

ZYBALOVA, G.P.

Changes in the permeability of Angren coal during the process of its
drying and heat treatment. Podzem.gaz.ugl. no.1:28-31 '58.
(MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut podzemnoy
gazifikatsii ugley.

(Coal--Permeability)

GOLUBEV, Yu.B.; ZYBALOVA, G.P., kand.tekhn.nauk; PETUKHOVA, N.N.; SHCHAD'KO, A.M.

Gas formation dynamics in the gasification of a lignite seam
at the experimental "Podzemgaz" gas generator station in the
Angren Basin. Trudy VNIIPodzemgaza no.13:11-17 '65.

(MIRA 18:8)

1. Laboratoriya tekhnologii podzemnoy gazifikatsii uglya Vsesoyuznogo
nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii ugley.

BOITANOVA, Z.M.; ZYBALOVA, R.F.

Detection of bacterial pollution of preserved blood and its components.
Gemat. i perel. krovi 1:125-128 '65.

(MIRA 18:10)

1. Kiyevskiy institut perelivaniya krovi i Kiyevskaya gorodskaya
stantsiya perelivaniya krovi.

ZYBAREV, A.; PAKHOLKOV, D.

New heating system for the ZIL-158 motorbuses. Avt.transp.
38 no.1:40-41 Ja '60. (MIRA 13:5)
(Motorbuses)

Technology

Preparation of production at an automobile plant, Moskva, Mashgiz, 1950

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ZIBAYLO, A.V.

"
Simplifying the handling and form of technical records. Avt.trakt.prom.
no.11:4-6 N '54. (MIRA 8:1)

1. Moskovskiy avtozavod im. Stalina.
(Automobile engineering) (Factory management)

ZYBAYLO, Aleksey Vasil'yevich; SHEVELEV, A.G., inzh., retsenzent; LEVIN-
SON, I.S.N., inzh., red.; RADAYEVA, Z.A., red. izd-va; EL'KIND, V.D.,
tekh. red.

[Organizing preliminary activities in the mass manufacture of machinery]
Organizatsiia podgotovki proizvodstva v massovom mashinostroenii. Mo-
skva, Gos. nauchno-tekh. izd-vo mashinostroit. lit-ry, 1961. 234 p.
(MIRA 14:9)

(Factory management)

ZYBAYLO, I. J.

Ways of lowering the production costs in chemical working circles.
Gidroliz. i lesokhin.prom. 10 no.5:23-24 '57. (MLRA 10:8)

1.Ivatsevichskiy khimleskhoz.
(White Russia--Forest products--Costs)

UVAROVA, Z.A.; KOROL', G.S.; ZYBENKO, L.D.; GERASIMENKO, G.

Effect of ammonium carbonate on certain physiological features in
corn. Izv. AN Kazakh. SSR. Ser. bot. i pochv. no.1:52-56 '61.
(MIRA 14:4)

(Ammonium carbonate—Physiological effect)
(Corn (Maize))

ZYBIN, A.

More production with less spending. MTO no.11:17-18 N '59.
(MIRA 13:4)

1. Predsedatel' soveta pervichnoy organizatsii Nauchno-
tekhnicheskogo obshchestva sel'skogo i lesnogo khozyaystva
zernosovkhoza "Grachevskiy," Stavropol'skiy kray.
(Stavropol Territory--Agricultural research)

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26248

Author : ~~Zybin A.~~
Inst : Not Given
Title : A Valuable Animal Feed for Fowls (Tsennyy zhiivotnyy korm dlya ptitsy)

Orig Pub : S. kh. Sibiri, 1957, No 5, 61-65

Abstract : An experiment was carried out in the raising of chicks by supplementing feed rations with fresh-water shrimp (Gammarus). Feeding fresh shrimps to the chicks started from 2-3 days of age. Daily average per head was: during the first ten days 2-4 g., during the next ten days 4-8 g., subsequent ten days 8-12 g., at 2 months of age 20 g., at 3 months 30 g., and grown-up chicken 60-70 g. of fresh, or 15-18 g. of dried shrimps. The feeds had a positive influence on the growth, development, and survival of the young chickens. There was no chicken post in the experimental group of 840 heads. The average chickens' weight at 2 months of age was 693 g. as

Card : 1/2

USSR/Farm Animals -- Domestic Fowls

Q-6

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26248

against 651 g. in the control group; young hens started laying eggs at 5 months of age - earlier than in the control group. The article gives available published data regarding the effectiveness of the use of Gammarus as a food for chickens. The way of catching and drying Gammarus in the summer and winter, as well as the economical profitability of its utilization, are indicated.

Card : 2/2

KOMAROV, V.S., inzh.; ZYBIN, A.G., inzh.

Control and protection of double fans in local ventilation.
Izv. vys. ucheb. zav.; gor. zhur. no.8:162-167 '61. (MIRA 15:5)

1. Vostochnyy nauchno-issledovatel'skiy institut po
bezopasnosti rabot v gornoy promyshlennosti. Rekomendovana
Vostochnym nauchno-issledovatel'skim institutom po bezopasnosti
rabot v gornoy promyshlennosti.

(Fans, Electric)

ZYBIN, A. S.: Master Biol Sci (diss) -- "The lake crayfish (*Gammarus Rivulogammarus lacustris* G. O. Sars) and the outlook for its economic exploitation on the basis of experimental data". Omsk, 1958. 25 pp (Tomsk State U im V. V. Kuybyshev), 200 copies (KL, No 6, 1959, 129)

ZYBIN, A.S.

The pike perch in the Irtys. Izv. Omsk. otd. Geog. ob-va no. 6:
119-120 '64. (MIRA 18:9)

YASENEVA, R.V.; ZYBIN, A.Yu.

Method for determining velocity of the lower clamps of the RT-250
tearing machine used in testing fabrics. Konh.-obuv.prom. no.4:
17-19 Ap '59. (MIRA 12:7)
(Testing machines) (Textile fabrics--Testing)

ZYBIN
ca

16

Use of Kutter drums for drying grain and malt. D. Yuditskii, E. Zybin and T. Shumskaya. *Soviet-Vostochnaya Prom.* 16, No. 6, 36-7 (1939).—The drums of Biltner malt grain driers can be used successfully for drying wet grain or malt down to 11-12% moisture in about 8 hrs. under mild conditions, with gas entering the drum at about 60 and leaving at about 50°. Julian F. Smith

ASAC-FLA METALLURGICAL LITERATURE CLASSIFICATION

13000 131000 132000 133000 134000 135000 136000 137000 138000 139000 140000 141000 142000 143000 144000 145000 146000 147000 148000 149000 150000 151000 152000 153000 154000 155000 156000 157000 158000 159000 160000 161000 162000 163000 164000 165000 166000 167000 168000 169000 170000 171000 172000 173000 174000 175000 176000 177000 178000 179000 180000 181000 182000 183000 184000 185000 186000 187000 188000 189000 190000 191000 192000 193000 194000 195000 196000 197000 198000 199000 200000 201000 202000 203000 204000 205000 206000 207000 208000 209000 210000 211000 212000 213000 214000 215000 216000 217000 218000 219000 220000 221000 222000 223000 224000 225000 226000 227000 228000 229000 230000 231000 232000 233000 234000 235000 236000 237000 238000 239000 240000 241000 242000 243000 244000 245000 246000 247000 248000 249000 250000 251000 252000 253000 254000 255000 256000 257000 258000 259000 260000 261000 262000 263000 264000 265000 266000 267000 268000 269000 270000 271000 272000 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988000 989000 990000 991000 992000 993000 994000 995000 996000 997000 998000 999000 1000000

Let's remunerate locomotive brigades per each kilometer-ton.
Sots.trud. no.4:136-137 Ap '58. (MIRA 11:4)
(Railroads--Salaries,pensions,etc.)

ZYBIN, I.

The wage schedule for locomotive brigades requires revision. Sots.trud.no.3:
112-115 Mr '56. (MIRA 9:7)
(Railroads--Salaries, pensions, etc.)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720017-1
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720017-1"

ZYBOV, A.M., polkovnik meditsinskoy sluzhby YERIN, S.V., polkovnik meditsinskoy
sluzhby

Diagnosis and expertise of patients with acute gastritis and duodenal diseases.
Voen.-med.zhurn. no.9:77-72 '64. (MIRA 18:5)

ZYEIN, Yu.A.; SAMSONOV, V.G.; KHARAKHASH, V.G.; DORFMAN, E.M.

Lined plastics and their testing. Plast. massy no.7:64 '65. (MIRA 18:7)

PHASE I BOOK EXPLOITATION 149

Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii

Pribory i stendy. Tema 5, No. P-56-475 (Instruments and Instrument Stands.
Topic 5, No. P-56-475) Moscow, 1956, 10 p. 1,620 copies printed.

Additional Sponsoring Agency: Gosudarstvennyy komitet Soveta Ministrov SSSR
po novoy tekhniki.

Chief Ed.: Udal'tsov, A. N.; Ed.: Yakovlev, D.A., Engineer.

PURPOSE: This booklet is addressed to those interested in the technique and
metering instruments used in the measurement of very low resistances and to
earth physicists interested in metering technique in measuring the suscep-
tibility of rock samples.

COVERAGE: The booklet contains two articles, one describing a pulse microhmmeter,
the other an absolute permeability meter.

Card 1/3

Instruments and Instrument Stands (Cont.) 149

TABLE OF CONTENTS:

Iraniy, P. B., Engineer. A Pulse Microhmmeter 3

The article describes an instrument for measuring very low contact resistances (on the order of 1 microhm). Such meters are used, for example, in measuring bus connection resistances on the order of 0.1 to 5 microhms. The ammeter-voltmeter method for obtaining a visible deflection of the needle on a 10 mv scale is described. The method requires very high testing currents, on the order of 100 amperes when measuring 1 microhm. The author describes the microhmmeter developed by him at the "Uralelektroapparat" factory (author's certificate No. 94385). The operating principle of the instrument is based on the generation of high current (200 to 300 amperes) pulses. Fig. 1 is a circuit diagram of a microhmmeter for measuring low resistances (from 2 to 5,000 microhms) under shop conditions. Fig. 2 is a circuit diagram of a microhmmeter for measuring low resistances (in the $0.1 \cdot 10^{-6}$ to 10 ohm range) in a closed circuit through the secondary coil of a stepdown transformer. Fig. 3 is a photograph of the apparatus used for checking the contact system of the MKP-110 oil circuit breaker. Fig. 4 is a structural and connection diagram of the instrument used to check the contact system of the VMG-133/111 oil circuit breaker. A table of pulse transformer coil winding data is given.

Card 2/3

Instruments and Instrument Stands (Cont.) 149

There is one Soviet reference.

Zybin, K. Yu. An Absolute Permeability Meter

9

This instrument was developed by A.G. Kalashnikov at the Institute of Earth Physics, AN SSSR. The report is accompanied by a schematic diagram of the fluxmeter in circuit. Formulas are given for calculating susceptibility, flux, etc. The design and principle of operation of the instrument are described. The instrument is used in measuring the susceptibility of rock samples. There are no references.

AVAILABLE: Library of Congress

Card 3/3

JP/mas
11-5-58

"Some results of observing the variation vector of the horizontal component of the geomagnetic field."

report presented at the Intl. Association of Geomagnetism and Aeronomy, Symposium on Rapid Geomagnetic Variations, Utrecht, Netherlands, 1-4 Sep 59.

"Some laws in the behaviour of the vertical component of short-period oscillations of the geomagnetic field of stable regime (Pc)."

report presented at the Intl. Association of Geomagnetism and Aeronomy, Symposium on Rapid Geomagnetic Variations, Utrecht, Netherlands, 1-4 Sep 59.

