

24,7800 (1142, 1144, 1162)

84996

S/048/60/024/010/005/033
B013/B063

AUTHORS: Solov'yev, S. P., Venevtsev, Yu. N., Zhdanov, G. S., and Ivanova, V. V.

TITLE: Method of Calculating Inner Electric Fields in Complicated Dipole Structures and Their Application to CaTiO₃ ✓

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 10, pp. 1191 - 1194

TEXT: A general method is suggested for calculating the inner electric fields in complicated structures, in which there may take place both parallel and antiparallel ionic displacements in an arbitrary direction. This method, which was applied to the calculation of fields in CaTiO₃ ✓

type crystals, constitutes a generalization of the methods that are used for calculating the fields in piezoelectric substances of an ABO₃-type structure, and proceeds from the respective structure model of the compound concerned. A total of six different cases were examined. The calculation was made at the vychislitel'nyy tsentr MGU (Computer

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84996

Method of Calculating Inner Electric Fields in S/048/60/024/010/005/033
Complicated Dipole Structures and Their B013/B063
Application to CaTiO_3

Center of MGU) with the computer "СТРЕЛА" (Strela). The calculation of the fields in CaTiO_3 shows that the distribution of fields in this compound depends only little on the polarizability of Ca ions. It is all the more dependent, however, on the effective ion charge, up to the change of the signs of the fields acting upon the oxygen ions, although the qualitative picture remains unchanged. The fields acting upon Ca ions are only little varied in this connection. In all of the six cases examined the fields are considerably smaller than is the case with the piezoelectric ABO_3 compounds. In this case, as may be seen from the structure symmetry, the field acting upon the Ti ions is exactly vanishing. In BaTiO_3 and PbTiO_3 (Refs. 8 and 9), on the contrary, fields of maximum strength act upon the Ti ions. The basic difference between the fields in CaTiO_3 and in the piezoelectric ABO_3 compounds related to it, is connected with the fact that in the latter the octahedra are greatly deformed, while they are nearly ideal in CaTiO_3 . The relationship

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Method of Calculating Inner Electric Fields in
Complicated Dipole Structures and Their
Application to CaTiO_3 S/048/60/024/010/005/033
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between the anomaly of dielectric properties and the deformation of BO_6 octahedra can be also observed in the case of such ABO_3 compounds as are, e.g., PbZrO_3 , PbHfO_3 , NaNbO_3 . It can be stated that the presence of a deformation of B - O is an indispensable prerequisite for an anti-piezoelectric phase transition. The authors thank N. P. Trifonov, collaborator of the computer center of MGU for his assistance in the computations. The present paper was read at the Third Conference on Piezoelectricity, which took place in Moscow from January 25 to 30, 1960. There are 1 figure and 12 references: 4 Soviet.

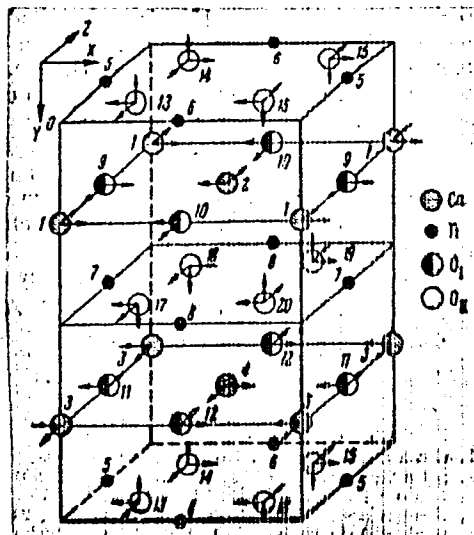
ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Physicochemical Institute imeni L. Ya. Karpov)

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Legend to Fig.:
The CaTiO_3 unit cell



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20021

S/070/61/006/001/002/011
E032/E314

7.2181 (2303, 1144)
24.7800 (1142, 1385, 1136)

AUTHORS: Solov'yev, S.P., Venevtsev, Yu.N., Zhdanov, G.S.
and Ivanova, V.V.

TITLE: Calculation of Internal Electric Fields in
Perovskite Crystals (CaTiO_3)

PERIODICAL: Kristallografiya, 1961, Vol. 6, No. 1,
pp. 78 - 85

TEXT: In a previous paper (Ref. 13) the present authors gave an account of a general method for the calculation of internal fields in structures having an arbitrary disposition of dipoles. The aim of the present paper is to apply this method to the calculation of fields in the antiferro-electric dipole structure of CaTiO_3 , using a model based on the real structure reported by Kay and Baily in Ref. 14. In the method described by the present authors in Ref. 13, it is assumed that the polarisabilities and effective ion charges are known. The polarisabilities of Ca and O ions were taken from the book by Kittel' (Ref. 15) ($\alpha_{\text{Ca}} = 1.1 \cdot 10^{-24} \text{ cm}^3$;

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20024

S/O70/61/006/001/002/011
E032/E314

Calculation of Internal Electric Fields

$\alpha_0 = 2.4 \times 10^{-24} \text{ cm}^3$). It is further assumed that the effective charges of the ions in BaTiO_3 are approximately equal to one-half of the total ion charges. In order to estimate the effect of the assumed magnitude of the charges and polarisabilities on the field distribution, six different variants of the calculation were carried out, in which the charges and polarisabilities were varied within reasonable limits. The results obtained are summarised in Table 3, which gives the internal fields in CaTiO_3 . The first five variants are based on the real structure of CaTiO_3 , shown in Fig. 2. For comparison, variant 6 is based on values of the f and h sums calculated for undispersed positions of the ions. All the calculations were carried out on the electronic computer "Strela" at the Computation Centre of MGU.

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S/070/61/006/001/002/011
E032/E314

Calculation of Internal Electric Fields

Acknowledgments are expressed to N.P. Trifonov and
A. Tel'nova of the Computation Centre of MGU, who carried
out the numerical calculation on the "Strela" computer.
There are 2 figures, 3 tables and 17 references: 7 Soviet
and 10 non-Soviet.

