

TITLE: Methods of measuring high heat fluxes

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 4, 1965, 427-432

21,44,55

TOPIC TAGS: heat transfer, heat measurement, heat conductivity, gas jet

ABSTRACT: The article compares several methods, applicable to a jet of high temperature gas, for the measurement of heat fluxes up to 1-10 kilowatts/cm^2 and above. 1) For a heated body with small dimensions made of material with high heat conductivity, or at small values of the heat transfer coefficient, that is, at small values of the Biot number $\alpha l/\lambda$, the change in the temperature of the body is characterized by the heat transfer rate between the body and the surrounding medium. The temperature of the body is an exponential function of the time. In this case, the expression for the heat flux has the form:

$$q = \frac{1}{IR_0}\left(\frac{\rho c_p \delta}{\alpha_R}\right)\frac{dU}{dt}. \qquad (3)$$

Card 1/2

L 8917-66

ACC NR: AP5026848

The recording instrument was a platinum plate in contact with a model made of Pyrex with a semispherical head. The experiments were made in an aerodynamic tube containing air heated to temperatures of the order of 9000°K. Measurement of the heat flux attained 40 kilowatts/cm^2. 2) In determination of the heat flux by measurement of the surface temperature, use was made of the solution of the heat conductivity equation for a plate in ideal contact with a semi-infinite body. If a metal plate is in contact with an insulator of infinite thickness and if the thickness of the metal is very small, the average temperature of the whole metal plate will be equal to the temperature of the contact. 3) In the method of surface points, the heat flux to a plane plate is determined by the law of heat conductivity. 4) The heat flux can also be determined by measurement of the time up to the beginning of melting of the metal. Experimental work described in the article was carried out by two different methods: the method of a cooled calorimeter and the exponential method. The first is a steady state method, while the second is more widely used and is applicable to the unsteady state case. Measurements of the heat fluxes in a high temperature gas jet by these two methods were made and agreed in a satisfactory manner. The actual results are exhibited in graphic form. Orig. art. has: 10 formulas and 3 figures.

SUB CODE: TD, GC/ SUBM DATE: 23Apr65/ ORIG REF: 011/ OTH REF: 008

Card 2/2

L 27452-66 EWT(1)/EWP(m)/ETC/EPF(n)-2/EWG(m)/EWA(d)/FCS(k)/EWA(m)-2/EWA(1)
ACC NR: AP5027575 WW SOURCE CODE: UR/0170/65/009/005/0657/0666

87
B

AUTHOR: Sergeyev, V. L.

ORG: Institute of Heat and Mass Transfer, AN BSSR, Minsk (Institut teplo- i massobmena AN BSSR)

TITLE: Experimental investigation of heat transfer in the region of the stagnation point

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 5, 1965, 657-666

TOPIC TAGS: heat transfer, stagnation point, dissociated gas, ionized gas, heat conductivity

ABSTRACT: In the case of flow around a body by a dissociated and ionized gas, the heat flux from the gas to the wall consists of the heat flux determined by the temperature gradient at the wall and the heat conductivity of the gas, as well as the heat flux determined by the gradient of the concentration of atoms, ions, and electrons. The article gives the results of heat flux measurements carried out in a jet of nitrogen, heated by an electric arc heater. The current strength varied from 150 to 1300 amps, and the gas rate from 2 to 10 grams/ sec. The heat fluxes were measured by three methods: the method of a cooled calorimeter, the exponential method, and the Brogan method. In the first case, the heat flux was determined as the ratio of heat consumed in heating a known quantity of cooling water in unit time to the sur-

UDC: 536.248+536.45

Card 1/2

2

face of the heated surface of the sensing device. In the second case, the heat flux was determined from the change in the heat content of a copper cylinder. In the third case, it was determined from the time up to the start of melting of copper and aluminum cylinders, insulated from the lateral surface. The measurement results are exhibited graphically as a function of the enthalpy and the stagnation pressure, for diameters of the heat flux sensing device equal to 5 and 20 mm. The maximum measured value of the heat flux was 25 kilowatts/cm^2, for a value of the enthalpy corresponding to a temperature of 14,000 K. An estimate of the part of gas radiation in the value of the heat flux, without taking absorption into account, gives a value within the limits of 3%. The measured values of the heat fluxes over the whole range of gas parameters agree with calculated results for the following assumed values: Pr = 0.71; Le = 1.4; t_{wall} = 100 C. This confirms the possibility of applying the Fay and Riddell equation to the calculation of heat transfer in an ionized gas. Orig. art. has: 7 formulas and 5 figures.

