VOIOSHINA, A.M.

Presence of upper Cretaceous deposits in berehole profiles in the Carpathian piedmont fault. Geol.sber.[Lvov] no.2/3:323-324 '56. (MLRA 10:3)

1. Institut geolegii poleznykh iskopayemykh AN USSR, L'vov. (Carpathian Mountain Pegion-Geolegy, Stratigraphic)

VOLOSHINA, A. M.

"Foraminifera of the Upper Cretaceous of the Volyno-Podol Slab and Their Significance in Stratigraphy." Cand Geol-Min Sci, L'vov U, L'vov, 1954. (RZhGeol, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556 24 Jun 55

VOLOSHINA, A.P.

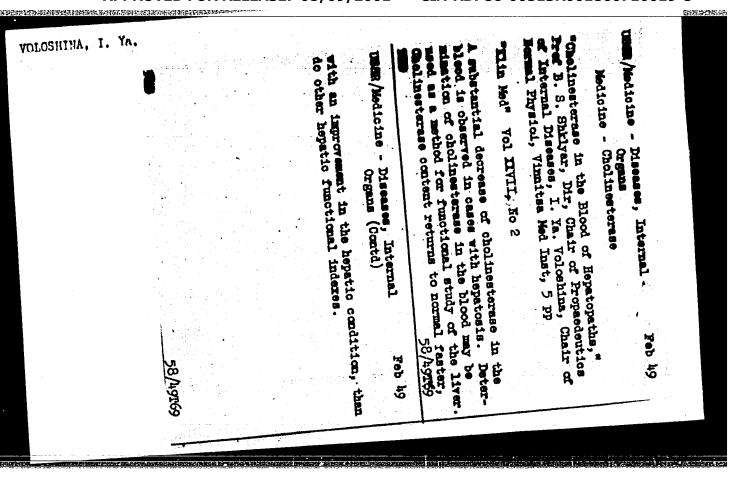
Some characteristics of the microclimate in the midile Angara
Valley. Yest. Mosk. un. Ser. biol., pochv., geol., geog. 13
no. 1:221-230 '58. (MIRA 11:7)

1. Moskovskiy gosudarstvennyy universitet, Kafedra klimatologii.
(Angara Valley---Climate)

ZIL'BERMINTS, Lyudmila Veniaminovna; VOLOSHINA, D.A., red. [deceased]; ZMEYEVA, N.Ya., red.; VZMETSTANOVA, Ye.S., bibliograf.red.; KRYUCHKOVSKIY, S.A., bibliograf.red.

[Bibliography of Soviet technical bibliography, 1917-1959]
Bibliografiia sovetskoi tekhnicheskoi bibliografii 1917-1959.
Pod red. D.A.Voloshina i N.IA.Zmeevoi. Leningrad, M-vo
kul'tury RSFSR. Gos.publichnaia biblioteka im. M.E.SaltykovaSachedrina, 1959. 505 p.

(Bibliography--Technology)



2808 18 8200

25922

5/126/61/012/001/014/020

AUTHORS:

Voloshina, L.A. and Rozenberg, V.M.

TITLE:

Investigation into the creep of aluminium bi-crystals PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.12, No.1,

TEXT: The generally accepted view that the relative movement of crystals plays an important part in deformation during creep is based partly on the fact that grains stand up in relief on a preliminarily polished surface of a specimen tested in creep. However, it can be postulated that this effect is caused not by crystal boundary sliding but by the fact that the adjacent crystals are deformed in a different manner. The most convenient way of checking this theory is to conduct creep tests on specimens on which the behaviour of any given grain boundary can be easily studied, bi-crystal specimens being most suitable for this purpose. effect of temperature, applied stress and degree of misorientation between grains on the rate of creep and degree of deformation of bi-crystals has been studied by several workers. present investigation was to measure the elongation of various parts

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Investigation into the creep ...

S/126/61/012/001/014/020 E193/E480

of an aluminium bi-crystal test piece with a particular reference to the grain-boundar; regions and to study the microstructure of these regions. The bi-crystal specimens were prepared from AB000 (AV000) grade aluminium by the usual method of annealing the lightly deformed metal. The creep test pieces (with the parallel portion measuring 25 x 5 x 3 mm) were cut from the blanks in such a way that the bi-crystal boundary was inclined at 45° to the test piece axis. The test pieces were annealed at 600°C and electrolytically polished, after which a set of thin scratches was inscribed with an aluminium alloy scriber on the polished surface. All creep tests were carried out at 300°C under an initial stress Each test was periodically interrupted and, of 0.2 kg/mm^2 . after cooling the test piece to room temperature, the total elongation of the gauge length, the elongation of each crystal and the displacement of the scratches intersecting the grain-boundary were measured. Metallographic and X-ray diffraction analyses of the specimens were also carried out. Typical results are reproduced in Fig.1, where the relative elongation (%) is plotted against time (hours); this graph was constructed for a test piece whose stereographic projection is illustrated in Fig. 2, where Card 2/7

Investigation into the creep ...

S/126/61/012/001/014/020 E193/E480

continuous and broken lines relate to the first and second crystals respectively; the plane of projection corresponds to the specimen surface, the point in the centre of the projection representing normal to the specimen surface; the arrow indicates the direction of applied stress. The gauge length of the specimen was divided into 5 parts in the way shown in the insert in Fig.1. Curve 1 in Fig.1 relates to the entire gauge length (i.e. to the part of the test piece bounded by points 1 to 6) while curves 2, 3, 4, 5 and 6 relate to parts bounded by points 1-2, 2-3, 3-4, 4-5 and 5-6 respectively. It will be seen that the rate of creep varied considerably from one part of the test piece to another. particularly significant that the rate of creep of the part containing the grain-boundary, i.e. the part bounded by points 3-4 (curve 4), was slower than that of the adjacent parts, bounded by points 2-3 and 4-5 (curves 3 and 5 respectively). Owing to the difference in the orientation, the rate of creep of any part belonging to the crystal bounded by points 1-3 was slower than the rate of creep of any part of the crystal bounded by points 4-6, The results of other measurements are best summarized by referring to Fig. 3, which shows diagrammatically the bi-crystal (a) before Card 3/7

Investigation into the creep ... S/126/61/012/001/014/020 E193/E480

and (b) after deformation; the symbol & in Fig. 3B denotes the grain-boundary displacement and $x = 1 \cos \alpha$ is the component of resolved in the direction of applied stress. It will be seen from Fig. 4, where $x(\mu)$ is plotted against the strain $\Delta \epsilon_{3-4}(\mu)$ of the part of the test piece bounded by points 3-4, that x is by one order of magnitude smaller than $\Delta \epsilon_{3-4}$ and that there is a definite (linear) relationship between these two parameters. the process of elimination of the possible explanations of these facts, the present authors showed that the observed displacement of the grains is a result of the deformation of the grains in the grainboundary region and not vice versa. This conclusion was supported by the results of the next series of measurements, whose results are reproduced in Fig.6, where the vertical component of L that is the height μ of the step formed by the grain-boundary displacement, is plotted against time (hours), blocks 1-7 showing the magnitude of this component at various points along the grainboundary, as marked on the insert in Fig.6. It will be seen that not only the height of the step varies along the grain-boundary but that there is a point at which the grain-boundary displacement throughout the duration of the creep test remains smaller than at Card 4/7

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Investigation into the creep ...

5/126/61/012/001/014/020 E193/E480 . . .

in addition, the height of the step at certain any other point; points of the grain-boundary decreases with time (see point 3 after 14 hours, point 5 after 40 hours, etc). These results, correlated with the results of metallographic and X-ray analysis, show conclusively that the formation of steps at the grain-boundary during creep is not caused by grain-boundary sliding (relative movement of the adjacent grains) but is mainly a result of the difference in the degree of deformation of the crystals in the Acknowledgments are made regions adjacent to the grain-boundary. to the student I.B.Finkel'shteyn who participated in this work. There are 8 figures, 1 table and 8 references: 3 Soviet and The four most recent references to English language 5 non-Soviet. publications read as follows: McLean D., Farmer M.H. J.Inst. Metals, 1956, October; Tung S.K., Maddin R. J.Metals, 1957, 9, No.7, Sec., 2, 905; Rhines F.N., Borud W.E., Kissel M.A. Trans. ASM, 1956, 48, 919; Intrater J., Machlin E.S. J. J.Inst. Metals, 1960, 88, No.7, 305.

