5(4)

AUTHORS:

Rodnyanskiy, I. M., Galinker, I. S.,

SOV/20-126-2-28/64

Korobkov, V. I.

TITLE:

The Electric Conductivity of the Aqueous Solutions of Sodium Hydroxide at High Temperatures (Elektroprovodnost' vodnykh rastvorov yedkogo natra pri vysokikh temperaturakh)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2, pp 327-329 (USSR)

ABSTRACT:

Short reference is first made to several earlier papers dealing with this subject, in which, according to the nature of the electrolyte and its concentration at various temperatures maxima of conductivity were found: For the salts of trivalent, bivalent, and univalent metals at 60°, 100-115°, and 280-300° respectively. It was of interest to investigate the further course of electric conductivity within the temperature range above 340°. However, the solution of this problem entails experimental difficulties as to the selection of the material for the electric insulation of the electrolytic cell and the hermetical sealing of the current supply lines. The chemical industry is in need of methods for the determination of electric conductivity at high temperatures

Card 1/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824730009-8"

The Electric Conductivity of the Aqueous Solutions of Sodium Hydroxide at High Temperatures

807/20-126-2-28/64

 $(\sim 360^{\circ})$ and even for the most aggressive media, i.e. for basic lyes. The electrolytic cell used by the authors and the electrolytic conductors built into the steel stoppers of the autoclave are shown by a schematical drawing and briefly discussed. Next, the method of measuring electric conductivity is described. These measurements were carried out by means of the bridge MVL-47. A diagram shows the curves for the variation of the specific electric conductivity κ of aqueous NaOH solutions of various concentrations (1.3 and 5 %) up to 360°. All curves pass through a maximum near a temperature of 200-220° C. With increasing concentration the maximum shifts towards lower temperatures. At 360° the specific electric conductivity is by 2.5-3 times lower than maximum electric conductivity. The maximum of the conductivity for sodium hydroxide solutions is attained at lower temperatures than in the case of NaCl. At moderate temperatures NaCl and NaOH are equally strong electrolytes, but with increasing temperature, NaOH becomes a weaker electrolyte than NaCl. This is probably due to the existence of a larger

Card 2/3

The Electric Conductivity of the Aqueous Solutions of SOV/20-126-2-28/64 Sodium Hydroxide at High Temperatures

portion of covalent binding in the molecule of sodium hydroxide. An exact interpretation of the process will be possible only after a large number of experimental data will have accumulated. There are 2 figures, 1 table, and 6 references, 5 of which are Soviet.

ASSOCIATION:

Khar'kovskiy sel'skokhozyaystvennyy institut im. V. V. Dokuchayeva (Khar'kov Agricultural Institute imeni V. V. Doku-

chayev)

PRESENTED:

March 3, 1959, by A. N. Frumkin, Academician

SUBMITTED:

February 9, 1959.

Card 3/3

RODNYANSKIY, I.M.; KOROBKOV, V.I.; GALINKER, I.S.

Specific volumes of electrolyte solutions at high temperatures.
Zhur.fiz.khim. 36 no.10:2216-2219 0 '62. (MIRA 17:4)

1. Khar'kovskiy sel'skokhozyaystvennyy institut imeni Dokuchayeva.

GALINKER, I.S.; RODNYANSKIY, I.M.; KORODKOV, V.I.; LEKAKH, N.B.

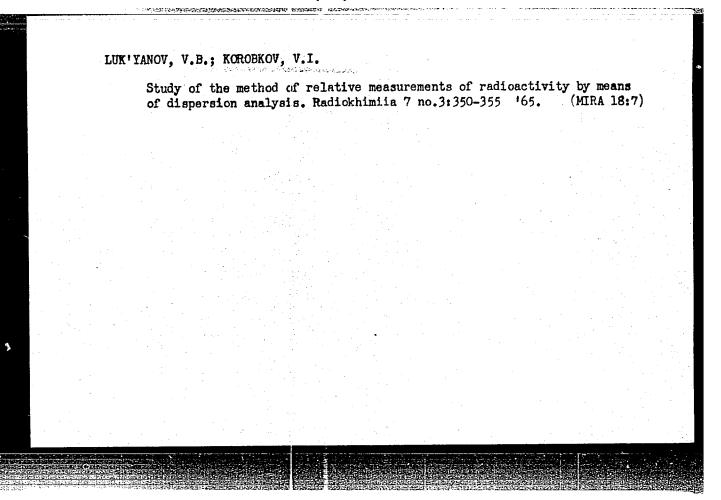
Temperature-dependent differences in the thermodynamic properties of water and electrolyte solutions. Ukr. fiz. zhur. 9 no.4:401-405 Ap 164. (MIRA 17:8)

1. Sel'skokhozyaystvennyy institut im. V.V. Dokuchayeva, Khar'kov.

KOROBKOV, V.I.; RODNYANSKIY, I.M.

Compressibility of saturated monoatomic alcohols and their aqueous solutions at 237°C. Izv.vys.ucheb.zav.; khim. i khim.tekh. 8 no.2:214-217 '65. (MIRA 18:8)

1. Khar'kovskiy sel'skokhozyaystvennyy institut imeni Dokuchayeva, kafedra obshchey khimii.



BARANOV, V.I., DU LE-TYAN: [Tu Lieh-t 'len]; KOROBKOV, V.I.

Geochemistry of uranium and thorium in granite rocks of the Kyzyltau massif (sentral Kazakhstan). Report No.2: Occurrence form of radioactive elements in granite rocks. Geokhimiia no.5:411-419 '62.

1. Chair of geochemistry and chair of radiochemistry, Moscow State Hol rersity.

(Kyzyltau Region-Radioactive substances) (Kyzyltau Region-Granite)

KOROBKOV, V.I.

AUTHORS:

Baranov, V. I., Zaborenko, K. B., Korobkov, V. I., 89-2-23/35

TITLE:

The Use of Nuclear **Photoemulsions in the** Jetermination and Evaluation of the Radiochemical Purity of a Emitting Isotopes (Primeneniye yadernykh fotoemul's, dlya opredeleniya i otsenki radiokhimicheskoy chistoty a-izluchayushchikh izotopov).

PERIODICAL:

Atomnaya Energiya, 1958.

Nr 2, pp. 199-202 (USSR)

ABSTRACT:

The nuclear photoplate HMK ϕ M 1-2 with an emulsion thickness of 50 μ was used as α -indicator. For calibration of this plate the dependence of the α -range in the emulsion on the energy of the α -particles was determined for U²³⁸, U²³⁴, Th²³², Po²¹⁰, Bi²¹² -Po²¹². The recipe of production for each one of these solutions is given. The soaking of the photoplates with the solutions must be performed according to a specially elaborated recipe. The average range of the α -particles was calculated with the aid of the formula:

$$\overline{R} = \frac{\sum \mu_i n_i}{\sum n_i}$$

where μ - the length of traces in μ , and n_i the number of traces with the length μ_i .

Card 1/2

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For the calibration of the plate the following ranges were

measured: $\frac{11}{11}$ 232 $\frac{14,9 \pm 1,5}{16,4 \pm 2,6}$ $\frac{16,4 \pm 2,6}{16,4 \pm 2,27}$ $\frac{16,4 \pm 2,6}{16,4 \pm 2,6}$ $\frac{16,4 \pm 2,6}{16,4 \pm 2,6}$

These ranges are in good agreement with the corresponding values for Ilford C-2 plates. The measurement $\text{Th}^{230}(I_0)$ is described as an example of identification. The range of these a-particles was determined with $18.87 \pm 0.03 \mu$, the Th^{230} -solution not having been subjected to any special purification. When the Th^{230} -solution is electrolytically purified, which causes a reduction of foreign bodies to 5%, the measurement of range yield $\overline{R} = 18.94 \pm 0.03 \mu$. Both measurements are in good agreement. There are 5 figures, 1 table, 11 references, 5 of which are Slavic.

SUBMITTED:

January 4, 1957

AVAILABLE:

Library of Congress

Card 2/2

1. Alpha particles-Photographic analysis

KOROBKOV, VIT.

AUTHORS:

Baranov, V. I., Zaborenko, K. B.,

78-1-34/43

Korobkov, V. I.

TITLE:

Application of the Radioautographic Method for the Control of Radiochemical Purity of α -Radioactive Substances

(Primeneniye metoda radioavtografii dlya kontrolya

radiokhimicheskoy chistoty a-radioaktivnykh izluchateley)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 1,

pp. 184-186 (USSR)

ABSTRACT:

After a short review on the history of this method since 1896, the authors describe the material used at present for the application of this method and accentuate its advantages.

In the present paper the problem was set to control Th²³⁰(Io), which is used for determining the age of young geological formations, for the study of the migration of Th

and for other purposes. The possibility of such a control may be proved with 2 Th²³⁰ preparations:

1) a preparation consisting of a natural raw material,

virtually free from Thorium (reference 2), and 2) a

Card 1/3

preparation obtained from the latter by special purification

Card 2/3

of α -particles in the emulsion per cm. The t.s. of the emulsion of the applied plates amounted to from 1634 \pm 11 to 1781 \pm 6. Before radiographing both preparations were stored for a

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Application of the Radioautographic Method for the Control of Radiochemical Purity of α -Radioactive Substances

78-1-34/43

sufficient long time in order to let Th²²⁷ (RdAc) decay. The results of measuring preparation 1) are shown in figure 3,a. From this can be seen, that the preparation as was expected is not chemically pure, because a simplified isolation method was used. Among the admixtures Po²³¹, Po²¹⁰ and apparently decay products of the thorium series were present. Altogether they amounted to ~24 %. From the radiographs of the second preparation (figure 3,b) is to be seen, that the quantity of foreign admixtures was decreased to 5 % as a result of an additional purification.

There are 3 figures, 1 table, and 5 references, 3 of which

ASSOCIATION:

Radio Chemistry Laboratory, Dept. of Chemistry, Moscow State University im. M.V. Lomonosov, (Laboratoriya radiokhimii khimicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova)

SUBMITTED:

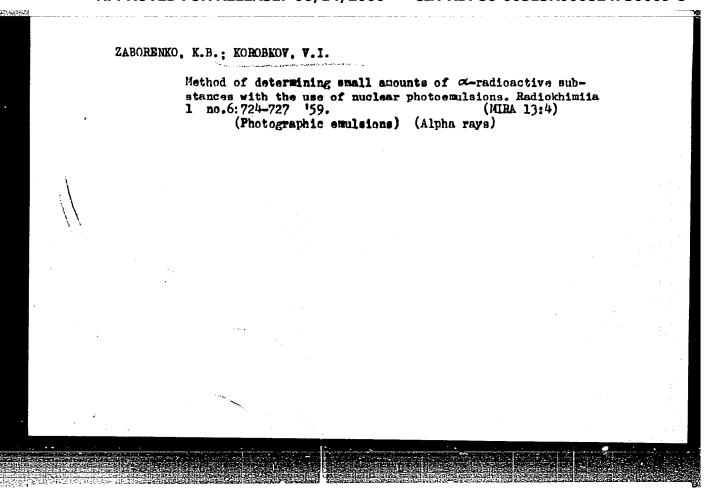
June 18, 1957

AVAILABLE:

Library of Congress

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## SOT/55-59-3-29/32 The First Live Conference of Universities and Colleges on Endicobesities Freshik Postoratego universitete. Seriya matematik, mathaniki, astromani, firstl, falli, 1959, Nr 3, pp 221-223 [USES] This conference was convened by the initiative of the	Internation was conversed by the initiative of the industries of Chemistry of Monopolitics of Educated by T. T. was a tended by professors, teachers, and selected in the opening address, the industries and colleges the address, the industries of Chemistry of Sciences interesties and colleges of the industries of Chemistry. Monopolitic address, the industries of the industries of Chemistry. Monopolitic address, in the foreign of Colleges of Chemistry. Monopolitic address. Monopolitic add	ģ \	
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depitakiy, A.T. SOT/55-59-3-29/32 The First A.T. Tefon Conference of Universities and Colleges on Endlochestiff () Teath it backward of the the stocker, fixite, fixite, and the stocker, fixite, fixite, thank, 1959, Mr 3, pp 221-223 (SESE) This conference was convened by the initiative of the	And the convenator by a strange and a state of the property of		
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ZABORENKO, K.B.; MORDENOV, V.I.; RADOVICH, K.A.

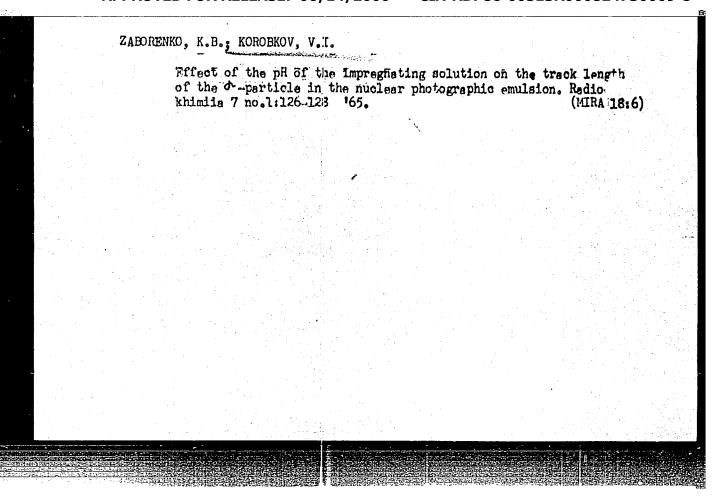
Mechanism of the intersticial introduction of a radioactive isotope into the nuclear emulsion. Radiokhimila 4 no.6:715-720 *62.

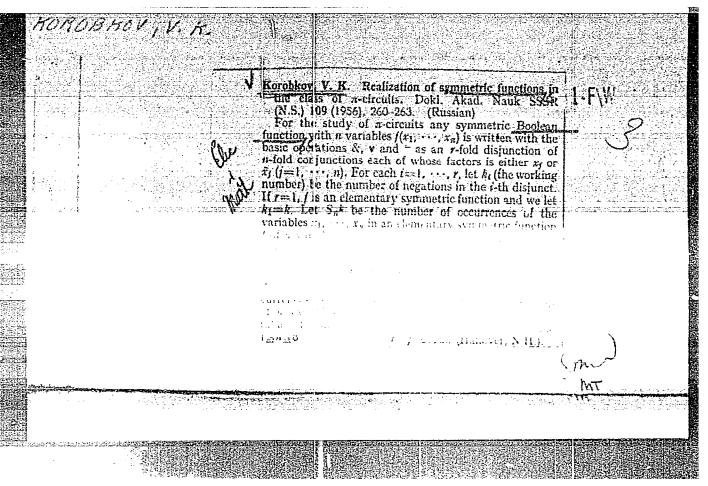
(Radioisotopes) (Photographic emulsions)

(Radioisotopes) (Photographic emulsions)

ZABORENKO, K.B.; NITTSOL'D, D.; KOROBKOV, V.I.

Use of the method of microautoradiography for studying the distribution of radium in films of high molecular weight substances. Radiokhimila 5 no.51642-643 '63. (MIRA 17:3)





KOROBKOV, V. K.

"On Certain Mathematic Problems of Regulation of Street Traffic"

presented at the All-Union Conference on Computational Mathematics and Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp 289-294

16,0200

43817 **5/020/62/147/005/007/032 B172/B112**

AUTHORS:

Korobkov, V. K., Reznik, T. L.

TITLE:

Certain algorithms for the computation of monotonic functions

of the algebra of logic

PERIODICAL: Akademiya nauk SSBR. Doklady, v. 147, no. 5, 1962, 1022-1025

TEXT: The set E_n of the vertices of the n-dimensional unit cube can be considered as domain of definition for a function $f(x_1, \ldots, x_n)$ of the algebra of logic. A set G(f,N) is called solving set of a function f of a class N if the following conditions are fulfilled: (1) If f is known for all $\alpha = (\alpha_1, \ldots, \alpha_n)$ then f is known also for all points of f is f is studied by means of which solving sets can be constructed for the class of the monotonic functions (5. V. Yablonskiy, Tr. Matem. inst. im. V. A. Steklova AN SSSR, 51, 1958). Two theorems are proved concerning the relationship between the number f of variables and Card f

Card 2/2

L 12405-63

EWT(d)/FCC(w)/BDS AFFTC/ESD-3 Pg-4/Fh-4 LIP(C)

ACCESSION NR: AP3001389

S/0020/63/150/004/0744/0747

AUTHOR: Korobkov, V, K.

TITLE: Evaluation of the number of monotonic functions of <u>algebraic logic</u> and of the composition of the searching algorithm of a solution set for an arbitrary monotonic function of algebraic logic.

SOURCE: AN SSSR. Doklady, v. 150, no. 4, 1963, 744-747

TOPIC TAGS: monotonic functions, algebraic logic, searching algorithm

ABSTRACT: The author studied a class of searching algorithms of a solution set for an arbitrary monotonic function. The process of finding a solution set consisted of selecting a point by means of an operator, calculating the value of the monotonic function with relation to the value of the function at the point, then selecting a new point in the set and repeating the process. This process was represented in the form of a tree. The author used two lemmas to prove the theorem Rho(H(n)) is less than or equal to 5C sup absolute value of n/2, sub n. The original article has: 5 formulas and 1 table.

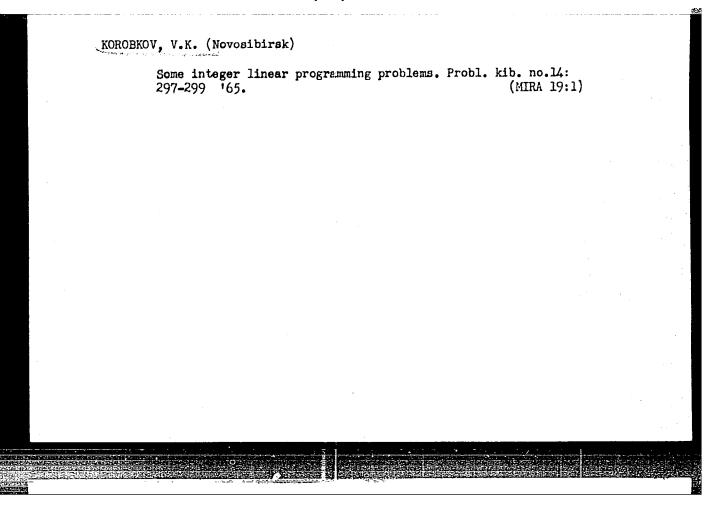
Association: Inst. of Mathematics with the computer Center of the Siberian Division of the Academy of Sciences

Card 1/A

UNTERNE KULURKUM	그들은 이 사용장에서 보는 내 회사를 하면 하면 하는 사람들은 어머니는 사람들이 가는 사람들이 모든 사람들이 모든 것이다.	13/0005/0028
1997年,1998年 - 1998年 -	V.K. (Novosibirak)	101
TITLE: Monotonic	functions of algebraic logic	D^{*}
SOURCE: Problemy	kibernetiki, no. 13, 1965, 5-28	
voted to the estimpending on a varial	er thoroughly investigates the classich represents an invariant classice of the number of monotonic functions for sices and the problem concerning a formulated as early as 1897 by	. The first chapter is de- ctions of algebraic logic de- rm a free distributive struc- the number Y(n) of elements of Dedekind. The present author
shows that		
shows that	$2^{C_n^{\left[\frac{n}{2}\right]}} < \psi(n) < A^{C_n^{\left[\frac{n}{2}\right]}},$	

ACCESSION NR: AT5		$oldsymbol{o}$
holds (A = constan	t) and establishes	the order of the logarithm of $f(u)$
		$\left \frac{n}{2}\right $ Ham $\log_2 \psi(n) \simeq \frac{2^n}{\sqrt{n}}$.
arbitrary monotonic of monotonic funct order of Shannon's is devoted to prob Namely, if a certa	c functions of algu- ions into groups of function for monot- lems arising during in unknown monotoni- aluating at an arbi-	thesis of schemes of functional elements for braic logic in n variables, the decomposition variables, and the establishment of the onic functions. The third and final chapter the applications of mathematical logic. In a function of algebraic logic is specified by trary point (A_1, A_2, \dots, A_n) in the value of at point (A_1, A_2, \dots, A_n) , one to the operator A_1 to establish completely

ACCESSION NR: AT5014617 with somewhat poorer estimates, have been published earlier (DAN SSSR, 147, 5, 1962, 1022-1025; Diskretnyy analiz, no. 1, 1963, Sbornik trudov Instituta matematiki SO AN SSSR; DAN SSSR, 150, 4, 1963, 744-747). Orig. art. has: 79 formulas, 5 figures, and 5 tables.		
ASSOCIATION: None		
SUBMITTED: 10May63	ENCL: 00	SUB CODE: MA, IE
NO REF SOV: 018	OTHER: 008	
Card 3/3		



ACC NR: AR6026517

SOURCE CODE: UR/0372/66/000/004/V021/V022.

AUTHOR: Korobkov, V. K.

TITLE: Certain generalizations of the problem of "decoding" monotonic functions of algebraic logic

SOURCE: Ref. zh. Kibernetika, Abs. 4V108

REF SOURCE: Sb. Diskretn. analiz. Vyp. 5. Novosibirsk, 1965, 19-25

TOPIC TAGS: algebraic logic, function analysis, set theory, mathematic operator

ABSTRACT: Let R be a finite partially ordered set of s elements. Consider the sequence of sets R, \mathbb{R}^2 , ..., \mathbb{R}^n , where \mathbb{R}^n is the topological product of \mathbb{R}^{n-1} and R with conventional distribution of ordering. The concept of the integer-valued monotonic function can logically be introduced for \mathbb{R}^n . First the set M(R, n) of functions monotonic with respect to \mathbb{R}^n and assuming the values of zero and unity is examined. For such functions the following problem is investigated. Given: an operator A_f which calculates for an arbitrary element α of \mathbb{R}^n the value of the monotonic function, i.e. $f(\alpha)$. Problem: reconstruct the table of values of the function by resorting to the operator A_f a minimum number of times, denoted by the symbol

Cord 1/2

UDC: 519.95

ACC NRAPPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824730009-8"

 ϕ_R (F, f), during reconstruction of the table of the values of f with the aid of the algorithm F, on denoting $\max \phi_R$ (F, f) by ϕ_R (F, n), and lastly on denoting $\min \phi_R$ (F, n), by ϕ_R (n) where the minimum is taken with respect to all the algorithms F solving the specified problem (the algorithm F must apply to any function from M(R, n)). The author proves the following theorem: Theorem 1. $C_1(R) \frac{s^n}{\sqrt[3]{n}} < \phi_R(n) < C_1(R) \cdot \frac{s^n}{\sqrt[3]{n}}, \text{ where the constants } C_1(R) \text{ and } C_2(R)$

are independent of n. If Ψ_R (n) is used to denote the power of M (R, n) then it follows from Theorem 1 that $C_3(R) \cdot \frac{s^n}{\sqrt{n}} < \log_3 \psi(n) < C_3(R) \cdot \frac{s^n}{\sqrt{n}}$ where the constant $C_3(R)$ is also

independent of n. After this the set M(R, n, m) of monotonic R^n functions with the values 0, 1, 2, ..., m-1 is considered. For these functions, by analogy with the above, the functions $\phi_R(F, n, m)$ and $\phi_R(n, m)$ are introduced and proof of the next theorem is presented:

Theorem 2. $(m-1)\cdot C_{\bullet}(R)\cdot \frac{s^{n}}{\sqrt{n}} < \varphi_{R}(n, m) < \ldots$, where the constants $C_{4}(R)$ and $C_{5}(R)$ are

independent of n. V. Kudryavtsev. [Translation of abstract]

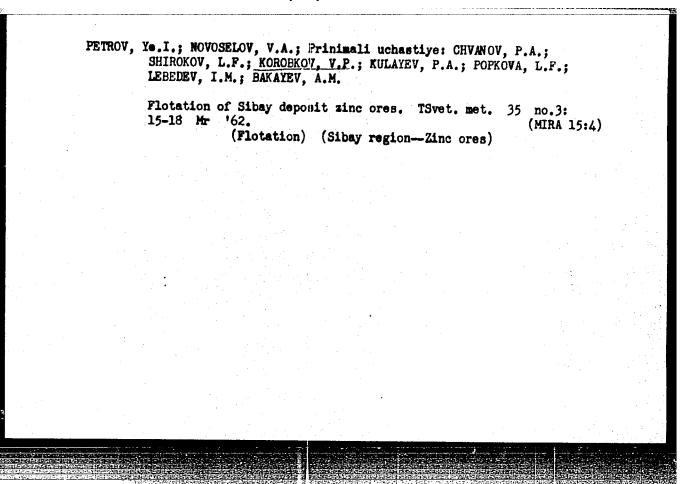
SUB CODE: 12

Card 2/2

KOROBKOV, V. N.

23014 O khimicheskoy aktivnosti polimorfnykh modifikatsiy monokhloruksusnoy kisloty. Trudy khar'k. Khim. Tekhnol. In-ta. Im. Kirova, vyp. 7, 1949, C. 23-29. - Bibliogr: 6 masv.

SO: LETOPIS' NO. 31, 1949



VERSHININ, Ye.A.; FILIMONOV, V.N.; KISLYAKOV, L.D.; CHVANOV, P.A.;
Efficient flotation flow chart for collective concentrates at the Sibay plant. TSvet. met. 38 no.4:14-17 Ap '65. (MIRA 18:5)

KOROBKOV, V.P.

Preumonia following a mitrel commissurotomy. Trudy Inst. klin.
i eksp. khir. AN Kazakh. SSR 9:32-36 '63. (MIRA 17:12)

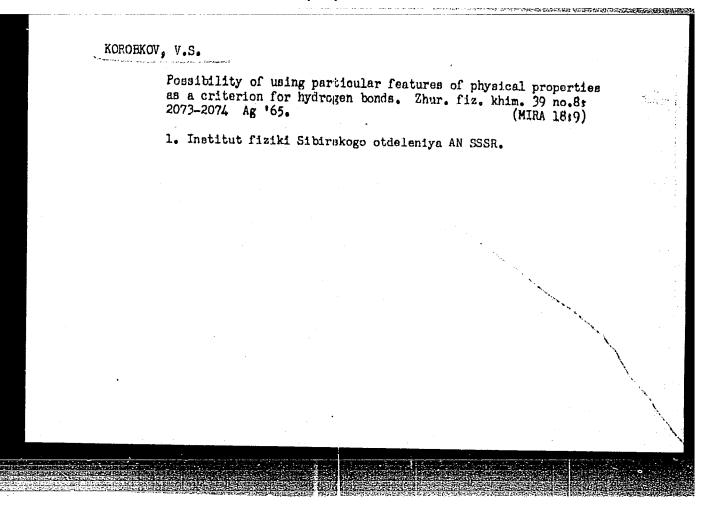
L 45194-66 EWT(m)/EWP(j) RM ,	200/200
ACC NRI AR6025770 SOURCE CODE: UR/0058/66/000/004/1	2060/12060
AUTHOR: Korobkov, V. S.	343
ORG: none	
TITLE: Relation between parameters of absorption band systems	with hydrogen
bonds /	
SOURCE: Ref. zh. Fizika, Abs. 4D465	
REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vy 164-168	
TOPIC TAGS: absorption spectrum, absorption band, hydroxyl g bonding	roup, hydrogen
ABSTRACT: Absorption spectra of a number of phenol solutions	(more than 20
compounds) in neutral and proton-acceptor solvents were measur of valent colloid hydroxylic groups. The correlation between wid	ed in the region th, intensity, and
displacement of absorption bands of hydroxylic groups producing	nydrogen oonds
110	
Card 1/2	

KOROBKOV, V.S.; VOROPAYEVA, A.V.; FEL'DMAN, I.Kh.

Absorption spectra of some thiopyridones and pyridyl sulfides.
Zhur.ob.khim. 31 no.9:3136-3140 S'61. (MIRA 14:9)

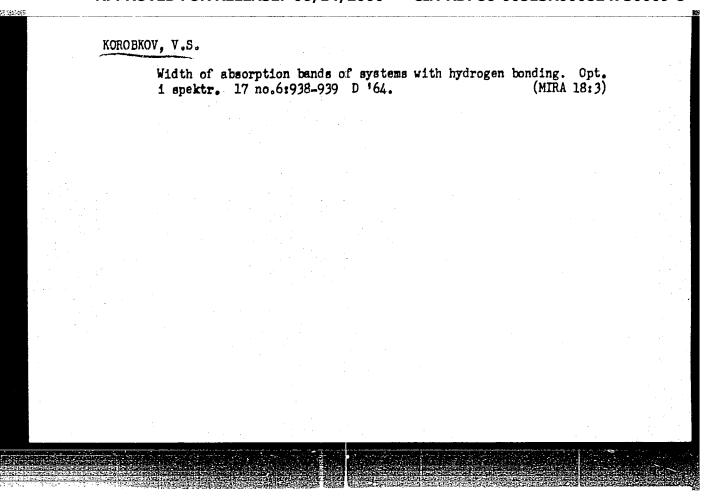
1. Leningradskiy khimiko-farmatsevticheskiy institut.

(Pyridone--Spectra) (Pyridine--Spectra)



ROROBKOV, V.S.
PHASE I BOOK EXPLOITATION 80V/6181 Ural'skoye moveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed. Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR, Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO, Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova. PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results. Card 1/15 <u>PDP86-00513R000824730</u>009-8"

Materials of the Third Ural Conference (Cont.)	507/6181	4
Pinkel'sht yn, A. I., B. I. Sukhorukov, T. M. Korniyenko, and Yu. I. Mushkin. Utilization of acid and alkali properties for spectrophotometric analysis of aminohydroxy compounds by means of ultraviolet spectra	168	
Finkel'shteyn, A. I. Spectral determination of composition and structure of melamine pyrolysis products	171	
Korobkov, V. S. Spectroscopic manifestations of inter- molecular hydrogen bonds	174	
Kolobova, V. N., and V. V. Zharkov. Quantitative determine tion of residual monomers in polystyrene by ultraviolet absorption spectra	178	
Ledentsov, Yu. K., and E. N. Borodina. Absorption spectra of blood serum under the effect of ionizing radiation and low temperature	180	
Card 13/ 15		
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OURCE: Ref. zh. Fizika, Abs. 40195	41
UTHOR: Korobkov, V. S.; Ivanov, E. I.; Korshunov, A. V.	B
ITLE: Infrared absorption spectra of ethers	
ANSLATION: Oscillation frequencies in the main bands of the intrain ethers in the 1600-660 cm 1 range are presented. In the ship the 1060-1150 cm 1 range, and in the spectra of anizole, phe ile the C-0 bands are	spectra of di- lations are local enetole and gin
B CODE: OC, OP ENCL: OO	
	THOR: Korobkov, V. S.; Ivanov, E. I.; Korshunov, A. V. TLE: Infrared absorption spectra of ethers TED SOURCE: Sb. Spektroskopii. M., Nauka, 1964, 122-123 PIC TAGS: diethyl ether, vibration spectrum, ir spectrum ANSLATION: Oscillation frequencies in the main bands of the intrain ethers in the 1600-660 cm ⁻¹ range are presented. In the stain ethyl, ethylbenzol and dibenzol ethers the C-O valence bond oscill in the 1060-1150 cm ⁻¹ range, and in the spectra of anizole, phencillations of the ethers are insensitive to molecular interactions.

KOROBKOV, V.S. Effect of the hydrogen bond on melting and boiling points. Zhur. struk. khim. 6 no.3:477-479 My-Je *65. (MIRA 18:8) 1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

KOROBKOV, V.S.

Intramolecular hydrogen bonding and the physicochemical properties of substances. Zhur. Piz. khim. 38 no.6:1452-1463 Je 164. (MIRA 18:3)

1. Institut fiziki Sibirskogo Gieleniya AM SSSR.

(N) L 12139-66

ACC NR: AP6000456

SOURCE CODE: UR/0064/65/000/009/0063/0065

AUTHOR: Vodyanitskiy, O. A.; Tsirlin, A. M.; Korobkov, Ye. I.

ORG: None

TITLE: Reducing the formation of a deposit on the walls of piping systems by means of ultrasound

SOURCE: Khimicheskaya promyshlennost', no. 9, 1965, 63-65

TOPIC TAGS: naphthalene, ultrasonic vibration, pipe, fuel deposit formation, ultrasonic effect, gas

ABSTRACT: In order to determine whether ultrasound can prevent the formation of solid deposits from a circulated gas on pipe walls, dried nitrogen was saturated with naphthalene vapors, passed through a pipe in an ultrasonic field, then frozen. A GUZ-5P ultrasonic generator was usei. With the ultrasound, 10—15% of the naphthalene passed through the freezing trap deposited on its walls, as compared to 45% in the absence of the ultrasound. This amount decreased to 6% when the intensity of the ultrasound was raised to 4.6 W/cm². Elimination of pipe weld joints was found to reduce the loss of acoustical energy and thus increase the effectiveness of the ultrasonic vibrations in preventing the formation of the deposit. The rate of formation and thickness of the naphthalene deposit decreased Card 1/2

UDC: 621.646.978:534-8

	L 12139-66	
1	ACC NR: AP6000456 substantially with increasing intensity of the ultrasonic vibrations. The experi-	
	ments showed that ultrasound can be successfully used to prevent deposit formation in gas apparatus and piping systems. Orig. art. has: 2 figures, 1 table, and	
	1 formula. SUB CODE: 20,07/ SUBM DATE: 00 / ORIG REF: 004 / OTH REF: 001	
	Gard 2/2	

VODYANITSKIY, O.A.; TSIRLIN, A.M.; KOROBKOV, Yo.1.

Application of ultrasonic waves for decreasing deposit formation on the walls of piping systems. Khim. prom. 42 no.9:703-705 S '65.

(MIRA 18:9)

KOROTKOV, Ye. S. -- "Extrapleural Oleothorax." Minsk State Medical
Inst. Minsk, 1956.
(Dissertation for the Degree of Candidate in Medical Sciences).

SO: Knizhnava Letopis' No 9, 1956

KOROBKOV, Ye.S., kand.med.nauk

Surgery for chronic pleural empyema. Zdrav.Belor. 6 no.2:18-20 F 160. (NIRA 13:6)

1. Iz Belorusskogo nauchuo-issledovatel'skogo instituta tuberkulesa (direktor M.H. Lonsko). (PLEURA-SURGER!) (EGFTEMA)

APEROVED, FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824730009-8"

All-Union forum of the friends of young Pioneers. Geog. v shkole 26 no.3:83-84 My-Je '63. (MIRA 16:6)

(Pioneers (Communist youth))

GRESHMAN, B.N.; KOROBKOV, Yu.S.

Propagation of whistler atmospherics. Izv.vys.ucheb.zav.; radiofis.
1 no.2:51-58 '58. (NIRA 11:11)

1. Issledovatel'skiy radiofisicheskiy institut pri Gor'kovskom universitete. (Radio-Hoise)

s/141/60/003/02/019/025

AUTHORS: Benediktov, Ye.A. and Korobkov, Yu.S.

TITLE: Absorption of Cosmic Radio Emission During the Magnetic

Storm of July 15, 1959

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1960, Vol 3, Nr 2, pp 333 - 334 (USSR)

ABSTRACT: Observations were made at Latitude 560091, Longitude 440171

(near Gor'kiy) at frequencies of 18.6 Mc/s and 25 Mc/s, using a receiver with 3 kc/s bandwidth and an aerial, directed to the zenith, with a diagram measuring 26° x 36° to the half-power points. The receiver output circuit had a noise limiter similar to that described by Lee (Ref 1). Figure 1 shows the variation of the attenuation

of incoming radiation at the two frequencies (____18.6 Mc/s), (.... 25 Mc/s) with time. Two large chromosphere flares had been observed on the sun on July 14. The delay between the optical and radio effects was 35 hours. During the

the optical and radio effects was 35 hours. During the night of July 15-16 a polar aurora was observed from Moscow. Figure 2 shows the variation with of the ratio of the

attenuations at each frequency. The straight horizontal lines correspond to variation of attenuation with frequency

Card1/2

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s/141/60/003/006/005/025

9,9100 (also 1041, 1046)

E032/E114

AUTHORS: Benedikt

Benediktov, Ye.A., Korobkov, Yu.S. Mityakov, N.A.,

Rapoport, V.O., and Khodaleva, L.N.

TITLE:

Results of Measurements of the Absorption of Radio

Waves in the Ionosphere

PERTODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1960, Vol.3, No.6, pp. 957-968

TEXT: Results obtained at Gor'kiy in 1959 are reported. The total absorption in the ionosphere was measured with the aid of the "method of two frequencies". The method is described as follows. Suppose that the cosmic radio emission is received simultaneously on two frequencies, f_1 and f_2 , where $f_2 > f_1$. For each of these frequencies the integral absorption of radio waves in the ionosphere is given by:

$$\Gamma_{i} = \ln \left(I_{0i} / I_{i} \right), \tag{1}$$

where I_{0i} and I_i are the intensities of cosmic radio emission of frequency f_i before and after passage through the Card 1/7

21166 \$/141/60/003/006/005/025 E032/E114

Results of Measurements of the Absorption of Radio Waves in the Lonosphere

ionosphere. If $(2\pi f_i)^2 \gg \sqrt{2}$ and $f_i^2 \gg f_c^2$, where $\sqrt{2}$ is the effective number of collisions of electrons with ions and neutral molecules, and f_c is the critical frequency of the F-layer, then the integral absorption is given by:

$$\Gamma_{i} = \frac{e^{2}}{\pi \operatorname{mcf}_{i}^{2}} \int_{0}^{z} N \cdot dz$$
 (2)

In this expression N is the electron concentration, z is the thickness of the absorbing layer, e and m are the charge and mass of the electron, and c is the velocity of light. It then follows that $\Gamma_1/\Gamma_2 = (f_2/f_1)^2$ and hence, finally, the integral absorption for each of the frequencies is given by:

$$\Gamma_1 = \frac{\ln (I_{02}/I_{01}) - \ln (I_2/I_1)}{1 - f_1^2/f_2^2}$$
 (5a)

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21166 S/141/60/003/006/005/025 E032/E114

Results of Measurements of the Absorption of Radio Waves in the Ionosphere

and

$$\Gamma_2 = \Gamma_1 \left(f_1 / f_2 \right)^2 \tag{3b}$$

If I_{02}/I_{01} does not depend on the galactic coordinates then changes in Γ_i with time depend only on the ratio of the two frequencies. In fact, the above intensity ratio is not independent of the galactic coordinates but this fact should not lead to large absorption of radio waves in the ionosphere during night hours shows that the absorption is frequently negligible. If the intensity ratio I_{02}/I_{01} is determined for these hours, then the absorption for any other time can be calculated from Eq. (3). The may be shown that the optimum frequency range for the above in Ref.2 and Mitra and Shain in Ref.3) in that it does not require present authors have used the above method between August and Card 3/7

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S/141/60/003/006/005/025 E032/E114

Results of Measurements of the Absorption of Radio Waves in the Ionosphere

The results obtained show that December 1959 on 8.6 and 25 Mc/s. the absorption has a characteristic maximum at noon each day, and a minimum at about 4 hrs. In August and September there is also an additional evening maximum at about 20 hrs. The magnitude of the noon maximum was found to be 1.1 db in August, 1.15 db in September, 1.2 db in October and November, and 1.6 db in December (on 18.6 Mc/s throughout). Fig. 4 shows the diurnal dependence of the total absorption (continuous curve) and the absorption in the lower layers of the ionosphere (dotted curve) averaged over the periods 23rd to 31st October (Fig. 4a) and 12th to 15th November The results obtained by the Radio Astronomical methods (Fig. 46). were checked by means of the pulse method described by Pigott et al. (Ref. 9). Fig. 5 shows the dependence of the absorption in the F-layer on the critical frequencies of the F-layer (18.5 Mc/s) (curve I - 12th to 15th November; curve II - 20th to 31st October; curve III - data from Ref.3). Acknowledgements are expressed to G.G. Getmantsev and V.L. Ginzburg for interest and advice. Card 4/7

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FIA-REPRESONS IRRIGIATIONS

S/141/61/004/004/021/024 E032/E314

AUTHORS:

Benediktov, Ye.A. and Korobkov, Yu.S.

TITLE:

Absorption of Cosmic Radio-emission During the Magnetic Storm on April 1, 1960

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy Radiofizika, 1961, Vol. 4, No. 4, pp. 763 - 764

TEXT: The present authors report observations of the intensity of radio-emission on 18.6 and 25 Mc/s. The curves are shown in Fig. 1 (the 25 Mc/s record is displaced in the downward direction relative to the 18.6 Mc/s record). The broken curves show the approximate levels of the undisturbed signal. The top curve shows the variation in the Earth's magnetic field H in the same region. Assuming that the ratio of the absorption coefficient at these two frequencies is

$$\frac{\Gamma_1}{\Gamma_2} = \frac{\omega_2^2 + \sqrt{2}}{\omega_1^2 + \sqrt{2}}$$

S/141/61/004/004/021/024 E032/E314

Absorption of Cosmic

(Ref. 3 - V.L. Ginzburg - Plasma-wave Propagation, Eizmatgiz, Moscow, 1961), it is found that $\Gamma_1(18.6 \text{ Mc/s})/\Gamma_2(25 \text{ Mc/s}) = 1.5 \text{ so that}$

V~ 1.4 x 10⁷ sec⁻¹. For a normal ionosphere this value of corresponds to altitudes of the order of 65 - 70 km. During magnetic disturbances, absorption at such altitudes occurs in the Polar regions. As can be seen from Fig. 1 there is good correlation between the intensity variation and the magnetic-field variation. The correlation is less well defined when the eurve obtained in the Leningrad region is used instead of the magnetic field for the Moscow region. Acknowledgments are expressed to G.G. Getmantsev for assistance in this work. There are 1 figure and 6 references: 3 Soviet and 3 non-Soviet. The three English-language references quoted are: Ref. 4 - W.H. Campbell, H. Leinbach - J. Geoph. Res., 66, 25, 1961; Ref. 5 - S. Ziaudin - Canad. J. Phys., 38, 1714, 1960 and Ref. 6 - T. Obayashi, Y. Kahura - J. Radio Res. Lab. Report Ionosph. and Space, Res. Japan, 14, 1, 1960.

S/141/61/004/004/021/024

Absorption of Cosmic 5032/E314

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Radiophysics Institute of Gor'kiy University)

SUBMITTED: March 23, 1961

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S/203/62/002/001/005/019 I023/I223

3.1800

AUTHORS:

Artem'yeva, G.M., Belikovich, V.V., Benediktov, Ye.A.,

Yerukhimov, Z.M. ard Korobkov, Yu.S.

TITLE:

Measurements of cosmic radioemission absorption

during the solar eclipse on February 15, 1961

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 58-60

TEXT: During the solar eclipse of February 15, 1961 observations of the cosmic radioemission were made in Yevpatoriya at the following frequencies: 25, 18.6 and 13 Mcs, and in Gor'kiy at 25 and 13 Mcs. Such measurements were omitted during previous eclipses. The purpose of the present measurements is to discover any decrease in the absorption of cosmic radioemission caused by the solar eclipse and to differentiate between the absorption of different layers. The apparatus used in both places was identical. The receiving antennas consisted of six wave vibrators. The maximum direction diagram was pointed to the zenith, and the width at half power was 30°. The measurements were conducted for 10-12

Card 1/3

S/203/62/002/001/005/019 I023/I223

Measurements of cosmic radioemission...

days, before and after the eclipse. Data from the five days, on which foF2 was not much different from its value on the eclipse day, were used for further analysis. The variations of the absorption during the eclipse are presented graphically. In Gor'kiy at 25Mcs no effect was observed within experimental errors. The maximum decrease of the absorption is shifted several minutes with respect to the maximum of the eclipse. The lag is near to the value of relaxation time in the D-layer. In Yevpatoriya a second, smaller maximum, lagging by approximately 30 min, was observed. This maximum is probably connected with changes in the absorption in the F-layer, where the relaxation time is much longer than in the D-layer. The ratio of the maximum changes of the absorption in Gor'kiy and in Evpatoriya is approximately equal to the ratio of the Solar zenith angles cosines. The main reason for the changes in the absorption are changes in the electron density in the D-layer. There are 2 figures and 1 table.

Card 2/3

Card 3/3

36965

9,2571

S/141/62/005/001/012/024 E203/E435

AUTHORS:

Korobkov, Yu.S., Eydmin, V.Ya.

TITLE:

The radiation reaction of a moving charge in a waveguide filled with an anisotropic dielectric

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika.

v.5, no.1, 1962, 122-127

A full mathematical treatment is given of the motion of TEXT: an electric charge in a waveguide filled with an anisotropic dielectric for the case that the axis of symmetry of the crystal is parallel to the waveguide axis, and also the case when it is at right angles thereto. Starting from Maxwell's equations the authors calculate the energy transfers between the particle and the electromagnetic field. The energy equation splits into separate equations: one containing terms due to the rectilinear component of the particle's motion and the other containing those due to the oscillatory component. The first equation gives the Cherenkov effect, the second shows two effects: the first corresponding to an energy loss by the particle (normal Doppler effect) and the second to an energy gain (anomalous Doppler effect).

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S/141/62/005/001/012/024 E203/E435

The radiation reaction ...

If the terms giving the energy loss are now equated to zero, the condition is established under which a growth of oscillations must take place.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut

pri Gor'kovskom universitete (Radiophysics Scientific

Research Institute at Gor'kiy University)

SUBMITTED: June 9, 1961

Card 2/2

ARTEM YEVA, G.M.; BELIKOVICH, V.V.; BENEDIKTOV, Ye.A.; YERUKHIMOV, L.M.; ITKINA, M.A.; KOROBKOV, Yu.S.

Results of observations of intensity fluctuations of discrete sources at low frequencies. Geomag. i aer. 3 no.5:835-840 S-0 163. (MIRA 16:11)

1. Radiofizieheskiy institut pri Gor¹kovskom gosudarstvennom universitete.

ACCESS	ION NR: AP4046283 5/0203/64/004/005/0866/0872	
	Several results of investigations of E _g layers in the	arton and an
region	of the Pacific	
TOPIC	TAGS: fonospheric sporadic layer, appearance frequency, time, E layer type, semitransparency	
ABSTRA	CT: Investigations of ionospheric sporadic E _s layers were d out over the Pacific between the latitude parallels 42°N S in the summer of 1962. The whole region was divided into	
and 18° three zone I analyz between	zones — zone I, equatorial; zone II, northern tropical; and II, northern subtropical. E, types c, 1, f, s, and q vere ed. The maximum appearance frequency of the f-type took place a 2 and 3 p.m. local time. The c-type had a minimum appearance it noon. The 1-type had a minimum at 2 p.m. These charace	

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L 11369-65 ACCESSION NR: AP4046283		1		
of the appearance frequency maximum appearance frequency A maximum reflection from thoome of the Es types totally pheric layers, and others ar	is transferred to the of the 1-type takes e 1-type was observed acreen the reflection	night hours. The place in zone II. near the equator. n of upper ionos-		
ASSOCTATION: Radiofizichesk	iy institut pri Gor [†] k ysical Institute at D	ovakom gosuđirat≃ orkiv State	:	
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KOROBKOV, Yu.S.; PISAREVA, V.V.

Some results of investigations of E layers in the region of the Pacific Ocean. Geomag. i aer. 4 no.5:866-872 S-0 '64. (MIRA 17:11)
Pacific Ocean. Geomag. i aer. 4 no.5:866-872 S-0 '64. (MIRA 17:11)

1. Radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete.

Po-4/Pe-5/Pq-4/Pae-2/ EWT(1)/EWG(v)/FCC/EEC-4/EEC(t)/EWA(b) 24_4 B/0141/64/007/005/0982/0984

ACCESSION NR: AP5002328

Korobkov, Yu. S. AUTHOR:

Spectrum of distributed cosmic radio emission in the decameter radio band

SOURCE: IVUZ. Radiofizika, v. 7, no. 5, 1964. 982-984

11712 7478: Cosmic ray emission, radio astronomy

apstract: The distribution spectrum of cosmic rays in the 10--30 meter band was not investigated before, and the author shows that this band is of interest in connection with cosmic-ray research and in connection with the use of this band for radioastronomical investigations of the ionosphere. Pesults are reported of the measurement of the spectrum of distributed cosmic radio emission in the Months and the possible influence of the ionosphere, the observations were made

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ACCESSION NR: AP5002328

at night. The cosmic radio emission was received at 40, 25, 18, 6, 15, 9, and 6.3 Mc with the aid of multi-dipole antennas having identical electrical parameters. The possible errors are discussed. It is estimated that the over-all error in temperature measurement 1s $\pm 7\%$ at 40, 25, 18.6 and 13 Mg, $\pm 10\%$ at $9\Mc$, and $\pm 12\%$ at 6.3 Mg. The cosmic radio emission came from a region whose size was determined by the angle dimensions of the antenna directivity pattern, with a center having galactic coordinates $l = 98.5^{\circ}$ and $b = -5.3^{\circ}$. The results show that the temperature decreases nearly exponentially with increasing frequency, the relative intensity is fairly flat up to about 10 Mc after which it drops off, and the spectral index rises in this frequency range from about 1.9 to 2.6, its value being given by $\alpha' = 2.7 (1 - 2.1/5)$ (f -- frequency in megacycles). The reasons for the drooping nature of the spectrum are discussed briefly. Various factors affecting the accuracy of the results are discussed. "The author thanks A. F. Tarasov for help and N. M. Tseytlin for valuable remarks." Orig. art. has: 2 figures and 1

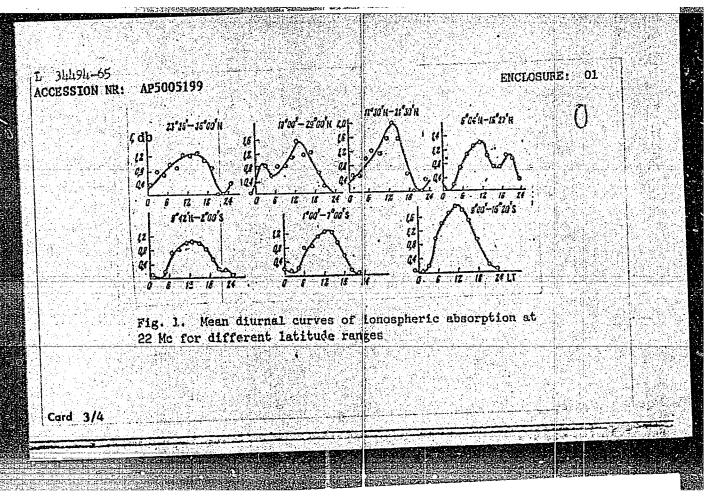
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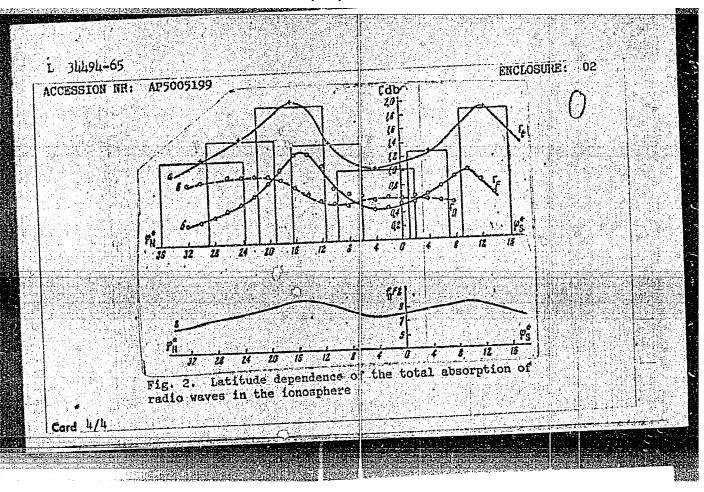
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ACCESSION NR: / AP5002328		
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ASSOCIATION: Nauchno-iss pri Gor'kovskom universite Institute at the Gor'kiy	Ledovatel'skiy radiofiziche ete (Scientific-Research Ra University)	
SUBMITTED: 16Jun64	ENCL: 00 OTHER: 006	SUB CODE: AA, EC
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35/P1-L PD/GW/WS-L	(t)/ENA(h) Po-U/Fe-5/Fq-U/Pee*i/ S/0203/65/005/001/0173/0177
CCESSION NR: AP5005199	
UTEOR: Korobkov, Yu. S.; Pisareva, V. V.	wateries in the lon-
ITLE: Latitudinal distribution of absorpti	m of cosmic radio emission in all
sphere	
OURCE: Geomagnetizm L geronomiya, v. 5, no	. 1, 1965, 173-177 US
and radio emissio	radio wave absorption,
1000Spheric Diagram	대통하는 (Process Control
ABSTRACT: This paper presents the results radio emission made over the Pacific Ocean	of measurements of absorption of the range of latitudes 36"N=16"S in
radio emission made over the factive the summer (May-August) of 1962 (between lo	nigitudes 160-240°E). Measurements vere mae
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Att the Minths Curves have a the training	45 NO 1800 BOOK AND AND THE AND
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ude dependence [of total radio wave absorption increase the region of the geomagnetic equator there	es with a decrease in factor absorption is a noticeable maximum. The absorption
the region of the Becombines 2-	
	대통령의 명속 공항들은 상하는 수 있다. 하는데 마다 마다 마다 마다 사고를 보고 있다. 이 다양한 다른 한 가입니다. 문학자들은 5
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maxima are at geographic dependence of total loss is a clearly expressed comparison, curve d in frequency of the F2 lay the same time. The rel the F2 region makes an On the basis of the det dio emission and the value to the total absorption introduced by the lower latitude dependence of ionosphere are shown 2 figures and 1 table. ASSOCIATION: Nauchnouniversitete (Scientif SURMITTED: 09Jun64	geomagnetic effect in Fig. 2 shows the er for hours close ationship between to appreciable contributer and latitudinal lives foF2, an attempt regions of the ione absorption in the F2 in Fig. 2 of the inside Research Institute.	dependen de midday. Data al abscrption for total i distribution of is made to det ie F2 region an iphere, particulayer F and inclosure. Original	ce of the critic on foF2 were obtained and foF2 indicates that onospheric absorption. absorption of commic ect the contribution of the layer. The absorption in the layer, art, has: 11 formula	ra- F e is, is, is, is, is, is, is,
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ENT(d)/FSS-2/ENT(1)/EEC(a)/EEC(j)/EEC(k)-2/EEC(f)/EEC(r)/PAG(v)/ FCG/EEG-4/EEG(t)/EEG(c)-2/EMA(h) Pn-4/Po-4/Pp-4/Pe-5/Pq-4/Pac-4/Pae-2/Peb/P1-4 UR/0203/65/005/003/0423/0428 ACCESSION NR: AP5014102 550.385 AUTHORS: Korobkov, Yu. S.; Pisareva, V. V. TITLE: Study of the inhomogeneities of electron concentration in the ionosphere in the region of the Tycho ocean with the help of artificial earth satellite signals SOURCE: Geomagnetizm 1 aeronomiya, v. 5, nd. 3, 1965, 423-428 TOPIC TAGE: electron, Londen ere, artificial satellite, antenna/ Explorer VII satellite, N 10 oscillograph ABSTRACT: The longitudinal dependence of the index of fluctuation of the signal from the artificial satellite Explorer-VII a the range of latitudes from 410H to 180S was studied. The correlation between the index of fluctuation, the diffuseness of the F-2 layer, and the frequencies of occurrence of B has been established. diurnal dependence of the index of fluctuation and its relation to the magnetic activity are briefly considered and the magnitudes of the inhomogeneities are estimated. The frequency of the signal from the satellite was 19 992 megacycles. The authors were interested only in observing signals of relatively large wavelengths, 2 ~ 15m. The signal was received by half-wave dipole antennae at an altitude of 0.5 m above the deck of the vessel. After detection, the signal was sent through an

L 52187-65 ACCESSION NR: AP5014102 integrating network having a time constant of 0.02 sec, and was registered on an N-10 oscillograph, WThe data about the ionosphere were obtained in an AIS station. The diffraction pattern on the earth's surface was obtained, and the following formula was used for T, the time for irregular changes in the signal in the $\tau = \frac{\overline{\Delta \xi_0}}{v \sqrt{(\Delta \overline{\phi})^3}} \frac{h_1}{h_2}, \ (h = h_1 n_2/(h_1 + h_2))^2$ Fraunhaufer region Here $\Delta \xi$ is the size of the inhomogeneity, v the velocity of the satellite, $\Delta \varphi$ the phase shift due to the inhomogeneity, he the altitude of the inhomogeneity, and \mathbf{h}_2 the altitude of the satellite. It was found from these observations that the index of fluctuation at night did not have a maximum in time. In most dases it was found to be well correlated to the diffuseness of the F-2 layer. The coefficient of correlation was found to be 0.16. Orig. art. has: 3 figures and 2 formulas. Nauchno-issledovatel'skiy radiofizioheskiy institut pri Gor Grovskom Hat aphysical Scientific Pegearch Institute, Borkty University) SUE CODE: AA, SV ENCL: 00 SUBMITTED: 15Jul64 OTHER: 008 NO REP SOV: 002

L 1713-66 EWT(1)/FCC/EWA(h) GW ACCESSION NR: AP5020999

UR/0203/65/005/004/0698/0704 550.388.3:550.385.2

AUTHOR: Benediktov, Ye. A.; Korobkov, Yu. S.; Tolmacheva, A. V.

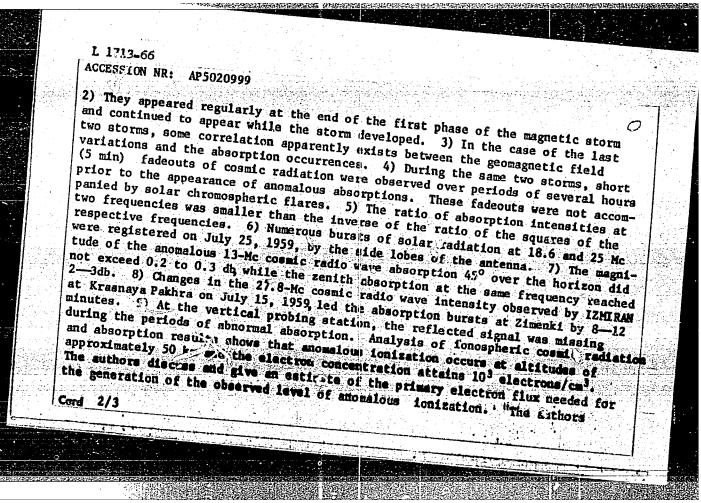
TITLE: Anomalous ionization of the lower tonosphere over temperate latitudes during

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 4, 1965, 698-704

TOPIC TAGS: ionospheric absorption, ionospheric inhomogeneity, magnetic storm, geomagnetic disturbance radio wave absorption

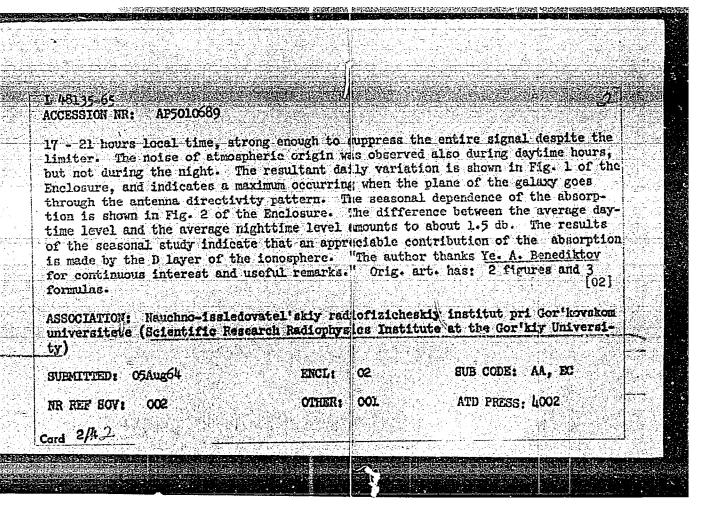
ABSTRACT: Anomalous ionization of the lower monosphere, causing additional absorption of radio waves, is observed during ghobal geomagnetic storms over temperate geographic latitudes. This paper reports on measurements of flareups in radio wave ionospheric absorption made at Zimenki near Gorky ($\phi = 56^{\circ}09^{\circ}$, $\phi = 50^{\circ}21^{\circ}$) during global geomagnetic storms on July 15, 1959, April 1, 1960, and October 28, 1961. The first two storms were registered at 25 and 18.6 Mc, and the last one was tracked at 9, 13, and 25 Mc by means of symphase multi-dipole antenna systems. The following findings were made. 1) Anomalous absorptions appeared in the form of consecutive absorption bursts lasting from several minutes to several dozen minutes.

Card 1/3



L 1713-66 Accession NR: AP5020399	and the second s				2
thank A. A. Beloborodova for has: 6 formules, 1 figure,	r help during and 4 tables	the processin	ng of data."	Orig. art	esta de Prigis
ASSOCIATION: Radiofizicheskiy institut pri Gor'kovskom gosudarstvenuom universite (Radio Physics Institute at Gorky State University)					
SUBMITTED: 24Aug64	ENCL:	CO		SUB CODE:	ES .
NO REF SOV: 006	OTHEI:	009		ATD PRESS	4096
하는 한 사용하는 시민들은 16년 수 그리고 한 왕동 사람들의 12년 중인 중요					
Card 3/3					

L 48135-65 FED/EAT(1)/EVG(V)/FCC/EEC-4/EEC(V)/ENA(h) Po-4/Pe-5/Pq-4/Pae-2/Feb/ Pi-4 RB/GH/WS-4 UR/0141/65/008/001/0186/0188 ACCESSION NR: AP5010689 AUTHOR: Korobkov, Yu. S. TITLE: Some results of measurements of the attenuation of cosmic radio emission in the ionosphere SOURCE: IVUZ. Radiofizika, v. 8, no. 1, 1965, 186-188 TOPIC TAGS: cosmic ray, cosmic radio emission, ionosphere, daily variation, seasonal variation ABSTRACT: The author presents preliminary results of an investigation of the passage of cosmic radio emission at frequencies 5.7 - 6.3 Mcs through the ionosphere. These measurements were made in Gor'kiy (Zimenka) in 1961-1964. The radio signals were received with a horizontal in-phase antenna, whose principal pattern lobe was in the direction of the zenith and measured 25° x 35° at the half-power points. The signal from the entemps was fed to a receiver with a 1-kc bandwidth and a noise limiter through a four-conductor feeder. A distinguishing feature of the reception was a strong noise background, occurring at Card 1/4.2



AUTI Xeru	iors: Getma	n(d)/snr(1)/FS(AP5021255 ntger, G. G., Ka M. Belikovich, H. YY Mityako idakir, V. A., A	leshnikov, N. V. VII Bekhnir	UR/02 629.19 UR/02	93/65/003/00 95.2:621.39 L'' Benedil L'' L. Ta'y	9 7	3	
TITL moon and SOUR TOPIC sate scop ABSTI of ti exper	E: The result at a freque Zimenki. CE: Kosmich C TAGS: mocilite tracki e, Zimenki c RACT: Durin he USA, and riment to ee live satellit	alts of an experiency of 162.4 me ency ency ency ency ency ency ency enc	riment on redice gacycles between anitys, v. 3, in research coording to telescope, E2 to 1964 the Acad toffice Depart	communication the observation 4, 1965, 6 dio telescopmation / Jodes SM 2 electro	in via "Eche atories of 1 18-629 e, radio tre 111 Bank re nic computer	2º and the odrell Bank	5	
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L 65295-65

ACCESSION NR: AP5021255

tests of 10-15 minutes (the time interval permitted by Echo's orbit), and the moon was used for 15 test runs between the Echo tests. The transmitting equipment at Jodrell Bank and the receiving unit of the Zimenki Observatory are described in detail. Echo orbit information furnished by NASA, visual observations, and radio tracking data from fixed stations were fed to a BESI-2 electronic calculator which provided programmed tracking control. The received signal exhibited strong fluctuations separable into two periods: 1) a 1-2 minute fluctuation associated with Echo-2 distortion from a sphere and with tracking errors; 2) a 3-10 second period associated with small surface irregularities. The rapid fluctuations varied with each test. Voice signals, slowed by a factor of 8, were barely intelligible. Telegraph, teletype, and photofacsimile transmission, in general, were unsatisfactory, but in periods of high signal-to-noise ratios intelligible scientific information. Unexpected transmissions were not as clear but did furnish ization losses and 1-2 db for unknown causes. The intermational cooperation was excellent, with the Soviet submitting a complete report. Offers for further compulses.

ASSOCIATIONS pages

mulas.
ASSOCIATION: none
SUBHITTED: 18Apr65
NO REF SOV: 000
Cord 2/2/24

ENCL: 00 OTHER: OO!

SUB CODE: AA, EC

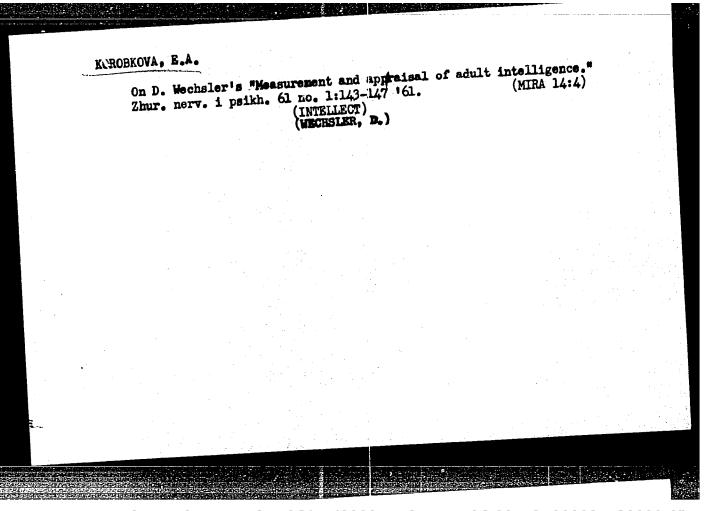
Review of the "Bulletin de psychologie"; published by a psychology research group of Faris University. Zhur.nevr. i psikh. 57 no.1; 138-145 '57. (MIRA 10:3)

DUKEL'SKAYA, Inna Naumovna; KOROEKOVA, Leva Aleksandrovna; BARAYAN, E.A.;
red.; KHAKNIN, M.T., tekhn.red.

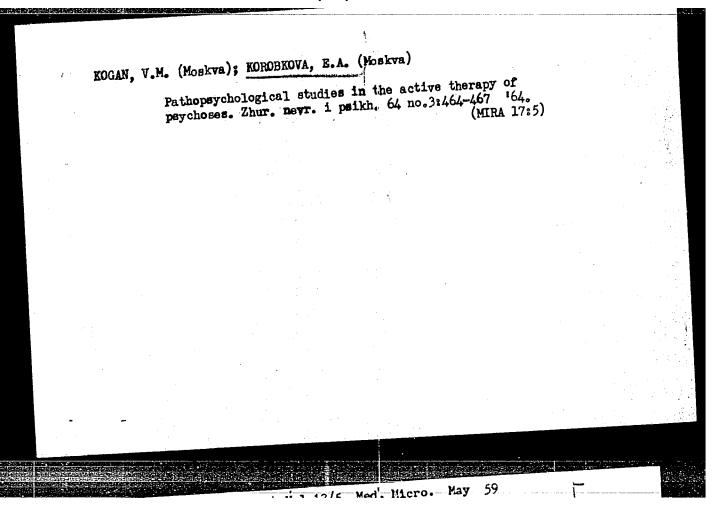
[Disability evaluation and employment of schizophrenics] Vrachebnotrudovaia ekspertisa i trudoustroistvo bol'mykh shizofreniai.

Moskva, Gos. izd-vo med. lit-ry, 1958. 70 p. (MEA 12:1)
(SCHIZOPHRENIA) (DISABILIT BYALUATION)
(MENTALLY HANDICAPPED-EMPLOYMENT)

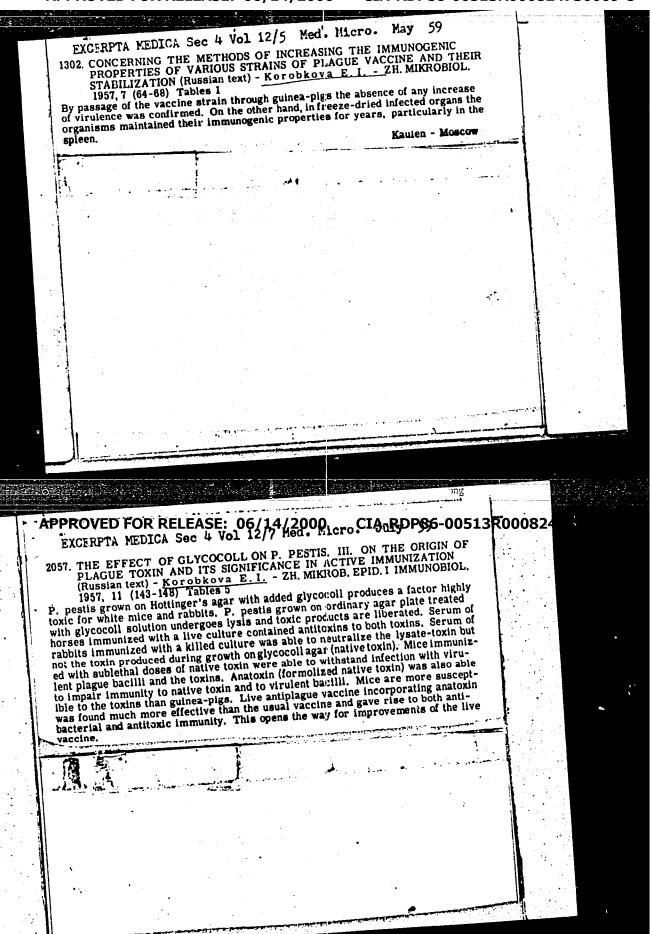
MELEKHOV, D.Ye.; KOROBKOVA, E.A. Olinical study of mental patients during work activity as a method of functional diagnosis. Trudy Gos. nauch.—issl. psikhonevr. inst. (MIRA 14:1) no.20:131-138 '59. 1. Institut psikhiatrii Ministarstva zdravookhranuniya RSFSR (direktor - prof. V.M. Banshohikov) i TSentral'nyy institut ekspertisy (direktor - prof. v.M. Banshohikov) i Twalidov (direktor - prof. v.M. Sokol'nikov). (MENTAL ILLNESS) (WORK)



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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824730009-8"



MAKASHOV, Aleksey Ivenovich; SOLOVIYEV, Georgiy Fedorovich; KOROBKOVA, G., red.; HEMITOV, V., tekhn.red.

Mtsensk. Orel, Orlovskoe knizhnes isd-vo, 1959. 113 p. (MIRA 13:5)
(Mtsensk)

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CIA-RDP86-00513R000824730009-

SAKHNOVA, Kh. Ye.; KOROBKOVA, G., red.; HEMITOV, V., tekhn.red.

[The present and the past of the "Tekmash" Plant"]

Mastoiashchee i proshloe savoda "Tekmash." Orel, Orlovskoe knizhnoe isd-vo, 1359. 136 p.

(Orel Province—Machinery industry)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824730009-8"

	FRASE I BOOK EXPLOITATION Abademiya nauk SSSR, Harhduvedenstvenny keeltet po provedenju Periodumseednege geofilicheskogo goda. Ill razdel programny NDG: Zemnoy magnetizm i zemnya toki.	Korotkoperiodicheskiye kolebaniya elektromagnitnogo polya zemli (Short-Period Oncillathons of the Earth's Electromagnetic Flaid) Moscow, Izd-vo AN SSSN, 1961, 114 p. 1,500 copies Printed (Series Its: Sbornik statey, Mo. 3)	word, T. Troitskays, Condidate of Physics and Arisands, It., F. Shchuidner, Tech. Ed.: Ye. F. Shchuidner, Tech. Ed.: Ye. Fishuid. FURPOSE: This publication is intended for goophysicists.	COVERABE: This collection of articles, published by the Inter- dopartmental IOY Committee of the USSA Accelery of Sciences, treats problems of gocasmetism and telluric currents. In- dividual articles deal with various [abort-period, Effantic, field, particularly in the arctic region. No personalities freat, particularly in the arctic region. No personalities are mentioned. Brief English abstracts accompany each article. Beferences follow individual articles.	TABLE OF CONTENTS: Afanse 'year, V. I. Short-Period Oscillations of the Earth's	Augusta steam Kall of the Marketine of the Maturbed Field of Marth Curventer Earth Curventer	Ochatoimekays, M. V., Wu, B. Rastmain, I. I. Rokitymskiy, and M. V. Shingpekney. Regularities in the Excitation of an anorth-Perior Cachinetons in Middle Latitudes	Vinogrador, P. A. Short-Period Oscillations of the Electro- telluric Pield (According to Cheerasicom in Irkutak) 23 Indergrady, V. 9. Rapid Geolectric and Geometricity Variations Entry Freit Regularities (According to Observations in Abbaback) 35	Troitskays, V. A. Steady Oscillations and Chain Oscillations \$1 in the Artio and Antertic	Zahareva, E. P. Fraiminary Results of Earth Current Observations in Tikel Bay	Mikitins, M. M. Freliminary Results of Earth Current Observes waltons at the Barentsburg Station (Spitsbergen)	Subareva, E. P., G. I. Korobkova, M. M. Wicking, and V. A. Froitskaya. Gigentie Fulsations in the Soviet Arctic During the 1935-1956 Period	Barsukov, O. M., and K. Tu. Zybin. Nomperpredicularity of the Voctors of the Earth's Electromagnetic Modern 1914	Troitskays, W. A., and M. V. Mol'nikova. Characteristic Intervals of Oscillations, Descriains Over a Period (10-1 sec), in the Earth's Electromagnetic Plans, and Their Relation- ahip With Finencia in the Upper Atmosphere	polishators, O. V., R. Yu. Zybin, and M. F. Hallfaers. Some Megalarities in the Behavior of the Vertical Component of Anoth-Period Oscillations of the Geomegretic Field in a Stable Ragime (pp.)	
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37315

S/169/62/000/004/101/103 D290/D302

3.9110

AUTHORS:

Korobkova, G.I., and Ol', A.I.

TITLE:

Measurements of the Q-index of geomagnetic activity

in the Soviet Arctic observatories

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 4, 1962, 41, abstract 4G238 (V sb. Probl. Arktiki i Antarktiki, Vyp.

9, L., Morsk, transport, 1961, 89-92)

TEXT: A statistical study was made of the Q-indices of magnetic activity at the stations on Dickson island, at cape Chelyuskin, at Tiksi bay, and at Uelen during 1958. The authors calculated the mean-annual diurnal variation, the mean-hourly value $(\overline{\mathbb{Q}})$, the maximum during each hourly interval (\mathbb{Q}_{max}) , and the number of hourly intervals during which $Q\gg 5$ (NQ). The diurnal variations of \overline{Q} , Q_{\max} , and N_Q agree well among themselves and also with the diurnal variation of rH. It is shown that the diurnal sum of the Q-indices (Σ Q) is closely correlated with the sum of the planetary K-indices

5/169/62/000/004/101/103 D290/D302

Measurements of the Q-index of ...

 $(\sum K_{n});$ the correlation is linear only for low activities $(\sum K_{p} \leqslant$ <30). The correlation between the Q-indices and $r_{\rm H}$ was studied; it is shown that it is possible to convert values of Q into equivalent values of rH. [Abstractor's note: Complete translation].

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824730009-8

> s/561/61/000/009/003/003 D207/D308

AUTHORS:

Korobkova, G.I., and Ol', A.I.

TITLE:

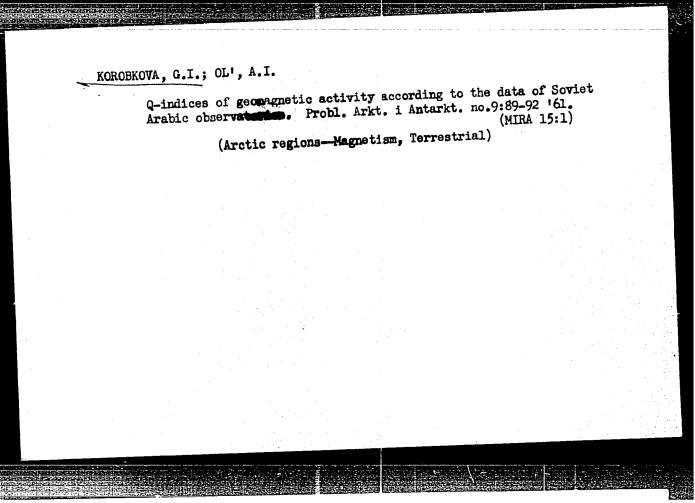
Q-indices of geomagnetic activity according to the

data from Soviet Arctic observatories

SOURCE:

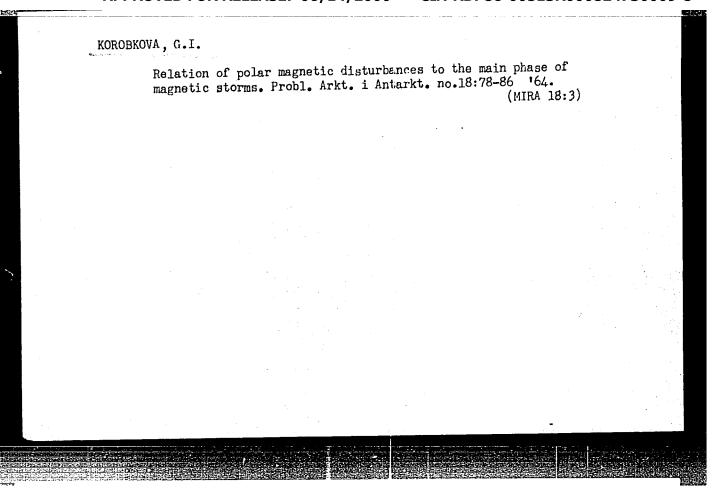
Problemy arktiki i antarktiki, no. 9, 1961, 89 - 92

TEXT: An analysis of the records obtained in 1958 at the Dikson Island, Ghelyuskin Cape, Tiksi Bay, and Uelen stations showed that: 1) There is a close correlation between the hourly values of the horizontal component of the earth's magnetic field rH and the hourly values of Q-indices, 2) there is little difference between the hourly Q-values calculated by (a) averaging measurements taken at 15 min. intervals (\overline{Q}) , (b) selecting the highest of the Q values (\overline{Q}) in a given hour for every day, or (c) taking the number of Q-indices greater than 5 in a given hour and averaging this number for a month or a year. The calculation methods (b) and (c) are recommended because of their greater convenience. For stations based on drifting ice, where Q-indices are difficult to measure, it is Card 1/2



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CIA-RDP86-00513R000824730009-8"



29727 S/169/61/000/008/048/053 A006/A101

3,9110 (1121,1482)

AUTHORS: Zubareva, E.P., Korobkova, G.I., Nikitina, N.M., Troitskaya, V.A.

TITIE: Giant pulsations in Soviet Arctic during 1935 - 1956

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 8, 1961, 39, abstract 80262 (V sb. "Korotkoperiod. kolebaniya elektromagnith. polya Zemli, no. 3", Moscow, AN SSSR, 1961, 76 - 82, English summary)

TEXT: The study of giant pulsations was carried out on the basic of standard recordings of the magnetic field with 20 mm/h scanning from data of the following 6 observatories: Dixon, Wellen, Matochkin Shar, Tiksi, Chelyuskin and Tikhaya Bay. The greatest number of giant pulsations was recorded at the Wellen and Dixon stations. Usually, giant pulsations were observed with T of about 60 and 90 seconds. For a number of stations T was also about 45, 75 and 135 sec. It is possible that for giant pulsations there are one or two basic periods, whose different harmonics appear differently depending on the local conditions of the given station. The amplitudes of giant pulsations vary within the limits from a few to several tens of γ . At Dixon and Wellen giant pulsations arise mainly during the first half of the day. On Dixon the number of giant pulsations

Card 1/2

29727 8/169/61/000/008/048/053 A006/A101

Giant pulsations in Soviet Arctic during 1935-1956

increases towards the equinox, for the Wellen station seasonal changes are less marked. Simultaneous giant pulsations on a number of stations are rather seldom, but some giant pulsations were recorded at the same time at Dixon and Wellen. Sometimes giant pulsations are excited during the day at different but close hours; in the majority of such cases they arise first at the stations located more to the east. It is concluded that giant pulsations are disturbances of the terrestrial electromagnetic field and are typical of polar aurora zones. They damp rapidly to the north and south of the aurora.

K. Zybin

[Abstracter's note: Complete translation]

Card 2/2

Card 1/2

APPROVED FOR RELEASE: 06/14/2000

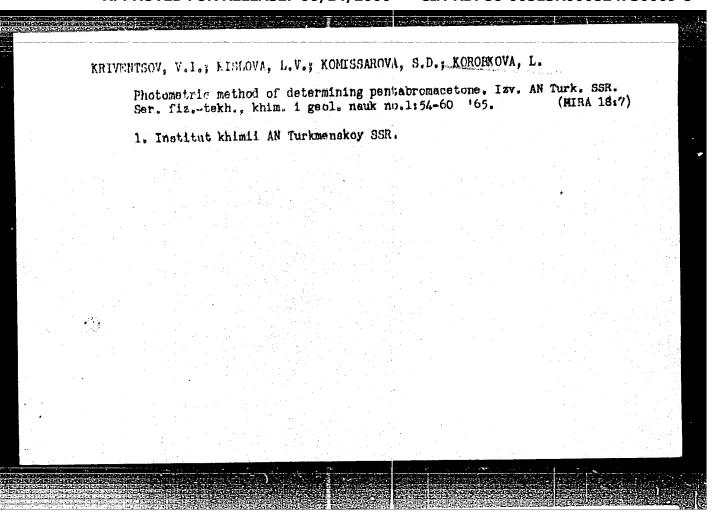
CIA-RDP86-00513R000824730009-8

USSR/Pharmacology. Toxicology. Cholinergic Drugs

Abs.Jour. : Ref Zhur-Biol., No 8, 1958, 47546

Abstract

: atropine. No improvement was noted in 13 of the patients. Side effects (dryness in the mouth, reduced vision and others) were more apparent when 1 was taken internally. Greater tolerance by the patients for 1 as compared with atropine was noted.



sov/126-7-6-22/24

AUTHORS: Vlasov, V.V. and Korobkova J. J.

TITLE: Investigations Relating to the Defectoscopy of Railroad Rails in Moving Magnetic Fields. 16. Study of the Possibility of Detecting Defects from Their Reaction on the Primary Field

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 7, Nr 6, pp 937-939 (USSR)

ABSTRACT: This is one of a long series of articles on the subject of detection of rail failures by means of magnetic fields moving at speeds which are acceptable in normal railroad operation.

At present the wagon which carries the defectoscopy

At present the wagon which carries the defector apparatus is pulled by means of a separate locomotive. However, it would be useful to be able to attach the defectoscopy wagon to any train. This would be possible only if the test apparatus were not less than 100 mm only if the test apparatus were not less than 100 mm above the rails, which requires increasing the air gap between the electromagnet and the rail from 10-30 mm to loom and to lift to the same level the search equipment.

Card 1/3 This obviously leads to a considerable drop in the sensitivity of the defectoscope. The authors considered

SOV/126-7-6-22/24

Investigations Relating to the Defectoscopy of Railroad Rails in Moving Magnetic Fields. 16. Study of the Possibility of Detecting Defects from Their Reaction on the Primary Field

it of interest to study the possibility of detecting defects from their reaction on the primary field and particularly from the disturbance of the magnetic flux in the core of the magnetizing electromagnet. Therefore, they studied the possibility of detecting an artificial defect of the type of a transverse crack in the railhead for various vertical distances from the rail to the electromagnet, which is used for generating the magnetic field above the rail, the search coil being located directly on the core of the electromagnet. investigations were carried out by using a model, dealt with in earlier parts of this series of articles, Refs 2 and 3. A diagrammatic sketch of the model is shown For magnetizing the rail model, an in Fig 1. electromagnet was used with a core made of 0.35 mm thick transformer sheet (30 mm wide, with a packet width of 20 mm). The experiments revealed that, at least Card 2/3 extensively developed defects, can be detected in rails

sov/126-7-6-22/24

Investigations Relating to the Defectoscopy of Railroad Rails in Moving Magnetic Fields. 16. Study of the Possibility of Detecting Defects from Their Reaction on the Primary Field

by means of an electromagnet located 100 mm above the rail and that the defects can be detected more easily by means of a coil located on the second (trailing) pole in the direction of movement than on the first pole (pole S of Fig 1). The authors recommend that for solving the problem the carried out laboratory experiments should be supplemented by experiments on normal tracks. There are 3 figures and 3 Soviet references.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Metal Physics, Ac.Sc. USSR)

SUBMITTED: April 7, 1958

Card 3/3

KOMOBKOVA, L. M.

24043 KOROBKOVA, L. M. Limfaticheskiye sosudy matki u koshki. Trudy Leningr. San.-Gigien. Med. III-TA, T. III, 1949, S. 178-93. - Bibliogr: 8 Mazv.

S0: Letopis, No. 32, 1949.

28907 8/170/61/004/011/007/020 E104/B112

11.7200

AUTHOR: Korobkova, M. P.

TITLE: Heat-production rate on the boundaries of vibrational flame

propagation

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 11, 1961, 64-67

TEXT: In a previous paper, S. A. Arbukov (Tret'ye Vsesoyuznoye soveshcharine po teorii goreniya, 1, 44, M., 1960) made the assumption that the heat-production rate Q on the concentration boundaries of the vibration-excitation ranges of a flame is constant for every fuel. In the present paper, the author gives an experimental proof of this assumption by examining the boundaries of vibrational flame propagation of mixtures of air and carbon monoxide and of oxygen with propane and crude-oil gases.

Measurements were made with an improved tube method (G. A. Barskiy, Ya. B. Zel'dovich, ZhFKh, 24, 5, 589, 1960) at room temperature and atmospheric pressure. The assumption Q = const is proved by computing the chemical reaction rate \$\mathbf{y}\$, using the theory of flame propagation of Ya. B. Zel'dovich and D. A. Frank-Kamenetskiy and measuring the normal component Card 1/7

28907 \$/170/61/004/011/007/020 B104/B112

Heat-production rate on the ...

 $u_{_{\hbox{\scriptsize H}}}$ of the flame-propagation velocity. It is shown that Q can be estimated from the measured values of $u_{_{\hbox{\scriptsize H}}}.$ Results are given in Tables 1-7.

 \mathbf{y} was calculated from $\frac{\mathbf{r}_{1}^{n}\mathbf{r}_{2}}{\mathbf{r}_{1}} = \mathbf{x}\mathbf{p}(-\frac{\mathbf{E}}{\mathbf{R}\mathbf{T}})$, where \mathbf{r}_{1} and \mathbf{r}_{2} are fuel and

oxygen concentrations. The author thanks 0. A. Tsukhanova (ENIN) for discussions. There are 7 tables and 7 Soviet references.

ASSOCIATION: Aviatsionnyy institut, g. Kazan' (Aviation Institute, Kazan')

SUBMITTED: March 1, 1961

Tables 1-3. Mixtures of carbon monoxide with carbon dioxide, oxygen, and nitrogen.

Legend: (1) N_{2 impurity}; (2) N_{2 impurity} + N₂ air

W/

Card 2/7

EPA/ENT(1)/EPA(s)-2/ENT(m)/EPF(c)/EPR/ENA(c) L 41175-65 8/0000/52/000/000/0046/0051 WW/JW/GS AT5004087 ACCESSION NR: AUTHOR: Korobkova, H. P. A study of the limits of vibrating flame propagation SOURCE: Vsesoyuzusya nauchno-tekhnicheskaya konferentsiya po probleme vibratsionnogo i pul satsionnogo goreniya. 1st, 1961. Trudy. Moscow, Sektor nauchno-tekhn. inform, GTAP, 1962, 46-51 TOPIC TAGS: combustion, pulsed combustion, vibration excitation, combustion mixture, combustion oscillation quenching, combustion speed, flame propagation ABSTRACT: Oscillations of flame fronts in half-open volumes occur only for given compositions of the combustion mixtures. The author studied the limits of vibrational flame propagation in CO-air, propane-oxygen, and methane-oxygen mixtures in horizontal half-open glass tubes 85 cm long and 3 cm in diameter. Oscillations were quenched by inert admixtures. She concludes that the type of combustion depends on the normal combustion speed UH (or the rate of chemical reaction) because va up. She also finds that for each percentage composition of the mixture there exists a minimum length below which deciliations cannot be excited. The tube diameter also proved to have a significant influence on the type of combuse Card 1/2

tion. The paper contains numero	ous diagrams illustrating	O various dependencies, all				
of which show an extremum. All B. V. Raushenbakh (Vibrataionno) 6 figures and I table.	results are in good agree	ment with the theories	of:			
ASSOCIATION: None						
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Rate of heat liberation on the boundaries of the vibrational propagation of a flame. Inzh.-fiz.zhur. 4 no.ll:64-67 N '61.

(MIRA 14:10)

1. Aviatsionnyy institut, g. Kagan'.
(Heat of combustion)

ACCESSION NR: AR4014417

8/0124/64/000/001/8095/8099

SOURCE: RZh. Mekhanika, Abs. 1B613

AUTHOR: Korobkova, M. P.

TITLE: Study of the limits of the vibrational extent of the flame

CITED SOURCE: Tr. 1-y Vses. nauchno-tekhn. koni'erentsii po probl. vibratsion. i pul'satsion. goreniya. M., 1962, 46-51

TOPIC TAGS: combustion, vibrational combustion

TRANSLATION: The vibrational propagation of the flame during the combustion of CO-air, propane-oxygen, and methane-oxygen mixtures with inert components has been studied within horizontal glass tubes 2.3 and 4.8 cm in diameter. The onset of oscillations was determined by ear and by the way the flame unfolds. The limits within which vibrational combustion occurs depend on the concentration of the combustive mixture and on the length and diameter of the tube. The results are presented in a table and 6 graphs. The interpretation of the experimental results follows the theory by B. V. Raushenbakh (Vibratsionnoye goreniye, M., Fizmatgiz, 1961). There are 8 references. Yu. S. Ryazantsev.

DATE ACQ: 18Feb64

SUB CODE: FL

ENCL: 00

Card 1/1