SUB CODE: GC, ME, TD/ SUBM DATE: 18Jun65/ ORIG REF: 017/ OTH REF: 011

ALEKSANDROV, N.I., polkovnik med.sluzhby; GEFEN, N.Ye., polkovnik med.sluzhby; GARIN, N.S., podpolkovnik med.sluzhby; GAPOCHKO, K.G., podpolkovnik med.sluzhby; DAAL'-BERG, I.I., podpolkovnik med.sluzhby; SERGEYEV, V.M., podpolkovnik med.sluzhby

Reactivity to and effectiveness of aerogenic vaccination against certain zoonoses. Voen.-med.zhur. no.12:34-38 D '58. (MIRA 12:12)
(VACCINES AND VACCINATION,
against aerogenic zoonoses (Rus))

SERGEYEV, V.M., inzh.

Sound absorbing finishing of rooms. Avtom., telem. i sviaz' 6 no.6:43 Je '62. (MIRA 15:7)

1. Glavnoye upravleniye signalizatsii i svyazi Ministerstva putey soobshcheniya.
(Railroads--Stations--Soundproofing)

SERGEYEV, V.M.

Improve the work of automotive transportation at construction sites.
Stroi. pred. neft. prom. 2 no.2:24-25 F '57. (MLRA 10:4)
(Transportation, Automotive)

SERGEYEV, V.M., inzh.

High-frequency KRR-30/60-type telephone apparatus for short-distance use. Avtom., telem. i sviaz' 6 no.7:19-22 Jl '62. (MIRA 16:2)

1. Glavnoye upravleniye signalizatsii i svyazi Ministerstva putey soobshcheniya.
(Telephone, Automatic) (Railroads--Communication systems)

KHLUSOV, Andrey Yevstaf'yevich; POPOV, L.N., kand. tekhn. nauk, retsenzent; GRONDA, V.I., red.; SERGEYEV, V.M., red.; YASHUKOVA, N.V., tekhn. red.

[Exercises and course projects in load-lifting and conveying equipment of building materials plants] Uprazhneniia i kursovoe proektirovanie po gruzopod"emnomu i transportnomu oborudovaniiu zavodov stroitel'nykh detalei. Moskva, Rozvuzizdat, 1963. 139 p. (MIRA 17:3)

SERGEYEV, V.M., inzh.

A two-directional equipment bay. Avtom., telem. i sviaz' 7 no.6:43 Je '63. (MIRA 17:3)

1. Glavnoye upravleniye signalizatsii i svyazi Ministerstva putey soobshcheniya.

YEVSTIGNEYEV, G.P.; USKOV, N.F.; SERGEYEV, V.M., red.

[Calculating machines and their operation] Schetnye mashiny i ikh ekspluatatsiia. Moskva, Vysshaia shkola, 1964. 422 p. (MIRA 17:10)

ZHDANOV, V.M.; RITOVA, V.V.; GEFEN, N.Ye.; ZHUKOVSKIY, A.M.; BERLYANT, M.L.; YEVSTIGNEYEVA, N.A.; YEGOROVA, N.B.; KREYNIN, L.S.; LEONIDOVA, S.L.; SERGEYEV, V.M.; SMIRNOV, M.S.

Comparative study of intranasal and aerosol methods of vaccination against influenza. Zhur. mikrobiol., epid. i immun. 33 no.11:63-67 N '62. (MIRA 17:1)

1. Iz Instituta virusologii imeni Ivanovskogo AMN SSSr.

SERGEYEV, V.M.

Remote results of pneumonectomy in tuberculosis. Probl. tuberk., Moskva no.4:70-72 July-Aug 1953. (CLML 25:4)

1. Candidate Medical Sciences. 2. Of the Surgical Clinic (Head -- Prof. L. K. Bogush), Institute of Tuberculosis of the Academy of Medical Sciences USSR (Director -- Z. A. Lebedeva).

SERGEYEV, V.M., kandidat meditsinskikh nauk; PARFENOVA, O.I.