ASSOCIATION: Institut metallovedeniya i fiziki metallov TsNIIChM (Institute of Metal Science and Physics of Metals TsNIIChM)

SUBMITTED: September 9, 1960

Card 5/7

also 1413

26561

5/126/61/012/002/011/019

E021/E480

AUTHORS:

Voloshina, L.A., Rozenberg, V.M. and Finkel'shteyn, I.B.

TITLE:

The connection between boundary migration and

deformation in the boundary zones during the creep of

metals

PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.12, No.2,

pp.265-268

Experiments were carried out on bicrystals of aluminium. TEXT: The boundary between the crystals was at 45° to the strain axis A stress of 200 g/mm² and a temperature of 300°C of the sample. were used. Lines intersecting the grain boundary were drawn on the electropolished surface before test. During the creep test, the relative displacement of the lines (in the plane of observation) was measured by an interference microscope. Fig.2 shows (in microns) the relative displacement of the grains (circles) and the migration of the boundary (triangles) against time (in hours). Fig. 3 shows a microphotograph of the bicrystal taken on the interference microscope (x280) and Fig. 4 the profile of the same sample at the grain boundary. The data show that deformation in Card 1/4

5/126/61/012/002/011/019 The connection between boundary ... E021/E480

the boundary regions is not stopped when migration of the boundary occurs. Thus, the alternate relative displacement of grains and migration of boundary, as proposed in Ref.1 (Chang H.C., Grant N.J. J.Metals, 1952, No.6, 619) to explain the cyclic character of the deformation process in the boundary regions, is impossible. It is proposed that the cyclic nature of the process is caused by alternate hardening and softening, the softening in this case being connected with boundary migration. There are 4 figures and 11 references: 5 Soviet and 5 non-Soviet. The four most recent references to English language publications read as follows: Chang H.C., Grant N.J. J.Metals, 1952, No.6, 619;

Rhines F.N., Bound W.E., Kissel M.A., Trans. ASM, 1956, 48, 919; Tung S.K., Maddin R. J.Metals, 1957, 9, N7, sec.2, 905; McLean D. Rev. met., 1956, 53, 139.

ASSOCIATION: Institut metallovedeniya i fiziki metallov TsNIIChM (Institute of Science of Metals and Physics of

Metals TsNIIChM)

SUBMITTED: December 19, 1960

Card 2/4

VOLOSHINA, L. F., TSYGANKOVA, T. M., KAL'FA, S. F. (Prof.) and DUBOVOY, E. D. (Prof.)

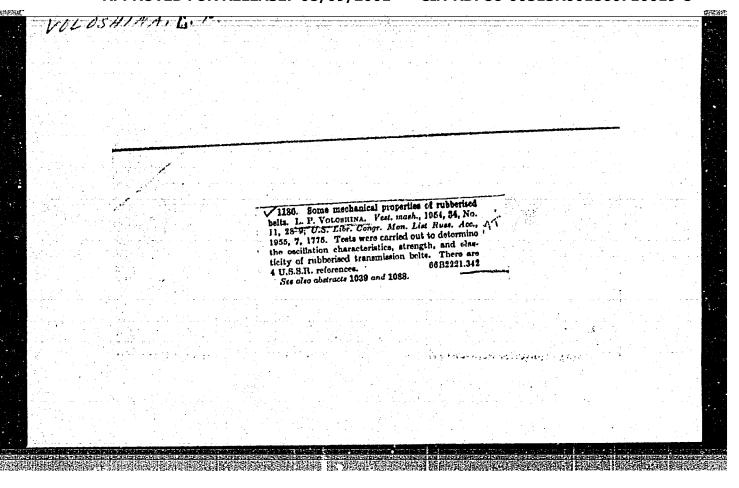
"The Application of Radiophosphorus in the Treatment of Certain Diseases of the Eye", a report presented at the Scientific Conference Devoted to the Application of Radioactive Substances in Medicine, Odessa Medical Institute, December 1954, Arkhiv, Patol., No 2, 1956

DUEOVA, O.A.; VOLOSHINOVA, L.M.

Rapid determination of the moisture in ceramic batches with the EM-1 hygrometer. Stek.i ker. 18 no.8:40 Ag '61.

(HIRA 14:8)

(Geramics—Moisture)

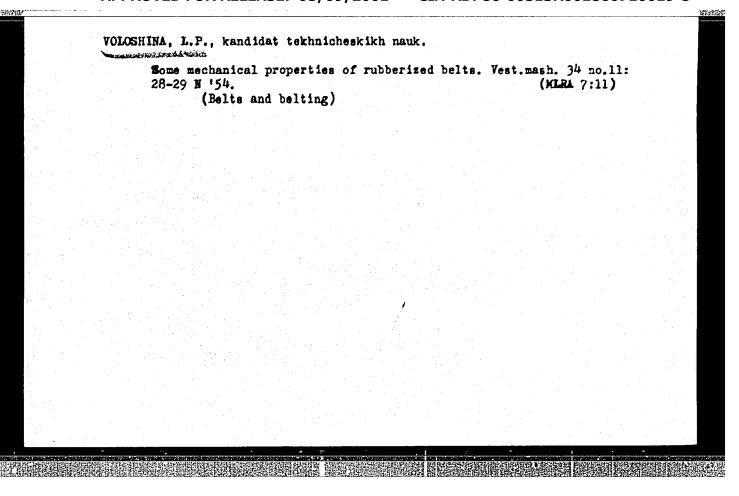


FLORINSKIY, F.V., prof.; VOLOSHINA, L.P., dots.; LYAKHOVITSKIY, S.I., kand. tekhn.nauk; SHIROCHENKO, Ye.V., dots. [deceased]; ARCHAKOVA, L.A., inzh.; GVAY, T.B., inzh.; MURZINA, Z.I., inzh.

Results of research on screen vibrating in the horizontal horizontal plane. Izv.vys.ucheb.zav.; gor.zhur. no.2:167-170 '60.

(MIRA 14:5)

1. Dnepropetrovskiy gornyy institut.
(Screens (Mining))



VOIOSHINA, L.P

USSR/Engineering - Rubberized belts

Card 1/1 Pub. 128 - 6/32

Authors : Voloshina, L. P.

Title : About certain mechanical characteristics of rubberized belts

Periodical: Vest. mash. 11, 28-29, Nov 1954

Abstract: Tests were conducted to determine the oscillation characteristics, strength and elasticity of rubberized drive-belts. Four USSR references (1932-1948).

Drawing; diagram; graph.

Institution: ...

Submitted : ...

VOLOSHINA, M.S. [Voloshyna, M.S.]

Some properties of one class of strongly elliptical systems of partial differential equations with variable coefficients. Dep.AN URSR. no.10:1033-1037 58. (MIRA 12:1)

1. L'vovskiy gosudarstvennyy universitet im. Iv.Franka.
Predstavil akademik AN USSR B.V.Gnedenko [B.V.Hniedenko].
(Differential equations, Partial)

AUTHOR:

Voloshina, M.S._

SOV-21-58-9-1/28

TITLE:

On Some Properties of One Class of Strongly Elliptical Systems (O nekotorykh svoystvakh odnogo klassa sil'no ellipticheskikh sistem)

PERIODICAL:

Dopovidi Akademii nauk Ukrains koi RSR, 1958, Nr 9, pp 913 - 917 (USSR)

ABSTRACT:

The author considers a self-conjugated system of Euler equations which corresponds to the basic variational problem for the positive definite functional (in the matrix manner of presentation)

$$\int ... \binom{n}{D} ... \int \sum_{k,1=1}^{n} \frac{\partial u'(x)}{\partial x_k} A_{k1} \frac{\partial u(x)}{\partial x_1} dx, dx_n,$$

where D is a certain n-dimensional region of real space; $A_{kl} = A_{lk}$ are constant real square matrices of p-order; $A_{kl} = A_{lk}$ (transposed matrix); $x = (x_1, ..., s_n)$ is a point of n-dimensional real space.