S/049/60/000/02/006/022
E131/E459

1100
AUTHOR:
TITLE:

Kalashnikov, A.V. and Zybin, K.Yu.
Some Results of Investigating the Variations of the
Horizontal Component of the Geomagnetic Field (From
Observations During the I.G.Y.)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,
1960, Nr 2, pp 236-242 (USSR)

ABSTRACT: The investigations were carried out by the Station "Borok"
of the Institute of Physics of the Earth, Academy of
Sciences USSR (58°02 N and 38°58 E). A three-component
assembly was employed giving the variations of H_x , H_y
and Z of the geomagnetic field. The vertical component
was recorded by means of a mesh placed horizontally in
the earth, the total surface of which was 15700 m².
The sensitivity of the Z-channel was 1.4×10^{-2} γ /mm.
Examples of recordings of the variations of all three
components are illustrated in Fig 2. Vector diagrams of
the variations of the horizontal components were plotted
showing the amplitudes of the components H_x and H_y
for a given instant (Fig 3). The curves thus obtained
enclose an elongated area, the azimuth of the longer

S/049/60/000/02/006/022
E131/E459

Some Results of Investigating the Variations of the Horizontal Component of the Geomagnetic Field (From Observations During the I.G.Y.)

axis having predominantly a direction NW to SE, ie the mean azimuth was found to be 38° (Fig 4). It was found that the diurnal rotation of the vector was predominantly anti-clockwise. Out of 456 cases, 258 rotations were anti-clockwise, 146 clockwise and 52 were variable (Fig 5, 6 and 7). The diagram of the relationships

$$E_x/H_y, E_y/H_x \text{ and } E/H = \frac{\sqrt{E_x^2 + E_y^2}}{\sqrt{H_x^2 + H_y^2}}$$

was also produced (Fig 8) in order to illustrate the relationship between the amplitude of the variations of the electric field and those of the magnetic field. The cause of these variations could be the effect of electric eddies in the ionosphere at the heights of 100 km and

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E131/E459

Some Results of Investigating the Variations of the Horizontal
Component of the Geomagnetic Field (From Observations During the I.G.Y.)
above. There are 8 figures and 1 Soviet reference.

ASSOCIATION: Akademiya nauk SSSR Institut fiziki Zemli
(Academy of Sciences, Institute of Physics of the Earth)

SUBMITTED: August 6, 1959

Card 3/3

X

82706

S/049/60/000/006/002/002
E073/E535

3.9000

AUTHORS: Bol'shakova, O.V., Zybin, K. Yu. and Mal'tseva, N.F.

TITLE: Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (in accordance with observations carried out during the I.G.Y.)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, No.6, pp.818-827 + 1 plate

TEXT: The authors evaluate the results of observations carried out in the following three geophysical stations of the Institute of Physics of the Earth, AS, USSR during the first six months (August, 1957 to January, 1958) of the I.G.Y.: Lovozero (Murmansk region) - 67° 58' northern latitude, 35° 05' eastern longitude; Borok (Yaroslavl region) - 58° 02' northern latitude, 38° 58' eastern longitude; Petropavlovsk-Kamchatskiy - 53° 06' northern latitude, 158° 38' eastern longitude.

The primary evaluated data are the 24 hour photographic recordings of fluxmeter induction apparatus with a 90 mm/hr scanning speed.
Card 1/4

82706

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E073/E535

Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (In accordance with observations carried out during the I.G.Y.)

The authors investigated the frequency spectrum of the field of the short period fluctuations, the daily characteristic of the times of occurrence of short period fluctuations, the daily characteristic of the average maximum amplitude of the short period fluctuations and their behaviour as a function of the geographic distribution of the observation points. The data are described in considerable detail. For the purpose of elucidating generally valid amplitude relations, the authors introduce the term "degree of Pc activity" and investigate its behaviour. The degree of Pc activity was selected in the same way as the international geomagnetic activity characteristics. However, in the given case the amplitude of fluctuations with periods of 10 to 50 secs during each hour of the 24 hour day was evaluated at 0.1 to 2 Balls. On the basis of the obtained results the following conclusions are arrived at:

1) The short period fluctuation spectrum in the range between
Card 2/4

82706

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E073/E535

Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (in accordance with observations carried out during the I.G.Y.)

- 1) 10 and 90 secs is a discrete one, the probability of appearance of fluctuations differs for differing periods.
 - 2) According to the daily characteristic of the number of cases of occurrence of short period fluctuations of various periods, the spectrum can be divided into groups of 20 to 30 and 60 to 90 secs monitored ("controlled") according to local time and a 40 secs group monitored ("controlled") by world time. ✓
 - 3) The daily characteristic of the average maximum amplitude of the short period fluctuations of various periods obeys a general law and is monitored in accordance with local time.
 - 4) The group of fluctuations with periods between 60 and 90 secs observed at the station Borok obeys laws similar to those pertaining to the Pc type fluctuations.
 - 5) The degree of activity Pc evaluated according to 3-ball scale enables comparing the relations governing the behaviour of short period fluctuations of the Pc type with appreciably differing
- Card 3/4

82706

S/049/60/000/006/002/002
E073/E535

Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (in accordance with observations carried out during the I.G.Y.)

amplitudes at various stations. The degree of activity Pc has a clearly pronounced daily variation with a half-daily maximum. It proceeds in accordance with the local time, it has a seasonal character and indicates a tendency towards a latitude shift, i.e. the maximum degree of activity Pc will occur earlier at the stations in the higher latitudes.

6) Disturbances with periods below 50 secs should be subdivided into proper PcA disturbances and disturbances of the same period which occur in absence of stable fluctuations of the given period (the latter is particularly characteristic for polar stations).

Acknowledgments are expressed to G. N. Petrova who directed the work and to the following who jointly with the personnel of the geophysical stations participated in evaluating the obtained experimental material: G.M.Solodovnikov, K.Ya. Sergyeva, L.V. Kopeleva, L.V.Pestretsova, V.V.Sperantov, L.A.Nabatnikova

and R.S. Rybak. There are 12 figures and 2 tables.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences USSR, Institute of Physics of the Earth)

Card 4/4

SUBMITTED: August 6, 1959

ZYBIN, K. Yu., SHEPETNOV, R.V., ROKITYANSKAYA, D.A., TROITSKAYA, V.A.,
and ROKITYANSKY, I.I.,

"The Connection of Pc and Pt Pulsations with Magnetic Storms,"

report presented at the Intl. Conference on Cosmic Rays and
Earth Storms, Kyoto, Japan, 4-15 Sept 1961.

PHASE I BOOK EXPLOITATION

SOV/5215

Akademiya nauk SSSR. Mezhdovedomstvennyy komitet po provedeniyu
Mezhdunarodnogo geofizicheskogo goda. III razdel programmy MGG:
Zemnoy magnetizm i zemnyye toki.

Korotkoperiodicheskiye kolebaniya elektromagnitnogo polya zemli
(Short-Period Oscillations of the Earth's Electromagnetic
Field) Moscow, Izd-vo AN SSSR, 1961. 114 p. 1,800 copies
printed (Series: Its: Sbornik statey, No. 3)

Resp. Eds.: A. G. Kalashnikov, Doctor of Physics and Mathematics,
and V. A. Troitskaya, Candidate of Physics and Mathematics;
Ed.: Ye. P. Shchukina; Tech. Ed.: Ye. V. Makuni.

PURPOSE: This publication is intended for geophysicists.

COVERAGE: This collection of articles, published by the Inter-
departmental IGY Committee of the USSR Academy of Sciences,
treats problems of geomagnetism and telluric currents. In-
dividual articles deal with various (short-period, gigantic,

Card-1/5

Short-Period (Cont.)

SOV/5215

steady, etc.) oscillations of the terrestrial electromagnetic field, particularly in the arctic region. No personalities are mentioned. Brief English abstracts accompany each article. References follow individual articles.

TABLE OF CONTENTS:

Afnas'yeva, V. I. Short-Period Oscillations of the Earth's Magnetic Field	
Kebuladze, V. V. Some Regularities of the Disturbed Field of Earth Currents	11
Okhatsimskaya, M. V., Yu. B. Rastrusin, I. I. Rokityanskiy, and R. V. Shchepetnov. Regularities in the Excitation of Short-Period Oscillations in Middle Latitudes	17
Vinogradov, P. A. Short-Period Oscillations of the Electrotelluric Field (According to Observations in Irkutsk)	23
Card 2/5	

Short-Period (Cont.)

SOV/5215

Dubrovskiy, V. G. Rapid Geoelectric and Geomagnetic Variations and Their Regularities (According to Observations in Ashkhabad)	35
Troitskaya, V. A. Steady Oscillations and Chain Oscillations in the Arctic and Antartic	41
Zubareva, E. P. Preliminary Results of Earth Current Observations in Tiksi Bay	62
Nikitina, N. M. Preliminary Results of Earth Current Observations at the Barentsburg Station (Spitsbergen)	69
Zubareva, E. P., G. I. Korobkova, N. M. Nikitina, and V. A. Troitskaya. Gigantic Pulsations in the Soviet Arctic During the 1935-1956 Period	76
Barsukov, O. M., and K. Yu. Zybin. Nonperpendicularity of the Vectors of the E and H Variations of the Earth's Electromagnetic Field	83

Card 3/5

Short-Period (Cont.)

SOV/5215

Troitskaya, V. A. Beat-Type Oscillations (Pearls) in the Earth's Electromagnetic Field ($T \sim 1-4$ sec) 89

Troitskaya, V. A., and M. V. Mel'nikova. Characteristic Intervals of Oscillations, Decreasing Over a Period (10-1 sec), in the Earth's Electromagnetic Field, and Their Relationship With Phenomena in the Upper Atmosphere 100

Bol'shakova, O. V., K. Yu. Zybin, and N. F. Mal'tseva. Some Regularities in the Behavior of the Vertical Component of Short-Period Oscillations of the Geomagnetic Field in a Stable Regime (pc) 108

Kalashnikov, A. G., and K. Yu. Zybin. Some Results of the Observations of the Variations Vector of the Horizontal Component of the Earth's Magnetic Field 110

Kalashnikov, A. G., and Mokhova, Ye. N. Short-Period Variations of the Magnetic Field, Occurring Simultaneously Over a

Card 4/5

29886

S/169/61/000/009/047/058
D228/D304

3.9110 (1121, 1482)

AUTHORS: Barsukov, O. M., and Zybin, K. Yu.

TITLE: The non-perpendicularity of the variation vectors for E and H of the earth's geomagnetic field

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 26, abstract 9G210 (Korotkoperiod. kolebaniya elektromagnitn. polya Zemli, no. 3, M., AN SSSR, 1961, 83-88)

TEXT: It is shown theoretically that for an anisotropic medium the principle of the mutual perpendicularity of vectors of electric and magnetic alternating fields is violated in horizontal directions. Recordings of short-period variations at the Lovozero and Borok stations were processed for experimental verification. The principal directions of vectors E and H, and their diurnal variation were determined for Lovozero; the perpendicularity deviation is $\sim 9^\circ + 1^\circ$. Electromagnetic measurements of the impedance for different directions disclosed the anisotropy of the crust in the Lovozero area which, according to the calculations, should

Card 1/2

Amplitude spectrum of micropulsations in the frequency range
of 1 to 20 cps. Geomag. i aer. 5 no.6:1125-1126 N-D '65.
(MIRA 19:1)

1. Institut fiziki Zemli AN SSSR. Submitted March 26, 1965.

ACC NR 0700761

SOURCE CODE: UR/0293/66/004/006/0935/0936

AUTHOR: Zybin, K. Yu.