ASSOCIATION: Fiziko-khimicheskiy institut im. L.Ya. Karpova
(Physicochemical Institute im. L.Ya. Karpov)

SUBMITTED: March 1, 1960

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20024

S/G70/61/006/001/002/011
E032/E314

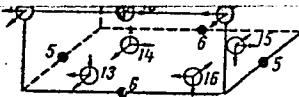
Calculation of Internal Electric

Table 3: 1 - Variants; 2 - $E \cdot 10^{-8}$, V/cm; 3 - Projection Axis;
CGSE = esu

E-10 ⁻⁸ V/cm	Ось проект. III	Варианты						
		1	2	3	4	5	6	
		$\frac{1}{2} \alpha_{Ca}; \alpha_0$ $\epsilon_{Ca} = 1.0$ $\epsilon_{Tl} = 2.0$ $\epsilon_0 = -1.0$	$2\alpha_{Ca}; \alpha_0$ $\epsilon_{Ca} = 1.0$ $\epsilon_{Tl} = 2.0$ $\epsilon_0 = -1.0$	$\alpha_{Ca}; \alpha_0$ $\epsilon_{Ca} = 0.5$ $\epsilon_{Tl} = 2.5$ $\epsilon_0 = -1.0$	$\alpha_{Ca}; \alpha_0$ $\epsilon_{Ca} = 1.5$ $\epsilon_{Tl} = 1.5$ $\epsilon_0 = -1.0$	$\alpha_{Ca} = 1.1 \cdot 10^{-10}$ см; $\alpha_0 = 2.4 \cdot 10^{-10}$ см; $\epsilon_{Ca} = 1.0$ CGSE; $\epsilon_{Tl} =$ $= 2.0$ CGSE; $\epsilon_0 = -1$ CGSE		
2	3							
	E_{Ca}	X Y Z	-0,0708 0 0,494	-0,136 0 0,751	-0,0972 0 0,517	-0,0720 0 0,601	-0,0846 0 0,557	-0,0072 0 0,422
	E_{Tl}	X Y Z	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
E_{OI}	X Y Z	0,707° 0 0,0215	0,876° 0 0,302	2,053° 0 -0,409°	-0,477 0 0,680	0,702° 0 0,0006	0,856° 0 -0,0714°	
	E_{OII}	X Y Z	0,470° -0,875 -0,6066	0,546° -0,892 -0,085	0,928° -1,887 -0,570	0,0578° 0,134° 0,519	0,489° -0,880 -0,0258	0,544° -0,942 -0,520

esu

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35597

S/048/52/026/003/006/015
B107/B102

24.7100 (1153,1160)

AUTHORS:

Ivanova, V. V., Kapyshev, A. G., Venevtsev, Yu. N., and
Zhdanov, G. S.

TITLE:

X-ray determination of symmetry of the elementary cells of
the ferroelectrics $(K_{0.5}Bi_{0.5})TiO_3$ and $(Na_{0.5}Bi_{0.5})TiO_3$ and
of the high-temperature phase transitions in $(K_{0.5}Bi_{0.5})TiO_3$

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,
no. 3, 1962, 354-356

TEXT: The ferroelectrics with perovskite structure, $(K_{0.5}Bi_{0.5})TiO_3$ and
 $(Na_{0.5}Bi_{0.5})TiO_3$ with the Curie point at 380 and 320°C, respectively, had
been described in earlier papers (Ref. 1: G. A. Smolenskiy, A. I.
Agranovskaya, Fiz. tverdogo tela, 1, no. 10, 1562 (1959); Ref. 2: G. A.
Smolenskiy, V. A. Isupov, A. I. Agranovskaya, N. N. Kraynik, Fiz. tverdogo
tela, 2, no. 11, 2982 (1960)). The radiographic examination with an
PKY-114 (RKU-114) camera shows that the samples are single-phased at room
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S/048/62/026/003/006/015
B107/B102

X-ray determination of symmetry ...

temperature, and that K and Bi, and/or Na and Bi are statistically distributed in the sites of the elementary cell with the coordination number 12. Splitting of some lines was observed, but could not be measured accurately. CrK radiation and an PKA-143 (RKD-143) camera (produced at the FKhI imeni L. Ya. Karpov) were therefore used. The following lattice constants were determined from the splitting of the line with

$\sum h_i^2 = 8$: $(K_{0.5}Bi_{0.5})TiO_3$ is tetragonal with $a = 3.913 \pm 0.003 \text{ \AA}$,

$c = 3.993 \pm 0.003 \text{ \AA}$, $V = 61.1 \pm 0.15 \text{ \AA}^3$; $(Na_{0.5}Bi_{0.5})TiO_3$ is rhombohedral

with $a = 3.891 \pm 0.002 \text{ \AA}$, $\alpha = 89^\circ 36' \pm 3'$, $V = 58.7 \pm 0.1 \text{ \AA}^3$. Furthermore, the change in the lattice constants with temperature up to 500°C was determined for $(K_{0.5}Bi_{0.5})TiO_3$. At 270°C the tetragonal passes over into a

pseudocubic phase. The slightly diffuse lines make more accurate determination impossible. On the basis of previous conclusions (Ref. 4: Yu. N. Venetsev, G. S. Zhdanov, Izv. AN SSSR. Ser. fiz., 21, 2275 (1957)) the distortion can be assumed to be tetragonal. The cubic phase occurring from 410°C onward makes the radiographs clearer. The authors thank V. A. Isupov who supplied the samples. There is 1 figure.

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X-ray determination of symmetry ...

S/048/62/026/003/006/015
B107/B102

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Physicochemical Institute imeni L. Ya. Karpov)

X

Card 3/3

VENEVTSSEV, Yu. N.; ZHDANOV, G. S.; ROGINSKAYA, Yu. Ye.; FEDULOV, S. A.; IVANOVA, V. V.

"Investigation of some solid solutions based on the ferroelectric-antiferromagnetic BiFeO_3 ."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome,
9 Sep 63.

Karpov Inst of Physical Chemistry, Moscow.

ACCESSION NR: AP4030644

S/0048/64/028/004/0683/0690

AUTHOR: Venevtsov, Yu.N.; Zhdanov, G.S.; Roginskaya, Yu.Ye.; Fedulov, S.A.; Ivanova, V.V.; Chkalova, V.V.; Viskov, A.S.; Kapyshhev, A.G.; Bondarenko, V.S.; Ladyzhinskiy, P.B.