Card 1/3

507-21-58-9-1/28

On Some Properties of One Class of Strongly Elliptical Systems

The system

$$A\left(\frac{\partial}{\partial x}\right)u(x) = \sum_{k,l=1}^{n} A_{kl} \frac{\partial^{2}u(x)}{\partial x_{k}\partial x_{l}} = 0$$

is strongly elliptical in the meaning attached to this word by M.I. Vishik Ref. 47. According to Ya.B. Lopatinskiy Ref. 17 the fundamental matrix of this system with singularity at point x = y looks as follows:

 $\varphi(x-y) = \frac{(n-3)!}{(-2\pi i)^n} \int ...(n-2)... \int_{\substack{(t,\tau)=1\\ (t,\nu)=1}} d_t \int \frac{A^{-1}(\beta \nu + \tau)}{(x-y,\beta \nu + \tau)^{n-2}} d\beta,$ where τ and ν are real n-dimensional unit vectors;

 $\tau_1 v_1 + \dots + \tau_n v_n = 0$: $d_r s$ is the element of the surface of the unit sphere $(\tau, \tau) = 1$; $\int (...) d\beta$ means integration over a simple positive-oriented closed contour which includes all β -roots of det A($\beta\nu+\tau$) = 0 equation with positive ima-

ginary part. The author proves a theorem which establishes the connection between the fundamental matrix and the nucleus of the potential type integral found by Ya.B. Lopatinskiy

Card 2/3

SOV-21-58-9-1/29

On Some Properties of One Class of Strongly Elliptical Systems

Ref. 2 for a general class of elliptical systems. This connection makes it possible to apply the Neumann-Kellog method of solving the Dirichlet problem in the case of the systems under consideration. There are 6 references, 5 of

which are Soviet and I unidentified.

ASSOCIATION: Livovskiy gosudarstvennyy universitet imeni I. Franka

(L'vov State University imeni I. Franko)

PRESENTED: By Member of the AS UkrSSR, B.V. Gnedenko

SUBMITTED: March 22, 1958

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the trans-

literation.

1. Topology 2. Matrix algebra--Applications

Card 3/3

AUTHOR:

Voloshina, M.S.

507/21-58-10-1/27

TITLE:

On Some Properties of One Class of Strongly Elliptical Systems of Partial Differential Equations with Variable Coefficients (O nekotorykh svoystvakh odnogo klassa sil'no ellipticheskikh sistem differentsial'nykh uravneniy s peremennymi koeffitsiyentami)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 10,

pp 1033-1037 (USSR)

ABSTRACT:

A theorem derived by the author in the previous paper [Ref.7] on the connection between the fundamental matrix and the nucleus of the potential-type integral is applied to the core of the following system:

to the case of the following system:

 $A\left(\frac{x}{2x}\right)u(x) = \sum_{h=1}^{\infty} A_{h}l(x) = \sum_{h=1}^{\infty} A_{h}l(x) + \sum_{h=1}^{\infty} A_{h}l(x) = \sum_{h=1}^$

which is a self adjoint system of Euler's equations corresponding to the basic variational problem for the positive-definite functional of the form:

Card 1/2

 $/-(m) = \int_{A} (u, x) dx = \int_{A} \frac{u'(x)}{u(x)} dx \left(dx dx - dx \right)$

SOV/21-58-10-1/27

On Some Properties of One Class of Strongly Elliptical Systems of Partial Differential Equations With Variable Coefficients

where = const, and A is a square matrix of the p-order. The system of equations is strongly elliptical in a sense attached to this word by M.I. Vishik. Imposing some restrictions on the coefficients of this system, the author employs Neumann - Kellog's method of solving the Dirichlet problem in the case of the system under consideration. This investigation was carried out under the guidance of Professor

Ya.B. Lopatinskiy. There are 7 Soviet references.

ASSOCIATION: L'v

L'vovskiy gosudarstvennyy universitet im. Iv. Franka

(Livov State University imeni Iv. Franko) By Member of the AS UkrSSR, B.V. Gnedenko

PRESENTED: SUBMITTED:

April 14, 1958

NOTE:

Russian title and Russian names of individuals and institu-

tions appearing in this article have been used in the

transliteration.

1. Partial differential equations -- Theory

Card 2/2

Voloshina, N.M., inzh.; Bondar', V.I., inzh.

Yenakiyevo metallurgical plant. Metallurg 8 no.9:21-23 5 '63.

(Mira 16:10)

(Yenakiyevo--Iron and steel plants)

Treating internal surfaces of ingot molds with a powdered-metal paste. Sbor.rats.predl.vnedr.v proizv. no.5:17 160. (MIRA 14:F) 1. Yenakiyevskiy metallurgicheskiy zavod. (Foundries-Equipment and supplies)		Trestin	ø interna	l surface	s of ing	ot mol	ds with	a powe	lered-	metal		
1. Yenakiyevskiy metallurgicheskiy zavod. (Foundries—Equipment and supplies)		paste.	Sbor.rat	s.predl.v	nedr.v p	roizv.	no.5:	17 160)	
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	(HEARTINFARCTION) (ANGINA PECTORIS) (IODINE)		
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VOLOSHINA, R.I.; BELYAYEVA, N.I.

New fabrics made by the Bryansk Woolen and Worsted Combine.
Tekst. prom. 23 no.10:46-50 0 '63. (MIRA 1'7:1)

1. Nachal'nik dessinatorskoy masterskoy Bryanskogo kamvol'nogo kombinata (for Voloshina). 2. Zaveduyushchiy khimicheskoy laboratoriyey Bryanskogo kamvol'nogo kombinata (for Belyayeva).

SAL'TSEVA, M.T., dotsent; VOLOSHINA, N.Yu., aspirant

Importance of Mallen's reaction in determining the activity of the rheumatic process. Vop.revm. 3 no.1:76-79 Ja-Mr '63.

1. Iz kafedry gospital noy terapii lechebnogo fakul teta (zav. prof. V.G. Vogralik) Gor'kovskogo meditsinskogo instituta imeni S.M.Kirova.

(RHEUMATIC HEART DISEASE)

17(

SOV/177-58-7-3/28

AUTHOR:

Voloshina, U.A., Colonel of the Medical Corps

TITLE:

Patterns of Forward Area Medical Charts and Casualty

Disposition Tags

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 7, pp 17-20

(USSR)

ABSTRACT:

The author gives a survey of the history of the medical shart, beginning from the time of Peter I to the present. The medical card published by the International Committee of the Red Cross after World War I has been improved and supplemented by the Soviet Military-Medical Administration. There is 1 form of a medical chart for front districts now being used, and 12 diagrams of classification marks on 2 centerfolds.

Card 1/1

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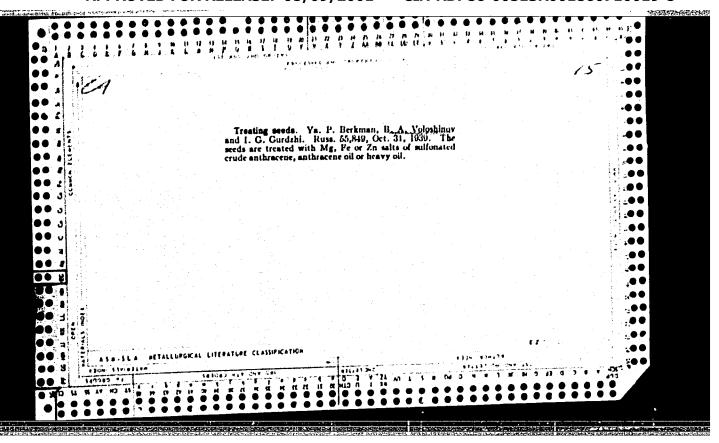
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26007	Voloshina, U.A. i Blinov, A. Ye Meditsinskaya Dokumentatsiya V Voyskovov Chasti Ina Korable. VoenMed. Zhurnal, 1948, No.6, S. 25-31.	
	SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948	

VOLOSHINA, V.P.