ORG: none

TITLE: Distribution of Alfvén velocity in the magnetosphere

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 6, 1966, 935-936

TOPIC TAGS: cold plasma, plasma density, magnetic field

SUB CODE: 20,22

ABSTRACT:

Alfvén velocity in the magnetosphere usually is computed using the formula $V_A = H/\sqrt{4\pi\rho}$, where H is magnetic field strength and ρ is the density of charged particles. The first computation of V_A was made by Dessler, assuming a monotonic decrease of plasma density with height and for the strength of a dipole field. However, Soviet space rockets revealed a sharp decrease of plasma density at geocentric distances $R = 4-5 R_E$. Much more data now is available on this plasma density jump ("knee") near which the density of cold plasma decreases by several tens of times. Such a sharp decrease naturally should lead to a considerable increase of Alfvén velocity. The graph shows a second V_A maximum at $R = 4-5 R_E$ and a region of relatively low values V_A bounded by two maxima. This has a number of corollaries important for an understanding of the nature of geomagnetic micropulsations. The region of decreased velocities can serve as an additional resonator for magnetoacoustic waves propagating isotropically in the exosphere. This resonator exists on

Card 1/2

UDC: 550.385.41

ACC NR: AP7007601

both the daytime and nighttime sides of the magnetosphere. This makes it possible to explain nighttime pulsations of the Pi2 type. There are three regions in the magnetosphere in which magnetoacoustic resonances are possible: a) a region bounded by the "knee" and the velocity jump at the boundary of the magnetosphere; b) a region between the "knee" and the maximum of the Alfvén velocity at $R \approx 1.5 R_E$; c) a region whose boundaries are the ionosphere and the velocity maximum at $R \approx 1.5 R_E$. These and other factors help in explaining a broad spectrum of simultaneously existing micropulsations with different periods.

JPRS: 39,718

Properties and nature of geomagnetic micropulsations with periods
from 10 seconds up to several minutes. Geomag. i aer. 5 no.3:494-
498 My-Je '65. (MIRA 18:5)

1. Institut fiziki Zemli AN SSSR.

AUTHOR: Zybin, K. Yu.; Kleymanova, N. G. 25 B

ORG: Institute of Physics of the Earth, AN SSSR (Institut fiziki Zemli AN SSSR)

TITLE: Amplitude spectrum of micropulsations in the 1-20 cps frequency range

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1125-1126

TOPIC TAGS: geomagnetic field, geophysics

ABSTRACT: The paper is a report on observations of micropulsations in telluric currents at Garm, Tadzhik SSR, in the summer of 1963. Oscillograms of the natural electromagnetic field in the 1-20-cps frequency range show a complex pattern of irregular oscillations which defies analysis. To isolate the characteristic frequencies, several of the most typical recordings of micropulsations, lasting about 30 seconds each were analyzed on an M-20 computer. The resultant data were analyzed and a curve of the E_x spectral component was plotted as a function of amplitude. This spectrum shows that the natural electromagnetic field observed in the 1-20 cps range is the result of at least two distinct

Card 1/2

UDC: 550.385.37 UDC: 550.385.17

L 12856 66

ACC NR 48002765

10

sources. The field energy diminishes smoothly and rather rapidly with increasing frequency in the first part of the spectrum, up to 5 cps. Above 5 cps, the field energy begins to oscillate with increasing frequency. The low-frequency part of the spectrum (up to 5 cps) corresponds to oscillations of the P_{cl} type, which have their origin in the exosphere. The maxima in the oscillations above 5 cps correspond to Schumann resonance frequencies of the earth-ionosphere cavity due to lightning flashes. Three clearly defined maxima are observed at 8.5, 14.5, and 21 cps. This spectrum is used to determine the Q of the earth-ionosphere resonance cavity, giving values of 3.4 for 8.5 cps and 3.2 for 14.5 cps, which agree satisfactorily with the data in the literature. Resonance oscillations in the middle latitudes are much stronger than in the polar regions, where fluctuations are weak and the amplitudes of the oscillations from 8 to 20 cps are nearly an order of magnitude lower than the amplitudes of geomagnetic micropulsations (1-3 cps). Orig. art. has: 1 figure. [14]

SUB CODE: 08,17/SUBM DATE: 26Mar65/ ORIG REF: 002/ OTH REF: 002
ATD PRESS: 4181

Card 2/2 HW

ZYBIN, Kh., inzhener.

Operation recorder of the "Neptun" radar station. Mor.flot 17
no.3:24 Mr '57. (MIRA 10:3)

1. Elektronavigatsionnaya kamera Rizhskogo porta.
(Riga--Radar in navigation)
(Recording instruments)

~~APPROVED FOR RELEASE: Thursday, September 26, 2002~~
~~APPROVED FOR RELEASE: Thursday, September 26, 2002~~

Conditions for convergence of a sequence of linear positive operators. Uch. zap. Kalin. gos. ped. inst. no. 5:53-56 '58.

(Operators (Mathematics))

(Convergence)

(MIRA 13:10)

Convergence of some sequences of linear operators to discontinuous
functions. Uch. zap. Kalin. gos. ped. inst. no.5:57-63 '58.

(Convergence) (Operators (Mathematics))
(Functions, Discontinuous)

(MIRA 13:10)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720017-1
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720017-1
Basic questions on the pathogenesis, clinical picture, and treatment
of brain insults. Voen.-med.shur. no.9:11-17 8 '59. (MIRA 13:1)
(CEREBRAL HEMORRHAGE)

APPROVED FOR RELEASE: Thursday, September 26, 2002
KABUL, N. B. Kandidat meditsinskikh nauk, polkovnik med. sluzhby

Basic principles of rehabilitative therapy following acute disorders
in brain circulation. Voen.-med. zhur. no.5:26-30 My '60.

(CEREBRAL HEMORRHAGE)

(MIRA 13:7)

26017-1
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11E

B complex avitaminosis. N. D. ZYIN. *Ann. N.Y. Acad. Sci.* 24, No. 12, 45-48 (1949).--During the war a no. of cases were observed in which disturbances of the circulatory system were combined with a more or less pronounced paresis of the extremities. It has been traced to B avitaminosis, particularly in respect to B₁. The most effective treatment was inst. of the organism with B₁ administered intravenously. Convalescence is very slow, 6 to 12 months.
G. M. Kozolapoff

GENERAL INDEX

GENERAL INDEX

ASB-SLA METALLOGICAL LITERATURE CLASSIFICATION

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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GONDETSKII, V.I., inzh.; ZYBIN, P.M., inzh.; ISAKOV, Yu.N., inzh.;
D'YACHENKO, N.Kh., doktor tekhn.nauk, prof.; LIVENTSEV, F.L.,
kand.tekhn.nauk, dotsent; MEL'NIKOV, G.V., kand.tekhn.nauk,
dotsent

A new gas pipe line compressor station with evaporation cooling of
the gas motor compressors. Energomashinostroenie 10 no.1:27-29
Ja '64. (MIRA 17:4)

BOBOREKO, E.A.; KALYUZHNIY, M.Ya.; CHAYKA, N.D.; ABRAMOVICH, M.M.; SHILOV, Yu.P.;
DRUZHININA, A.T.; ZYBIN, S.Ye. (deceased); BATIKOV, L.S.

Improving the process of yeast growing on wood hydrolyzates.
Gidroliz. i lesokhim.prom. 17 no.8:22-25 '64.

(MIRA 18:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti, Leningrad (for Boboreko,
Kalyuzniy, Chayka, Abramovich). 2. Ivdel'skiy gidroliznyy zavod
(for Shilov, Druzhinina, Zybin, Batikov).

FISHER, F.N.; KEYL, I.A.; VOROB'YEVA, G.I.; SHVARSKOYN, B.M.; ALYAMOVSKAYA,
T.S.; ZYBIN, S.Ye.; DRUZHININA, A.T.; SHILOV, Yu.P.

Growing yeast on hydrolysates from coniferous wood. *Gidroliz.*
i lesokhim. prom. 16 no.5:7-12 '63. (MIRA 17:2)

1. Moskovskoye otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo instituta gidroliznoy i sul'fitno-spirovoy promyshlennosti (for Fisher, Keyl', Vorob'yeva, Shvartskroyh, Alyamovskaya).
2. Ivdel'skiy gidroliznyy zavod (for Zybin, Druzhinina, Shilov).

KOROL'KOV, P.F.; STRIZHEVSKAYA, I.S.; LIKHOVID, R.D.; PARAMONOVA, G.D.;
ZYBIN, S.Ye.; BATIKOV, L.S.; DOLGOKHVESTOV, I.A.

Experiments in the production of hydrolysates for growing yeast
at the Ivdel' Hydrolysis Plant. Gidroliz. i lesokhim. prom.
16 no.5:3-7 '63. (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidrolianoy
i sul'fitno-spirovoy promyshlennosti (for Korol'kov,
Strizhevskaya, Likhovid, Paramonova). 2. Ivdel'skiy gidroliznyy
zavod (for Zybin, Batikov, Dolgokhvostov).

~~ZYBIN S.Ye.~~

Horinzontal percolation in the extraction-battery hydralysis of
wood. Gidroliz. i lesokhim. prom. 8 no.5:16-17 '55. (MLRA 9:1)

1. Director Khorskogo gidroliznogo zavoda.
(Wood-Chemistry) (Hydrolysis)

Zybin, V. - "The fantastic and the Actual," (Concerning the speed-
demon lathe-hand G. Borthevich. Sketch), Smena, 1949,
No. 4, p. 4, with portrait.

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; SAMORODOV, L.M.; VORONTSOV, I.V.;
PATRIKEYEV, G.T.; MAKARENKO, M.M.; ~~Prinimali~~ uchastiye:
ANDROSHCHUK, S.M.; ZYBIN, V.D.; KORNEV, I.S.; NIKOLAYENKO,
Yu.P.; CHERNOVA, V.A.; Igonina, Yu.A.; MORDUYEVA, A.A.

Study of botulin anatoxins. Report No.4: Botulin anatoxin type
E. Zhur. mikrobiol., epid. i immun. 33 no.1:72-79 Ja '62.
(MIRA 15:3)

(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

L 42067-65 ENT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: APS010902

4
UA/0254/55/001/007/0092/0093

AUTHORS: Markovich, A. V.; Varob'yev, A. A.; Vasil'yev, N. N.; Patrikayev, G. T.; Yenichev, V. H.; Zybin, V. D.; Kornov, I. S.; Shevelov, V. K.; Aman'yeva, Ye. P.

TITLE: Botulitic anatoxins of types A and B. Class 30, No. 169751

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 92-93

TOPIC TAGS: anatoxin, toxic substance, ⁶botulism, inoculation

ABSTRACT: This Author Certificate presents botulitic anatoxins, purified, concentrated, and sorbed with aluminum hydroxide. To produce in the blood of the inoculated people the antitoxic titers of types A and B and of the order 1-3 AE/ml, one ml of each preparation is made to contain 1000 antigenic units (EU per one AE) of the corresponding anatoxins with specific activity of no less than 3000 EU/1 mg of total nitrogen and not over 3.5 mg of aluminum hydroxide.

ASSOCIATION: none

SUBMITTED: 18May60
NO REF SOV: 000
Card 1/1 *AM*

ENCL: 00
OTHER: 000

SUB CODE: LS

23
B

ANAN'YEVA, A.A.; VASIL'YEV, N.N.; PATRIKEYEV, G.T.; ZYBIN, V.D.; KOREEV, I.S.;
ANAN'YEVA, Ye.P.; Primalni uchastiye: ANDROUCHUK, S.M.; IGONINA, Yu.S.;
SRMELEV, V.M.; MORDUYEVA, A.A.; NIKOLAYENKO, Yu.P.; MAKAROVA, V.A.;
CHERNOVA, Yu.S.; POYARKOVA, M.A.

Study of botulin anatoxins. Report No.1: Botulin anatoxin type A.
Zhur. mikrobiol., epid. i immun. 32 no.9:31-36 S '61. (MIRA 15'2)
(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

SHEVELEV, V.M.; ZYBIN, V.D.; KORNEV, I.S.; ANAN'YEVA, Ye.P.
Prinimali uchastiy: ANDROSHCHUK, S.M.; NIKOLAYENKO, Yu.P.;
MAKAROVA, V.A.; CHERNOVA, Yu.S.; POYARKOVA, M.A.; IGONINA, Yu.A.;
MORDUYEVA, A.A.