TITLE: Investigation of some solid solutions based on the ferroelectric-ferromagnet bismuth ferrite [Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May to 5 June 1963]

SOURCE: AN SSSR. Izv. Ser.fiz., v.28, no.4, 1964, 683-690

TOPIC TAGS: ferromagnetism, ferroelectricity, bismuth ferrite, bismuth ferrite solid solution

ABSTRACT: By investigating solid solutions of $\text{Bi}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3$ in PbTiO_3 , some of the authors, together with others, were able to show the existence of the compound BiFeO_3 with the perovskite structure and strong ferroelectric properties. This work is reviewed, and later investigations are reported of the electric and magnetic properties of solid solutions containing BiFeO_3 . The solutions discussed are the two-component systems in which one component is BiFeO_3 and the other is LaFeO_3 , LaCrO_3 ,

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ACCESSION NR: AP4030644

PbTiO₃, BaTiO₃, PbZrO₃, LaAlO₃, or SrSnO₃. Of these solutes, two are ferromagnetic, two are ferroelectric, one is antiferroelectric and two are perovskites with normal magnetic and electric properties. Phase diagrams are given for the PbTiO₃, LaCrO₃, and BaTiO₃ solutions. Curves of magnetization versus temperature are given for various compositions of the LaCrO₃ and PbZrO₃ solutions, and curves of dielectric constant versus temperature for the LaAlO₃, PbZrO₃ and BaTiO₃ solutions. The Neel point is plotted against composition for all the solutions except those containing SrSnO₃, which could not be obtained as a single phase. Extrapolation of the Curie points of the LaAlO₃ and PbZrO₃ solutions to zero concentration confirmed the high ferroelectric Curie point (about 350°C) of BiFeO₃. The weak ferromagnetic properties of BiFeO₃ persisted in solutions containing high concentrations of materials without peculiar magnetic properties. Particularly interesting is the concentration dependence of the spontaneous magnetization of the LaCrO₃ solutions; the magnetization increases discontinuously as the system crossed the boundary from the ferroelectric to the antiferroelectric state. The LaFeO₃ solutions are said to have behaved similarly, but as these solutions have been discussed in detail elsewhere (Yu.B. Roginskaya, Yu. N. Venetsev, G.S. Zhdanov and S.A. Fedulov, Kristallografiya, 8, 1963), the data are not given. An anomaly in the Mossbauer spectrum of the SrSnO₃ solutions that was pre-

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ACCESSION NR: AP4030644

Previously ascribed to a ferroelectric transition (Fam Zui Khiyen, A.S. Viskov, V.C. Shpinel' and Yu.N. Venevtsev, Zhur. eksp. i teor. fiz., 44, 1963) is now believed to be due to antiferromagnetic ordering. Orig. art. has: 10 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: EM

NR REF SOV: 016

OTHER: 006

Card 3/3

VEDEVITSEV, Yu.N.; ROGINSKAYA, Yu.Ye.; VISKOV, A.S.; IVANOVA, Y.V.;
TOMASHPOL'SKIY, Yu.Ya.; SHVORNEVA, L.I.; KAPYSHEV, A.C.;
TEVEROVSKIY, A. Yu.; ZHDANOV, G.S.

New lead-containing porovskite compounds of complex composition. Dokl. AN SSSR 158 no.1:86-88 S-0 '64 (MIRA 17:3)

I. Fiziko-khimicheskiy institut imeni L. Ya. Karpova. Predstavleno akademikom N.V. Belovym.

IVANOVA, V. V.

CO

The fertility of hybrid bulls. V. V. Ivanova and I. M. Lyubimov. *Doklady Vsesoyuz. Akad. Sel'kho-Khoz. Nauk im. V. I. Lenina* 13, No. 11, 42-8 (1948). -To overcome the low fertility upon the inbreeding of the cross between the yak (*Bos grunniens*) and the regular livestock (*Bos taurus*) a high protein content of the feed and especially animal protein was found to be very helpful. This type of feeding increased spermatozoa formation and sex activity. J. S. Joffe

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ASIS SLA METALLURGICAL LITERATURE CLASSIFICATION

IVANOVA, V. V. Doc Agr Sci -- (diss) "Hybridization of yaks with domestic
~~large-horn~~ cattle and its prospects." Mos, 1956. 34 pp (Mos Order of Lenin
Agr Acad im K. A. Timiryazev), 200 copies (KL, 43-57, 89)

IVANOVA, V.V., doktor sel'skokhozyaystvennykh nauk

Reproductive capacity of yak and cattle hybrids. *Agrobiologiya*
no.1:127-136 Ja-F '60. (MIRA 13:5)

1. Gorno-Altayskaya sel'skokhozyaystvennaya opytnaya stantsiya.
(Hybridization) (Yaks) (Cattle breeding)

L 1864-66 EWT(1)/FCC/EWA(d) GW

ACC NR: AP5010271

UR/0203/65/001/002/0284/0288

AUTHOR: Ivanova, V. V.; Medvedev, Yu. A.

TITLE: Electrical effects of a large meteorite ^{12, 44, 55}

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 2, 1965, 284-288

TOPIC TAGS: meteorite, shock wave, astrophysics, lower atmosphere, atmospheric physics, electric effect, atmospheric electricity

ABSTRACT: Some of the electrical effects associated with the passage of a meteorite through the lower atmosphere (egs., polarization of the air region in the terrestrial electric field traversed by the ionized body, the form of the shock wave generated by the meteorite, the length of the high-temperature trail, and the electrical conductivity of the air) are examined. It is found that the gas entering into a shock wave having a less than critical radius assumes a conductivity great enough to supplant the electric field. The form of the shock wave of the meteoric body is determined by the formula $z = AR \sup 2$, where $A \approx 0.98/d$, d is the size of the body, z and R are the cylindrical coordinates with axis z directed along the axis of the trail, and with an origin connected with the meteoric body. The values characterizing the gas in the coordinate system do not depend on time, and the formulas for convective heat transfer coincide with the condition that the temperature is constant along the current lines. It is found that in the case where $z < z \text{ sub crit}$ the polarized region is delimited by the front of the shock wave, while in the case where $z \geq z \text{ sub crit}$ it is delineated by the current lines flowing from the frontal line determined by

Card 1/2

L 1864-66

ACC NR: AP5010271

the equations $R = R$ sub crit and $s = s$ sub crit. Orig. art. has 1 figure and 15 formulas.

ASSOCIATION: none

SUBMITTED: 06Apr64

ENCL: 00

SUB CODE: ES, AA

NO REF SOV: 008

OTHER: 000

Card *dy* 2/2

MOROZOV, S.G.; IVANOVA, V.V.; SADYKOV, G.M.

Conditions governing the formation of Pre-Devonian sediments in western Bashkiria in connection with prospects for finding oil in them. Neftegaz.geol.i geofiz. no.9:38-43 '63. (MIRA 17:3)

1. Ufinskiy neftyanoy nauchno-issledovatel'skiy institut.

ABLOV, A.V.; IVANOVA, V.Ya.