Peculiarities of the clinical course of croupous pneumonia in children treated with antibiotics and sulfanilamides. Vop.okh.mat. i det. 1 no.6:87 H-D .56.

1. Iz kliniki detskikh bolezney Bostovskogo meditsinskogo instituta (SULFABILANIDES) (ANTIBIOTICS) (PNEUMONIA)

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UKRAINE / Human and Animal Physiology. Blood.

T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41234.

Author : Voloshinov, B. M.

Inst : Not Given.

Title : The Leucolytic Index of the Blood Serum in Children.

Orig Pub: Pediatriya, akusherstvo. ginekologiya, 1956, No 5,

21-24.

Abstract: The leucolytic properties of the blood serum were studied in 27 boys and 18 girls, aged 2-10 and older, suffering from congenital hemolytic jaundice, pneumonia, parenteral dyspepsia, bronchitis and catarrhal otitis media. The ability of the childrens sera to dissolve guinea pig leucocytes may serve as an index of changes in the status of the protective properties of the body. The serum leucolytic index (LI) in 50 adults varied from

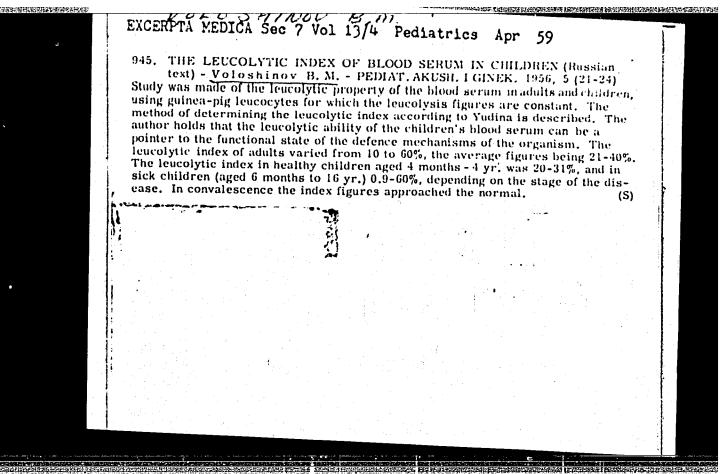
Card 1/2

55

STULIY, L.A.; BAFRONOVA, O.N.; BUTS'KA, L.K., kand. med. nauk; KRIVOBOKOV, S.A. [Kryvobokov]; VOLOSHINOV, B.M. [Voloshynov, B.M.], dotsent BICHKOVSKIY, V.N. [Byshkovs'kyi, V.N.] dotsent; POKOTILOVA, V.Yu. [Pokotylova, V. IU]; KOLESNIKOV, G.F. [Kolesnykov, H.F.]; ZLATKIS, L.S.; SAVOST'YANOVA, S.I.; BRIN, D.D. [Bryn, D.D.]; MATVEYENKO, Ye.A. [Matviienko, IE.A.]; BRONZ, L.M.; YEPSHTEYN, L.G. [Epshtein, L.H.], kand. med. nauk; SHAKHNOVICH, L.A. [Shakhnovych, L.A.]

Annotations and authors abstracts. Pediat. akush. ginek. no.3: 31-34 '63 (MIRA 17:1)

1. Khar'kovskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva (for Stuliy). 2. Kafedra detskikh bolezney Odesskogo meditsinskogo instituta (for Safronova). 3. Ukrainskiy institut okhrany materinstva i detstva (for Buts'ka). 4. Detskiy sanatoriy dlya rekonvalestsentov ot tuberkuleznogo meningita, Kiyev, Pushcha-Voditsa (for Krivobokov). 5. Detskaya klinika Ivano-Frankovskogo meditsinskogo instituta (for Voloshinov). 6. Kafedra detskikh infektsionnykh bolezney Krymskogo meditsinskogo instituta (for Bichkovskiy, Pokotilova). 7. Institut infektsionnykh bolezney Kiyev (for Kolesnikov). 8. Khar'-kovskiy oblastnoy detskiy dom No.1 (for Zlatkis, Savost'ynnova, Brin, Matveyenko). 9. Kafedra pediatrii Kiyevskogo medi instituta (for Bronz) 10. Kafedra fakul'tetskoy pediatrii Cor'kovskogo medinstituta (for Yepshteyn). 11. 2-ya detskaya bol'nitsa Shevchenkovskogo rayona g. Kiyeva (for Shakhnovich).



VOLOSHINOV, B.S., inshener; SHCHUPKIN, V.A., inshener.

IUUMZ planetary reduction gears. Vest.mash. 36 no.11:8-12 N'56.

(Gearing)

(Gearing)

VOIOSHINOV, D.B.

Elastotonometric examinations in hypertension. Oft. zhur. 14 no.2: 101-107 '59. (MIRA 12:7)

1. Iz kliniki glaznykh bolezney (zav. - prof. S.F. Kal'fa) Odesskogo meditsinskogo instituta.

(EYE-EKAMINATION) (HYPERTENSION)

GUREVICH, M.B., arkhitektor; YEL'KIN, G.A., arkhitektor; FILENKOV, Yu.P., arkhitektor; ZIL'BERMAN, G.P., arkhitektor; KRYUKOV, G.V., arkhitektor; PANCHENKO, N.D., arkhitektor; VOLOSHINOV, G.I., arkhitektor

Regardless of passengers convenience and economics of constructions. Transp. stroi. 15 no.3:57 Mr '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnicheskoy estetiki (for Gurevich, Yel'kin, Filenkov). 2. Novosibirskproyekt (for Zil'berman). 3. MVKhTU (for Kryukov).
4. Moskovskiy gosudarstvennyy proyektnoisyskatel'skiy i
nauchno-issledovatel'skiy institut, transporta Ministerstva
transportnogo stroitel'stva SSSR (for Panchenko, Voloshinov).

VOLOSHINOU, S.D.

100-9-6/11

Vinitskiy, A.M., Candidate of Technical Sciences AUTHORS:

and Voloshinov, S.D., Engineer.

Automatic Regulation of Pressure in Cement Grouting TITLE: Operations (Avtomaticheskoye regulirovaniye davleniya

pri proizvodstve tsementatsionnykh rabot)

No.9, Mekhanizatsiya Stroitel'stva, 1957, No.9, pp. 10 - 19 (USSR). PERIODICAL:

The Laboratory for Automation of the Scientific and ABSTRACT: Research Institute for Building Industry, YuZhNII, designed in collaboration with the Cementation Institute a system for pile cementation which has the following features: speed, accuracy and simplicity of manual setting to a pre-determined pressure; possibility to alter manually the pressure during the process; smoothness and continuity of the automatic regulation of pressure; the servo-motor on the valve can be disconnected automatically; reliable operation during adverse weather conditions. Electrical automatic control of the pressure is applied. The pointer of a pressure gauge is joined with the spring loaded contact which slides along a wire resistance so that the movement of the pressure gauge pointer changes the point of contact on a potentiometer resistance.

Card1/2 The basic circuit diagram of the control circuit is shown in

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100-9-6/11 Automatic Regulation of Pressure in Cement Grouting Operations

Fig. 3, p. 19, and a photograph of it is reproduced in Fig. 4, p. 19. The drive is effected by a 0.27 kW, 3-phase asynchronous motor through a reductor gear which reduces the speed of the drive shaft to 8 r.p.m; the screw producing the pressure can be rotated in either direction. The highest sensitivity is achieved by feeding the equipment with a d.c. of 26 V and to maintain the voltage within the desired limits, a ferromaintain the voltage within the desired limits, a ferromaintain the voltage with a barretter tube is used. The resonance stabiliser with a barretter tube is used. The pressure is maintained with an accuracy of + 1.5% for variations of the supply voltage of + 20%. The automatic controls are designed for many years' operation, but the barretter has to be replaced after each 2 000 hours. There are 4 figures.