Respiratory changes in tuberculosis and their relation to pneumonectomy and lobectomy. Probl. tub. no.5:14-21 S-O '54. (MLRA 7:12)

1. Iz khirurgicheskoy kliniki (zav. prof. L.K.Bogush) i patofiziologicheskoy laboratorii (zav. prof. G.Ye.Platonov) Instituta tuberculeza Akademii meditsinskikh nauk SSSR (dir. Z.A.Lebedeva)

(TUBERCULOSIS, PULMONARY, surgery,
lobectomy & pneumonectomy, eff. on resp.)
(RESPIRATION, in various diseases,
tuberc., pulm., eff. of lobectomy & pneumonectomy)

SERGEYEV, Viktor Mikhaylovich, kandidat meditsinskikh nauk; SAVEL'YEVA, L.A., redaktor; SENCHILO, K.K., tekhnicheskiy redaktor

[Surgical anatomy of the blood vessels of the root of the lung] Khirurgicheskaia anatomiia sosudov kornia legkogo. Moskva, Gos. izd-vo med. lit-ry, 1956. 76 p. (MLRA 10:4)
(LUNGS--BLOOD SUPPLY)

SERGEYEV, V.M.

VINOGRADOV, N.A., prof.; SERGEYEV, V.M., kand.med.nauk (Medgiz, Moskva)

Trends in the development of surgical literature. Khirurgiia 33 no.9:6-14 S '57. (MIRA 11:4)

(SURGERY
trends of surg. literature in Russia)
(LITERATURE
same)

SERGEEV, V.M.

First session of the Institute of Thoracic Surgery of the Academy of Medicine of the U.S.S.R. Khirurgiia 34 no.4:129-136 Ap'58 (MIRA 11:7)

(CHEST--SURGERY)

SERGEYEV, V.M., kand.med.nauk, SMOL'NIKOV, V.P., kand.med.nauk

"Anesthesia for surgery of the heart" [in English] by K.K. Keown. Reviewed by V.M. Sergeev, V.P. Smol'nikov. Vest.khir. 81 no.7:144-146 Jl '58 (MIRA 11:8)

(HEART--SURGERY)
(ANESTHESIOLOGY)
(KEOWN, K.K.)

SERGEYEV, Viktor Mikhaylovich; BUYANOV, Valentin Mikhaylovich

[Achievements of modern thoracic surgery] Uspekhi sovremennoi grudnoi khirurgii. Moskva, Medgiz, 1959. 114 p. (MIRA 13:8)
(CHEST--SURGERY)

BUSALOV, A.A.; BEREZOV, Yu.Ye.; SERGEYEV, V.M.

Problems in chest surgery; report on the Second Session of the Institute of Chest Surgery of the Academy of Medical Sciences of the U.S.S.R. Grud.khir. 1 no.2:120-126. Mr-Ap '59. (MIRA 16:7)
(CHEST—SURGERY)

BAKULEV, A.N., prof., red.; BUSALOV, A.A., prof., red.; ZHMUR, V.A., prof., red.; IVANITSKAYA, M.A., dots., red.; KOLESNIKOV, S.A., doktor med. nauk, red.; SERGEYEV, V.M., red.; ZAKHAROVA, A.I., tekhn. red.

[Transactions of the First Jubilee Scientific Session of the Institute for Chest Surgery of the Academy of Medical Sciences of the U.S.S.R.] Trudy 1-i iubileinoi nauchnoi sessii, 2-4 dekabria 1957 g. Moskva, Pod red. A.A.Busalova. Moskva, Medgiz, 1959. 263 p. (MIRA 15:5)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut grudnov khirurgii. 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, Institut grudnoy khirurgii Akademii meditsinskikh nauk SSSR (for Bakulev). 3. Direktor fakul'tetskoy khirurgicheskoy kliniki Vtorogo Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I.Pirogova (for Busalov). 4. Institut grudnoy khirurgii Akademii meditsinskikh nauk SSSR (for Zhmur, Ivanitskaya, Kolesnikov).

(CHEST--SURGERY)

ALEKSANDROV, N.I., general-mayor meditsinskoy sluzhby; GEFEN, N.Ye., polkovnik meditsinskoy sluzhby; GARIN, N.S., podpolkovnik meditsinskoy sluzhby; GAPOCHKO, K.G., podpolkovnik meditsinskoy sluzhby; SERGEYEV, V.M., pdopolkovnik meditsinskoy sluzhby; TAMARIN, A.L., polkovnik meditsinskoy sluzhby; SHLYAKHOV, E.N., kand.med.nauk

Experience in massive aerogenic vaccination against anthrax. Voen.-med.zhur. no.8:23-32 Ag '59. (MIRA 12:12)
(ANTHRAX, immunology)
(VACCINATION)

SERGEYEV, V.M., kand.med.nauk

Second session of the Institute of Thoracic Surgery of the Academy of Medical Sciences of the U.S.S.R. Vest. AMN SSSR 14 no.6:79-87 '59. (MIRA 13:6)
(CHEST--SURGERY)

OSTROVERKHOV, G.Ye.; SERGEYEV, V.M.

