

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

30

Production of fused portland cement in blast furnaces by introduction of an oxygen blast. V. V. Semov. *Vostochnaya Nauch.-Issledovatel. Inst. Tsement., Byull.* 1937, No. 1, 75-6. — An attempt is made to develop a process of the smelting in an O₂ blast to produce a slag of the compn. of portland cement clinker. B. C. P. A.

AS B-31 A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1ST AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

20

Magnesian slag portland cement. V. V. Serov and T. D. Morozova. *Tsement* 6, No. 1, 15-20(1939).— The addn. of blast-furnace slag to magnesian portland cement must not surpass 25-30%; the autoclave method of testing permits detn. of presence of injurious aints. of Met) K. K. Stefanowsky

AS 54 METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 4TH ORDERS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

20

ca

Preventing formation of rings in rotary cement mills.
 V. V. Serov and M. A. Reabetnikov. *Tsiment* 10, No. 2/3, 16-18(1944).—Ring formation was prevented by keeping the ratio of $Al_2O_3:SO_3$ in the charge not over 1.2. To prevent corrosion of the kiln lining, the ratio should not be less than 1.1. M. Hosh

COMMON VARIABLES INDEX

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH ORDERS	
MATERIALS INDEX		METALLURGICAL LITERATURE CLASSIFICATION		AUTHOR INDEX	
1ST AND 2ND ORDERS		3RD AND 4TH ORDERS		1ST AND 2ND LETTERS	
1ST AND 2ND LETTERS		3RD AND 4TH LETTERS		1ST AND 2ND LETTERS	

ca

20

Phase composition and binding properties of aluminosilicate cement. N. A. Toropov and V. V. Serov, *J. Appl. Chem. (U. S. S. R.)* 17, 170-7(1944)(English summary).—In chem. compn., aluminosilicate cement lies between white portland cement and aluminous cement. Its cryst. phases are gehlenite ($2\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot\text{SiO}_2$), β - and γ - $2\text{CaO}\cdot\text{SiO}_2$, $5\text{CaO}\cdot 3\text{Al}_2\text{O}_3$, $\text{CaO}\cdot\text{Al}_2\text{O}_3$ and $\text{MgO}\cdot\text{Al}_2\text{O}_3$. The greater the gehlenite content the less is the structural strength. G. M. Kosolapoff

SEROV, V.V.

Utilization of cracking residues as stocks for repeated cracking. T. S. Minasyan, V. V. Serov, P. V. Ovsyannikov, I. S. Zhukov, and T. G. Karpenko. *Azerbaidzhan. Neft. Khos.* 1956, No. 4, 19-22 (in Russian).—Cracking residues were deasphaltized with propane and reused as stocks for cracking. The complete exptl. data were given in detail. T. Durhak

6

gmb

S: Rev. 1/11

MINASYAN, T.S.; PAL'CHIKOV, G.F.; SEROV, V.V.; BOLOTOV, L.T.;
OVSYANNIKOV, P.V.; RUSAKOV, A.P.

Means for increasing raw material resources for the production of
diesel fuels. Azerb. neft.khoz. 36 no.9:33-36 S '57. (MIRA 11:2)

(Diesel fuels)

MITROFANOV, M.G.; STEPURO, S.I.; SEROV, V.V.; KVASHNIN, K.V.

Experience in the industrial purification of asphalt from sulfur-bearing crude with the aid of a selective double-solvent. Trudy GrozNII no.4:166-171 '59. (MIRA 12:9)
(Asphalt) (Petroleum--Refining)

SEROV, V.V.; BYKOVA, N.A.

All-Union conference of pathoanatomists. Arkh.pat. 17 no.1:84-90
Ja-Mr '55. (MLRA 8:10)
(PATHOLOGY,
in Russia, conf.)

BYKOVA, N.A.; ZHEBRO, T.F.; SKROV, V.V.; SHAPIRO, I.M.

Method of angiouroentgenography in pathological anatomy. Arkh.
pat. 17 no.3:71-72 J1-S '55. (MLRA 8:12)

1. Iz kafedry patologicheskoy anatomii (zav.-chlen-korrespondent
AMN SSSR prof. A.P.Strukov) I Moskovskogo ordena Lenina
meditsinskogo instituta.

(ANGIOGRAPHY,
in pathol.)
(PATHOLOGY,
angiography in)

SEROV, V. V.

SEROV, V. V.: "The vessels of the kidneys in infarct (roentgenological-anatomical and histotopographical investigation)." First Moscow Order of Lenin Medical Inst imeni I. M. Sechenov. Moscow, 1956. (Dissertation for the the Degree of Candidate in Medical Science.)

Knizhnaya Letopis'
No 32, 1956. Moscow.

SEROV, V.V. (Moskva)

Problem of allergic vascular lesions. Arkh.pat. 18 no.2:108-111
'56 (MIRA 11:10)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Strukov) I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M. Sechenova.

(EMPYEMA, plural, complications

allergic periarthritis (Rus))

(ALLERGY, manifestations,

periarthritis in pleural empyema (Rus))

(ARTERIES, diseases,

periarthritis of allergic origin in pleural empyema (Rus))

SEROV, V.V.

Conference devoted to the 50th anniversary of the death of Professor
Vladimir Platonovich Krylov. Arkh.pat. 18 no.4:134-135 '56 (MIRA 11:10)
(KRYLOV, VLADIMIR PLATONOVICH, 1841-1906)
(PATHOLOGY)

SEROV, V.V.

Problem of the angioarchitectonics of the kidney. Biul. eksp. biol.
i med. 41 no. 4: 72-74 Ap '56. (MLRA 9:8)

1. Iz kafedry patologicheskoy anatomii (zav. chlen-korrespondent
AMN SSSR prof. A.I. Strukov) i Moskovskogo ordena Lenina meditsin-
skogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR
A.L. Myasnikovym.