AVAILABLE: Library of Congress Card 2/2

1. Construction-Equipment 2. Pressure-Control systems

3. Servo motors-Applications

VoloShinos, S.D., vinitskiy, A.M., kand.tekhn.nauk; VoloShinov, S.D., insh.

The automatic regulation of pressure in cementation. Mekh.stroi.
14 no.9:18-19 5 '57.
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(Gement) (Automatic control)

	Circulating method of injecting cem prom.32 no.2:45-46 F 154.	ent into ground.	Stroi. (MLRA 7:2)	
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VOLOSHINOV, V.; RUMIANTSEV, N. Visual method for studying the processes occuring in engines. Avt. transp. 38 no. 5:49-50 My 160. (MIRA 14:2) (Saratov—Automobile engineering—Study and teaching)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860710019-8" Voloshima, v.P.

Clinical aspects of primary sercome of the pleura. Sov.med. 21
Supplement:28-29 '57.

1. Iz gorodskoy klinicheskoy bol'nitsy No.1 Ashkhabada.

(PLEURA--CANGER)

VOLOSHINOV, V.P., inzh.

Methods of the synthesis of 2_n-pole circuits according to given operational characteristics. Trudy LIIZHT no.176:99-107 '61. (MIRA 15:5)

(Electric filters) (Electric networks)

VOLOSHINOV, V.P., inzit.

Stability of feedback emplifiers. Sbor. trud. LIIZHT no.179:
(MIRA 16:11)
133-138 '61.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860710019-8

Design of a system of antimetric filters for simultaneous operation.

Design of a system of antimetric filters for simultaneous operation.

Shor. trud. LIIZHT no.186 Elektrosviaz' i radiotekhnika:152-161 '62.

(Electric filters)

(Pulse techniques (Electronics))

VOLOSHINOV, V.P.

Calculation of a system of jointly operating filters. Fredy Wral. e3. elektromekh. inst. inzh. zhel. dor. transp. no.8:93-105 (MIRA 18:7)

YERSHOV, A.P.; KOZHUKHIN, Q.I.; VOLOSHIN, Yu.M.

[Input language for an automatic programming system; preliminary information] Vkhodnoi iszyk sistemy avtomaticheskogo programmirovaniia; predvaritel'noe soobshchenie. Moskva, Výchislitel'nyi tsentr AN SSSR, 1961. 173 p. (MIRA 14:8)

(Programming(Electronic computers))

VICTORIST I.T.: VOLOSHINOVA, A.M.

Viscosimetry of their formation during the hydrolysis of salts.

at the moment of their formation during the hydrolysis of salts.

Foll. shur. 16 no.5:333-339 2-0'54. (NIBA 7:11)

(Coagulation) (Viscosimeter) (Aluminum hydroxide)

hydroxide)

228 Subject of continues of the subject of the subj	
VOLOSHINOVA, A.M.	
VOLOSHINOVAJII	
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3.R. 10, 381-31(1004X rmg), translation).—See C.A. 49,	
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NIU GUGMS, Series 1, No 39, 1947.

	Heat exchange Trudy NIU Ser.	in the soil; 1 no.39:32-36	measurement o	f soil temperature. (MIRA 7:2) (Soil temperature)	

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DUBOVA, O.A.: VOLOSHINOVA, L.M.

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Stek. i ker. 18 no.10:39-42 0 '61. (MIR. 14:11)

1. Lisichanskiy stekol'nyy zavod.

(Refractory materials) (Glass furnaces)
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- 4. Sakhalin Geology, Stratigraphic
- 7. Stratigraphy and microfauna of the Tertiary deposits of northern Sakhalin. (Abstract.) Izv.Glav.upr.geol.fon. no. 3, 1947.

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VOLOSHINOVA, N.A.; KUZNETSOVA, V.N.

New data on the morphology and evolutional development of some representatives of the family Elphididae. Vop. mikropaleont. no.8:138-153 *164. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.

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SO: U-4392, 19 August 53, (Letopis 'Thurnal 'nykh Statey, No 21, 1949).

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Volosiii: V.A.; Budasieva, A.I.

Lituolids and trocheminids from Tertiary deposits of Edicalin and Earchatka. Trudy Volcii no.170:169-269 161.

(Sakhali --Voraninifora, Possil)

(Earchatka--Foraninifera, Possil)

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GRIGELIS, A.; DAIN, L.G.; IVANOVA, L.V.; KUZINA, V.I.; KUZNETSOVA,
Z.V.; KOZYREVA, V.F.; MOROZOVA, V.G.; MTATLYUK, Ye.V.; SUBBOTINA, N.N.

New genera and species of Foraminifera. Trudy VNIGRI no.115:5-106 (MIRA 11:10)

158. (Foraminifera, Fossil)

	NOVA, N.A. New systematics	of Monionidae. (Foraminifera.	Trudy VNIGRI Fossil)	no.115:117-223	158.	

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- 1. VOLOSHINOVA, N. A.
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VOLOSHINOVA, N.A.

Degree of knowledge and ways for the further study of Tertiary Lituolidae. Vop. mikropaleont. no.8:3-12 '64. (MIRA 18:5)

1. Sakhalinskoye otdeleniye Vsesoyuznogo nauchno-issledovatel skogo geologorazvedochnogo neftyanogo instituta.

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AUTHOR: Voloshinova, Ye. V.

TITLE: Tentative physiological analysis of the solution of a control problem by man

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Teoriya i primeneniye avtomaticheskikh sistem (Theory and application of automatic systems). Moscow, Izd-vo Nauka, 1964, 164-171

TOPIC TAGS: automaton, human engineering

ABSTRACT: A special experimental outfit (see Enclosure 1) consisting of a dynamoelectric amplifier (EMU-8), a control device, and three voltmeters was employed for testing how a subject (man) solves a problem of controlling the output of a plant. By operating the control handle, the subject had to bring the output variable to a specified value (x • 0) from its initial value (x • 50 v). The voit-

Card 1/3 3

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ACCESSION NR: AT4047751

meters indicated his actions (No. 1) and their effects (No. 2 and No. 3). Six subjects were tested. Two series of experiments were staged: (1) Learning to control the plant describable by a 2nd order differential equation; the plant included two integrating units; and (2) Controlling the plant with different speeds of the processes in it; subjects trained in the first series of experiments were employed. Learning the control functions by a man is regarded as consisting of three stages which are explained on the basis of I. M. Sechenov's and I. P. Pavlov's ideas. "The project was carried out under the guidance of L. G.

Voronin and A. Ya. Lerner. "Orig. art. has: 7 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 06Jun64

ENCL: 01

SUB CODE: DP

NO REF SOV: 014

OTHER: 006

-Card 2/3

40706

5/169/62/000/008/079/090 E032/E114

AUTHOR:

Voloshinova,

TITLE:

Verification of the accuracy of the "Forecasting of maximum usable frequencies at different solar

activities" using ionospheric data

PERIODICAL: Referativnyy zhurnal, Geofizika, no.8, 1962, 24, abstract 8 G 177. (Tr. In-ta zemn. magn. ionosfery i rasprostr. radiovoln. AN SSSR, no.19(29), 1961, 52-70).

"The forecasting of maximum usable frequencies at TEXT: different solar activities" which contains MUF graphs for regular layers of the ionosphere and sunspot numbers W = 0, 50, 100 and 150 was checked by comparison with observational data obtained at ionospheric stations. It was found that the accuracy of the ' forecast is on the average quite satisfactory for activity levels W \angle 150. During the years of very high solar activity the forecast gives MUF values which are too high by 10-15%. The maximum accuracy is achieved for middle latitudes of the northern hemisphere. An analysis is given of the reasons for the Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860710019-8" Verification of the accuracy of ... S/169/62/000/008/079/090 E032/E114

discrepancies between the forecasts and the observations, and steps are recommended whereby the accuracy can be increased.

[Abstractor's note: Complete translation.]

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860710019-8

Woscow. Institut stali.