Study of botulin anatoxins. Report No.2: Botulin anatoxin type B.
Zhur.mikrobiol., epid. i imun. 32 no.10:68-72 O 61. (MIRA 14:10)
(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

VLASOV, Naum Il'ich; SAUTIN, Ivan Alekseyevich; ZYBIN, V.G., inzh.,
retsenzent; RUBANONIK, Ya.A., ekonomist, red.; TKACHUN, A.I.,
red.ind-va; UVAROVA, A.F., tekhn.red.; MODEL', B.I., tekhn.red.

[Organization and planning of material and technical supply
and marketing of machinery plants] Organizatsia i planirova-
nie material'no-tekhnicheskogo snabzhenia i sbyta mashino-
stroitel'nykh predpriatii. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1959. 310 p. (MIRA 13:2)
(Machinery industry) (Industrial management)

7646. ZYBIN, V. G. -- Kholodnaya shtampovka v mashinostroyenii. pod red. V. D. Golovleva. M., mashgiz, 1954. 280 s. s ill. 27 sm. 8.000 ekz. 13R. 50K. v per. -- pered zagl. nvt: G. N. Rovinskiy, S. V. Alabin, V. V. Fillippov, K. A. Kalachev i V. G. Zybin. -- Bibliogr: s. 278(30 nazv.) --(55-3908)P 621.96 & (016.3)

SO: Knizhnaya Letopsis', Vol. 7, 1955

ZYBIN, Vladimir L'vovich; DAVITASHVILI, Mikhail Danilovich; SAVZDARG,
V.E., red.; DEYEVA, V.M., tekhn.red.

[Tat'iana Chkhaidze, prominent tea grower] Znatnyi chaevod
Tat'iana Chkhaidze. Moskva, Gos.isd-vo sel'khoz.lit-ry, 1960.
70 p. (MIRA 14:1)

(Georgia--Tea)

FADEYEV, Sergey Pavlovich [deceased]; ZYBIN, V.P., doktor tekhn.
nauk, retsenzent; POKROVSKIY, A.M., kand. tekhn. nauk,
dots., nauchn. red.; FUFAYEVA, G.I., red.

[Preparation of a course project on machine parts] Kurso-
voe proektirovanie detalei mashin. Moskva, Vysshaia shkola
1964. 302 p. (MIRA 18:2)

1. Zaveduyushchiy kafedroy "Detali mashin" Vsesoyuznogo
zaochnogo mashinostroitel'nogo instituta (for Zybin).

ZYBIN, Yu., inzh.

Assembly of a gasholder with a capacity of 20,000 m³ made of rolled stock.
Prom. stroi. i inzh. soor. 4 no.1:40-43 Ja-F '63. (MIRA 16:3)
(Gasholders)

SOLOV'YEV, F.A., inzh.; ZYBIN, Yu.I., inzh.

Erection of poles of electric transmission lines using an auxiliary tower. Mont. i spets. rab. v stroi. 25 no.5:19-21 My '63.
(MIRA 16:7)

1. Gosudarstvennyy proyektnyy institut Ukrproyektal'konstruktsiya i trest Krovorozhstal'konstruktsiya.
(Electric lines--Poles and towers)

ZYBIN, Yu.I.; SOLOV'YEV, F.A., inzh.

New method of erecting the supports for electric power transmission lines and installations of the tower type. Prom. stroi. 41 no.11:32-35 N '63. (MIRA 17:2)

1. Trest Krivorozhstal'konstruktsiya (for Zybin). 2. Gosudarstvennyy proyektnyy institut Ukrglavstal'konstruktsiya (for Solov'yev).

ZYBIN, Yu.I., inzh.; SOLOV'YEV, F.A., inzh.

Ways to improve the design details and methods of assembling the
gas purification of a blast furnace. Prom. stroi. 40 [i.e. 41]
no.4:46-49 Ap '63. (MIRA 16:3)

1. Trest Krivorozhstal'konstruktsiya (for Zybin). 2. Gosudarstvennyy
proyektnyy institut po proyektirovaniyu, issledovaniyu i ispytaniyu
stal'nykh konstruktsiy i mostov.
(Blast furnaces--Equipment and supplies)
(Gases--Purification)

KOCHETKOVA, T.S., inzh.; ZYBIN, Yu.P., doktor tekhn.nauk, prof.

Effect of leather topography on the lowering of strength in stretching after a needle puncture. Izv. vys. ucheb. zav.; tekh. leg. prom. no.2:97-104 '60. (MIRA 13:11)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii obuvi. (Leather---Testing)

KOCHETKOVA, T.S., inzh.; PROKHOROVA, Z.V., inzh.; ZYBIN, Yu.P., doktor
tekh.nauk, prof.

Scientific method of designing the inside shape of footwear. Izv.
vys.ucheb.zav.; tekh.leg.prom. no.2:50-57 '61. (MIRA 14:5)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii obuvnogo proizvodstva.
(Shoe manufacture)

ANOKHIN, D.I., inzh.; ZYBIN, Yu.P., doktor tekhn.nauk, prof.

Studying the moldability properties of shoe upper blanks. Izv.vys.
ucheb.zav.; tekhn.prom. no.2:67-72 '61. (MIRA 14:5)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii obuvnogo proizvodstva.
(Shoe manufacture)

PEREL'NITER, V.I., inzh.; ZYBIN, Yu.P., doktor tekhn.nauk, prof.

Method for investigating the deformation of shoe uppers. Izv.vys.
ucheb.zav.; tekhn.prom. no,5:64-69 '60. (MIRA 13:11)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii izdeliy iz kozhi.
(Shoe manufacture) (Strength of materials)

ZIBLI, Yu.P., doktor tekhn.nauk, prof.

Early Russian footwear from the 12th to the 16th century. Report No.3:
Footwear found in Moscow excavations in 1953. Izv.vys.ucheb.zav.;
tekh.leg.prom. no.5:84-85 '60. (MIRA 13:11)
(Moscow Province--Antiquities) (Boots and shoes)

ZYBIN, Yu.P., doktor tekhnicheskikh nauk, professor; STESHIN, I.I., retsenzent;
VINOGRADOV, A.P., retsenzent.

[Technology of footwear] Tekhnologiya obuvi. Moskva, Gos. nauchno-tekhn.
izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR,
1953- (MLRA 7:6)
(Shoe industry)

ZYBIN, V.P., dots.; ROMANOV, M.Ya., inzh.

Investigating automatic drive switches in semiautomatic sewing machines of 18th, 25th, and 29th grades. Izv.vys.ucheb.zav.; tekhn.prom. no.5:119-129 '58. (MIRA 12:2)

1. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti.
(Sewing machines) (Automatic control)

DODONOV, B.P.; ZYBIN, V.P., prof., red.

[Hoisting and conveying devices; manual for students
specializing in mechanics and technology] Pod'emno-
transportnye ustroistva; uchebnoe posobie dlia mekha-
nicheskikh i tekhnologicheskikh spetsial'nostei. Moskva,
Vses. zaachnyi in-t tekstil'noi i legkoi promyshl., 1964.
159 p. (MIRA 18:5)

ARKHIPOV, Nikolay Nikolayevich; KARPACHEV, Pavel Spiridonovich;
MAYZEL', Maks Mikhaylovich, doktor tekhn. nauk, prof.;
PLEVAKO, Nikolay Alekseyevich; ZAYONCHKOVSKIY, A.D., doktor
tekhn. nauk, prof., retsenzent; ZOLOTOV, V.I., inzh., retsen-
zent; ZYBIN, V.P., doktor tekhn. nauk, retsenzent; KAPUSTIN,
I.I., doktor tekhn. nauk, prof., retsenzent; KOZLOV, B.A.,
inzh., retsenzent; POPOV, S.M., doktor tekhn. nauk, prof.,
retsenzent; EPPEL', S.S., kand. tekhn.nauk, dots., retsen-
zent; MINAYEVA, T.M., red.; SHVETSOV, S.V., tekhn. red.

[Basic processes, machinery, and apparatus of light industry]
Osnovnye protsessy, mashiny i aparaty legkoi promyshlennosti.
[By] N.N.Arkipov i dr. Moskva, Izd-vo nauchno-tekhn. lit-ry
RSFSR, 1961. 491 p. (MIRA 15:2)

(Industry)

ZYBIN, V.P.

[Shoe machinery and tools] Mekhanizmy i instrumenty obuvnykh mashin.
Moskva, Gos.izd-vo Ministerstva legkoi i pishchevoi promyshlennosti,
1953. 150 p.

(MIRA 7:2)
(Shoe machinery)

FADEYEV, Sergey Pavlovich [deceased]; ZYBIN, V.P., doktor tekhn.
nauk, retsenzent; POKROVSKIY, A.M., kand. tekhn. nauk,
dots., nauchn. red.; KOLODYAZHNAYA, Zh.A., red.

[Design of machine parts; collection of problems] Raschety
detalei mashin; sbornik zadach. Moskva, Vysshaya shkola,
1964. 180 p. (MIRA 18:3)

1. Zaveduyushchiy kafedroy "Detali mashin PTU" Vsesoyuznogo
zaochnogo instituta tekstil'noy i legkoy promyshlennosti
(for Zybin).

KORNEV, I.S.; YENICHEV, V.M.; MORDUYEVA, A.A.; IGONINA, Yu.A.; PATRIKEYEV, G.T.;
ANDROSHCHUK, S.M.; ZYBIN, V.D.; SHISHULINA, L.M.

Culture media other than meat extracts for the preparation of
A and B botulin anatoxins. Vak. i zhyv. no. 1:3-11. '53.

(MIRA 18:8)

Booklet *Radioaktivnost i detektorstvo* (Collection of Radio-chemical and Physico-chemical Methods) Moscow, Medits, 1979. 499 p. Russian also translated. 9,000 copies printed.

See (Title page): S. D. Cherny, G. Ya. Margolis, A. G. Kuryev, E. Ya. Tsvetkov, M. Ya. Shubnikov; Ed. (Lead Book): V. L. Labunov; Tech. Ed.: A. I. Kabanov.

NOTE: This collection of volumes is intended for physicists, radiation and public health doctors, chemists and other specialists working in radioactive industry.

CONTENTS: This work discusses the following subjects: (1) principles of computing radiation and dosimetry measurements; (2) principles of methods carried on with radioactive substances; (3) methods of analysis of air, water, soil and foodstuffs; (4) principles and methods of measuring contamination of the air by radioactive substances and aerosols, and methods for determining the level of radioactivity of working surfaces, clothes and sectors containing (1) methods of measuring external status of X and gamma radiation; and methods of measuring internal status; (5) methods and relative methods of measuring the activity of solid and liquid radioactive sources. There are four chapters dealing with methods of calculating the total dosage from sources of emitting radiation, units of activity, and dosage from internal (through breathing, transportation, in the solution of radioactivity, activity receptors are discussed, as well as the storage and handling of radioactive substances. Two volumes about the X-ray activity and principles of measuring activity are given at the end of each chapter.