(KIDNEYS, blood supply,
anat. (Rus))

SEROV, V.V. (Moskva)

Condition of the renal vessels in rheumatic fever; histo-angioroentgenographic parallels [with summary in English]. Arkh.pat. 20 no.7:27-33
'58 (MIRA 11:9)

1. Iz kafedry patologicheskoy anatomii (zav. - cheln-korrespondent AMN SSSR prof. A.I. Strukov) i Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(RHEUMATIC HEART DISEASE, pathology
renal vessels, angiography & histol. (Rus))

(KIDNEYS, blood supply
histol. changes in rheum. heart. dis., comparison with
angiography (Rus))

(ANGIOGRAPHY,
renal, in rheum. heart. dis., comparison with histol. (Rus))

SEROV, V.V. (Moskva)

Julius Freidrich Cohnheim (75th anniversary of his death). Arkh.
pat. no.9:68-73 '59. (MIRA 14:8)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I.Strukov) I Moskvoskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova.

(COHNEIM, JULIUS FREIDRICH, 1839-1884)

BYKOVA, N.A.; ZHEBRO, T.F.; SEROV, V.V. (Moskva)

Role of thrombosis and embolism in the development of infarcts
(statistical data based on autopsy material of the Sechenov
First Moscow Medical Institute. Arkh. pat. 21 no.9:29-35 '59.

(MIRA 14:8)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I.Strukov) I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M.Sechenova.

(THROMBOSIS) (EMBOLISM) (INFARCTION)

VASIL'YEVA, N.N., kand.med.nauk; LAPIN, S.K., kand.med.nauk; SENROV, V.V.,
kand.med.nauk; SHIKHODYROV, V.V., kand.med.nauk; PETROVA, A.S., kand.
med.nauk (Moskva).

Third All-Union Congress of Pathoanatomists. Arkh.pat. 21 no.10:
85-94 '59. (MIRA 14:8)
(ANATOMY, PATHOLOGICAL—CONGRESSES)

SEROV, V.V.

Histoangioroentgenographic parallels in glomerulonephritis. Urologia
2/4 no.1:15-21 Ja-F '59. (MIRA 12:1)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent AMN
SSSR prof. A.I. Strukov) I Moskovskogo ordena Lenina meditsinskogo in-
stituta imeni I.M. Sechenova.
(GLOMERULONEPHRITIS, pathol.
histoangioroentgenographic parallels (Rus))

SEROV, V.V.

Segmental structure of the renal vascular system. Urologia 24 no.3:
6-13 My-Je '59. (MIRA 12:12)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Strukov) I Moskovskogo ordena Lenina meditsinsko-
go instituta im. I.M. Sechenova.

(KIDNEY, blood supply,
segmental structure of vasc. system (Rus))

STRUKOV, A.I.; SEROV, V.V.

Some clinical and pathogenic problems in experimental glomerulo-
nephritis. Terap.arkh. 32 no.12:15-24 '60. (MIRA 14:2)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Strukov) I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M. Sechenova.
(KIDNEYS—DISEASES)

GEL'SHTEYN, G.G.; KOVANEV, V.A.; SEROV, V.V. (Moskva)

Electrocardiographic changes in experimental glomerulonephritis.
Pat. fiziol. i eksp. terap. 5 no.6:39-43 N-D '61. (MIRA 15:4)

1. Iz kafedry patologicheskoy anatomii 1-go Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova (zav. - chlen-korrespondent
AMN SSSR prof. A.I.Strukov) i Instituta grudnoy khirurgii AMN SSSR.
(ELECTROCARDIOGRAPHY) (KIDNEYS---DISEASES)

SEROV, V.V.; SOLOV'YEVA, I.P.

Juxtamedullary renal blood flow in the pathogenesis of hepatorenal
syndrome. Arkh. pat. 23 no. 1:71-75 '61. (MIRA 14:1)
(KIDNEYS—DISEASES) (LIVER—DISEASES)

BEGLARYAN, A.G.; SEROV, V.V. (Moskva)

Morphology of the kidneys in various types of sensitization
under experimental conditions. Arkh.pat. 23 no.5:19-26 '61.

(MIRA 14:6)

1. Iz kafedry patologicheskoy anatcmii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Strukov) I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M. Sechenova.

(KIDNEYS)

(SERUM)

KOGAN, A.Kh.; SEROV, V.V.

Compensatory hypertrophy of ischemic kidneys. *Biul. eksp. biol. i med.* 52 no.10:39-43 0 '61. (MIRA 15:1)

1. Iz kafedr patologicheskoy fiziologii (zav. - prof. S.M.Pavlenko) i patologicheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. A.I.Strukov) i Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.
(KIDNEYS...HYPERTROPHY AND DILATATION)

KOGAN, A. Kh.; SEROV, V. V.

Experimental study of the reversibility of kidney atrophy.
Eksp. khir. i anest. no.2:14-15 '62. (MIRA 15:6)

1. Iz kafedr patologicheskoy fiziologii (zav. - zasluzhennyy
deyatel' nauki prof. S. M. Pavlenko) i patologicheskoy anatomii
(zav. - chlen-korrespondent AMN SSSR prof. A. I. Strukov) I
Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M.
Sechenova.

(ATROPHY) (KIDNEYS--DISE.SES)

PAVLIKHINA, L.V.; SEROV, V.V. (Moskva)

Pathogenesis of amyloidosis. Arkh.pat. no.3:44-52 '62.

(MIRA 15:3)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Strukov) i Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M. Sechenova.
(AMYLOIDOSIS)

SEROV, V.V., dotsent (Moskva)

Ultramicroscopic structure of the nephron and its importance
in pathology. Arkh. pat. 10:3-18 '62. (MIRA 17:1)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-
korrespondent AMN SSSR prof. I.A. Strukov) I Moskovskogo
ordena Lenina meditsinskogo instituta imeni Sechenova.

KNYAZEVA, G.D.; KODOLOVA, I.M.; SEROV, V.V.; SUCHKOVA, T.I.

Renal lesions in rheumatic fever. Sov.med. 25 no.5:23-30 My '62.
(MIRA 15:8)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I.Strukov) I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M.Sechenova.

(KIDNEYS--DISEASES)

(RHEUMATIC FEVER)

SEROV, V.V.; KOVANEV, V.A.

Blood supply and lymphatic system of the kidneys in experimental glomerulonephritis. Arkh. anat., gist. i embr. 42 no.5:58-68 My '62. (MIRA 15:6)

1. Kafedry patologicheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. A.I. Strukov) i normal'noy anatomii (zav. - chlen-korrespondent AMN SSSR prof. D.A. Zhdanov) I Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova.
(KIDNEYS--DISEASES) (KIDNEYS--BLOOD SYPLY) (LYMPHATICS)

ABRIKOSOV, Aleksey Ivanovich (1875-1955), akademik; STRUKOV, A.I., prof.,
otv. red.; RYVKIND, A.V., prof., red.; SEROV, V.V., dots., red.;
ABRIKOSOVA, F.D., kand. med. nauk; KUSEVITSKIY, I.A., red.izd-
va; UL'YANOVA, O.G., tekhn. red.

[Allergy and problems of pathology]Allergiia i voprosy patolo-
gii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 487 p. (MIRA 16:4)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for
Strukov).

(ALLERGY) (PATHOLOGY)

SEROV, V.V. (Moskva)

Pathogenesis of amyloid nephrosis in the light of experimental data. Arkh. pat. no.2:33-46 '63 (MIRA 16:11)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. A.I.Strukov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

TOPPE, V.I.; STRUKOV, A.I.; SNOV, V.V.; KHAY, L. .

Experience with the experimental reproduction of a systemic
lesion of the connective tissue. Vest. ANU SSSR 18 no.11:
29-38 '63 (MIRA 17:7)

1. Institut eksperimental'noy meditsiny ANU SSSR i I Moskovskiy
meditsinskiy institut imeni I.M.Sechenova.

SEROV, V.V.; KHAY, I.M.

Some problems in immunology and immunomorphology of Masugi
nephritis. Vest. AMN SSSR 18 no.1745-56 1971 (MIRA 1972)

L. by Moskovskiy nauchno meditsinskii institut imeni
I.M. Sechenova i institut eksperimental'noy meditsiny AMN SSSR.

SEROV, V.V., dotsent ; PAVLIKHINA, L.V., mladshiy nauchnyy sotrudnik

Autoimmune processes in the development of experimental
amyloidosis. Trudy 1-go MMI 22:168-184 '63 (MIRA 18:2)

GOLINAK, E.A.; BEROV, V.V.; PYABTSEV, V.M.; VECHER, A.M. (Moskva)

Lymphoangioendothelioma of the thoracic duct. Arkh. pat. 25 no.3:
173-177 163. (MIRA 17:12)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Strukov) propedevticheskoy terapevticheskoy
kliniki (zav. - deystvitel'nyy chlen AMN SSSR prof. V.Kh. Vasilenko)
i fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. N.M. Yelanskiy)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Seche-
nova.

SEROV, V.V., abstract

Immunomorphological fundamentals of Masugi nephritis. Trudy
1-go MMl 22:143-157 '63 (MIRA 18:2)

ZAKHAROVSKIY, I.Z.; SUDOV, V.V.

Renal biopsy as a diagnostic method. *Voprosy khir. i anest.*
9 no.3:49-54. *Mg-36* '64. (MIRA 18:3)

1. Kafedra urologii (zav. - prof. I.M. Epshteyn) i kafedra patolo-
gicheskoy anatomii (zav. - chlen-korrespondent AN SSSR prof. A.I.
Strukov) i Moskovskogo ordena Lenina meditsinskogo instituta imeni
Sechenova.

LEVIN, B.R.; SEROV, V.V.

Distribution of the periodic function of a random quantity.
Radiotekh. i elektron. 9 no.6:1065-1067 Ja '64.
(MIRA 17:7)

ANDREYEVA, N.Ye.; SEROV, V.V.

Nephropathy in multiple myeloma (paraproteinemic nephrosis). Vest.
AMN SSSR 19 no.6:46-54 '64. (MIRA 18:4)

1. Tsentral'nyy institut usovershenstvovaniya vrachey, Moskva i
I Moskovskiy meditsinskiy institut imeni Sechenova.

SEROV, V.V.

Some problems of clinical morphology and the pathogenesis of
amyloid nephrosis. Vest. AMN SSSR 19 no.12:39-46 '64. (MIRA 18:4)

1. I Moskovskiy ordena Lenina meditsinskiy institut imeni Sechenova.

SEROV, V.V. (Moskva)

Autoimmunization and glomerulonephritis. Arkh. pat. 27 no.1:9-22
'65. (MIRA 18:4)

1. Kafedra patologicheskoy anatomii (zav. - chlen-korrespondent
AMN SSSR, zasluzhennyy deyatel' nauki prof. A.I.Strukov) I
Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova.

MARKOV, Kh.M.; SEROV, V.V. (Moskva)

Morphology and some problems of the pathogenesis of experimental
serum sickness. Arkh. pat. 27 no.11:13-20 '65. (MIRA 18:12)

1. Institut terapii (direktor - deystvitel'nyy chlen AMN SSSR
prof. A.L.Myasnikov) AMN SSSR, kafedra patologicheskoy anatomii
(zav. - chlen-korrespondent AMN SSSR prof. A.I.Strukov) i Moskov-
skogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.
Submitted July 11, 1964.

L 27663-66 EWA(h)/EWT(1)

ACC NR: AP6008295

SOURCE CODE: UR/0109/66/011/003/0544/0548

AUTHOR: Levin, B. R.; Serov, V. Y.

10
B

ORG: none

TITLE: Energy characteristics of a gated pulse sequence

SOURCE: Radiotekhnika i elektronika, v. 11, no. 3, 1966, 544-548

TOPIC TAGS: pulse sequence, energy spectrum

ABSTRACT: The correlation function and energy spectrum are theoretically determined of a gated Poisson-type sequence of overlapping square pulses having constant duration and unit height; the gating intervals τ have constant duration and repetition frequency. A method of tossing a τ -long segment upon the pulse sequence is used to derive the correlation function of the sequence; the correlation function proves to be a combination of an aperiodic and a periodic components:
From this formula, the energy spectrum is deduced by using $B(\tau) = p_n(\tau) + \sum_{k=0}^{\infty} p_n(\tau)$.
the Khinchin-Wiener theorem. Formulas and curves for the correlation function and energy spectrum are developed for a particular case when the pulse duration is equal to the gating interval. Orig. art. has: 4 figures and 16 formulas.

SUB CODE: 09 / SUBM DATE: 24May65 / ORIG REF: 003

Card 1/1 *CV*

UDC: 621.374.36

21c

L 18316-65 EWG(j)/EWT(l)/EWP(e)/EWG(k)/EWT(m)/EPP(c)/EPP(n)-2/EPR/EEC(b)-2/EWP(b)
Pz-6/Pr-4/PB-4/Pu-4 IJP(c)/AFWL/SSD WW/AT/WH
S/0089/64/017/005/0329/0335

ACCESSION NR: AP4049532

AUTHOR: Millionshchikov, M. D.; Gverdtsiteli, I. G.; Abramov,
A. S.; Gorlov, L. V.; Gubanov, Yu. D.; Yefremov, A. A.; Zhukov, V. F.;
Ivanov, V. Ye.; Kovy*rzin, V. K.; Koptelov, Ye. A.; Kosovskiy, V. G.;
Kukharkin, N. Ye.; Kucherov, R. Ya.; Laly*kin, S. P.; Merkin, V. I.;
Nechayev, Yu. A.; Pozdnyakov, B. S.; Ponomarev-Stepnov, N. N.;
Samarin, Ye. N.; Serov, V. Ya.; Usov, V. A.; Fedin, V. G.; Yakovlev,
V. V.; Yakutovich, M. V.; Khodakov, V. A.; Kompaniyets, G. V.

TITLE: The "Romashka" high-temperature reactor-converter /9

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 329-335

TOPIC TAGS: nuclear power reactor, reactor feasibility study, re-
search reactor, thermoelectric converter/Romashka

ABSTRACT: The authors briefly describe the construction, parameters,
test results, and operating experience of the "Romashka" reactor-

Card 1/37

18316-65
ACCESSION NR: AP4049532

converter unit, which has been in operation at the Kurchatov Atomic Energy Institute since August 1964. The fuel used is uranium dioxide enriched to 90% U^{235} . Graphite and beryllium are used as reflectors. Electricity is generated by silicon-germanium semiconductor thermocouples distributed on the outer surface of the reflector and connected in four groups which can be connected in series or in parallel. The temperatures of the active zone and outer surface are 1770 and 1000C, respectively. The power ratings are 0.50-0.80 kW electric and 40 kW thermal, the maximum current (parallel connection) is 88 A, the neutron flux is 10^{13} neut/cm² sec in the center of the active zone and 7×10^{12} on its boundary. The reactor has a negative temperature reactivity coefficient. The equipment has high inherent stability and requires no external regulator, and little change was observed in the thermocouple properties after 2500 hours of operation. Tests on the equipment parameters are continuing, and the results are being analyzed for use in future designs. Orig. art. has: 8 figures and 1 formula.

Card 2/3

SEROV, Ya. A.: ^{1011A} Master Tech Sci (diss) -- "Investigation of conditions in rotary-shock drilling of holes". Tomsk, 1958. 16 pp (Min Higher Educ USSR, Tomsk Order of Labor Red Banner Polytech Inst im S. M. Kirov), 150 copies (KL, No 2, 1959, 122)

ALIMOV, O.D., dots., kand.tekhn.nauk; LYAPICHEV, I.G., kand.tekhn.nauk;
SEROV, Ya.A., inzh.

Some results of investigating rotary impact boring. Nauch dokl.
vys. shkoly; gor. delo no.3:47-55 '58. (MIRA 11:9)

1. Predstavlena kafedroy gornykh mashin i rudnichnogo transporta
Tomskogo politekhnicheskogo instituta.
(Boring--Testing)

SOV/127-58-12-8/26

AUTHORS: Alimov, O.D., Candidate of Technical Sciences and Serov,
Ya.A., Mining Engineer

TITLE: The Results of Studying Operating Conditions of Rotary-Per-
cussion Drilling in Hard Rocks (Rezultaty issledovaniya
rezhimov vrashchatel'no-udarnogo bureniya krepkikh porod)

PERIODICAL: Gornyy zhurnal, 1958, Nr 12, pp 29 - 32 (USSR)

ABSTRACT: The authors sum up the results of 2 years of research by
the Tomsk Polytechnical Institute on operating conditions
of rotary-percussion drilling in hard rocks. Different
cutting bits were used with the pneumatic perforer RH-754
built by Atlas-Diesel (Sweden). Based on these tests,
several graphs were prepared showing the optimum conditions
for drilling operations in rocks of different hardness
at varying speeds and with different cutting bits. Optimum
characteristics of a drilling machine are also given.
There are 6 graphs, 1 set of diagrams and 1 Soviet refer-
ence.

ASSOCIATION: Tomskiy politekhnicheskii institut (Tomsk Polytechnical
Institute)

Card 1/1

ALIMOV, O.D.; LYAPICHEV, I.G.; SEROV, Ya.A.

Investigating rotary-percussion boring. Izv. TPI 106:51-74 '58.
(MIRA 11:11)

(Boring machinery)

ALIMOV, O.D., dotsent, kand. tekhn. nauk. SEROV, Ya.A., inzh.

Investigating rotary-percussion boring of hard rocks. Nauch. dokl.
vys. shkoly; gor. delo no.1:45-50 '59. (MIRA 12:5)

1. Predstavlena kafedroy gornykh mashin i rudnichnogo transporta
Tomskogo politekhnicheskogo instituta.
(Boring--Testing) (Rock drills--Testing)

SEROV, Ya.A., kand.tekhn.nauk; OSIPOV, L.D., inzh.; PLEKHANOV, B.L.

Results of industrial tests of the VUBM-1 two-piston combination
drill. Gor. zhur. no.6367-70 Je '63. (MIRA 16:7)

1. Vostochnyy nauchno-issledovatel'skiy gornorudnyy institut,
g. Novokuznetsk.

(Boring machinery—Testing)

SEROV, Ya.A., kand.tekhn.nauk; MANKE, G.K., inzh.; BOYKOV, V.V., inzh.

Increasing the strength of bore rods. Gor.zhur. no.1:58-60 Ja '65.
(MIRA 18:3)

1. Vostochnyy nauchno-issledovatel'skiy gornorudnyy institut (for Serov, Manke). 2. Kuznetskiy mashinostroitel'nyy zavod (for Boykov).

SEROV, Ya.A., kand. tekhn. nauk; BOYKOV, V.V., inzh.; OSIPOV, L.D., inzh.

Industrial testing of the double piston rotary percussion VUEM-3 boring machine. Gor. zhur. no.11:52-55 N '64. (MIRA 18:2)

1. Sibirskiy metallurgicheskiy institut (for Serov). 2. Kuznetskiy mashinostroitel'nyy zavod (for Boykov). 3. VostNIGRI (for Osipov).

SHAW, Y. S., *Proc. Inst. Mech. Engrs.*, 1953, Part 2, No. 18, p. 100.
Shaw, Y. S., *Proc. Inst. Mech. Engrs.*, 1953, Part 2, No. 18, p. 100.

Studying the wear arising from the work of rotary percussion boring
machines. *Gas. Eng. no. 7-53* 3-1953. (SFA 18:9)

SEROV, Yu.

Give students a thorough and solid knowledge. Mest.prom.i khud.
promys. 3 no.7:22-23 J1 '62. (MIRA 15:8)

1. Nachal'nik upravleniya kadrov i uchebnykh zavedeniy Gosudarstven-
nogo komiteta Soveta Ministrov RSFSR po delam mestnoy promyshlen-
nosti i khudozhestvennykh promyslov.
(Art industries---Study and teaching)

AKIMENKO, A. D.; SEROV, YE. A.

Planimeter

Radial planimeter with a revolving table., Za ekon. top. 9, no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

SEROV, Ye. A.

AID P - 3078

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 12/29

Authors : Akimenko, A. D. and Ye. A. Serov, Engs.

Title : Control of mercury differential manometer

Periodical : Energetik, 7, 17-18, J1 1955

Abstract : Operational controls of differential manometers of the DP and PES types are difficult if made at the place of installation. The author describes an instrument used for testing such manometers under operational conditions. One table, 3 drawings.

Institution : None

Submitted : No date

SEKOV, YE. A.

Part Industri

Lowering the cost of each production operation, *Trof. prom.*, No. 3, 1952.

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

SEROV, YE, P.

Serov, Ye, P., and Shmukler, B. I., "Regulation of Forced Circulation Boilers," in their book *Ekspluatatsiya pryamotochnykh kotlov* [The Operation of Forced Circulation Boilers], Moscow/Leningrad, Gosenergoizdat, 1953, Pages 154-183, with figures.

SEROV, Ye.P.; SHMUKLER, B.I.

[Operation of once-through steam boilers] Ekspluatatsiia priamotoknykh
kotlov. Moskva, Gos. energ. izd-vo, 1953. 266 p. (MLRA 6:10)
(Steam boilers)

SEROV, Ye.P., kandidat tekhnicheskikh nauk.

Performance of direct-flow boilers under changing operating
conditions. Trudy MEI no.11:204-227 '53. (MLRA 7:11)
(Steam boilers)

SEROV, Ye.P., kandidat tekhnicheskikh nauk.

Design development of Ramzin boilers. Trudy MEI no.25:180-196
'55. (Boilers) (MIRA 9:7)

STYRIKOVICH, M.A., prof., doktor tekhn.nauk; KATKOVSKAYA, K.Ya., kand. tekhn. nauk, dotsent; SEROV, Ye.P., kand.tekhn.nauk, dotsent; NIKOLAYEV, V.V., red.; LARIONOV, G.Ye., tekhn.red.

[Boiler units] Kotel'nye agregaty. Moskva, Gos. energ. izd-vo, 1958. 487 p. (MIRA 12:2)

1. Chlen-korrespondent AN SSSR; zaveduyushchiy Kafedroy kotel'nykh ustanovok Moskovskogo ordena Lenina energeticheskoho instituta (for Styrikovich).

(Boilers)

SOV/96-59-8-10/27

AUTHORS: Styrikovich M.A. Corresponding Member Academy of Sciences
USSR, Serov, Ye.P., Candidate of Technical Sciences,
Smirnov, O.K., Engineer

TITLE: The Influence of Displacing the Transition Zone in Once-
Through Boilers for Super-Critical Pressure

PERIODICAL: Teploenergetika 1959, Nr 8. pp 33-37 (USSR)

ABSTRACT: Displacement of the transition zone into the convective
part of the furnace in order to increase the period between
boiler washing was first tried on the fourth ~~once-through~~
boiler type 24-SP-200/140 to be installed. In the three
preceding types of boiler the transition zone was not dis-
placed. It has been observed that displacement is accom-
panied by more intense scaling at the end of the evaporation
zone and in the first stages of super-heat. It should be
noted that the experimental data that served as a basis for
displacement of the transition zone were obtained on an
experimental once-through boiler fed with water having a
relatively high concentration of non-volatile contaminants.
Card 1/5 Then the results of displacing the zone were mainly checked

SOV/96-59-8-10/27

The Influence of Displacing the Transition Zone in Once-Through Boilers for Super-Critical Pressure.

on industrial medium-pressure boilers fed with water of a quality that would now be considered poor. Displacement can only be effective if scaling is concentrated in a particular part of the boiler; and if the scaling is distributed over a considerable range of increase in enthalpy of the steam, a transition zone entirely in the convective part of the furnace is scarcely feasible. This is particularly the case in unit-type sets whose feed-water temperature is reduced at partial load so that the boundary between evaporation and super-heating surfaces is displaced. The presence of various impurities in the feed water, and their solubility under different conditions, are then considered. A typical curve of the solubility of calcium sulphate in superheated steam as a function of temperature at constant pressure is given in Fig 1. Most substances behave in this way under super-critical conditions, that is, there is a temperature region of minimum solubility. In calculating the density of scaling by a substance from solution, it suffices to know the functional

Card 2/5

SOV/96-59-8-10/27

The Influence of Displacing the Transition Zone in Once-Through Boilers for Super-Critical Pressure.

relationship between the solubility of the substance in steam and the temperature, though unfortunately adequate information about this subject is not always available. The different substances that occur in feed water are then considered in turn, including various sodium, calcium and magnesium compounds and silica. The zones of maximum deposition of calcium and sodium sulphates in a once-through boiler at pressures of 240 and 300 atms have been calculated from data about the solubility of these substances as a function of super-heated steam temperature: the results are given in Table 2. It will be seen that the temperature range of scaling is only 38°C, but that it corresponds to the considerable increase in steam enthalpy of 195 kcal/kg. The temperature range of maximum deposition of sodium and calcium sulphates is 63°C with an enthalpy increase of 231 kcal/kg. The region of extensive deposition is broadened if the quality of feed water is impaired, as will be seen from the results plotted in Figs 2 and 3. The influence of mass exchange on the rate of deposition of

Card 3/5

SOV/96-59-8-10/27

The Influence of Displacing the Transition Zone in Once-through Boilers for Super-Critical Pressure

calcium sulphate at 300 atms is plotted in Fig 4, showing that the effect is to extend the region of scaling. It is concluded that with the usual designs displacement of the transition zone cannot be fully effective, as a good deal of the scaling occurs outside this zone. The position is still further complicated by interaction between different salts. Experiments at the Moscow Division of the Central Boiler Turbine Institute indicate that scale should not be allowed to become thicker than 0.1 to 0.2 mm, otherwise it will be difficult to wash off. This may correspond to a temperature rise of up to 60°C, which is not serious except in the most intensely heated parts of the tube. Therefore, it should be possible to arrange for reliable operation of the boiler without displacement of the transition zone although, of course, the region of maximum scaling should be kept away from the hottest part of the flame, and this is usually not difficult to accomplish. Thus there is no need to displace the transition zone in boilers near or above the critical pressure. It would be desirable to

Card 4/5

SOV/96-59-8-10/27

The Influence of Displacing the Transition Zone in Once-Through Boilers for Super-Critical Pressure

make a further study of scale formation when the feed water contains a number of different impurities. There are 4 figures, 2 tables and 3 Soviet references.

ASSOCIATION: Moskovskiy energeticheskiy Institut (The Moscow Power Institute)

Card 5/5

RYABOV, A.N., inzh.; SEROV, Ye.P., kand.tekhn.nauk

Evaluating the reliability of natural circulation during
pressure drop. Teploenergetika 7 no.10:37-39 0 '60. (MIRA 14:9)

1. Moskovskiy energeticheskiy institut.
(Boilers) (Steam engineering)

STYRIKOVICH, N.A.; SEROV, Ye.P., kand.tekhn.nauk

Problems in the development of the boiler industry. Teploener-
getika 8 no.7:3-8 JI '61. (MIRA 14:9)

1. Moskovskiy energeticheskiy institut. 2. Chlen-korrespondent
AN SSSR (for Styrikovich).
(Boilers)

SEROV, Ye.P., kand.tekhn.nauk; MOZHAROV, N.A., kand.tekhn.nauk; SMIRNOV,
O.k., kand.tekhn.nauk

Analyzing the efficiency of basic circuits of separator type once-
through boilers. Teploenergetika 3 no.12:16-21 D '61.
(MIRA 14:12)

1. Moskovskiy energeticheskiy institut.
(Boilers) (Electric power plants)

S/096/62/000/009/003/003
E194/E455

AUTHORS: Mokharov, N.A., Candidate of Technical Sciences,
Serov, Ye.P., Candidate of Technical Sciences

TITLE: Laminated flow of gas-liquid mixture in horizontal
pipes

PERIODICAL: Teploenergetika, no.9, 1962, 49-53

TEXT: When laminated flow occurs in pipes, that is when the mixture flowing in the pipes separates out into two layers, there is considerable risk of overheating the upper part of the pipe which is not so efficiently cooled as the lower. Accordingly, a good deal of work has been done on the motion of two-phase flows. Two approaches are possible: either to determine the limiting conditions of existence of laminated flow and then to select operating conditions so that it cannot occur or to determine the temperature of the upper part of the tube as a function of hydrodynamic factors and thermal loading and then consider the possibility of operating with laminated flow. The former of these two approaches is preferred; for one thing, the laminated flow can lead to corrosion. The differential equations of motion, of each Card 1/3

S/096/62/000/009/003/003
E194/E455

Laminated flow of gas-liquid ...

of the phases, and equations of their mechanical interaction on the boundary of separation, provide a number of governing criteria; a criterial equation is written as follows:

$$w_p'' = 0.38 \frac{\sigma^{0.5}}{\sqrt{\beta - \beta'}} \left(\frac{d}{\delta} - \frac{\beta}{1 - \beta} \right)^{1/2} \quad (5)$$

where w_p'' is the actual speed of the steam phase in m/sec; d is the pipe diameter; σ is the surface tension and β is the volumetric steam content of the flow. This expression is compared with the work of other authors and is considered to be valid over a wider pressure range. For practical calculations it is often convenient to use the steam content by weight rather than by volume and in this case the following substitution is made

$$\frac{\beta}{(1 - \beta)} = \frac{x}{(1 - x)} \cdot \frac{\gamma'}{\gamma''}$$

which gives the following expression
Card 2/3

STYRIKOVICH, M.A.; MARTYNOVA, O.I., kand.tekhn.nauk; SEROV, Ye.P., kand.-
tekhn.nauk

Analysis of the economic efficiency of some methods for removal
of impurities from the feed-water cycle of electric power plants
with once-through boilers. Elek. sta. 33 no.7:5-8 J1 '62.
(MIRA 15:8)

1. Chlen-korrespondent AN SSSR (for Styrikovich).
(Feed water) (Boilers)

MARTYNOVA, O.I., kand. tekhn. nauk; SEROV, Ye.P., kand. tekhn. nauk;
SMIRNOV, O.K., kand. tekhn. nauk

Study of the entrainment of iron oxide by superheated steam
at supercritical pressures. Teploenergetika 10 no.7:54-57
JI '63. (MIRA 16:7)

1. Moskovskiy energeticheskiy institut.
(Boilers)

MARTYNOVA, O.I. (Mskva); SEROV, Ye.P. (Mskva); SMIRNOV, O.K. (Moskva)

Solubility of magnesium hydroxide in water vapor at superhigh
parameters. Izv. AN SSSR. Energ. i transp. no.4:555-560 JI-
Ag '63. (MIRA 16:11)

MARTYNOVA, O.I.; SEROV, Ye.P.; SMIRNOV, O.K.; TSKHVIRASHVILI, D.G.;
GOTSIRIDZE, V.D.

Solubility of iron oxides in steam at high and superhigh
parameters. Izv. AN SSSR. Energ. i transp. no.6:759-762
N-D '63. (MIRA 17:1)

TYURIN, P.Ya., inzh.; SEROV, Ye.P., kand.tekhn.nauk

Some problems confronting the boiler industry. Teploenergetika
11 no. 1:2-7 Ja '64. (MIRA 17:5)

1. Gosudarstvennyy komitet po koordinatsii nauchno-issledovatel'skikh rabot SSSR i Moskovskiy energeticheskiy institut.

STYRIKOVICH, M.A.; SEROV, Ye.P.; SMIRNOV, O.K. PULELA KAMESVARA SARMA.

Use of the "salt method" in studying the characteristics of
mass and heat reansfer. Dokl. AN SSSR 157 no.1:91-94 JI '64
(MIRA 17:8)

1. Chien-korrespondent AN SSSR (for Styrikovich).

SEROV, Ye.P.; SMIRNOV, O.K.

Determining the boundaries of existence of a region of
stable conditions of a flow in vapor generating tubes
connected in parallel. Teplofiz. vys. temp. 2 no.4: 23-
62. 11-Ag '64. (MIRA 17:9)

I. Moskovskiy energeticheskiy institut.

STYRIKOVICH, M.A. (Moskva); SEROV, Ye.F. (Moskva); SHIMONOV, V.K. (Moskva);
SARMA, V.K. (Moskva)

Some characteristics of heat and mass transfer in steam generating
pipes. Izv. AN SSSR. Energ. i transp. no. 5:620-625 3-0 '64.
(MIRA 17:12)

SEROV, Ye.P., kand. tekhn. nauk; SMIRNOV, O.K., kand. tekhn. nauk;
ZYKOV, I.A., inzh., dissertant

Experimental study of the boundary of the stability of a flow in
parallel connected steam generating pipes with nonuniform heating
of the surface. Teploenergetika 11 no.10:70-72 O '64. (MIRA 18:3)

1. Moskovskiy energeticheskiy institut.

LEZIN, Vladimir Il'ich, inzh.; LIPOV, Yuriy Mikhaylovich, kand.
tekhn. nauk, dots.; SELEZNEV, Mikhail Antonovich, kand.
tekhn. nauk, dots.; SYROMYATNIKOV, Valentin Matveyevich,
inzh.; SEROV, Ye.P., kand. tekhn. nauk, dots., red.;
VOLOBUYEVA, I.V., red.

[Superheaters of boiler units] Paroperegrevateli kotel'-
nykh agregatov. Moskva, Energiia, 1965. 287 p.
(MIRA 18:4)

SEROV, Ye.P., kand.tekhn.nauk; KOROL'ROV, B.P., inzh.

Dynamic characteristics of boiler unit elements. Teploenergetika
12 no.1:15-18 Ja '65. (MIRA 18 4

1. Moskovskiy energeticheskiy institut i Energeticheskiy institut
Sibirskogo otdeleniya AN SSSR.

SEROV, Ye.P., kand. tekhn. nauk; PASHKOV, L.T., inzh.

Stability of motion in steam generating pipes. Trudy
MFI no.63:141-152 '65. (MIRA 18:12)

SEROV, Ya.P., kand. tekhn. nauk; SMIRNOV, O.K., kand. tekhn. nauk;
REZIN, V.I., inzh.

Effect of mass flow rate on the stability boundary of a
flow in parallel connected steam generating pipes. Trudy
MBI no.63:153-162 '65. (MIRA 18:12)

SEROV, Ye.P., kand. tekhn. nauk; MOZHAROV, N.A., kand. tekhn. nauk;
PULELA KAMESVARA SARMA, inzh.

Generalization of experimental data on critical heat currents
in a forced flow of a steam and water mixture. Izv. vys.
ucheb. zav.; energ. 8 no.11:44-49 N '65. (MIRA 18:11)

1. Moskovskiy ordena Lenina energeticheskiy institut. Pred-
stavlena kafedroy kotel'nykh ustanovok.

ACC NR: AP7003342

(N)

SOURCE CODE: UR/0096/67/000/001/0072/0074

AUTHORS: Serov, Ye. P. (Candidate of technical sciences); Polonskiy, V. S. (Engineer, Dissertant)

ORG: Moscow Power Institute (Moskovskiy energeticheskiy institut)

TITLE: Analysis of the boiling phenomenon in steam generating channels under pulsating conditions

SOURCE: Toploenergetika, no. 1, 1967, 72-74

TOPIC TAGS: heat theory, heat transfer, heat phenomenon, heat of vaporization, steam boiler, *mathematic analysis, thermodynamic analysis*

ABSTRACT: A mathematical analysis of the boiling phenomenon in steam generating channels under pulsating conditions is presented. The results of the analysis, based on a quasi-static assumption, are given in terms of a structural scheme which takes into account the effect of perturbations on the flow rate of coolant and pressure and enthalpy of heating (see Fig. 1). A comparison of the calculated results with the experimental data of Z. L. Miropol'skiy, M. Ye. Shitsman, and V. Yu. Pikus (IFZh, t. VII, No. 6, 1964) is tabulated. It was found that the theoretical results were in satisfactory agreement with the experimental data.

Card 1/2

UDC: 621.18.536.423.1

ACC NR: AP7003342

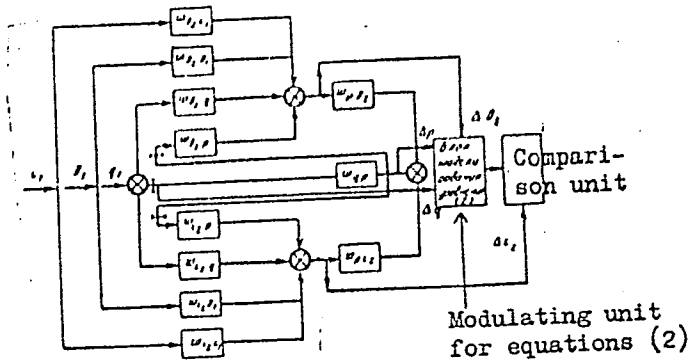


Fig. 1. Structural scheme for the calculation of boiling parameters under pulsating conditions. W_{D_2q} , W_{i_2q} , etc are transfer functions where D is the flow rate of coolant, p - the pressure, i - enthalpy of coolant, and q - heat flux

Orig. art. has: 1 table, 2 graphs, and 15 equations.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001

Card 2/2

SEROV, Yelizaveta Vladimirovna, doktor med. nauk; KAZNIN, V.P., red.;
LYUDKOVSKAYA, N.I., tekhn. red.

[Surgical anatomy of the lungs]Khirurgicheskaiia anatomia leg-
kikh. Moskva, Medgiz, 1962. 144 p. (MIRA 16:1)
(LUNGS) (ANATOMY, SURGICAL AND TOPOGRAPHICAL)

BOBIN, V.V.; GALANTICHOV, A.B.; SEROVA, A.D.

Geological structure of the Aktyubinsk' part of the Ural Mountain
region. Trid. nauch. no. 32:155-156 1971. (LIRA 12:7)
(Aktyubinsk' Province--Geology)

SECURITY, N.I.

Psychiatric Clinic,
Dagestan Med. Inst

Med

Conditioned-reflex hypoglycemia in psychic patients. 2
 A. I. Serova. *Zhur. Nevropatol. i Psikiatrii im. Korsakova*
 34, 767-8(1954).—Eighteen patients were kept under obser-
 vation: 14 schizophrenics, 3 reactive psychotics and 1 alco-
 holic delirium. All were under insulin treatment. The
 purpose was to det. whether hypoglycemia can be induced
 by the injection of physiol. saline in psychiatric patients,
 kept under insulin treatment, and whether hypoglycemic
 response to insulin treatment is a true biochem. or merely a
 conditioned reflex reaction. Patients were given physiol.
 saline injections instead of insulin, and sugar detns. were
 made 1, 2, and 3 hrs. later. S. concludes that the con-
 ditioned-reflex hyperglycemia developed in psychic pa-
 tients kept under insulin treatment is of a lower level.
 Generally, following placebo injection the blood sugar is
 considerably lowered on the 2nd day and returns to normal
 on the 3rd day. The fall in the blood sugar following saline
 injection in psychic patients under insulin treatment 1.5-
 2.5 hrs. after the placebo injection may amount to 18%
 and in some instances to 30%. A few cases exhibited a
 neuro-inertia to the placebo treatment, and in other few
 cases a rapid and high hyperglycemia developed. This
 was especially true in patients whose psychiatric condition
 showed symptoms of improvement. In some instances in
 which psychic symptoms were aggravated while under in-
 sulin treatment, the injection of saline caused a rise in the
 blood sugar (cf. following abstr.).
 B. S. Levine
 The prognostic significance of conditioned hypoglycemia
 in psychic patients. N. P. Stashchenko (M. A. Kalinin
 Med. Inst., Omsk). *Zhur. Nevropatol. i Psikiatrii im.*
Korsakova 34, 787-8(1954).—General test procedure was
 identical with the one used by Serova (cf. preceding abstr.)
 and the types of patients and the treatment results were
 nearly the same. S. concludes that a conditioned hypo-
 glycemia in psychiatric patients under insulin treatment is

1/2

SUNOVA, A. I., STASHCHENKO, N. P.

a favorable prognostic indicator; this is especially true of schizophrenics. In the majority of the patients who manifested no conditioned hypoglycemia while under insulin treatment, insulin therapy failed to bring about favorable results.

B. S. Levine

2/2

SEROVA, A.I.

Some laboratory studies of neurohumoral disorders in schizophrenia.
Trudy Gos.nauch.-issl.inst.psikh. 27:151-155 '61. (MIRA 15:10)

1. Dagestanskiy meditsinskiy institut. Dir. - prof. M.T.Nagornyy.
Kafedra psikhatrii. Zav. - zasluzhennyy deyatel' nauki
Dagestanskoy ASSR prof. V.A.Glazov.
(SCHIZOPHRENIA) (NEUROCHEMISTRY)

DUDEROV, G.N.; Primali uchastiye: ZORIN, N.; TSIKMAN, Ye.; SEROVA, A.M.

Effect of small additions of barium, magnesium, and calcium salts on the firing and technical properties of high-alumina bodies. Trudy MKHTI no.37:148-156 '62. (MIRA 16:12)

BURKBER, V.Ye.; IOFFE, Ya.Ye.; IVANITSKIY, A.V.; FREYDENZON, Yu.Ye.;
SEROVA, A.M.

Investigating the irregularities of the heating of sheet ingots
in compartment-type, heating furnaces with a sliding bottom.
Stal' 25 no.6:569 Je '65. (MIRA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.

BYE YANBYEVA, R.A., ISLIMOV, Sh.G., CHAPRASOVA, L.V., BEROVA, A.P.

Complex extraction of rare earths with
N-methylacetamide- α - β -naphthol. Nauch.trudy TashGU no.263.
Inzheneri no.13:69-71 '64. (MIRA 18:8)

SEROVA, F. G.

PA32/49T88

USSR/Physics
Conductivity
Electron Theory

Feb 49

"The Theory of Electroconductivity in Monovalent Metals," F. G. Serova, Gor'kiy Pedagogical Inst, 6 1/2 pp

"Zhur Ekaper 1 Teoret Fiz" Vol XIX, No 2

Shows by using, for calculating electroconductivity, the same wave functions of valence (conductivity) electrons as are used for calculating cohesion forces and other properties of monovalent metals, much better agreement of the calculated absolute value of
32/49T88

USSR/Physics (Contd)

Feb 49

specific conductivity with the experimental for Li than by the plane wave calculation used by Bardeen. (Phys Rev, LI, 355, 1937). For Na and K, practically the same good results obtained by Bardeen are arrived at. Submitted 14 Jun 48.

32/49T88

SEROVA, F.G.

Theory of Thomson effect in semiconductors. Izv.vys.ucheb.zav.; fiz.
no.3:123-129 '60. (MIRA 13:7)

1. Gor'kovskiy pedinstitut im. A.M. Gor'kogo.
(Thomson effect) (Semiconductors)

S/139/62/000/004/001/018
E039/E420

AUTHOR: Serova, F.G.

TITLE: The use of the drift velocity method to study thermoelectric and thermomagnetic effects in metals and semiconductors

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika, no.4, 1962, 3-15

TEXT: Recent work on electrical conductivity and galvanomagnetic effects has shown that results obtained using the drift velocity method are similar to those obtained using the kinetic equation method. The comparison has therefore been extended to include thermoelectric and thermomagnetic effects: The drift velocity is found from the differential equations of motion of electrons in an external field. In the particular case of the thermoelectric effect in metals values of the thermal emf α , the Thompson coefficient τ_T and Peltier coefficient Π , are calculated for the case (a) when the mean free path $\ell = \tau v$ is independent of electron energy ϵ and also for the case (b) when the mean free path is directly proportional to ϵ^2 . Kinetic equation results
Card 1/2