Novoye v teorii i praktike proizvodatva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Motallurgidat, in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Motallurgidat, 1961. 1959 P. (Series: Trudy Mezhruzovskogo nauchnogo soveshehaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vyssbago i srednego spetsial'nogo obrazovaniya HESER. Moskovskiy institut stali imeni I. v. Stalina.

Eds.: H. A. Olinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Professor, Doctor of Technical Sciences, Stal. Ic., and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences, Stal. Ic., and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences, Stal. Ic., Encholage Staling House: R. D., Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

Card 1/14

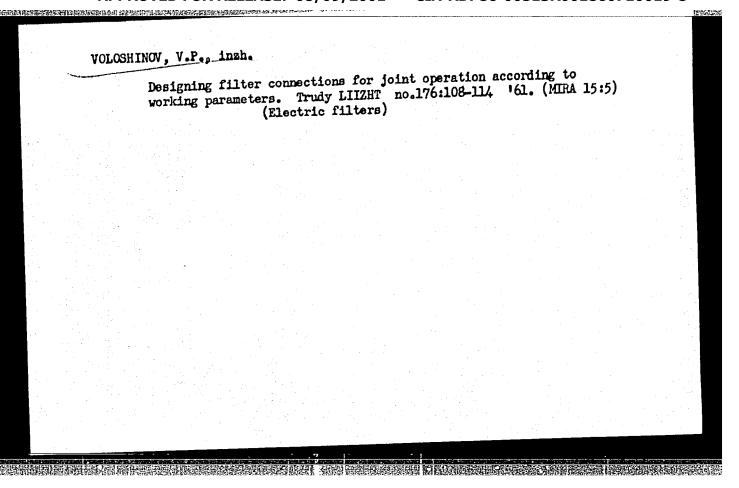
"APPROVED FOR RELEASE: 08/09/2001

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85 807/5556 New [Developments] in the Theory (Cont.) COVERAGE: The collection contains papers reviewing the development of openhearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered; the kinetics and mechanism of carbon exidation; the process of slag formation in open-hearth furnaces using in the charge either ore-line briquets or composite flux (the product of calcining the mixture of lime with banxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal molting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: 8.1. Filippov, V.A. Kudrin, M.A. Glinkov, B.P. Nam, V.I. Yavoyskiy, O.M. Oyks and Ye. V.A. Kudrin, M.A. Glinkov, B.P. Nam, V.I. Yavoyskiy, O.M. Oyks and Ye. V. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets (Institute of Kharitonov) Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov. and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin Ural Polytechnic Institute); I.I. Fomin (the Moscov "Serp i molot" Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute) Card 2/14

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	New [Developments] in the Theory (Cont.) 80V/555		
	and M.I. Beylinov (Hight School of the Deeprodzerzhinsk Metallu References follow some of the articles. There are 268 reference	rgical Institute). es, mostly Soviet.	
	TABLE OF CONTENTS:		
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	Yavoyskiy, V. I. [Moskovskiy institut stall - Moscow Steel Institut Principal Trends in the Development of Scientific Research in Stee Manufacturing	7	
	Filippov, S. I. [Professor, Doctor of Technical Sciences, Moscov Institute]. Regularity Patterns of the Kinetics of Carbon Oxidation Metals With Low Carbon Content [V. I. Antonenko participated in the experiments]		
	Levin, S. L. [Professor, Doctor of Technical Sciences, Dnepropetr metallurgicheskiy institut - Dnepropetrovsk Metallurgical Institu	ovskiy ite].	
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•	Hew [Developments] in the Theory (Cont.) BOV/5556	10		
· · · · · · · · · · · · · · · · · · ·	Kleyn, A.L., and P.V. Umrikhin [Ural Polytechnic Institute]. Slag Formation When Using Composite Flux Produced by Calcination of Lime-Bauxite Mixture	117		
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	Ofengenden, A.M. [Engineer]. Accelerating the Slag Formation and Desulfurization in the Open-Hearth Process	140		
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		Kleyn, A.L., and P.V. Umrikhin [Ural Polytechnic Institute]. Slag Formation When Using Composite Flux Produced by Calcination of Lime-Bauxite Mixture Ushakov, Ye. N. [Candidate of Technical Sciences], Ye. V. Abrosimov, [Docent, Candidate of Technical Sciences], V.I. Kozlov, V.A. Shcherbakov [Engineers], A.G. Kotin [Candidate of Technical Sciences], and M.P. Sabiyev [Engineer], [Moscow Steel Institute, Ukrainakiy nauchno-issledovatel'skiy institut metallov - Ukrainian Scientific Research Institute of Metals, Alchevskiy metallurgicheskiy zavod - Alchevsk Metallurgical Flant]. Improving the Steelmaking Process in Large-Capacity Open-Hearth Furnaces Voloshina, N.M. [Engineer]. Using Ore-Lime Briquets Instead of Ore and Lime in the Open-Hearth Process [D.I. Sapiro, P.I. Kovalev, S.I. Zhmak, G. Ye. Kravtsov, Engineers, and I.M. Tkachenko, A.P. Poletayev, Technicians participated in the research work] Ofengenden, A.M. [Engineer]. Accelerating the Slag Formation and Desulfurization in the Open-Hearth Process	Kleyn, A.L., and P.V. Umrikhin [Ural Polytechnic Institute]. Slag Formation When Using Composite Flux Produced by Calcination of Lime-Bauxite Mixture Ushakov, Ye. N. [Candidate of Technical Sciences], Ye. V. Abrosimov, [Docent, Candidate of Technical Sciences], V.I. Kozlov, V.A. Shcherbakov [Engineers], A.G. Kotin [Candidate of Technical Sciences], and M.P. Sabiyev [Engineer], [Moscov Steel Institute, Ukrainakiy nauchno-isaledovatel'skiy institut metallov - Ukrainian Scientific Research Institute of Metals, Alchevskiy metallurgicheskiy zavod - Alchevsk Metallurgical Plant]. Improving the Steelmaking Process in Large-Capacity Open-Hearth Furnaces 125 Voloshina, N.M. [Engineer]. Using Ore-Lime Briquets Instead of Ore and Lime in the Open-Hearth Process [D.I. Sapiro, P.I. Kovalev, S.I. Zhmak, G. Ye. Kravtsov, Engineers, and I.M. Tkachenko, A.P. Poletayev, Technicians participated in the research work] Ofengenden, A.M. [Engineer]. Accelerating the Slag Formation and Desulfurization in the Open-Hearth Process	Kleyn, A.L., and P.V. Umrikhin [Ural Polytechnic Institute]. Slag Formation When Using Composite Flux Produced by Calcination of Lime-Bauxite Mixture 117 Ushakov, Ye. N. [Candidate of Technical Sciences], Ye. V. Abrosimov, [Docent, Candidate of Technical Sciences], V.I. Kozlov, V.A. Shcherbakov [Engineers], A.G. Kotin [Candidate of Technical Sciences], and M.P. Sabiyev [Engineer], [Moscow Steel Institute, Ukrainakiy nauchno-issledovatel'skiy institut metallov - Ukrainian Scientific Research Institute of Metals, Alchevskiy metallurgicheskiy zavod - Alchevsk Metallurgical Flant]. Improving the Steelmaking Process in Large-Capacity Open-Hearth Furnaces 125 Voloshina, N.M. [Engineer]. Using Ore-Lime Briquets Instead of Ore and Lime in the Open-Hearth Process [D.I. Sapiro, P.I. Kovalev, S.I. Zhmak, G. Ye. Kravtsov, Engineers, and I.M. Tkachenko, A.P. Poletayev, Technicians participated in the research work] Ofengenden, A.M. [Engineer]. Accelerating the Slag Formation and Desulfurization in the Open-Hearth Process 140



NAPALKOV, A.V.; VOLOSHINOVA, Ye.Y.

Interrelation between the various components of the complex system of conditioned motor food reflexes in rats. Zhur. vys. nerv. deiat. 11 no.6:1127-1133 10 '61. (MIRA 15:3)

1. Chair of Physiology of the Higher Nervous Activity, Moscow University.

(CONDITIONED RESPONSE)

ACC NR: AP7002009

UR/0043/66/000/004/0064/0074 SOURCE CODE:

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AUTHOR: Voloshinova, T. V.