Products of the addition of aromatic amines to cadmium halides.
Zhur.neorg.khim. 6 no.4:883-889 Ap '61. (MIRA 14:4)

1. Moldavskiy filial AN SSSR, Institut khimii.
(Cadmium compounds)

ACC NR: AT6011936

SOURCE CODE: UR/0000/66/000/000/0163/0167

AUTHOR: Ivanova, V. Ya., (Leningrad); Spektor, S. A. (Leningrad)

27

ORG: none

B11

TITLE: The frequency-digital method for thickness determination

qm

SOURCE: Vsesoyuznaya konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh izmereniy, 5th. Avtomaticheskii kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: Izmeritel'nyye informatsionnyye sistemy. Ustroystva avtomaticheskogo kontrolya. Elektricheskiye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques), transactions of the conference, v. 2: Information measurement systems. Automatic control devices. Electrical measurements of nonelectrical quantities). Novosibirsk, Izd-vo Nauka, 1966, 163-167

TOPIC TAGS: NMR, quality control, analog digital converter, ~~measuring instrument~~

nuclear physics apparatus
ABSTRACT: The fact that there are many different methods for the continuous industrial measurement of the thickness of products which are accessible from one side only seems to indicate that probably none of them is completely satisfactory. Consequently, to improve on the accuracy of such measurements and yet keep the size of the necessary devices within reasonable limits, the authors developed a new method based on nuclear magnetic resonance. The unit, requiring access to the sample from only one side, yields the results in digital

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ACC NR: AT6011936

form. It can register the thickness of ferromagnetic materials, of magnetic coating on non-ferromagnetic parts, and of nonmagnetic coating on ferromagnetic parts. Since magnetic induction in an arbitrary section of a magnetic circuit of a converter depends on the magnetic "resistance" of such a circuit, the change in thickness causes changes in magnetic induction which, in turn, are converted into changes in frequency by means of the NMR converter. The article presents the structural diagram of the thickness measuring unit, discusses the choice of converter dimensions, and offers some results of the testing of a prototype capable of measuring the thickness of structural steel sheets 0 to 2 mm thick with a reproducibility close to 99%. The conversion coefficient is 8 kc per 0.01 mm. Orig. art has: 3 formulas and 4 figures.

SUB CODE: 13/8/ SUBM DATE: 29Nov 65 / OTH REF: 001

Card

2/2

11/85

ACC NR: AR7004307

SOURCE CODE: UR/0271/66/000/011/A036/A036

AUTHOR: Novitskiy, P. V.; Ivanova, V. Ya.

TITLE: Generalized criterion of the information content, weight, complexity, and reliability of measuring instruments

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11A283

REF SOURCE: Izv. Leningr. elektrotekhn. in-ta, ch. 2, vyp. 56, 1966, 60-62

TOPIC TAGS: measuring instrument, information content, reliability

ABSTRACT: It is suggested that the information content obtained from a measuring instrument be considered as its determinative parameter: $q = \log N$, where N - equivalent number of various gradations of measurand, q - information content of the instrument. Methods for determination of instrument information content with various errors are considered. For one type of measuring instrument, a function $N = f(n)$ is obtained, where n - the total number of parts of the instrument. Determination of joint factors is reduced to finding invariant relations among the number of elements, information content, and average life. The possibility of developing such a criterion for a specific type of measuring instruments is demonstrated. It is proven that an invariant relation for modern electronic equipment may serve for evaluating the speed of operation of measuring instruments. Bibliography of 3 titles. B. U. [Translation of abstract]

Card 1/1 SUB CODE: 09. 14

UDC: 658.562.011.56.011

SMORKALOV, V.T., red.; KARDASH, F.G., st. varshchik, red.;
IVANOVA, V.Ya., red.; SUDAKOVA, Yu., red.; VASIL'KOVICH,
L.A., red.; GETLING, Yu., red.

[Plant of miraculous transformations; everyday work of
the employees of the Tavda Hydrolysis Plant] Zavod chud-
desnykh prevrashchenii; trudovye budni kollektiva Tavdin-
skogo gidroliznogo zavoda. Sverdlovsk, Sredne-Ural'skoe
knizhnoe izd-vo, 1964. 50 p. (MIRA 18:4)

1. Direktor Tavdinskogo gidroliznogo zavoda Ural (for
Kardash). 2. Predsedatel' zavodskogo komiteta Tavdinskogo
gidroliznogo zavoda, Ural (for Ivanova). 3. Sekretar'
Vsesoyuznogo Leninskogo Kommunisticheskogo soyuza molodezhi
(for Sudakova). 4. Nachal'nik planovogo otdela Tavdinskogo
gidroliznogo zavoda, Ural (for Vasil'kovich).

ABLOV, A.V.; DRYAEON, I.A.; KAVIN, I.M.; PROSKIN, I.M.; GYREBINA, I.F.

Modification of copper orthochromate. Zhur. neorg. khim. 10 no.3:
628-635 hr 165. (MIRA 18:7)

1. Institut khimii i metallurgii AN SSSR.

IVANOVA, V. Ye.

RAKHAL'SKIY, Yu. Ye.; IVANOVA, V. Ye.

Inductive-suggestive method for inducing vomiting in treating
alcoholism. Vrach. delo no.3:299 Mr '57 (MLRA 10:5)

1. Kafedra psikhatrii (zav.-prof. A.N. Molokhov) Kishinevskogo
meditsinskogo instituta.
(VOMITING) (ALCOHOLISM--TREATMENT)

VIGRAYZER, G.Z. [Vihraizer, H.Z.]; IVANOVA, Ya.M., kand.med.nauk

Cancer of the stomach in a 14-year-old boy. Ped., akush. i gin. 20
no.4:39-41 '58. (MIRA 13:1)

1. Patologo-anatomicheskoye otdeleniye (konsul'tant - prof. N.O. Maksimovich) i detskoye otdeleniye (zav. - R.N. Krichevskaya) 3-y gorodskoy bol'nitsy (glavnyy vrach - T.P. Novikova).
(STOMACH--CANCER)

IVANOVA, Ye.; PAFENOVA, G., inzhener-normirovshchik

Advanced work practices of the sifter V. Vorob'eva-Chinova.
Muk.-elev. prom. 30 no.3:6-7 Mr '64. (MIRA 17:4)

1. Moskovskaya mashinoispytatel'naya stantsiya Vserossiyskogo
ob'yedineniya khleboproduktov. 2. Starshiy inzhener-normirovshchik
Moskovskoy mashinoispytatel'noy stantsii Vserossiyskogo
ob'yedineniya khleboproduktov (for Ivanova).

KIRCHEVA, S.; IVANOVA, Ye.; TODOROV, T.; MIKHAYLOV, St.; GUDZHEVA, V.;
POPOV, R.; PETRUNOV, V.; ILIYEVA, P. (Bulgaria)

Effect of nivaline electrophoresis in some diseases of the
nervous system. Vop.kur., fizioter.i lech.fiz.kul't. 28
no.1:26-30 '63. (MIRA 16:4)

1. Iz Nauchno-issledovatel'skogo instituta kurortologii i
fizioterapii v Sofii - Ovcha Kupel (dir. - dotsent K.Kirchev).
(NERVOUS SYSTEM—DISEASES) (ELECTROPHORESIS) (GALANTHAMINE)

IVANOVA, Yevgeniya Aleksandrovna; MARKOV, V.Ya.; SMOL'YANINOVA, N.K.;
KAZAKOVA, Ye.D., red.; VESKOVA, Ye.I., tekhn.red.