Ch. V. Physical Methods of Determining Contamination of the Ambient Atmosphere Due to Radioactive Aerosols and Gases

Introduction (V. M. Shubnikov) 194

1. Determination of the active concentration of naturally active aerosols (V. V. Gorbunov, V. V. Zolotarev, V. I. Kostikov and V. M. Zolotarev) 194
2. Determination of the radioactive dust content of air with the aid of wetness filters (V. V. Gorbunov, V. V. Zolotarev and V. I. Kostikov) 199
3. Determination of the amount of radioactive aerosols with the aid of the alcohol precipitation type MP-2 (V. M. Shubnikov and E. A. Falynin) 195
4. Measurement of active aerosols with the aid of liquid filters (B. M. Smey and E. A. Falynin) 197
5. Radiation metering of radioactive gases by means of an end-window counter (E. K. Melnikov and A. D. Pridin) 196
6. Determination of effluent air contamination due to radioactive gases and aerosols (S. P. Kovalev, B. M. Smey and Ya. Shubnikov) 202
7. Measurement of the concentration of radon in the air (V. I. Kostikov and V. M. Zolotarev) 211
8. Automatic control of the concentration of active gases in the air by means of an air wall counter (E. K. Melnikov, E. A. Falynin and E. A. Falynin) 215
9. Measurement of the concentration of active gases in the air by means of an air wall counter (E. K. Melnikov, E. A. Falynin and E. A. Falynin) 215
10. The method of concentration of radioactive gases in a chamber of fixed volume (V. V. Gorbunov) 221

Recommended literature

Ch. VI. Methods of Measuring the Level of Contamination of Surfaces

Introduction (V. M. Shubnikov) 229

1. Instruments for measuring the medium permeable level of contamination of surfaces by active substances (V. M. Shubnikov) 245
2. Calibration of instruments for measuring the contamination of surfaces by active substances (V. M. Shubnikov) 252
3. Methods of measuring the contamination of surfaces by active substances and installation (V. M. Shubnikov) 256
4. Checking special clothing for radioactive contamination (B. M. Smey and K. Shadrach) 266
5. Determining the radioactive contamination of the hands and body (V. M. Shubnikov) 271
6. Determining the radioactive contamination of surfaces by the smear method (B. M. Smey, Ya. Shubnikov and K. Orlina) 275

Ch. VII. Methods of Measuring External Streams of X and Gamma Radiation (V. Ya. Margolis and B. M. Smey) 279

Introduction 279

1. Organization of dosimeters 280
2. Calibration of dosimeters 291

34

ZYBIN, Yuriy Antonovich, inzh.; SAMOSATSKIY, Nikolay
Nikolayevich, inzh.

[Filled fluoroplasts] Napolnennye ftoroplasty. Kiev,
Tekhnika, 1965. 73 p. (MIRA 18:10)

ZYBIN, Yu.I., inzh.; GUT, A.M., inzh.; SOLOV'YEV, F.A., inzh.

Rapid erection of a head frame during the reconstruction of a mine.
Shakh'.stroi. 8 no.1:21-23 Ja '64. (MIRA 17:4)

1. Trest Krivorozhstal'konstruktsiya (for Gut). 2. Gosudarstvennyy
proyektnyy institut Ukrproyektstal'konstruktsiya (for Solov'yev).

ZYBIN, Yu. I., inzh.; SOLOV'YEV, F. A.

Assembly of cylindrical wells made of precast reinforced concrete. Prom stroi 41 no. 12:32-33 D '63. (MIRA 17;5)

1. Trest Krivorozhstal'konstruktsiya (for Zybin). 2. Gosudarstvennyy proyektnyy institut Ukrproyektstal'konstruktsiya (for Solov'yev).

ZYBIN, Yu.I., inzh.

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no.9:8-10 S '63. (MIRA 16:11)

1. Trest Krivorozhstal'konstruktsiya.

ZYBIN, Yu.I., inzh.

Use of an ejector in testing welded seams. Mont. 1 spets. rab.
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1. Trast Krivorozhstal'konstruktsiya.
(Air ejectors)

ZYBIN, Yu.P., professor; AINATUK D.A., kandidat tekhnicheskikh nauk;
GRUVER, M.G.

Lengthening the wear of shoes by a new last design. Leg.prom.14 no.5:
18-19 My '54. (MIRA 7:6)
(Boots and shoes)

ZYBIN

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IVANOV, B., inzhener.

"Technology of shoemaking." IU.P.Zybin. Reviewed by B.Ivanov.
Leg.prom. 14 no.8:52-54 Ag '54. (MIRA 7:8)
(Shoe industry) (Zybin, IU.P.)

ZYBIN, Yuriy Petrovich, doktor tekhnicheskikh nauk, professor; STESHOV, I.I., retsenzent; VINOGRADOV, A.P., retsenzent; MINAYEVA, T.M. redaktor; MEDVEDEV, L.Ya., tekhnicheskiiy redaktor.

[Technology of footwear] Tekhnologiya obuvi. Moskva, Gos.nauchno-tekhn.izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, Pt. 2, 1955. 446 p. (MLRA 8:10)
(Shoe industry)

ZYBIN, Yu.P., prof.

Designing a series of lasts and footwear based on the "geometrical"
rule. Leg. prom. 16 no.8:38-42 Ag '56. (MIRA 10:12)
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KOZLOVA, T.V.; ZYBIN, Yu.P.

Design of shaped upper parts. Leg.prom.[16] no.11:25-27 E '56.
(Shoe industry) (MLRA 10:1)

KOTEL'NIKOV, V.M., kand.tekhn.nauk; CHENTSOVA, K.I., kand.tekhn.nauk;
ZYBIN, Yu.P., doktor tekhn.nauk; KOCHETKOVA, T.S.; ZAKATOVA, N.D.,
kand.tekhn.nauk; GUBAREV, A.S., kand.tekhn.nauk; SHVETSOVA, T.P.,
inzh.; VOROB'YEVA, A.A., kand.tekhn.nauk; MIRSKIY, V.I., inzh.;
NISNEVICH, Ye.A., kand.tekhn.nauk; GOL'DSHEYN, A.V., inzh.;
KALASHNIKOVA, T.A., inzh.; SHUSTOROVICH, M.I., kand.tekhn.nauk;
MOREKHODOV, G.A., inzh.; ZAKHAROV, S.R., retsenzent; BLAGOVESHTOV,
B.K., retsenzent; STRONGINA, O.P., retsenzent; SHMIDT, M.I., ret-
tsenzent; ZUYEV, V.T., retsenzent; KOSAREV, M.I., retsenzent;
STEPANOV, I.S., retsenzent; RAMM, S.N., retsenzent; PEVZNER, B.M.,
retsenzent; VEYNBERG, I.A., retsenzent; TURBIN, A.S., retsenzent,
SMIRNOVA, Ye.V., retsenzent; BUGOSLAVSKAYA, L.A., retsenzent;
GAMOVA, A.S., retsenzent; KHANIN, N.M., retsenzent; MURVAIDZE,
D.S., red.; PLEMYANNIKOV, M.N., red.; GRACHOVA, A.V., red.; MEDVEDEV,
L.Ya., tekhn.red.

[Shoemaker's handbook] Spravochnik obuvshchika. Vol.1. Moskva,
Gos.nauchno-tekhn.isd-vo lit-ry po legkoi promyshl. 1958. 540 p.
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1.Gosudarstvennaya Ordena Lenina i Ordena Trudovogo Krasnogo Znani
obuvnaya fabrika "Skorokhod" imeni Ya.Kalinina (for Zakharov, Blago-
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Veynberg, Turbin, Smirnova, Bugoslavskaya, Gamova, Khanin).
(Shoe manufacture)

FRIBORA, L.I., IZKH.; ZYBIN, Yu.P., prof.

Factors affecting the finish quality of leather sole butts.
Izv. vys.ucheb.zav.; tekhnolog. prom. no.1:67-73 '58. (MIRA 11:6)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
(Shoe manufacture)

BARYKIN, A.M., kand.tekhn.nauk; ZYBIN, Yu.P., doktor tekhn.nauk

Regularity in the distribution of usable parts of suslik skins.
Izv. vys. ucheb. zav.; tekhn. leg. prom. no.3:14-24 '58.

(MIRA 11:10)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
(Fur)

ZIBIN, Yu.P., prof., doktor tekhn. nauk.

Ancient Russian footwear from the 12th to the 14th centuries.
Izv.vys.ucheb.sav.; tekhn.prom. no.4:36-44 '58. (MIRA 11:12)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
(Boots and shoes)

ZIBIN, Iu.P., doktor tekhn.nauk, prof.

Ancient Russian footwear from the 12th to 16th century. Izv.vys.
ucheb.zav.; tekhn.prom. no.6:33-40 '58. (MIRA 12:4)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
(Shoe industry)

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ZYBIN, Yu.P., doktor tekhn.nauk, prof.; SANTALOVA, Z.V., kand. tekhn.nauk

Forming conditions of chrome-tanned leather surfaces. Leg.prom.
18 no.4:24-27 Ap '58. (MIRA 11:4)
(Leather work)

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AKULOVA, T.Ye.; UL'YANITSKIY, V.A.; ZYBIN, Yu.P.

Measuring deformations with a mercury strain gage. Leg.prom.
18 no.6:23-26 Je '58. (MIRA 12:10)
(Strain gages) (Shoe industry)

PRIBORA, L.I.

Polishing the bottom side of leather sole. Lag.prom. 18 no.12:
15-17 D '58. (MIRA 11:12)

(Shoe manufacture)

ZYBALOVA, G.P.

Changes in the permeability of Angren coal during the process of its
drying and heat treatment. Podzem.gaz.ugl. no.1:28-31 '58.
(MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut podzemnoy
gazifikatsii ugley.

(Coal--Permeability)

GOLUBEV, Yu.B.; ZYBALOVA, G.P., kand.tekhn.nauk; PETUKHOVA, N.N.; SHCHAD'KO, A.M.

Gas formation dynamics in the gasification of a lignite seam
at the experimental "Podzemgaz" gas generator station in the
Angren Basin. Trudy VNIIPodzemgaza no.13:11-17 '65.

(MIRA 18:8)

1. Laboratoriya tekhnologii podzemnoy gazifikatsii uglya Vsesoyuznogo
nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii ugley.

BOITANOVA, Z.M.; ZYBALOVA, R.F.

Detection of bacterial pollution of preserved blood and its components.
Gemat. i perel. krovi 1:125-128 '65.

(MIRA 18:10)

1. Kiyevskiy institut perelivaniya krovi i Kiyevskaya gorodskaya
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ZYBAREV, A.; PAKHOLKOV, D.

New heating system for the ZIL-158 motorbuses. Avt.transp.
38 no.1:40-41 Ja '60. (MIRA 13:5)
(Motorbuses)

Technology

Preparation of production at an automobile plant, Moskva, Mashgiz, 1950

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

Simplifying the handling and form of technical records. Avt.trakt.prom.
no.11:4-6 N '54. (MIRA 8:1)

1. Moskovskiy avtozavod im. Stalina.
(Automobile engineering) (Factory management)

ZYBAYLO, Aleksey Vasil'yevich; SHEVELEV, A.G., inzh., retsenzent; LEVIN-
SON, I.S.N., inzh., red.; RADAYEVA, Z.A., red. izd-va; EL'KIND, V.D.,
tekh. red.

[Organizing preliminary activities in the mass manufacture of machinery]
Organizatsiia podgotovki proizvodstva v massovom mashinostroenii. Mo-
skva, Gos. nauchno-tekh. izd-vo mashinostroit. lit-ry, 1961. 234 p.
(MIRA 14:9)

(Factory management)

ZYBAYLO, I. J.

Ways of lowering the production costs in chemical working circles.
Gidroliz. i lesokhim.prom. 10 no.5:23-24 '57. (MLRA 10:8)

1.Ivatsevichskiy khimleskhoz.
(White Russia--Forest products--Costs)

UVAROVA, Z.A.; KOROL', G.S.; ZYBENKO, L.D.; GERASIMENKO, G.

Effect of ammonium carbonate on certain physiological features in
corn. Izv. AN Kazakh. SSR. Ser. bot. i pochv. no.1:52-56 '61.
(MIRA 14:4)

(Ammonium carbonate—Physiological effect)
(Corn (Maize))

ZYBIN, A.

More production with less spending. MTO no.11:17-18 N '59.
(MIRA 13:4)

1. Predsedatel' soveta pervichnoy organizatsii Nauchno-
tekhnicheskogo obshchestva sel'skogo i lesnogo khozyaystva
zernosovkhoza "Grachevskiy," Stavropol'skiy kray.
(Stavropol Territory--Agricultural research)

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26248

Author : ~~Zybin A.~~
Inst : Not Given
Title : A Valuable Animal Feed for Fowls (Tsennyy zhiivotnyy korn dlya ptitsy)

Orig Pub : S. kh. Sibiri, 1957, No 5, 61-65

Abstract : An experiment was carried out in the raising of chicks by supplementing feed rations with fresh-water shrimp (Gammarus). Feeding fresh shrimps to the chicks started from 2-3 days of age. Daily average per head was: during the first ten days 2-4 g., during the next ten days 4-8 g., subsequent ten days 8-12 g., at 2 months of age 20 g., at 3 months 30 g., and grown-up chicken 60-70 g. of fresh, or 15-18 g. of dried shrimps. The feeds had a positive influence on the growth, development, and survival of the young chickens. There was no chicken lost in the experimental group of 840 heads. The average chickens' weight at 2 months of age was 693 g. as

Card : 1/2

USSR/Farm Animals -- Domestic Fowls

Q-6

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26248

against 651 g. in the control group; young hens started laying eggs at 5 months of age - earlier than in the control group. The article gives available published data regarding the effectiveness of the use of Gammarus as a food for chickens. The way of catching and drying Gammarus in the summer and winter, as well as the economical profitability of its utilization, are indicated.

Card : 2/2

KOMAROV, V.S., inzh.; ZYBIN, A.G., inzh.

Control and protection of double fans in local ventilation.
Izv. vys. ucheb. zav.; gor. zhur. no.8:162-167 '61. (MIRA 15:5)

1. Vostochnyy nauchno-issledovatel'skiy institut po
bezopasnosti rabot v gornoy promyshlennosti. Rekomendovana
Vostochnym nauchno-issledovatel'skim institutom po bezopasnosti
rabot v gornoy promyshlennosti.

(Fans, Electric)

ZYBIN, A. S.: Master Biol Sci (diss) -- "The lake crayfish (*Gammarus Rivulogammarus lacustris* G. O. Sars) and the outlook for its economic exploitation on the basis of experimental data". Omsk, 1958. 25 pp (Tomsk State U im V. V. Kuybyshev), 200 copies (KL, No 6, 1959, 129)

ZYBIN, A.S.

The pike perch in the Irtysh. Izv. Omsk. otd. Geog. ob-va no. 6:
119-120 '64. (MIRA 18:9)

YASENEVA, R.V.; ZYBIN, A.Yu.

Method for determining velocity of the lower clamps of the RT-250
tearing machine used in testing fabrics. Konh.-obuv.prom. no.4:
17-19 Ap '59. (MIRA 12:7)
(Testing machines) (Textile fabrics--Testing)

ZYBIN
ca

16

Use of Kutter drums for drying grain and malt. D. Yuditskii, E. Zybin and T. Shumskaya. *Soviet-Vostochnaya Prom.* 10, No. 6, 36-7 (1939).—The drums of Biltner malt grain driers can be used successfully for drying wet grain or malt down to 11-12% moisture in about 8 hrs. under mild conditions, with gas entering the drum at about 60 and leaving at about 50°. Julian F. Smith

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

13000 131000 132000 133000 134000 135000 136000 137000 138000 139000 140000 141000 142000 143000 144000 145000 146000 147000 148000 149000 150000 151000 152000 153000 154000 155000 156000 157000 158000 159000 160000 161000 162000 163000 164000 165000 166000 167000 168000 169000 170000 171000 172000 173000 174000 175000 176000 177000 178000 179000 180000 181000 182000 183000 184000 185000 186000 187000 188000 189000 190000 191000 192000 193000 194000 195000 196000 197000 198000 199000 200000 201000 202000 203000 204000 205000 206000 207000 208000 209000 210000 211000 212000 213000 214000 215000 216000 217000 218000 219000 220000 221000 222000 223000 224000 225000 226000 227000 228000 229000 230000 231000 232000 233000 234000 235000 236000 237000 238000 239000 240000 241000 242000 243000 244000 245000 246000 247000 248000 249000 250000 251000 252000 253000 254000 255000 256000 257000 258000 259000 260000 261000 262000 263000 264000 265000 266000 267000 268000 269000 270000 271000 272000 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988000 989000 990000 991000 992000 993000 994000 995000 996000 997000 998000 999000 1000000

BYBOM, I. (Ruskva)

Let's remunerate locomotive brigades per each kilometer-ton.
Sots.trud. no.4:136-137 Ap '58.
(Railroads--Salaries,pensions,etc.)

(MIRA 11:4)

ZYBIN, I.

The wage schedule for locomotive brigades requires revision. Sots.trud.no.3:
112-115 Mr '56. (MIRA 9:7)
(Railroads--Salaries, pensions, etc.)

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ZYBOV, A.M., polkovnik meditsinskoy sluzhby YERIN, S.V., polkovnik meditsinskoy
sluzhby

Diagnosis and expertise of patients with acute gastritis and duodenal diseases.
Voen.-med.zhurn. no.9:27-42 '64. (MIRA 18:5)

ZYEIN, Yu.A.; SAMSONOV, V.G.; KHARAKHASH, V.G.; DORFMAN, E.M.

Lined plastics and their testing. Plast. massy no.7:64 '65. (MIRA 18:7)

PHASE I BOOK EXPLOITATION 149

Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii

Pribory i stendy. Tema 5, No. P-56-475 (Instruments and Instrument Stands.
Topic 5, No. P-56-475) Moscow, 1956, 10 p. 1,620 copies printed.

Additional Sponsoring Agency: Gosudarstvennyy komitet Soveta Ministrov SSSR
po novoy tekhniki.

Chief Ed.: Udal'tsov, A. N.; Ed.: Yakovlev, D.A., Engineer.

PURPOSE: This booklet is addressed to those interested in the technique and
metering instruments used in the measurement of very low resistances and to
earth physicists interested in metering technique in measuring the suscep-
tibility of rock samples.

COVERAGE: The booklet contains two articles, one describing a pulse microhmmeter,
the other an absolute permeability meter.

Card 1/3

Instruments and Instrument Stands (Cont.) 149

TABLE OF CONTENTS:

Iraniy, P. B., Engineer. A Pulse Microhmmeter 3

The article describes an instrument for measuring very low contact resistances (on the order of 1 microhm). Such meters are used, for example, in measuring bus connection resistances on the order of 0.1 to 5 microhms. The ammeter-voltmeter method for obtaining a visible deflection of the needle on a 10 mv scale is described. The method requires very high testing currents, on the order of 100 amperes when measuring 1 microhm. The author describes the microhmmeter developed by him at the "Uralelektroapparat" factory (author's certificate No. 94385). The operating principle of the instrument is based on the generation of high current (200 to 300 amperes) pulses. Fig. 1 is a circuit diagram of a microhmmeter for measuring low resistances (from 2 to 5,000 microhms) under shop conditions. Fig. 2 is a circuit diagram of a microhmmeter for measuring low resistances (in the $0.1 \cdot 10^{-6}$ to 10 ohm range) in a closed circuit through the secondary coil of a stepdown transformer. Fig. 3 is a photograph of the apparatus used for checking the contact system of the MKP-110 oil circuit breaker. Fig. 4 is a structural and connection diagram of the instrument used to check the contact system of the VMG-133/111 oil circuit breaker. A table of pulse transformer coil winding data is given.

Card 2/3

Instruments and Instrument Stands (Cont.) 149

There is one Soviet reference.

Zybin, K. Yu. An Absolute Permeability Meter

9

This instrument was developed by A.G. Kalashnikov at the Institute of Earth Physics, AN SSSR. The report is accompanied by a schematic diagram of the fluxmeter in circuit. Formulas are given for calculating susceptibility, flux, etc. The design and principle of operation of the instrument are described. The instrument is used in measuring the susceptibility of rock samples. There are no references.

AVAILABLE: Library of Congress

Card 3/3

JP/mas
11-5-58

"Some results of observing the variation vector of the horizontal component of the geomagnetic field."

report presented at the Intl. Association of Geomagnetism and Aeronomy, Symposium on Rapid Geomagnetic Variations, Utrecht, Netherlands, 1-4 Sep 59.

"Some laws in the behaviour of the vertical component of short-period oscillations of the geomagnetic field of stable regime (Pc)."

report presented at the Intl. Association of Geomagnetism and Aeronomy, Symposium on Rapid Geomagnetic Variations, Utrecht, Netherlands, 1-4 Sep 59.

S/049/60/000/02/006/022
E131/E459

1100
AUTHOR:
TITLE:

Kalashnikov, A.V. and Zybin, K.Yu.
Some Results of Investigating the Variations of the
Horizontal Component of the Geomagnetic Field (From
Observations During the I.G.Y.)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,
1960, Nr 2, pp 236-242 (USSR)

ABSTRACT: The investigations were carried out by the Station "Borok"
of the Institute of Physics of the Earth, Academy of
Sciences USSR (58°02 N and 38°58 E). A three-component
assembly was employed giving the variations of H_x , H_y
and Z of the geomagnetic field. The vertical component
was recorded by means of a mesh placed horizontally in
the earth, the total surface of which was 15700 m².
The sensitivity of the Z-channel was 1.4×10^{-2} γ /mm.
Examples of recordings of the variations of all three
components are illustrated in Fig 2. Vector diagrams of
the variations of the horizontal components were plotted
showing the amplitudes of the components H_x and H_y
for a given instant (Fig 3). The curves thus obtained
enclose an elongated area, the azimuth of the longer

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E131/E459

Some Results of Investigating the Variations of the Horizontal Component of the Geomagnetic Field (From Observations During the I.G.Y.)

axis having predominantly a direction NW to SE, ie the mean azimuth was found to be 38° (Fig 4). It was found that the diurnal rotation of the vector was predominantly anti-clockwise. Out of 456 cases, 258 rotations were anti-clockwise, 146 clockwise and 52 were variable (Fig 5, 6 and 7). The diagram of the relationships

$$E_x/H_y, E_y/H_x \text{ and } E/H = \frac{\sqrt{E_x^2 + E_y^2}}{\sqrt{H_x^2 + H_y^2}}$$

was also produced (Fig 8) in order to illustrate the relationship between the amplitude of the variations of the electric field and those of the magnetic field. The cause of these variations could be the effect of electric eddies in the ionosphere at the heights of 100 km and

X

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E131/E459

Some Results of Investigating the Variations of the Horizontal
Component of the Geomagnetic Field (From Observations During the I.G.Y.)
above. There are 8 figures and 1 Soviet reference.

ASSOCIATION: Akademiya nauk SSSR Institut fiziki Zemli
(Academy of Sciences, Institute of Physics of the Earth)

SUBMITTED: August 6, 1959

Card 3/3

X

82706

S/049/60/000/006/002/002
E073/E535

3.9000

AUTHORS: Bol'shakova, O.V., Zybin, K. Yu. and Mal'tseva, N.F.

TITLE: Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (in accordance with observations carried out during the I.G.Y.)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, No.6, pp.818-827 + 1 plate

TEXT: The authors evaluate the results of observations carried out in the following three geophysical stations of the Institute of Physics of the Earth, AS, USSR during the first six months (August, 1957 to January, 1958) of the I.G.Y.: Lovozero (Murmansk region) - 67° 58' northern latitude, 35° 05' eastern longitude; Borok (Yaroslavl region) - 58° 02' northern latitude, 38° 58' eastern longitude; Petropavlovsk-Kamchatskiy - 53° 06' northern latitude, 158° 38' eastern longitude.

The primary evaluated data are the 24 hour photographic recordings of fluxmeter induction apparatus with a 90 mm/hr scanning speed.
Card 1/4

82706

S/049/60/000/006/002/002
E073/E535

Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (In accordance with observations carried out during the I.G.Y.)

The authors investigated the frequency spectrum of the field of the short period fluctuations, the daily characteristic of the times of occurrence of short period fluctuations, the daily characteristic of the average maximum amplitude of the short period fluctuations and their behaviour as a function of the geographic distribution of the observation points. The data are described in considerable detail. For the purpose of elucidating generally valid amplitude relations, the authors introduce the term "degree of Pc activity" and investigate its behaviour. The degree of Pc activity was selected in the same way as the international geomagnetic activity characteristics. However, in the given case the amplitude of fluctuations with periods of 10 to 50 secs during each hour of the 24 hour day was evaluated at 0.1 to 2 Balls. On the basis of the obtained results the following conclusions are arrived at:

1) The short period fluctuation spectrum in the range between
Card 2/4

82706

S/049/60/000/006/002/002
E073/E535

Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (in accordance with observations carried out during the I.G.Y.)

- 1) 10 and 90 secs is a discrete one, the probability of appearance of fluctuations differs for differing periods.
 - 2) According to the daily characteristic of the number of cases of occurrence of short period fluctuations of various periods, the spectrum can be divided into groups of 20 to 30 and 60 to 90 secs monitored ("controlled") according to local time and a 40 secs group monitored ("controlled") by world time.
 - 3) The daily characteristic of the average maximum amplitude of the short period fluctuations of various periods obeys a general law and is monitored in accordance with local time.
 - 4) The group of fluctuations with periods between 60 and 90 secs observed at the station Borok obeys laws similar to those pertaining to the Pc type fluctuations.
 - 5) The degree of activity Pc evaluated according to 3-ball scale enables comparing the relations governing the behaviour of short period fluctuations of the Pc type with appreciably differing
- Card 3/4

82706

S/049/60/000/006/002/002
E073/E535

Certain Relations Governing the Behaviour of the Vertical Component of the Short Period Fluctuations of the Stable Regime Geomagnetic Field (Pc) (in accordance with observations carried out during the I.G.Y.)

amplitudes at various stations. The degree of activity Pc has a clearly pronounced daily variation with a half-daily maximum. It proceeds in accordance with the local time, it has a seasonal character and indicates a tendency towards a latitude shift, i.e. the maximum degree of activity Pc will occur earlier at the stations in the higher latitudes.

6) Disturbances with periods below 50 secs should be subdivided into proper PcA disturbances and disturbances of the same period which occur in absence of stable fluctuations of the given period (the latter is particularly characteristic for polar stations).

Acknowledgments are expressed to G. N. Petrova who directed the work and to the following who jointly with the personnel of the geophysical stations participated in evaluating the obtained experimental material: G.M.Solodovnikov, K.Ya. Sergyeva, L.V. Kopeleva, L.V.Pestretsova, V.V.Sperantov, L.A.Nabatnikova

and R.S. Rybak. There are 12 figures and 2 tables.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences USSR, Institute of Physics of the Earth)

Card 4/4

SUBMITTED: August 6, 1959

ZYBIN, K. Yu., SHEPETNOV, R.V., ROKITYANSKAYA, D.A., TROITSKAYA, V.A.,
and ROKITYANSKY, I.I.,

"The Connection of Pc and Pt Pulsations with Magnetic Storms,"

report presented at the Intl. Conference on Cosmic Rays and
Earth Storms, Kyoto, Japan, 4-15 Sept 1961.

PHASE I BOOK EXPLOITATION

SOV/5215

Akademiya nauk SSSR. Mezhdovedomstvennyy komitet po provedeniyu
Mezhdunarodnogo geofizicheskogo goda. III razdel programmy MGG:
Zemnoy magnetizm i zemnyye toki.

Korotkoperiodicheskiye kolebaniya elektromagnitnogo polya zemli
(Short-Period Oscillations of the Earth's Electromagnetic
Field) Moscow, Izd-vo AN SSSR, 1961. 114 p. 1,800 copies
printed (Series: Its: Sbornik statey, No. 3)

Resp. Eds.: A. G. Kalashnikov, Doctor of Physics and Mathematics,
and V. A. Troitskaya, Candidate of Physics and Mathematics;
Ed.: Ye. P. Shchukina; Tech. Ed.: Ye. V. Makuni.

PURPOSE: This publication is intended for geophysicists.

COVERAGE: This collection of articles, published by the Inter-
departmental IGY Committee of the USSR Academy of Sciences,
treats problems of geomagnetism and telluric currents. In-
dividual articles deal with various (short-period, gigantic,

Card-1/5

Short-Period (Cont.)

SOV/5215

steady, etc.) oscillations of the terrestrial electromagnetic field, particularly in the arctic region. No personalities are mentioned. Brief English abstracts accompany each article. References follow individual articles.

TABLE OF CONTENTS:

Afnas'yeva, V. I. Short-Period Oscillations of the Earth's Magnetic Field	
Kebuladze, V. V. Some Regularities of the Disturbed Field of Earth Currents	11
Okhatsimskaya, M. V., Yu. B. Rastrusin, I. I. Rokityanskiy, and R. V. Shchepetnov. Regularities in the Excitation of Short-Period Oscillations in Middle Latitudes	17
Vinogradov, P. A. Short-Period Oscillations of the Electrotelluric Field (According to Observations in Irkutsk)	23
Card 2/5	

Short-Period (Cont.)

SOV/5215

Dubrovskiy, V. G. Rapid Geoelectric and Geomagnetic Variations
and Their Regularities (According to Observations in Ashkhabad) 35

Troitskaya, V. A. Steady Oscillations and Chain Oscillations
in the Arctic and Antartic 41

Zubareva, E. P. Preliminary Results of Earth Current Obser-
vations in Tiksi Bay 62

Nikitina, N. M. Preliminary Results of Earth Current Obser-
vations at the Barentsburg Station (Spitsbergen) 69

Zubareva, E. P., G. I. Korobkova, N. M. Nikitina, and V. A.
Troitskaya. Gigantic Pulsations in the Soviet Arctic During
the 1935-1956 Period 76

Barsukov, O. M., and K. Yu. Zybin. Nonperpendicularity of the
Vectors of the E and H Variations of the Earth's Electromag-
netic Field 83

Card 3/5

Short-Period (Cont.)

SOV/5215

Troitskaya, V. A. Beat-Type Oscillations (Pearls) in the Earth's Electromagnetic Field ($T \sim 1-4$ sec) 89

Troitskaya, V. A., and M. V. Mel'nikova. Characteristic Intervals of Oscillations, Decreasing Over a Period (10-1 sec), in the Earth's Electromagnetic Field, and Their Relationship With Phenomena in the Upper Atmosphere 100

Bol'shakova, O. V., K. Yu. Zybin, and N. F. Mal'tseva. Some Regularities in the Behavior of the Vertical Component of Short-Period Oscillations of the Geomagnetic Field in a Stable Regime (pc) 108

Kalashnikov, A. G., and K. Yu. Zybin. Some Results of the Observations of the Variations Vector of the Horizontal Component of the Earth's Magnetic Field 110

Kalashnikov, A. G., and Mokhova, Ye. N. Short-Period Variations of the Magnetic Field, Occurring Simultaneously Over a

Card 4/5

29886

S/169/61/000/009/047/058
D228/D304

3.9110 (1121, 1482)

AUTHORS: Barsukov, O. M., and Zybin, K. Yu.

TITLE: The non-perpendicularity of the variation vectors for E and H of the earth's geomagnetic field

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 26, abstract 9G210 (Korotkoperiod. kolebaniya elektromagnitn. polya Zemli, no. 3, M., AN SSSR, 1961, 83-88)

TEXT: It is shown theoretically that for an anisotropic medium the principle of the mutual perpendicularity of vectors of electric and magnetic alternating fields is violated in horizontal directions. Recordings of short-period variations at the Lovozero and Borok stations were processed for experimental verification. The principal directions of vectors E and H, and their diurnal variation were determined for Lovozero; the perpendicularity deviation is $\sim 9^\circ + 1^\circ$. Electromagnetic measurements of the impedance for different directions disclosed the anisotropy of the crust in the Lovozero area which, according to the calculations, should

Card 1/2

Amplitude spectrum of micropulsations in the frequency range
of 1 to 20 cps. Geomag. i aer. 5 no.6:1125-1126 N-D '65.
(MIRA 19:1)

1. Institut fiziki Zemli AN SSSR. Submitted March 26, 1965.

ACC NR 0700761

SOURCE CODE: UR/0293/66/004/006/0935/0936

AUTHOR: Zybin, K. Yu.

ORG: none

TITLE: Distribution of Alfvén velocity in the magnetosphere

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 6, 1966, 935-936

TOPIC TAGS: cold plasma, plasma density, magnetic field

SUB CODE: 20,22

ABSTRACT:

Alfvén velocity in the magnetosphere usually is computed using the formula $V_A = H/\sqrt{4\pi\rho}$, where H is magnetic field strength and ρ is the density of charged particles. The first computation of V_A was made by Dessler, assuming a monotonic decrease of plasma density with height and for the strength of a dipole field. However, Soviet space rockets revealed a sharp decrease of plasma density at geocentric distances $R = 4-5 R_E$. Much more data now is available on this plasma density jump ("knee") near which the density of cold plasma decreases by several tens of times. Such a sharp decrease naturally should lead to a considerable increase of Alfvén velocity. The graph shows a second V_A maximum at $R = 4-5 R_E$ and a region of relatively low values V_A bounded by two maxima. This has a number of corollaries important for an understanding of the nature of geomagnetic micropulsations. The region of decreased velocities can serve as an additional resonator for magnetoacoustic waves propagating isotropically in the exosphere. This resonator exists on

Card 1/2

UDC: 550.385.41

ACC NR: AP7007601

both the daytime and nighttime sides of the magnetosphere. This makes it possible to explain nighttime pulsations of the Pi2 type. There are three regions in the magnetosphere in which magnetoacoustic resonances are possible: a) a region bounded by the "knee" and the velocity jump at the boundary of the magnetosphere; b) a region between the "knee" and the maximum of the Alfvén velocity at $R \approx 1.5 R_E$; c) a region whose boundaries are the ionosphere and the velocity maximum at $R \approx 1.5 R_E$. These and other factors help in explaining a broad spectrum of simultaneously existing micropulsations with different periods.

JPRS: 39,718

Properties and nature of geomagnetic micropulsations with periods
from 10 seconds up to several minutes. Geomag. i aer. 5 no.3:494-
498 My-Je '65. (MIRA 18:5)

1. Institut fiziki Zemli AN SSSR.

AUTHOR: Zybin, K. Yu.; Kleymanova, N. G. 25 B

ORG: Institute of Physics of the Earth, AN SSSR (Institut fiziki Zemli AN SSSR)

TITLE: Amplitude spectrum of micropulsations in the 1-20 cps frequency range

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1125-1126

TOPIC TAGS: geomagnetic field, geophysics

ABSTRACT: The paper is a report on observations of micropulsations in telluric currents at Garm, Tadzhik SSR, in the summer of 1963. Oscillograms of the natural electromagnetic field in the 1-20-cps frequency range show a complex pattern of irregular oscillations which defies analysis. To isolate the characteristic frequencies, several of the most typical recordings of micropulsations, lasting about 30 seconds each were analyzed on an M-20 computer. The resultant data were analyzed and a curve of the E_x spectral component was plotted as a function of amplitude. This spectrum shows that the natural electromagnetic field observed in the 1-20 cps range is the result of at least two distinct

Card 1/2

UDC: 550.385.37 UDC: 550.385.17

L 12856 66

ACC NR 48002765

10

sources. The field energy diminishes smoothly and rather rapidly with increasing frequency in the first part of the spectrum, up to 5 cps. Above 5 cps, the field energy begins to oscillate with increasing frequency. The low-frequency part of the spectrum (up to 5 cps) corresponds to oscillations of the P_{cl} type, which have their origin in the exosphere. The maxima in the oscillations above 5 cps correspond to Schumann resonance frequencies of the earth-ionosphere cavity due to lightning flashes. Three clearly defined maxima are observed at 8.5, 14.5, and 21 cps. This spectrum is used to determine the Q of the earth-ionosphere resonance cavity, giving values of 3.4 for 8.5 cps and 3.2 for 14.5 cps, which agree satisfactorily with the data in the literature. Resonance oscillations in the middle latitudes are much stronger than in the polar regions, where fluctuations are weak and the amplitudes of the oscillations from 8 to 20 cps are nearly an order of magnitude lower than the amplitudes of geomagnetic micropulsations (1-3 cps). Orig. art. has: 1 figure.

[14]

SUB CODE: 08,17/SUBM DATE: 26Mar65/ ORIG REF: 002/ OTH REF: 002
ATD PRESS: 4181

Card 2/2 HW

ZYBIN, Kh., inzhener.

Operation recorder of the "Neptun" radar station. Mor.flot 17
no.3:24 Mr '57. (MIRA 10:3)

1. Elektronavigatsionnaya kamera Rihzhskogo porta.
(Riga--Radar in navigation)
(Recording instruments)

~~APPROVED FOR RELEASE: Thursday, September 26, 2002~~
~~APPROVED FOR RELEASE: Thursday, September 26, 2002~~

Conditions for convergence of a sequence of linear positive operators. Uch. zap. Kalin. gos. ped. inst. no. 5:53-56 '58.

(Operators (Mathematics))

(Convergence)

(MIRA 13:10)

Convergence of some sequences of linear operators to discontinuous functions. Uch. zap. Kalin. gos. ped. inst. no.5:57-63 '58.

(Convergence) (Operators (Mathematics))
(Functions, Discontinuous)

(MIRA 13:10)

Basic questions on the pathogenesis, clinical picture, and treatment
of brain insults. Voen.-med.shur. no.9:11-17 S '59. (MIRA 13:1)
(CEREBRAL HEMORRHAGE)

APPROVED FOR RELEASE: Thursday, September 26, 2002
KABUL, N. B. Kandidat meditsinskikh nauk, polkovnik med. sluzhby

Basic principles of rehabilitative therapy following acute disorders
in brain circulation. Voen.-med. zhur. no.5:26-30 My '60.

(CEREBRAL HEMORRHAGE)

(MIRA 13:7)

GONDETSKI, V.I., inzh.; ZYBIN, P.M., inzh.; ISAKOV, Yu.N., inzh.;
D'YACHENKO, N.Kh., doktor tekhn.nauk, prof.; LIVENTSEV, F.L.,
kand.tekhn.nauk, dotsent; MEL'NIKOV, G.V., kand.tekhn.nauk,
dotsent

A new gas pipe line compressor station with evaporation cooling of
the gas motor compressors. Energomashinostroenie 10 no.1:27-29
Ja '64. (MIRA 17:4)

BOBOREKO, E.A.; KALYUZHNIY, M.Ya.; CHAYKA, N.D.; ABRAMOVICH, M.M.; SHILOV, Yu.P.;
DRUZHININA, A.T.; ZYBIN, S.Ye. (deceased); BATIKOV, L.S.

Improving the process of yeast growing on wood hydrolyzates.
Gidroliz. i lesokhim.prom. 17 no.8:22-25 '64.

(MIRA 18:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti, Leningrad (for Boboreko,
Kalyuzniy, Chayka, Abramovich). 2. Ivdel'skiy gidroliznyy zavod
(for Shilov, Druzhinina, Zybin, Batikov).

FISHER, F.N.; KEYL, I.A.; VOROB'YEVA, G.I.; SHVARSKHOYN, B.M.; ALYAMOVSKAYA,
T.S.; ZYBIN, S.Ye.; DRUZHININA, A.T.; SHILOV, Yu.P.

Growing yeast on hydrolysates from coniferous wood. *Gidrolis.*
i lesokhim. prom. 16 no.5:7-12 '63. (MIRA 17:2)

1. Moskovskoye otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo instituta gidroliznoy i sul'fitno-spirovoy promyshlennosti (for Fisher, Keyl', Vorob'yeva, Shvartskroyh, Alyamovskaya).
2. Ivdel'skiy gidroliznyy zavod (for Zybin, Druzhinina, Shilov).

KOROL'KOV, P.F.; STRIZHEVSKAYA, I.S.; LIKHOVID, R.D.; PARAMONOVA, G.D.;
ZYBIN, S.Ye.; BATIKOV, L.S.; DOLGOKHVESTOV, I.A.

Experiments in the production of hydrolysates for growing yeast
at the Ivdel' Hydrolysis Plant. Gidroliz. i lesokhim. prom.
16 no.5:3-7 '63. (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidrolianoy
i sul'fitno-spirovoy promyshlennosti (for Korol'kov,
Strizhevskaya, Likhovid, Paramonova). 2. Ivdel'skiy gidroliznyy
zavod (for Zybin, Batikov, Dolgokhvostov).

~~ZYBIN S.Ye.~~

Horinzontal percolation in the extraction-battery hydralysis of
wood. Gidroliz. i lesokhim. prom. 8 no.5:16-17 '55. (MLRA 9:1)

1. Director Khorskogo gidroliznogo zavoda.
(Wood-Chemistry) (Hydrolysis)

Zybin, V. - "The fantastic and the Actual," (Concerning the speed-
demon lathe-hand G. Borthevich. Sketch), Smena, 1949,
No. 4, p. 4, with portrait.

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; SAMORODOV, L.M.; VORONTSOV, I.V.;
PATRIKEYEV, G.T.; MAKARENKO, M.M.; ~~Prinimali~~ uchastiye:
ANDROSHCHUK, S.M.; ZYBIN, V.D.; KORNEV, I.S.; NIKOLAYENKO,
Yu.P.; CHERNOVA, V.A.; Igonina, Yu.A.; MORDUYEVA, A.A.

Study of botulin anatoxins. Report No.4: Botulin anatoxin type
E. Zhur. mikrobiol., epid. i immun. 33 no.1:72-79 Ja '62.
(MIRA 15:3)

(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

L 42067-65 ENT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: APS010902

4
UA/0254/55/001/007/0092/0093

AUTHORS: Markovich, A. V.; Varob'yev, A. A.; Vasil'yev, N. N.; Patrikayev, G. T.; Yenichev, V. H.; Zybin, V. D.; Kornav, I. S.; Shevelov, V. K.; Aman'yeva, Ye. P.

TITLE: Botulitic anatoxins of types A and B. Class 30, No. 169751

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 92-93

TOPIC TAGS: anatoxin, toxic substance, ⁶botulism, inoculation

ABSTRACT: This Author Certificate presents botulitic anatoxins, purified, concentrated, and sorbed with aluminum hydroxide. To produce in the blood of the inoculated people the antitoxic titers of types A and B and of the order 1-3 AE/ml, one ml of each preparation is made to contain 1000 antigenic units (EU per one AE) of the corresponding anatoxins with specific activity of no less than 3000 EU/1 mg of total nitrogen and not over 3.5 mg of aluminum hydroxide.

ASSOCIATION: none

SUBMITTED: 18May60
NO REF SOV: 000
Card 1/1 *AM*

ENCL: 00
OTHER: 000

SUB CODE: L3

23
B

ANAN'YEVA, A.A.; VASIL'YEV, N.N.; PATRIKEYEV, G.T.; ZYBIN, V.D.; KOREEV, I.S.;
ANAN'YEVA, Ye.P.; Primalni uchastiye: ANDROUCHUK, S.M.; IGONINA, Yu.S.;
SRMELEV, V.M.; MORDUYEVA, A.A.; NIKOLAYENKO, Yu.P.; MAKAROVA, V.A.;
CHERNOVA, Yu.S.; POYARKOVA, M.A.

Study of botulin anatoxins. Report No.1: Botulin anatoxin type A.
Zhur. mikrobiol., epid. i immun. 32 no.9:31-36 S '61. (MIRA 15'2)
(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

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retsenzent; RUBANOVICH, Ya.A., ekonomist, red.; TKACHUN, A.I.,
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NOTE: This collection of articles is intended for physicists, radiation and
 public health doctors, chemists and other specialists working in radioactive
 industry.

CONTENTS: This work discusses the following subjects: (1) principles of
 counting radiation and gamma rays using in institutions there work is
 carried on with radioactive substances; (2) radiochemical and chemical methods
 for determining radionuclides; (3) methods of measuring contamination of the air by
 and foodstuffs; (4) methods of measuring contamination of the air by
 radionuclides of various isotopes, clothes and sector counting; (5) methods
 of measuring external status of X and gamma radiation; and methods of in-
 dividual dosimetry monitoring; (6) methods and relative methods of measuring
 the activity of solid and liquid radioactive sources. There are four sections
 dealing with methods of calculating the total dosage from sources of emitting
 radiation, units of activity, and dosage from internal (from sources of emitting
 in the solution of radioactivity, activity receptors are discussed, as well as the
 storage, and handling of radioactive materials. The editors thank Dr. F. Stetsky and
 Dr. V. P. Kuznetsov for their assistance in the preparation of the
 Russian text. The authors are grateful to the staff of the
 Institute of Atomic Energy for their assistance in the preparation of the
 Russian text.

**Ch. V. Physical Methods of Determining Contamination of the
 Ambient Atmosphere Due to Radioactive Aerosols and Gases**

Introduction (I. M. Shubakov) 154

1. Determination of the active concentration of naturally
 active aerosols (V. V. Gorshkov, V. V. Zolotarev, V. I. Kostikov
 and V. K. Lyubimov) 162
2. Determination of the radioactive dust content of air with
 the aid of wetness filters (V. V. Gorshkov, V. I. Kostikov,
 and V. K. Lyubimov) 169
3. Determination of the active concentration of aerosols with
 the aid of the alcohol-precipitator type MP-2 (I. M. Shubakov,
 Shubakov and K. K. Kalugin) 185
4. Measurement of active aerosols with the aid of liquid
 filters (I. M. Shubakov and K. K. Kalugin) 197
5. Radiation metering of radioactive gases by means of an
 end-window counter (I. M. Shubakov and A. D. Puzhin) 196
6. Determination of effluent air contamination due to
 radioactive gases and aerosols (S. P. Kovalev, B. M. Kozlov
 and Ya. Shustakov) 202
7. Measurement of the concentration of radon in the air
 (V. I. Kostikov and V. K. Lyubimov) 211
8. Automatic control of the radon content of air
 (V. I. Kostikov and V. K. Lyubimov) 215
9. Measurement of the concentration of active gases in the
 air by means of an air wall counter (I. M. Shubakov,
 I. M. Shustakov and K. K. Kalugin) 215
10. The method of continuous measurement of radioactive gases in
 the air with the aid of a photostatic counter placed in
 a chamber of fixed volume (V. F. Bocharov) 221

Recommended Literature

Ch. VI. Methods of Measuring the Level of Contamination of Surfaces

Introduction (I. M. Shubakov) 229

1. Instruments for measuring the medium permeable level of
 contamination of surfaces by active substances (I. M. Shubakov,
 Shubakov) 245
2. Calibration of instruments for measuring the contamination
 of surfaces by active substances (I. M. Shubakov) 252
3. Methods of measuring the contamination of surfaces by
 emitting and non-emitting radionuclides (I. M. Shubakov) 256
4. Checking special clothing for radioactive contamination
 (I. M. Shubakov and K. S. Shturman) 266
5. Determining the radioactive contamination of the hands and
 body (I. M. Shubakov) 271
6. Determining the radioactive contamination of surfaces by the
 smear method (I. M. Shubakov, Ya. Shustakov and K. Orlina) 275

**Ch. VII. Methods of Measuring External Streams of X and Gamma
 Radiation (V. Ia. Margolis and B. M. Kozlov)**

Introduction 279

1. Organization of dosimetry 289
2. Calibration of dosimeters 291

24

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