ORG: none

TITLE: Synthesis of an invariant structure for some systems of multiply-connected control. I

SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki astronomii, no. 4, 1966, 64-74

TOPIC TAGS: control theory, mathematic matrix, automatic control system, matrix element, polynomial, characteristic equation

ABSTRACT: A system of multiply-connected control consisting of m separate, structurally identical multiloop systems is examined. The equations for the i-th separate system under zero initial conditions are:

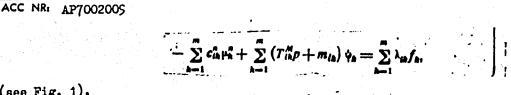
$$T'_{l}p\eta_{l} + \psi_{l} = 0,$$

$$-\sum_{h=1}^{m} r_{lh}\eta_{h} + (T_{l}^{l}p + 1) \mu_{l}^{l} = 0,$$

$$-\sum_{h=1}^{m} \varepsilon'_{lh}\mu'_{h} + (T_{l}^{l+1}p + 1) \mu_{l}^{l+1} = 0 \quad (J=1, \ldots, n-1),$$

Card_ 1/3

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(see Fig. 1).

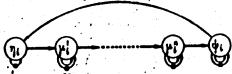


Fig. 1. Graphical representation of system

The system is reduced to one matrix equation for ψ :

$$\left\{ \left[\prod_{i=0}^{n-1} G_{n-i} (T_{n-i}p + E)^{-1} \right] R(T_{i}p)^{-1} + (T_{M}p + M) \right\} \psi = \Lambda f.$$

In order that the product of nondegenerate matrices A and B be a diagonal matrix (AB = D), it is necessary and sufficient that the columns of B be proportional to the columns of A-1, or that the rows of A be proportional to the rows of B-1. If B is a scalar matrix and square matrices A and C with nonzero diagonal elements such that the product AC = D is a nondegenerate diagonal matrix, then ABC = D1 is a diagonal matrix. Four solutions of the system are examined. Solution IV:

 $T_{\mu}=D, M=D, \Lambda=D,$

Card 2/3

CIA-RDP86-00513R001860710019-8 "APPROVED FOR RELEASE: 08/09/2001

ACC NRI AP7002009 $R^{-1}C_{i}^{-1} = D \quad (1 < l < n)$ $C_{k} = D \quad (k = l+1, \dots, n),$ $C_{k} = v_{k}E \quad (k = 1, \dots, l-1),$

$$C_k = D \quad (k = l + 1, ..., n),$$

 $C_k = v_k E \quad (k = 1, ..., l - 1),$
 $C_k = v_k E \quad (k = 1, ..., n).$

An example of a multiply-connected control system consisting of two one-loop separate systems, each of which has two degrees of amplification, is examined. Orig. art. has: 44 formulas and 4 diagrams.

OTH REF: 001 SUB CODE: 12/ SUBM DATE: 29Nov65/ ORIG REF:

Card 3/3

S/271/63/000/001/012/047 D413/D308

AUTHORS:

. Voloshinova, Ye.V. and Shtil'man, Ye.V.

TITLE:

On the simulation of learning processes in automatic

systems

PERIODICAL:

Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitelinaya tekhnika, no. 1, 1963, 39, abstract 1A216 (In collection: Avtomat. regulirovaniye i upr.,

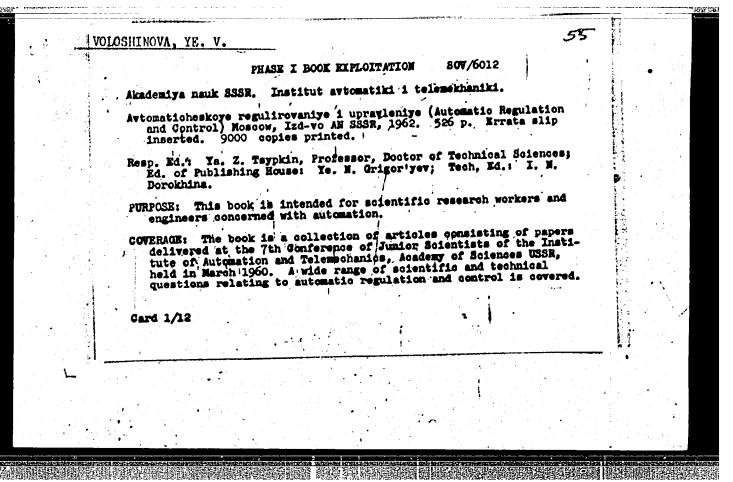
M., AN SSSR, 1962, 188-199)

TEXT: The authors consider the topical problem of the simulation by automatic devices of certain functions of the human and animal brains. They describe the human and animal methods of learning. They point out that the 'method of trial and error' is the fundamental learning method for animals, and briefly set out the principles taken as the basis of machines for proving Gelernter's and Rochester's theorems, of Selfridge's pandemonium and Rosenblat's perceptron, and also consider the learning machine produced in the USSR, designed in the cybernetics SIB of the PEI. They draw conclu-

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860710019-8"

	S/271/63/000/001/012/047 On the simulation of learning D413/D308	
	sions on the basic features of the learning process in living organisms and automatic systems, and give a classification of automatic learning systems. 18 references. Abstracter's note: Complete translation_7	m- 3
	E Abstracter & Note: Complete translation	
	현실 생활성 등이 발생되고 있는데 그는 하는데 그는 것이 하를 끌고 있다. 첫 물실 생활성 그들은 한 것을 하는데 하는데 하는데 되는데 되었다면 되었습니다.	
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	해보고 있다. 프로그램 등에 함께 하는 사람들이 모든 것이 되는 것이 없는 것이 되었다. 하는 사람들은 경기를 가장하는 것이 되었다. 그 사람들이 모든 것이 있습니다. 그 것이 있다.	
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	The second of the seven sections, including automatic	
	making devices, automatic components and devices, statistical	The second of th
	matic systems, and automated electric drives. No personalities are mentioned. References are given at the end of each article.	
•	PARLE OF CONTENTS:	
	PART I. AUTOMATIC CONTROL SYSTEMS	
	Andreychikov, B. I. The effect of dry friction and slippage [play] on error during reverse gear operation of serve-feed systems	
	Andreychikev, B. I. Dynamic accuracy of machine tools with programmed central	
	Card 2/12	
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	Automatic Regulation (Cont.) S07/6012		•
	Norkin, K. B. Transmitter autotuning system using an automatic optimizer	144	
	Parsheya, R. P. On the boundedness of transient regimes in a five-dimensional automatic control system	154	
	Shadrin, V. M. Programmed control system with frequency distribution of channels	161	:3
	Pateyeva, E. A. Three-channel optimizer	167	
	Chasanov, M. M. Analysis of the dynamic characteristics of an automatic control system for air conditioners	176	
	Yologhinova, Ye. V. and Ye. V. Shtil'man. On modelling learning processes in automatic systems	188	
	Gard 5/12		

-	I. 09.69-67 ACC NR: AP6028895 (A,N) SOURCE CODE: UR/0325/66/000/003/0106
) A	UTHOR: Voloshinova, Ye. V.
	ORG: Department of Physiology of Higher Nervous Activity, Moscow State University, im.
M	M. V. Lomonosov (Kafedra fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta)
1	FITLE: Electrophysiologic studies v the human performance of operational tasks
	SOURCE: Nauchnyye doklady vysshey shkoly. Biologicheskiye nauki, no. 3, 1966, 103-106
	TOPIC TAGS: man, central nervous system, signal processing, training, recognition process, EEG, EMG, CONDITIONED REFLEX
	ABSTRACT: The work reports on studies of changes in tentative reactions during the process of training to handle equipment modeling different tasks. The reactions were monitored by EEG, skin-galvanic reaction (SGR) and electromyogram (EMG) of the lower lip, on the assumption that reactions to the secondary signal system, i.e., reactions reflected in speech and thought, are related to kinetic impulses connected with the work of the speech organs. Five groups of individuals, priorily tested for their reactions on the monitoring equipment, received varying degrees of instructions on task performance. Reactions were the same for all groups. In tests for the various stages of establishing a skill, changes were observed in SGR and EEG, the two components of tentative reflex. The SGR and desynchronization of cortical rhythms were seen in the
	Card 1/2

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KERBLAY, T.S.; VOLOSHINOVA, Z.V.