[Berries for private garden plots] IAgodnye kul'tury v priusadebnom
sadu. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 248 p. (Bibliotechka
po sadovodstvu, no.13) (MIRA 10:12)
(Berries)

IVANOVA, Ye.A., nauchnyy sotrudnik.

Selecting tomato varieties for hybrid seed production. Trudy VNIKOP
no.5:149-151 '55. (MLRA 9:11)
(Tomato breeding)

IVANOVA, Ye. A.

IVANOVA, Ye. A. -- "Aspects of the Critical Attitude toward Oneself of the Pupils in the Fifth through Seventh Classes." Moscow State Pedagogical Institute V. I. Lenin. Moscow, 1955. (Dissertation for the Degree of Candidate in Pedagogical Sciences).

So.: Knizhnaya Letopis', No. 2, 1956.

DMITRIYEVA, S.A.; IVANOVA, A.I.; IVANOVA, Ye.A.; PETRUN'KINA, A.M.;
TSATSKIS, Ye.N.

Influence of hydrogenation of fats on the assimilation of nitrogen,
mineral salts, and fats, and on the amount of unsaturated fatty
acids in the blood and feces. Trudy Inst. fiziol. 9:415-424 '60.
(MIRA 14:3)

1. Gruppya po izucheniya voprosov biokhimmii pitaniya (zaveduyushchaya -
A.M. Petrun'kina) Instituta fiziologii im. I.P.Pavlova.
(FAT METABOLISM) (MINERALS IN THE BODY)
(ACIDS, FATTY)

KURMANOVSKAYA, I. N., GUMENYAKOVA, S. N., TYANCVA, YE. A., YEMELINA OVA, YE. R.

Hypertension

Symptoms and diagnosis of initial stages of hypertension. Sov. med. 16 no. 8, 1962.

Monthly List of Russian Accessions, Library of Congress, December 1962. Unclassified.

IV ANKOU, Ye. A.

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63353

Author: Buyevskiy, A. V., Galakhova, V. Ye., Andreyev, A. A., Ivanova, Ye. A.

Institution: None *CC-CC Sci Res Center Hydrochem & Sulphate Spin Technology*

Title: Combined Withdrawal of Liquor from Cooking Vessels and Decanters

Original

Periodical: Gidroliznaya i lesokhim. prom-st', 1956, No 2, 18-19

Abstract: On combined withdrawal of liquor (drawing off a portion of concentrated liquor from cooking vessels and the remainder from decanters) yield of alcohol per one t of cellulose was 70 l in lieu of 54-58 l. At the same time duration of liquor removal from cooking vessels has been decreased from 2 to 1.5 hours. Total volume of liquor is 9 m³ per ton of cellulose with average sugar concentration of 2.1%. These results were attained on partial effectuation of the scheme of combined draw off procedure and operation schedule.

Card 1/1

VISHNEVSKIY, N.A., prof.; IVANOVA, Ye.A., vrach; STRAZHDINA, T.D., vrach

Diagnostic significance of studies of the optic nerve apparatus
of the eye by the chronaximetry and accommodometry. *Oft.zhur.*
14 no.3:163-169 '59. (MIRA 12:6)

1. Iz Tsentral'nogo instituta usovershenstvovaniya vrachey.
(OPTIC NERVE--DISEASES)
(EYE--EXAMINATION)

VISHNEVSKIY, N.A., prof.; ABDULLAYEVA, V.M.; IVANOVA, Ye.A.; SPIKSOVA, V.H.

Some changes in the crystalline lens in health subjects. Vest. oft.
72 no.5:43-49 S-O '59. (MIRA 13:3)
(CRYSTALLINE LENS, physiol.)

VISHNEVSKIY, N. A., prof.; ABDULLAYEVA, V. M.; IVANOVA, Ye. A.; KOTOVA, E. S.;
STIKSOVA, V. N. (Moskva)

Initial symptoms and classification of cataract, Vest. oft. no.5:
65-68 '61. (MIRA 14:12)

(CATARACT)

FRIDMAN, E.I., prof. [deceased]; IVANOVA, Ye.A.; LAKOTKINA, Ye.A.

Vitamin A and carotene content of blood in nephropathies in children.
Vop. okh. mat. i det. 6 no.8:11-15 Ag '61. (MIKA 15:1)

1. Iz otdela terapii i profilaktiki detskikh zabolevaniy (zav. -
prof. E.I.Fridman [deceased]) Leningradskogo nauchno-issledovatel'skogo
pediatricheskogo instituta (dir. - zasluzhennyy vrach RSFSR I.S.Kutina).
(CAROTENE) (KIDNEYS___DISEASES) (VITAMINS___A)

L 10827-63 FWT(m)/BDS/RS(h)--AFFTC/ASD---X
ACCESSION NR: AP3000758 S/0020/63/150/003/0671/0674

AUTHOR: Ivanova, Ye. A. 53

TITLE: The effect of somatotrophic hormone in anterior lobe of pituitary body on bone under conditions of irradiation 19

SOURCE: AN SSSR. Doklady, v. 150, no. 3, 1963, 671-674

TOPIC TAGS: bone growth, somatotrophic hormone effects, irradiation effects

ABSTRACT: Authors irradiated the extremities of a 4-day old rat with X-rays of a 2000 Gamma dose and found that this causes a deep-seated disturbance of the cartilaginous growth membrane with subsequent cessation of the growth of bone. The introduction of a somatotrophic hormone in a 200-Gamma dose in daylight for 36 to 44 days of testing causes a hypertrophy of the cartilaginous cells and tissues and it retards the differentiation of the bones in the region of the epiphysis and metaphysis and it somewhat smooths the changes in the bone structure but not in a state to normalize their development. Orig. art. has: 1 table.

ASSOCIATION: Institut morfologii zhivotny*kh in. A. H. Severtsova akademii nauk SSSR (Institute of Animal Morphology, Academy of Sciences SSSR)

Card 1/2,

IVANOVA, Ye.A., inzh.; SAVOSTITSKIY, A.V., kand. tekhn. nauk, dotsent

Studying the process of the shaping of textile clothing parts.
Report No. 1: The change of the angle between warp and weft
yarn as an index of the pillability of the fabric. Izv. vys.
ucheb. zav.; tekhn. leg. prom. no. 4: 108-118 '62.
(MIRA 15:10)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii shvaynogo proizvodstva.
(Textile fabrics - Testing) (Tailoring)

ACCESSION NR: APh019837

S/0181/64/005/003/0776/0779

AUTHORS: Ivanova, Ye. A.; Nasledov, D. N.; Tsarenkov, B. V.

TITLE: Lifetime of current carriers in space charge layer of GaAs-p-n-transitions

SOURCE: Fizika tverdogo tela, v. 6, no. 3, 1964, 776-779

TOPIC TAGS: space charge, p n transition, volt-ampere characteristic, vacuum diode, current density

ABSTRACT: The lifetime of current carriers in a space charge layer of GaAs-p-n-transition has been determined from the straight portion of the statistical volt-ampere characteristics, under conditions when the experimental volt-ampere characteristics of a diode could be compared quantitatively with theory. The Sah-Noyce-Shockley (Proc. IRE, 45, 1228, 1957) equation for the volt-ampere characteristics is used to predict the lifetime τ_0 , i.e.,

$$I_{str} = I_0 e^{\frac{qU}{kT}} = qn_i \frac{kT}{qE_m} \frac{1}{\tau_0} e^{\frac{qU}{kT}}$$

Card 1/2

ACCESSION NR: AP4019837

and is compared to the data from two vacuum diodes (Nos. 58 and 64). The results show that τ_0 does not depend on the nonequilibrium carriers up to current densities of 1 amp/cm², nor on temperature in the interval 293 to 545K. Its value was estimated to lie between 10⁻⁹ and 10⁻⁸ sec. "The authors express their gratitude to R. F. Kazarinov and V. I. Stafeyev for their help." Orig. art. has: 4 formulas, 1 table, and 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR Leningrad
(Physical and Technical Institute AN SSSR)

SUBMITTED: 05Sep63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 001

Card 2/2

LEVINA, S.Ye.; IVANOVA, Ye.A.

Biological determination of hypophyseal luteinizing gonadotropin
in human embryogenesis. Dokl. AN SSSR 153 no.2:493-496 N '63.
(MIRA 16:12)

1. Institut morfologii zhivotnykh im.A.N.Severtsova AN SSSR.
Predstavleno akademikom I.I.Shmal'gauzenom.

X

IVANOVA, Ye.A.

Effect of the somatotropic hormone of the anterior lobe of
the pituitary body on a bone under irradiation. Dokl. AN SSSR
150 no.3:671-674 My '63. (MIRA 16:6)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.
Predstavleno akademikom A.N. Bakulevym.

KABAK, Ya.M.; SOKOLOVA, Ye.V. & IVANOVA, Ye.A.

Hypothalamic factor influencing secretion of luteinizing hormone from the anterior lobe of the pituitary body. *Bull. eksp. biol. i med.* 56 no.7:104-107 J1'63 (MIRA 17:3)

1. Iz laboratorii endokrinologii (zav. - prof. Ya.M. Kabak) biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta imeni Lomonosova. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

Vitreous State (Cont.)	507/5053
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Yevstrop'yev, K.K. Study of Diffusion of Some Alkali Ions in Silica Glasses With the Aid of Radioactive Isotopes	270
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Vitreous State (Cont.)	507/5055
Smolin, I.M.A. On the Dependence of Properties of Alkali Silicate Glasses on Composition	310
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Kedrov, P.M. Formation and Absorption of Light by Some Crystals and Glasses	318
Yankin, A.R. Heteroionic Loss of Na^+ in Polyborate and Optical Constants of Glasses	323
Shaymova, V.T. Calculation of the Activation Energy of Viscous Flow of Alkali Silicate Glasses of a Given Chemical Composition	328
Kozlov, V.P., and G.M. Mikhlin. Effect of Various Attributes on Properties of Fused Quartz Glasses	331
Syrovatko, P.M. Dependence of Properties of Alkali-Silicate Glasses	335
Card 18/22	

S/054/63/001/001/012/022
B101/B215

AUTHORS: Shul'ts, M. M., Peshekhonova, N. V., Parfenov, A. I.,
Ivanova, Ye. A., Petrova, V. N.

TITLE: Study of how alkaline earth oxides affect the electrode
properties and chemical stability of lithium silicate
glasses

PERIODICAL: Leningrad. Universitet. Vestnik, Seriya fiziki i khimii,
no. 1, 1963, 104-114

TEXT: , Glasses containing 24, 27, or 30 mole% Li_2O and an addition of
0.20 mole% of BaO , CaO , MgO , or BeO were studied by plotting the curves
E versus pH. Results: BaO shifts the upper limit of the H^+ function
range by 0.1 - 0.3 pH units into the alkaline region. In some cases,
also the lower limit of the H^+ function is shifted in positive direction.
The exchange constant of Li - Ba glasses is somewhat lower than that of
binary glass. CaO addition narrows the H^+ function range in the
alkaline region, extends the transition range by ~1 pH unit, and increases.
Card 1/3

Study of how alkaline earth oxides ...

S/054/63/004/001/012/022
B101/B215

the exchange constant. MgO has the same effect but much more intensively. The shift in the upper limit of the H^+ function caused by 15 mole% MgO at 27 mole% Li_2O is 3.3 pH units, but that due to 15 mole% CaO is only 1 pH unit. The shift caused by BeO is 2 - 3 pH units at no more than 2.5 mole%; at 15 - 20 mole% BeO, this shift in acid direction is 3-4 pH units. The effect on the exchange constants increases as follows: $BaO < CaO < MgO < BeO$. This is probably due to weaker H-bonds owing to the formation of strongly acid ionogenic groups. An addition of small amounts of BaO changes the stability of glass to H_2O but slightly, whereas 20 mole% BaO reduces its chemical stability. The stability is increased by up to 10 mole% CaO, and decreased by higher CaO concentrations; but it remains higher than that of binary glass. In an acid solution, 5 mole% CaO increases the stability, but at 10-20 mole% CaO the Li_2O leaches out intensively. MgO has a similar effect on the chemical stability. BeO increases the stability in H_2O and in acids.

Conclusion: The stability of the glass is increased by elements that form ionogenic groups in lithium silicate glasses such as MgO and

Card 2/3

Study of how alkaline earth oxides ...

S/054/63/004/001/012/022
B101/B215

especially BeO, and reduced by oxides which form modifying ions (BaO).
There are 3 figures and 5 tables.

SUBMITTED: October 1962

Card 3/3

SHUL'TS, M.M.; PESHEKHONOVA, N.V.; PARFENOV, A.I.; IVANOVA, Ye.A.; PETROVA, V.N.

Effect of alkaline earth oxides on the electrode properties and
chemical stability of lithium silicate glasses. Vest. LGU 18
no.4:104-114 '63. (MIRA 16:3)
(Electrodes, Glass) (Alkaline earth oxides)
(Lithium silicates)

GRIGOR'YEVA, A.D.; IVANOVA, Ye.A.

Methods for the study and description of fossil invertebrates.
Paleont. zhur. no.2:122-125 '65. (MIRA 18:6)

1. Paleontologicheskii institut AN SSSR.

KUDRYSHOV, B.A.; ANDREYENKO, G.V.; SYTINA, N.P.; IVANOVA, Ye.A.; PLYUSHCH, L.I.

Effect of vitamin B₁₂ on the function of the physiological anti-
coagulation system of the body. Vop.med.khím. 10 no.3:269-273
My-Jo '64. (MIRA 18:2)

1. Laborator'ya fiziologii i biokhímii svertyvaniya krovi biologo-
pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta.

AUTHOR: Ivanova, Ye. A.; Nasledov, D. N.; Tsarenkov, B. V.

TITLE: Electrical properties of diffusion p-n junctions in gallium arsenide.
The reverse branch of the current-voltage characteristic

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230006-4

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230006-4"

"APPROVED FOR RELEASE: 08/10/2001

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APPROVED FOR RELEASE: 08/10/2001

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"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230006-4

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230006-4"

IVANOVA, Ye.A., Inzh.; SAVOSPIRNIY, A.V., kand. tekhn. nauk, docent

Forming of textile goods by means of steaming. Mach. Study
NTIL# no.28:125-133 '63. (NINA 17:11)

1. Kafedra tekhnologii shveytnogo proizvodstva Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

(A) L 12915-00 571(87) 10

ACC NR: AP6000960

SOURCE CODE: UR/0206/65/000/022/0042/0043

AUTHORS: Rapoport, I. B.; Moshkin, P. A.; Belizar'yeva, N. T.; Ivanova, Ya. A.; Zakharova, A. S.

ORG: none

TITLE: A method for obtaining synthetic lubricating oils. Class 23, No. 176350

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 42-43

TOPIC TAGS: lubricant, ester, carbon, synthetic material

ABSTRACT: This Author Certificate presents a method for obtaining synthetic lubricating oils representing esters of two-base acids. A mixture of two-base acids with the number of carbon atoms exceeding 11 is used as the two-base acids. The carbon atoms are obtained from the C₁₇-C₂₀ fraction of synthetic fatty acids.

SUB CODE: 11/ SUBM DATE: 08Feb64

Card 1/1

HW

UDC: 665.582

IVANOVA, Y. E.

"Soviet Literature on Darwinism in 1939" (p. 381) by Schaxel, J. and Ivanova, E.

SO: Advances in Modern Biology, (Uspekhi Sovremennoi Biologii), Vol. XIII, No. 2, 1940

IVANOVA, Ye. A.

USSR

Mbr. Paleontology Institute, Acad Sci., -1946-.

"On the Palaeoecology of the Brachiopods in the Bio herms," Dok. AN, 55
No. 9, 1947

IVANOVA, YE. A.

Geology, Stratigraphic - Moscow Basin

Principles of biostratigraphic geology of the Middle and Upper Carboniferous periods of the Moscow Basin. Mat. Geol. inst., 5, 1948.

9. Monthly List of Russian Accessions, Library of Congress, October 195², Uncl.

IVANOVA, Ye. A.

21544

IVANOVA, Ye. A.

Ontogenez nekotorykh kamonnougol'nykh brakhiopod.
Trudy Paleontol. in - ta (Akad. nauk SSSR), t. XX, 1949, s. 243 - 67.
Bibliogr: s. 265 - 66.

SO: Ietopis' Zhurnal'nykh Statey, No. 20, Moskva, 1949.

GEKKER, R.F.; IVANOVA, Ye.A., otvetstvennyy redaktor; POLESITSKAYA, S.M.,
tekhnicheskii redaktor

[Instructions for research in paleoecology] Nastavlenie dlia
issledovaniia po paleoekologii. Izd. 2-oe. Moskva, Izd-vo Akademii
nauk SSSR, 1955. 38 p. (Nastavleniia po sboru i izucheniiu isko-
paemykh organicheskikh ostatkov. 6) (MIRA 9:9)
(Paleontology)

IVANOVA, Ya.A.; KHVOROVA, I.V.; NEVESHKAYA, A.A., redaktor; ASTAF'YEVA,
G.A., tekhnicheskii redaktor.

Stratigraphy of the middle and upper Carboniferous in the western
region of the Moscow syncline. Trudy Paleont.inst. 53:3-279 '55.
(Moscow Basin--Geology, Stratigraphic) (MLRA 8:5)
(Moscow Basin--Paleontology)

IVANOVA, Ye.A.; SOSHKINA, Ye.D.; ASTROVA, G.G.; IVANOVA, Y.A.

Ecology and stratigraphic significance of the Ordovician and
Gotlandian fauna in the lower course of the Stony Tunguska
River. Trudy Paleont. inst. no.56:93-196 '55. (MIRA 8:12)
(Stony Tunguska River--Paleontology)

IVANOVA, Ye.A.

Relation between the stages of evolution of the organic world and
of the earth's crust. Dokl. AN SSSR 105 no.1:154-157 N '55.

(MLRA 9:3)

1. Paleontologicheskii institut Akademii nauk SSSR.
(Earth--Age)

AGRANOVSKAYA, I.A.; ASATKINA, Ye.F.; BOYTSOVA, Ye.P.; BOCHARNIKOVA, A.D.;
 BOYTSEL', Z.A.; ~~IVANOVA, Ye.A.~~ KALASHNIKOVA, V.A.; KLIMKO, S.A.;
 KRUCHININA, N.V.; MALYASOVA, Ye.S.; MARKOVA, L.G.; MARTYNOVA, Z.I.;
 POKROVSKAYA, I.M.; POLUKHINA, V.A.; ROMANOVSKAYA, G.M.; SAMIGULINA,
 Ye.P.; SEDOVA, M.A.; SIGOVA, N.N.; STEL'MAK, N.K.; PHRLIN, S.S., re-
 daktor izdatel'stva; GUROVA, O.A., tekhnicheskii redaktor.

[Atlas of Oligocene spore and pollen complexes in various regions of
 the U.S.S.R.] Atlas oligotsenovykh sporovo-pyl'tsevykh kompleksov
 razlichnykh raionov SSSR. Moskva, Gos.nauchno-tokhn.lud-vo lit-ry
 po gologii i okhrane neдр. 1956. 312 p. (Leningrad, Vsesoiuznyi
 geologicheskii institut. Materialy, no.16) (MLRA 10:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut
 Ministerstva geologii i okhrany neдр SSSR. (for Asatkina, Boytsova,
 Kalashnikova, Kruchinina, Pokrovskaya, Romanovskaya, Sedova, Stel'-
 mak). 2. Yuzhno-Ural'skoye geologicheskoye upravleniye (for Sigova)
3. Ural'skoye geologicheskoye upravleniye (for Agranovskaya, Bocharni-
 kova, Martynova, Polukhina, Samigulina). 4. Trest "Zapsibneftegeologiya"
 (for Boytsel', Ivanova, Klimko, Markova). 5. Geograficheskii fakul'tet
 Leningradskogo gosudarstvennogo universiteta (for Malyasova)
 (Pollen, Fossil) (Spores (Botany), Fossil)

BULATOVA, Z.I.; VOYTSSEL', Z.A.; GOBOVETS, A.N.; IVANOVA, Ye.A.; KAZ'MINA, T.A.; KISEL'MAN, E.N.; KLIMKO, S.A.; KLIMOVA, I.G.; KOZYREVA, V.F.; KORNEVA, F.R.; KOSTITSINA, R.P.; KRUGLOVA, Z.M.; STRIZHOVA, A.I.; MARKOVA, L.G.; TARASOVA, A.S.; USHAKOVA, M.V.; FILIPPOVA, Ye.A., ved.red.; TROFIMOV, A.V., tekhn.red.

[Mesozoic and Cenozoic stratigraphy of the West Siberian Lowland]
Stratigrafiia mezozoiia i kainozoiia Zapadno-Sibirskoi nizmennosti.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1957. 147 p. (MIRA 12:2)

1. Gosudarstvennyy soyuznyy Zapadno-Sibirskiy nefterazvedochnyy
trest.

(Siberia, Western--Geology, Stratigraphic)

IVANOVA, Ye. A.

SUBJECT: USSR/Geology

11-5-11/15

AUTHOR: Teodorovich, G.I.

TITLE: Review of the Book by Ivanova, Ye.A. and Khvorova, I.V.:
 "Stratigraphy of Middle- and Upper-Carbon of the Western Part
 of the Moskva Syneclease" (Retseziya na knigu Ye.A. Ivanovoy
 i I.V. Khvorovoy: Stratigrafiya srednego i verkhnego Karbona
 zapadnoy chasti Moskovskoy sineklizy")

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957,
 #5, pp 105-111 (USSR)

ABSTRACT: The author reviews the book in detail and stresses its importance. He positively estimates the first two chapters of the book written by both of the authors, Ivanova and Khvorova, but criticizes the 3rd chapter written by Ivanova alone and points out numerous defects and wrong assertions made in this chapter.

There are 29 references, 24 of which are Slavic.

ASSOCIATION: Not indicated

PRESENTED BY:

SUBMITTED: On 10 February 1956

AVAILABLE: At the Library of Congress.

Card 1/1

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619230006-4

IVANOVA, Yelena Alekseyevna; KASHINA, P.S., otv. red.
 L.A., red. izd-va; KASHINA, P.S., tekhn. red.

[Development of the fauna of the middle and upper Carboniferous Sea in the western part of the Moscow syncline with reference to its history] Razvitie fauny sredne-i verkhnekamennougol'nogo moria zapadnoi chasti Moskovskoi sineklizy v svyazi s ego istoriei. Moskva, Izd-vo AN SSSR Pt.3: Development of the fauna as related to the conditions governing its existence. Razvitie fauny v svyazi s usloviyami sushchestvovaniia. 1958. 299 p. (Akademiya nauk SSSR. Paleontologicheskii institut. Trudy, vol.69) (MIRA 12:2)

(Moscow Basin--Paleontology, Stratigraphic)

VOYSELS', Z.A.; IVANOVA, Ye.A.; KLIMKO, S.A.; MARKOVA, L.G.

Spore-pollen complexes from Permian sediments in the Irtysk
Valley of Pavlodar Province. Trudy VNIIGRI no.124:95-110 '58.
(MIRA 16:7)

(Pavlodar Province---Polynology)

IVANOVA, Ye.A.

Paths of the development of paleoecology in the U.S.S.R. Paleont.
zhur. no.2:12-24 '59. (MIRA 13:1)

1. Paleontologicheskii institut Akademii nauk SSSR.
(Paleontology) (Marine ecology)

IVANOVA, Ye.A.

Systematics and evolution of spiriferids (Brachiopoda).
Paleont.zhur. no.4:47-64 '59. (MIRA 13:6)

1. Paleontologicheskii institut Akademii nauk SSSR.
(Brachiopoda, Fossil)

3 (0)

SOV/20+125-3-41/63

AUTHORS:

Ivanova, Ye. A., Chudinova, I. I.

TITLE:

New Data on the Devonian Fauna of the Kuznetskiy Basin
(Novyye dannyye po faune devona Kuznetskogo basseyna)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 3, pp 611-613 (USSR)

ABSTRACT:

The Devonian of the Kuznetskiy Basin is sufficiently well investigated although all the species of the fauna have not yet been described. Within a small faunal assemblage in the area of the village Lebedyanka (district of Anzhero-Sudzhenskiy) forms have been found, which are commonly known, but have hitherto been regarded as lacking in the Devonian of this region. Using this new faunal complex, the stratigraphic knowledge was completed and the paleogeography of the Devonian ocean completely reconstructed. On this basis the authors propose three possible divisions of the Devonian of Lebedyanka: lower sequence with Gruenewaldtia and many brachiopods, middle sequence with countless Euryspirifer cheehiel and others (Refs 2,4) and upper sequence with scarce E. cheehiel, many Anathyris helmersenii and in the higher part A. phalaena. The previous long established Upper Givetian age applies only to the middle sequence. The fauna of the upper sequence resembles

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the fauna of the so-called Zarubinskiy limestone, which was at one time considered Givetian (Ref 3) and at another time Frasnian (Ref 5). The determination of the age of the lower sequence will meet with difficulties as long as there is no monographic description of its fauna. Its upper part was determined as Eifelian by K. V. Radugin. But *Stringocephalus* along with other accompanying fauna suggests rather a Givetian age and above all an age older than the beds with *E. cheehiel*. The fauna with *E. cheehiel* of the northern Kuzbass may have inherited an older, Eifelian fauna which existed in the same water (Refs 2,4). There may have been an open-sea connection in the western part of this northern section. This applies also to later periods (the *E. cheehiel* fauna). This fauna spread from a center in the region of the present Lebedyanka village. The ways of spreading are, however, too little known. A direct connection between the Minusinsk sea and the northern Kuznetsk water did not exist in the late Givetian (Ref 6). Thus the placing of the whole Kuzbass of Givetian time in the same zoogeographical province with Kazakhstan must be corrected, for the northern border region should be included in another, more northern province. At the same time the Lebedyanka fauna

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shows a considerable mixture of eastern Asiatic (Chinese) forms.
There are 8 Soviet references.

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Inst : Not given.

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