On the prospective plan for the publication of surgical literature.
Khirurgiia 35 no.9:133-138 '59. (MIRA 13:12)
(BIBLIOGRAPHY--SURGERY)

BOGUSH, L.K., prof., red.; KOLESNIKOV, S.A., prof., red.; SERGEYEV, V.M., kand. med. nauk, red.; SMIRNOV, Z., red.; LAVRENT'YEVA, G., tekh. red.

[Technic of mitral commissurotomy; transactions of the First Symposium on the Technic of Mitral Commissurotomy, Moscow, 1960] Tekhnika mitral'noi komissurotomii; trudy. Moskva, In-t grudnoi khirurgii, 1960. 95 p. (MIRA 15:1)

1. Simpozium po tekhnike mitral'noy komissurotomii. 1st, Moscow, 1960. 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Bogush).

(MITRAL VALVE—SURGERY)

SERGEYEV, V.M.

Present-day surgical problems in mitral stenosis. Grud. khir. 2 no.3:109-115 My-Je '60. (MIRA 15:3)
(MITRAL VALVE--SURGERY)

SERGEYEV, V.M.; RYZHKOV, Ye.V.

Simultaneous removal of a celomic cyst of the pericardium and partial pulmonary resection. Grud. khir. 2 no.6:113-115 N-D '60. (MIRA 14:1)

1. Iz legochnogo otdeleniya (zav. - doktor meditsinskikh nauk N.I. Gerasimenko) i patologoanatomicheskoy laboratorii (zav. - prof. Ya.L.Rapoport) Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR. Adres avtorov: Moskva, Leninskiy prosp. d.8, Institut grudnoy khirurgii AMN SSSR.

(CYSTS) (PERCARDIUM—DISEASES)
(LUNGS—SURGERY)

SERGEYEV, V.M., kand.meditsinskikh nauk; KOVANEV, V.A., kand.meditsinskikh nauk

Symposium on the surgery of mitral commissurotomy. Vest.AMN SSSR 15 no.5:75-81 '60. (MIRA 14:3)
(MITRAL VALVE--SURGERY)

KOVANEV, V.A., kand.med.nauk; SERGEYEV, V.M., kand.med.nauk

Current problems in thoracic surgery. Vest.AMN SSSR 15 no.6:75-84 '60. (MIRA 14:4)
(CHEST--SURGERY)

ZHAROV, I.S., zasl. deytatel' nauki, prof., otv. red.; KOLESNIKOV, S.A., prof., red.; NAPALKOV, P.N., zasl. deyatel' nauki, prof., red.; ROVNOV, A.S., prof., red.; DAMIR, Ye.A., kand. med.nauk, red.; DARBINYAN, T.M., kand. med.nauk, red.; SERGEYEV, V.M., kand. med. nauk, red.; UVAROV, B.S., kand. med. nauk, red.; LUKUMSKIY, G.I., kand. med.nauk, red.; BUKOVSKAYA, N.A., tekhn. red.

[Transactions of the First Symposium on Anesthesiology] Trudy Simpoziuma po anesteziologii. 1st, Moscow, 1960. (MIRA 16:9)

1. Simpozium po anesteziologii. 1st, Moscow, 1960.
(ANESTHESIOLOGY—CONGRESSES)

KOLESNIKOV, S.A., prof.; SERGEYEV, V.M., kand.med.nauk; RYZHKOV, Ye.V., kand.med.nauk

Surgical therapy for coelomic cysts of the pericardium. Vest. khir. 85 no.12:77-89 D '60. (MIRA 14:1)

1. Iz Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchn. rukovod. - prof. A.I. Bakulev) Akademii meditsinskikh nauk SSSR.

(PERICARDIUM--SURGERY) (CYSTS)

VASIL'YEV, Aleksandr Sergeyevich; SERGEYEV, V.M., inzh., red.; SMIRNOVA, G.V., tekhn. red.

[Reference tables for the elements of the circle] Spravochnye tablitsy elementov kruga. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 400 p. (MIRA 14:11)
(Geometry, Plane—Tables, etc.)

BEREZOV, Yu.Ye.; SERGEYEV, V.M.; TSYBYRNE, K.A.

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(CHEST—SURGERY)

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(EMPYEMA) (PLEURA--DISEASES)