Estimation of the inclinations of equal electron concentrations in the ionosphere based on data on the distribution of ionization with height. Geomag. i aer. 4 no.1:61-66 Ja-F'64.

(MIRA 17:2)

1. Institut zemnogo magnetizma ionosfery i rasprostraneniya radiovoln AN SSSR.

	Verifying the "forecast of the maximum usable frequencies under different conditions of solar activity" on the basis of ionospheric data. Trudy IZMIRAN no.19:52-70 '61. (MIRA 15:3) (Ionospheric radio wave propagation) (Radio frequency)	

ACCESSION NR: APLO13139

8/0203/64/004/001/0061/0066

AITHORS: Kerblay, T. S.; Voloshinova, Z. V.

TITLE: Determining the slopes of surfaces having equal electron concentrations in the ionosphere from data on the distribution of ionization with height

SOURCE: Geomagnetism i aeronomiya, v. 4, no. 1, 1964, 61-66

TOPIC TAGS: ionosphere, electron concentration, ionisation distribution, N(h) profile

ABSTRACT: The authors have investigated slopes of equal electron concentration arising from differences in heights of equal density distribution (h_{N_C}) at different latitudes through differences in illumination and because of latitudinal distribution of h_{N_C} . In the first case a definite diurnal course in slope angle was observed according to changes in h_{N_C} . Negative slope angles of 2-3° were observed as the sun rose. Negative values of equal value characterized the evening hours. In the second case (latitudinal variations in h_{N_C}), the slope angle reached 5°.

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ACCESSION NR: AP4013139

Computations of slope angles were made from data on N(h) profiles at a number of stations in different latitudes and from the world map for h_m , y_m . It was found that the map gives much smaller absolute values than the data on N(h) profiles for individual days, but the times of appearance and the direction of slope are in agreement. The authors conclude that maps of h_m , y_m , replotted to maps of h_{N_C} , may be used to determine the effect of these equal-concentration slopes on the propagation of short waves. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Institut zemmogo magnetizma, ionosfery* i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, the Ionosphere, and Propagation of Radio Waves AN SSSR)

SUBHITTED: 22Hay63

DATE ACQ: 02Mar64

ENCL: 00 6

SUB CODE:

NO REF SOVA COL

OTHER: 002

Cord 2/2

sov/126-6-2-25/34 Voloshinskiy, A. and Kobelev, L.

AUTHORS:

On the Dispersion Relation for an Electron Plasma (O dispersionnom sootnoshenii dlya elektronnoy plazmy) TITLE:

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 2, pp 356-357 (USSR)

ABSTRACT: The dispersion relation for an electron plasma which was first obtained by Vlasov (Ref.1) was also discussed by Klimantovich et alii (Ref.2) and Bohm (Ref.3). In all

these papers the plasma was considered in the selfconsistent field approximation. Virtual interaction of electrons with the self-consistent field when electrons are scattered by the field was not taken into account. The problem is now re-examined and it is shown that in the general case the dispersion relation is determined not only by the form of the electron Green's function but also by the form of the photon Green's function. The dispersion relation is given in an explicit form.

Card 1/2

sov/126-6-2-25/34

On the Dispersion Relation for an Electron Plasma

S. V. Vonsovskiy (Corresponding Member of the Ac.Sc.USSR)

and V. L. Bonch-Bruyevich are thanked for their help.

There are 8 references, 4 of which are Soviet, 4 English.

ASSOCIATION: Ural'skiy gosuniversitet imeni A. M. Gor'kogo (Ural State University imeni A. M. Gor'kiy)

SUBMITTED: April 1, 1957

Card 2/2 1. Electron gas--Properties 2. Electrons--Scattering

BOLOTIN, G.A.; VOLOSHINSKIY, A.N.; KIRILLOVA, M.M.; NOSKOV, M.M.; SOKOLOV, A.V.; CHARIKOV, B.A.

Optical properties of titanium and vanadium in the infrared region of the spectrum. Fiz. met. i metalloved. 13 no.6:823-831 (MIRA 15:7) Je 162.

Institut fiziki metallov AN SSSR.
 (Vanadium-Optical properties)
 (Spectrum, Infrared)

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9.5370

Bolotin, G.A., Voloshinskiy, A.N., Kirillova, M.M.,

Noskov, M.M., Sokolov, A.V., Charikov, B.A.

TITLE:

AUTHORS:

Optical properties of titanium and vanadium in the

infrared spectral region

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.6, 1962,

823-831

TEXT: Experimental data of the magnitude and frequency dependence of the real and imaginary components of the complex permittivity ε' for titanium, vanadium and gold were studied in the region of 2 to 10 μ, and room temperature. The changes in the state of polarization occurring during reflections from the surfaces of the metals were measured. Mirrors were prepared from 99.99% pure vanadium and titanium iodide by mechanical polishing in an acidic medium. Measurements of static electroconductivity at room and liquid nitrogen temperatures confirmed the high purity of the samples used. Gold mirror was prepared by vacuum deposition and was used for comparison. Parallel beam of polarized infrared light was reflected in turn from four metallic Card 1/4

5/126/62/013/006/002/018 E202/E492

Optical properties of ...

mirror surfaces and the ratio of the parallel and perpendicular intensities and phase differences of the polarized component were evaluated. Emerging from the analyser, the beam was focused on the slit of the infrared spectrometer type NKC-12 (IKS-12). The ellipticity components were evaluated by the method of parallel polarizers. Almost complete data of n, k and the real ϵ_1 and imaginary ϵ_2 , component dependency on frequency was tabulated at 0.5 µ intervals for Ti, Va and Au. Plots of reflectivity and dispersive power versus wavelength were also included. The above experimental data were used in a detailed theoretical analysis of relations existing between the dielectric permittivity and wavelength, using the elaborate method of approximating polynomials. Polynomials satisfying the experimental data gave the following values for the respective coefficients:

 $\varepsilon_1 = -624\lambda^{-4} + 548\lambda^{-8} - 57.2 + 4.62\lambda^{8} - 0.0154\lambda^{4}$ Titanium: (6) $\varepsilon_2 = 43.94\lambda^{-1} + 11.16\lambda + 0.20\lambda^3;$

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S/126/62/013/006/002/018 E202/E492

Optical properties of ...

Vanadium: $\varepsilon_1 = 2.9 + 8.05 \,\lambda^2 - 0.034 \,\lambda^4;$ $\varepsilon_2 = -3683 \,\lambda^{-5} + 2167 \,\lambda^{-3} - 392 \,\lambda^{-1} + 33.4 \,\lambda + 0.139 \,\lambda^3;$ (7)

Gold: $\varepsilon_1 = -16.5 + 37.2 \lambda^2 - 0.12 \lambda^4;$ $\varepsilon_2 = 1.55 \lambda^3 - 0.0024 \lambda^2.$ (8)

Detailed contributions of various groups of electrons participating in the above expressions were identified. The groups of optical electrons found were related to the s- and d-bands. Current carriers in small d-bands contributed relatively little to conductivity. Additional data on Hall coefficient confirmed two types of carriers with the conductivity in the d-band being of the hole type. In the case of gold, in the d-band being of the hole type. In the simple method of similar results were obtained by means of the simple method of equalization, which proved the reliability of the method of approximating polynomials. There are 6 figures and 2 tables.

Card 3/4

S/126/62/013/C06/002/018 E202/E492

Optical properties of ...

ASSOCIATION: Institut fiziki metallov AN SSSR

(Institute of Physics of Metals AS USSR)

January 17, 1962 SUBMITTED: