

[Atrophic cirrhosis of the liver and its surgical treatment] Atroficheskii tsirroz pecheni i ee khirurgicheskoe lechenie. Tbilisi, Izd-vo "Metaniereba," 1964. 108 p. [In Georgian] (MIRA 17:12)

IOSELIANI, G.D.; BUDZHIASHVILI, V.K.; KHUCHUA, A.V.

Methods of isolated brain and heart perfusion under conditions of hypothermia. Soob. AN Gruz. SSR 35 no.2:461-468 Ag 164.

(MIRA 17:12)

l. Institut eksperimental'noy i klinicheskoy khirurgii i gematologii AN Gruzinskoy SSR, Tbilisi. Submitted January 20, 1964.

IOSELIANI, G.D.; KHUCHUA, A.V.

Coronary perfusion following exclusion of the heart from the blood circulation under moderate hypothermia. Soob. AN Gruz. SSR 36 no.3:699-704 D '64. (MIRA 18:3)

1. Institut eksperimental'noy i klinicheskoy khirurgii i gematologii AMN SSSR, Tbilisi. Submitted April 6, 1964.

IOSELIANI, G.D.; BURDZHANADZE, O.I.; CHKHARTISHVILI, N.S.

IISA of ethyl chloride for artificial pardiac arrest. Soob. AN Gr. z. SSR.
37 no.3:725-728 Mr '65.

'T. Institut eksperimental'noy i klinicheskoy khirurgii i gematologii
AN GruzSSR. Submitted August 27, 1964.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051872

Pharynx of healthy children and those a feeted with chronic tonsillitis," Kuybyshev, 1960, 11 pp (Kuybyshev State medical Institute) (KL, 36-60, 117)

IOSELIANI, G. K.; Master Med Sci (diss) -- "A study of the tactile and pain sensitivity of the mouth in healthy children and those ill with chronic tonsillitis". Moscow, 1958. 14 pp (Min Health RSFSR, Moscow Med Stomatological Inst), 200 copies (KL, No 1, 1959, 123)

DD/RD L 44568-66 EWT(1) SCTB UR/0209/66/000/009/0068/0070 ACC NR: AP6030912 SOURCE CODE: AUTHOR: Loseliani. K. (Lieutenant colonel, Medical corps); Smirnov. Yu. (Major, Medical corps) ORG: none TITLE: Overcoming unfavorable emotions [Psychological training for pilots and cosmonauts] SOURCE: Aviatsiya i kosmonavtika, no. 9, 1966, 68-70 TOPIC TAGS: flight psychology, flight physiology, pilot fram ABSTRACT: Methods of controlling the emotional states of pilots in flight are discussed and their importance is emphasized in view of the great nervous and emotional strain associated with piloting modern aircraft and spacecraft. Acquiring the ability to control emotional experiences is an important part of pilot and cosmonaut training. Psychological preparation must be conducted throughout the training period, since many of the unfavorable emotions associated with flight develop into conditioned reflexes and are hard to eradicate. Several methods for self-regulation of emotional states in flight conditions are recommended, including such elementary devices as listening to pleasant sounds and encouraging oneself with phrases like "I can, Card 1/2

L 44568-66 ACC NRI AP6030912 "I must," etc. Physical exercises, selected for their effect on the muscle groups most fatigued by prolonged static stress, have proved very effective. Each group of exercises is practiced before the flight and repeated every 3-4 hr during flight. Special muscle-relaxing exercises, consisting of a combination of stretching exercises, turns of the torso, exercises of various leg joints and breathing exercises, are used to remove emotional tension on complicated long, flights. Pilots should be familiar with all varieties of breathing exercises, and the physiological and psychological effect of each on the organism; (for instance, breathing deeply and exhaling slowly has a calming effect). Pilots should be trained to shift their thoughts at will to pleasant and successful flying experiences, thus overcoming unfavorable [JS] emotions arising during flight. SUB CODE: 05, 06/ SUBM DATE: none/ ATD PRESS: 5080

Card 2/2 5/m

IOSELIANI, K.M., zasluzhennyy vetorinarnyy vrach Gruzinskoy SSR;

67HEYRANISHVIII, V.V., nauchnyy sotrudnik

Manufacture of preparations in en institute. Veterinariia 41
no.11:101-103 N '64. (MIRA 18:11)

1. Direktor proizvodstva khimiko-terapevticheskikh i
biologicheskikh preparatov Gruzinskogo zooveterinarnogo
instituta (for Ioseliani). 2. Gruzinskiy zootokhnicheskoveterinarnyy uchebno-issledovatel'skiy institut (for
Dzheyranashvili).

IOSELIANI, M. S.

"Geological Interpretation of the Geophysical Data of the Vmutrennoe-Kartala Iowland." Cand Geol-Min Sci, Georgian Polytechnic Inst, Tbilisi, 1954. (RZhGeol, Dec 54)

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

IOSELIANI, M.S.

Seismic and geological nature of the central part of the Kartlian Plain. Soob.AM Grus.SSR 16 no.7:525-530 '55. (MERA 9:2)

1. Akademiya nauk Gruzinskoy SSR, Institut geofiziki, Tbilizi. Predstavleno chlenom-korrespondentom Akademii I.R. Kakhadze.
(Kartlia--Geophysics)

15-57-12-17092

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,

pp 57-58 (USSR)

AUTHOR:

Ioseliani M.S.

TITLE:

The Geologic Interpretation of Geophysical Data on the Vnutrenne-Kartalinskaya Ravnina (Plain) (Geologicheskaya interpretatsiya geofizicheskikh dannykh po Vnutrenne-Kartakinskoy ravinine--In Georgian)

PERIODICAL:

Tr. in-ta geodiziki AN GruzSSR, 1956, Vol 15, pp 185-214

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ABSTRACT:

The author presents an analysis of the results of a seismic survey on the Vnutrenne-Kartalinskaya ravnina (Plain), in which he includes data from drill holes, magnetometer work, as well as seismic exploration. From the seismic records, three thick formations have been distinguished in the razrez (section). The upper layer consists of Quaternary deposits, is 100 m to

Card 1/3

The Geologic Interpretation of Geophysical Data (Cont.)

400 m thick, and has a boundary velocity of 1900 m/sec to 2100 m/sec. The next lower formation consists of Neogene rocks, and is characterized by alternating layers of somewhat different lithology, each layer having slightly different elastic properties. The formation has a number of reflecting horizons, the boundary velocities ranging from 3000 m/sec to 3300 m/sec. The lowest of the three formations is 1900 m to 2200 m thick. The boundary velocity at the top of the third formation which is composed of Cretaceous limestones, is 4700 m/sec to 4800 m/sec. The boundary between the second and third formations is reliably determined by reflected and refracted waves. The sedimentary rocks are weakly deformed, and the thickness of each formation decreases to the south. The decrease in depth of the reflecting horizons attests to a rise of the crystalline basement to the south. The magnetic field over a great part of the plain is undisturbed, the vertical component increasing gradually from north to south from -150 gammas to +200 gammas. This fact also bears witness to the decrease in depth to the crystalline basement. Card 2/3

The Geologic Interpretation of Geophysical Data (Cont.)

Variations in the magnetic field on the plain and on the north of the folded Adzharo-Trialetskaya zona (zone) indicate sharp differences in the structure of the deep rocks. Earthquake centers are absent on the plain, but are characteristic of the surrounding folded systems. This study leads to the conclusion that the Vnutrenne-Kartalinskaya Plain rests on a stable part of the earth's crust.

Card 3/3

IOSELIANI, N.S.; MURUSIDZE, G.Ya.

Using seismic methods of prospecting for the solution of certain problems of engineering geology. Trudy Inst. geofis. AM Grus.

SSR 16:115-128 '57. (MIRA 11:6)

(Seismometry) (Engineering geology) (Prospecting)

TVALUTADZE, G.K.; KOSMINSKATA, I.P.; MUHUSIDZE, G.Ya.; MIKHOTA, G.G.;
IOSHLIAMI, M.S.; TULIMA, Yu.V.

Results of studies of the surface of the crystalline foundation of the western part of the Gord-nukhrani depression by seismic methods. Trudy Inst. geofis. AH Grus. SSR 16:135-161 *57.

(Georgia—Geology, Structural) (MIRA 11:6)

(Seismic waves)

S/169/61/000/009/014/056 D228/D304

AUTHORS:

Ioseliani, M. S., and Kartsivadze, G. Ye.

TITLE:

The question of the seismo-geologic structure of the

Akhalkalak highlands and some adjacent areas

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 9, 1961, 19, abstract 9Al51 (Geopizikis institutis shromebi. Sakartvelos SSR Metsniyerebata Akademia, Tr. In-ta geofiz. AN GruzSSR, 18, 1959 1960, 81-89)

TEXT: The general geologic structure of the Akhalkalak region and adjacent areas is exposed, and seismologic data are given for this territory. The epi- and hypocenters of earthquakes are determined from G. K. Tvaltvadze's hodographs. Comparison of seismologic and geologic data provides the basis for drawing the conclusion that there is no seismo-genetic connection between the Akhalkalak highlands and the Kazbek area. The foci of strong earthquakes are related to the boundaries of tectonic units (Artva-Somkhit block, Adzharo-Trialet fold-system, and the

Card 1/2

S/169/61/000/009/014/056 D228/D304

The question of the...

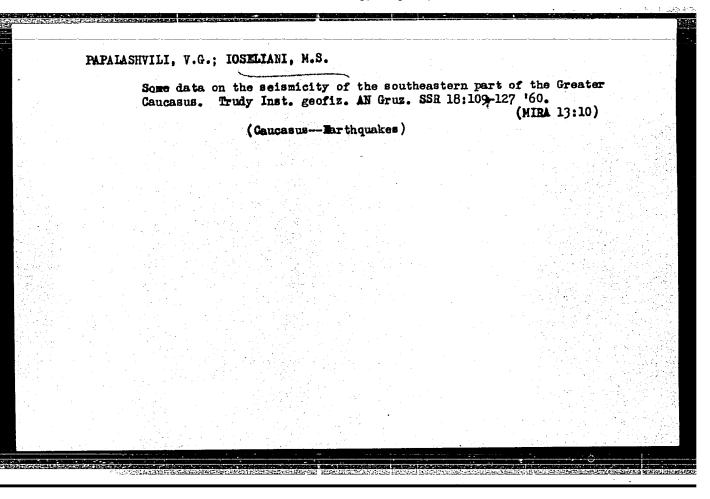
Georgian block). The seismo-geologic structure of the Akhalkalak high-lands is related to the seismo-geology of Turtsiya. Their intensive seismicity is, in the opinion of the authors, caused by recent volcanic movements. As is known, the Akhalkalak highlands were a stable part of the crust throughout the Alpine orogenetic-cycle, whereas intensive tectonic movements took place in their adjacent areas. Towards the end of the Neogene the picture changed: intensive tectonic movements began—in consequence of which the dismemberment of the crystalline basement into small blocks took place—and tectonic fractures, to which the earthquake foci are also confined, were formed. The results obtained by abyssal seismic sounding and other geophysical methods will have great significance for the deeper study of the seismo-geologic structure of the Akhalkalak highlands. Abstracter's note: Complete translation.

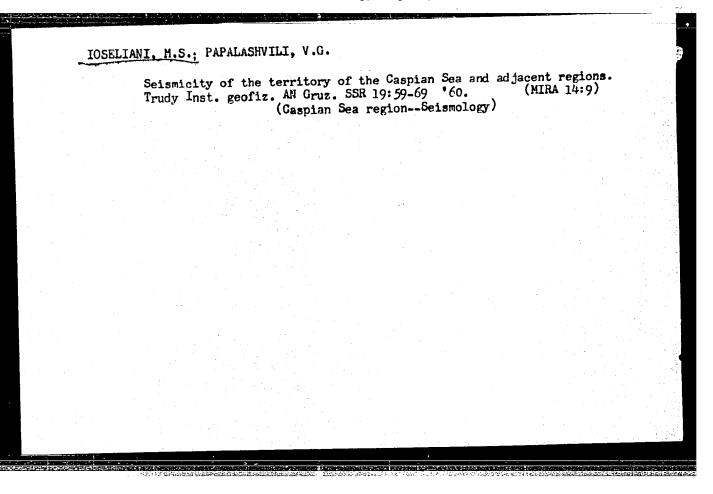
Card 2/2

MURUSIDZE, G.Ya.; IOSELIANI, M.S.; LURSMANASHVILI, O.V.; CHICHINADZE, V.K.

Results of studying elastic properties of rocks in the region of the Ladzhanur Hydroelectric Power Station. Trudy Inst. geofiz. AN Grus. SSR 18:97-108 '60. (NIRA 13:10)

(Ladzhanur Hydroelectric Power Station region—Seismometry)





IOSELIANI, M.S.; PAPALASHVILI, V.G.

Some aspects of the seismic-tectonic conditions in the eastern part of the Greater Caucasus and adjacent regions. Trudy Inst. geofiz.AN Gruz.SSR 22:15-41 64.

(MIRA 18:12)

AGLADZE, R.I., IOSELIANI, O.S.

Reduction of Chiatura manganese oxide ores and slurries by means of acid tars. Trudy Inst. prikl. khim. i elektrokhim. AN Gruz. SSR 2:15-29 *61. (MIRA 16:8)

(Chiatura) (Manganese ores)

IOSELIANI, T.; MATISHVILI, A.N., deystvitel'nyy chlen.

Development cycle of polymuclear mesothelial cells of the pericardium.

Soob.AB Grus.SSR 13 no.9:555-559 '52. (MLRA 6:5)

1. Tbilisskiy Gosudarstvennyy universitet im, Stalina (for Ioseliani).

2. Akademiya Mauk Grusinskoy SSR (for Matishvili). (Gells) (Pericarium)

IOSELIANI, T.K. Effects of the stimulation of the substantia gelatinosa of the spinal cord. Soob.AN Gruz.SSR 21 no.5:599-606 N '58. (MIRA 12:5) 1. AN GrusSSR, Institut fiziologii, Tbilisi. Predstavleno akademikom I.S.Beritaghvill. (SPINAL COMD)

IOSELIANI, T.K., Cand Biol Sci — (diss) "Role of the gelating."

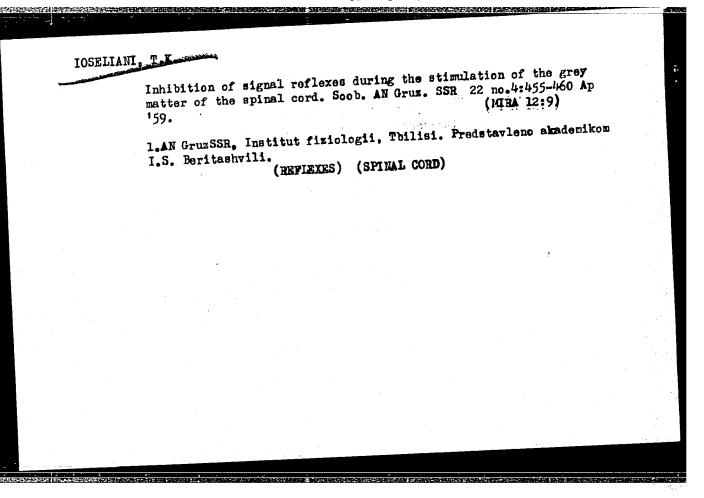
substance in the reflex activity of the spinal cord." Tbilisi,

1959. 11 pp (Tbilisi State U im Stalin). 150 copies

(KL, 39-59, 103)

28

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051872



IOSELIANI, T.K. Wedensky inhibition in a frog nerve-muscle preparation. Fiziol. shur. 45 no.4:487-493 Ap 159. (MIRA 12:6)

1. From the I.S.Beritashvili Institute of Physiology, Georgian SSR Academy of Sciences, Tbilisi.

(NERVE MUSCLE PREPARATION, pessimum phenomenon (Rus))

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051872

IOSELIANI, T. K. and ONIANI, T. N. (Toilist, USSR)

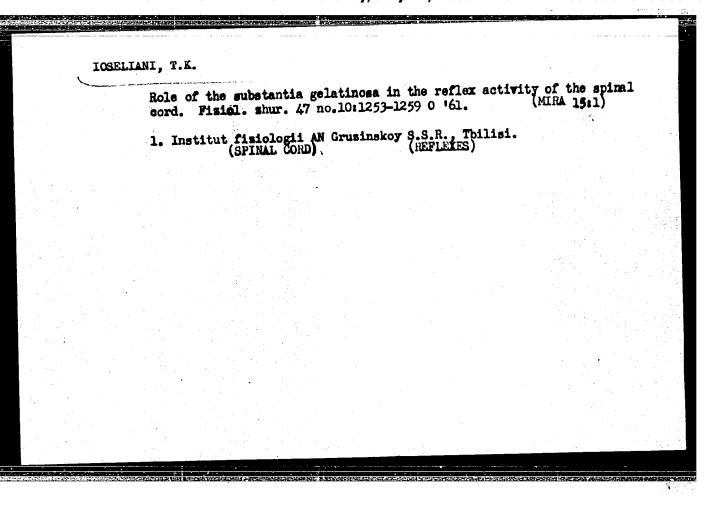
"The spinal mechanism of general inhibition"

Report submitted to the 7th Intl. Congress of Neurology, Rome, Italy, 10-15 Sep 61

IOSELIANI, T.K.

Effect of the strength, frequency, and deration of individual stimuli on the inhibition of spinal reflexes. Soob. AN Grus. SSR 26 no.4:455-459 Ap 161. (HIRE 14:8)

l. Institut fisiologii AN GrusSSR, Tbilisi. Predstavleno akademikom I.S. Beritashvili. (INHIBITON) (SPINAL CORD) (REFLEXES)



IOSELIANI, T.K.; ONIANI, T.N.

Mechanism of pessimal inhibition. Nerv. sist. no.4:9-13 '63 (MIRA 18:1)

Postactivation changes in excitation of the neuromuscular apparatus. Ibid. 14-17

1. Institut fiziologii AN Gruzinskoy SSR, Tbilisi.

IOSELIANI, T.K.; ONIANI, T.N.

Effect of strychnine poisoning on the reticular inhibition of spinal reflexes. Fiziol. zh. SSSR Sechenov 49 no.6:695-700 (MIRA 17:1)

1. From the Institute of Physiology, Georgian S.S.R. Academy of Sciences, Tbilisi.

OHIANI, T.N.; IOSELIANI, T.K

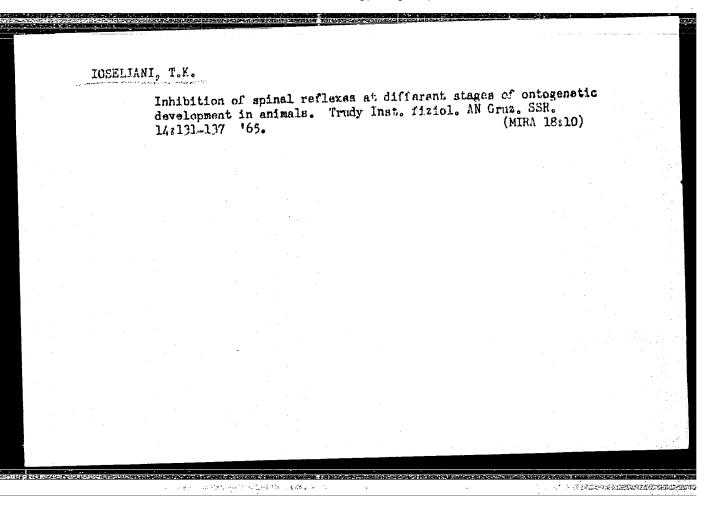
Postactivation changes in the membrane-myofibril coupling of striated muscle fibers. Soob. AN Gruz. SSR 36 no.3:691-697 D '64. (MIRA 18:3)

1. Institut fiziologii AN GruzSSR. Submitted January 4, 1964.

IOSELIANI, T.K.; NANEYSHVILI, T.L.; CHOKHELI, K.G.

Data on the interaction of responses from the spinal cord in paired stimulation of afferent nerves. Fiziol. zhur. 51 no.1:65-70 Ja '65. (MIRA 18:7)

1. Institut fiziologii Gruzinskoy SSR, Tbilisi.



ACC NR. AT5024232 CODE: UR/3167/65/014/000/0131/0137 31 AUTHOR: Ioseliani, T. K. TITLE: Inhibition of the spinal reflexes at different stages of ontogenetic development SOURCE: AN GruzssR. Institut fiziologii. Trudy, v. 14, 1965. Sovremennyye problemy devatel'nosti i stroyeniya tsentral'noy nervnoy sistemy (Present problems of the activity and structure of the central nervous system), 131-137 TOPIC TAGS: CNS, CNS ontogenesis, reflex inhibition, spinal reflex, mammalian ontogenesis, ventral root potential ABSTRACT: Inhibition of spinal reflexes (ventral root potentials) by proprioceptor activation was studied in chloralose-narcotized adult cats and newborn kittens. All ventral root potentials were measured at the 7th lumbar vertebra. In adult cats, stretching of the gastrocnemius: muscle inhibits all components of ventral root potentials (i.e., monosynaptic, polysynaptic, and late discharges). Similar spinal reflex Card 1/2

inhibition early as 3 newborn the ceptor actifully than responses	by gast days af in in ad vation monosyn	ter birth ult cats. selective aptic res	. Spin In bo ly inhi ponses;	al reflex th adult bits poly in new-b	inhibi and new synapti orn kit	tion was w born cats, c response tens, mono	eaker : propri s more	ic
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DZOTSENIDZE, G.S.: DZHANELIDZE, A.I.. redaktor: IOSELIANI, T.H.

[Pre-Miocene effusive volcanism of Georgia] Domiotsenovyi effuzivnyi vulkanism Gruzii. Tbilisi, 1zd-vo Akademii nauk Gruzinskoi SSR, 1948, 404 p. (Akademiia nauk Gruzinskoi SSR, Tiflis. Institut geologii i mineralogii. Monografii, no. 1) (MIRA 9:3)

1. Deystvitel'nyy chlen AN Gruz. SSR (for Dzhanelidze). (Georgia--Rocks, Igneous)

Studying the possibility for using dump blast furnace slag in making portland slag coment. Soob. AN Grue. SSR 22 no.3:267-294 (MIRA 12:8)

Mr '59.

1.AH Gruessr, Institut prikladnoy khimii i elektrokhimii, Tbi-lisi. Fredstavleno akademikom R.I. Agladze.

(Slag gement)

	PHASE I BOOK EXPLOITATION SOV/5277		
	Akademiya nauk Gruzinskoy SSR. Institut prikladnoy khimii i elektro- tekhniki.		. † . †
	Trudy, t. 1 (Academy of Sciences of the Georgian SSR. Institute of Applied Chemistry and Electrochemistry. Transactions) v.1. Tiflis, 1960. 186 p. Errata slip inserted.	¥	
: -	Personalities cannot be established in Georgian writing.		
	PURPOSE: This collection of articles is intended for mineralogists; metal- lurgists, and mining specialists.		
İ	the concerning recent research on		Į.
	COVERAGE: The collection contains articles concerning recent research on methods for treating antimony- and arsenic-bearing ores and carbonate ores of manganese. Research on the electrochemical properties of certain ores and their electrodeposition is also discussed. The collection includes		
	methods for treating antimony and all structured properties of certain		
	methods for treating antimony and arsente-betting ores of manganese. Research on the electrochemical properties of certain ores and their electrodeposition is also discussed. The collection includes		
	methods for treating antimony and arsente-betting ores of manganese. Research on the electrochemical properties of certain ores and their electrodeposition is also discussed. The collection includes		
	methods for treating antimony and arsente-betting ores of manganese. Research on the electrochemical properties of certain ores and their electrodeposition is also discussed. The collection includes		

12 SOV/5277 Institute of Applied Chemistry (Cont.) studies on the corrosion and electrical properties of certain alloys, studies of the properties of certain cements and cement components, and studies of certain phases of the cement production process. The following personalities are mentioned: Professor N. A. Figurovskiy and his scientific assistant T. B. Gavrilova (p. 118, bottom); R. I. Agladze, Academician, AN GSSR (AS Georgian SSR) (p. 150); S. D. Dzhaparidze and N. I. Lagidze (p. 171). The articles which are written in Georgian are followed by a resume in Russian. References accompany each article. TABLE OF CONTENTS: 1. Kakabadze, V. [Printed in Georgian] 2. Agladze, R.I., and V.N. Gaprindashvili. Hydrometallurgical Processing of Antimony Ores From the Zopkhitskiy Deposit Card 8/5-

In	stitute of Applied Chemistry (Cont.)	SOV/5277
14.	Zedginidze, Ye. N., and N. A. Lagidze. Heat-Recretes Based on Portland-Slag Cements From the Cement Factory	
15.	Zedginidze, Ye. N., and T. P. Ioseliani. Testing Activity of Blast-Furnace Slag From a Transcaud lurgical Factory	
16.	Ioseliani, T.P. Problem of the Grindability of the nents of Portland-Slag Cement From the Rustavs Factory	- · · · · · · · · · · · · · · · · · · ·
17.	Mchedlov-Petrosyan, O. P., Kh. I. Gogicheva, F. vili, and G. K. Norakidze. Laboratory Study of the Pressing Under a Vacuum on Certain Properties Refractories	he Effect of
ΑV	AILABLE: Library of Congress	JA/rsm/bc
C	ard 5/5	12/5/61

DEMAT, M.P.; IOSELOVSKIY, I.V.; KOPERIN, V.V.; NIKUL'SHIN, Yu.D.;
TSUKERMAN, D.P.; KORELIN, D.S., nauchnyy red.; LYTKINA; L.S.,
red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Planning the organization and execution of erecting work; principal designs of the rigging of equipment]Proektirovanie organizatsii i proizvodstva montazhnykh rabot; osnovnye resheniia takelazha oborudovaniia. Moskva, Gosstroiizdat, 1962. 182 p. (MIRA 15:12)

(Machinery -- Erecting work)

On the state of th

VERVEYKINA, A.K., inzh.; KOLCHINSKIY, Yu.L., inzh.; NIKOLAYEVSKIY, Ye.Ye., inzh.; RODIONOVA, R.G., inzh.; RYAPOLOV, A.F., inzh.; SOKOL, I.A., inzh.; STERLIN, S.L., inzh.; EYDEL'NANT, L.B., inzh.; ORLOV, V.M., kand. tekhn. nauk, retsenzent; YURGEL', B.I., inzh., retsenzent; FOKIN, V.Ya., inzh., nauchn. red.; VOLNYANSKIN, A.K., glav. red.; SUDAKOV, G.G., zam. glav. red.; IOSELOVSKIY, I.V., red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.; ONKIN, A.K., red.; STAROVEROV, I.G., red.; TUSHNYAKOV, M.D., red.; CHERNOV, A.V., red.

[Engineering pipelines for industrial enterprises] Tekhnologicheskie truboprovody promyshlennykh predpriiatii. Moskva, Stroiizdat, 1964. 2 v. (MIRA 17:12)

VERVEYKINA, A.K., inzh.; KOLCHINSKIY, Yu.L., inzh.; NYKOLAYEVSKIY,
Ye.Ya., inzh.; RODIONOVA, R.G., inzh.; RYAPOL JV, A.F., inzh.;
SOKOL, I.A., inzh.; STERLIN, S.L., inzh.; EYIELI'NANT, L.B.,
inzh.; orlov, V.M., kend. tekhn. nauk retsengant: YURGEL!, B.L.,
inzh., retsenzent; FOKIN, V.Ya., inzh., ohn.red.; VOLNYANSKIY, A.K.
red.; MARKOV, I.I., red.; MELINIK, V.I., red.; ONKIN, A.K.,
red.; STAROVEROV, I.G., red.; TUSHNYAKOV, V.D., red.; CHERNOV,
red.; SUDAKOV, G.G., red.; IOSELOVSKIT, I.V., red.

[Technological pipings in industrial enterprises] Tekhnologicheskie truboprovody promyshlennykh predpriiatii. Moskva,
Strolizdat. Pt.l. 1964. 784 p. (MIRA 18:9)

VOL'BERG, N.Ye.; CAYDAMAK, K.M.; DLMAT, M.P.; KOFERIN, V.V.;

MOLOKANOV, A.V.; HAUMOV, V.G.; PALAGIN, A.V.; TIMOFEYEV,

A.I.; FRANTSUZOV, Ya.L.; VOLDYANSKIY, A.K., glav. red.;

SUDAKOV, G.G., zam. glav. red.; IOSELOVSKIY, I.V., red.;

ORLOV, V.M., red.; ONKIN, A.K., red.; NIKOLAYEVSKIY,

Ye.Ya., red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.;

STAROVEROV, I.G., red.; TUSHNYAKOV, M.D., red.; CHERNOV,

A.V., red.; KRYLOV, V.A., nauchn. red.

[Assembly of technological equipment of chemical plants]

Kontazh tekhnologicheskogo oborudovaniia khimicheskikh

zavodov. Moskva, Stroiizdat, 1964. 619 p.

(MIRA 17:11)

:10SEL'SON, G.L

. USSR/Processes and Equipment for Chemical Industries - Control and Measuring Devices.

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 64000

Author: Kovalevskiy, V. A., Iosel'son, G. L., Kandyba, V. V.

Institution: Khar'kov State Institute of Measures and Measuring Instruments

Objective Spectropyrometric Unit SPK-1

Periodical: Izmerit. tekhnika, 1956, No 2, 16-20

Abstract: Description of the optical scheme, design and principle of operation of the objective spectropyrometric unit SPK-1 built at the Khar'kov

State Institute of Measures and Measuring Instruments for metrological work on calibration of standard and sample measures of luminosity and coloration temperatures (temperature lamps). The unit operates according to the modulation measuring method. The investigations carried out have shown that accuracy of temperature measurement attainable by means of the SPK-1 unit is of 0.03° at the "gold point" which

exceeds by more than 10 times the accuracy of standard optical

Card 1/2

USSR/Processes and Equipment for Chemical Industries - Control and Measuring Devices. Automatic Regulation, K-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 64000

Abstract: pyrometers. The unit makes it possible to enhance the accuracy of such fundamental operations of optical pyrometry as transmission of scale of luminosity temperatures, provision of a scale of coloration temperatures on the basis of the existing scale of luminosity temperatures and the investigations of temperature lamps. It is reported that at the present time a method is being developed for accurate measurement of the proportion of monochromatic luminosities by means of the SPK-1 unit, which will permit to effect an extrapolation of the International Scale of Temperatures with greater precision, and to evolve as a final result the temperature scale by optical method not from the solidification point of gold (1,0630) as was done hitherto, but from considerably lower temperatures. The solving of the last mentioned problem would make it possible to determine more precisely the values of high-temperature reference points and thus to approximate the International Scale with the thermodynamic scale.

Card 2/2

BOYALSKIY, L.A.; GORDOV, A.N.; LOSEL'SON, G.L.; KANDYBA, V.V.; KIRENKOV, I.I.; KOVALEVSKIY, V.A.; KRAKHVAL HIKOVA, G.A.; LAPINA, B.A.; TARAYANTS, K.G.

Using the photoelectric method for precise work in the field of optical pyrometry. Trudy VEIIM no.36:23-32 *58. (MIRA 11:11) (Pyrometry)

S/115/62/000/005/002/006 E140/E435

AUTHORS:

Tosel'son, G.L., Dzyuba, A.S.

TITLE:

.Thermistor temperature control

PERIODICAL: Izmeritel'naya tekhnika, no.5, 1962, 23-24

TEXT: The authors describe a conventional temperature control using a thermistor bridge and double-triode vacuum-tube amplifier, in which the temperature is maintained to within ± 0.01°C. The Soviet thermistor type MMT-4 is used. Reproducibility of temperature is ±0.02°C. There is 1 figure.

Card 1/1

ACCESSION NR: AP4017723

S/0294/63/001/003/0437/0442

AUTHOR: Iosel'son, G. L.

TITLE: Methods of automatic compensation of the radiation coefficients in measurement of plasma temperature by its thermal radio emission

SOURCE: Teplofizika vy*sokikh temperatur, v. 1, no. 3, 1963, 437-442

TOPIC TAGS: plasma, plasma temperature, plasma temperature measurement, plasma radio emission, plasma thermal radio emission, radiation coefficient, radiation coefficient compensation, black body radiation, blackness coefficient

ABSTRACT: Two methods are described, developed at the Khar'kovskiy gosudarstvenny*y institut mer i izmeritel'ny*kh priborov (Khar'kov State Institute of Measures and Measuring Instruments) for thermal

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ACCESSION NR: AP4017723

radio-emission measurements of plasma temperature. Unlike existing methods, these methods satisfy the condition that the comparison with the power of a standard black body used to eliminate the errors connected with the bandwidth uncertainty be made with the same accuracy as the measurement of the power itself. The reflection coefficient is measured at exactly the same instant when the temperature is measured, from the same point of space, with the same antenna, and with the same parameters as used for the measurement of the radiation intensity. The measurements are furthermore made in the same frequency band. The first method consists of equalizing the received power from the standard radiator under additional illumination of the object (G. L. Iosel'son, Author's Certificate No. 149914, 1961), so as to eliminate the influence of the "blackness" or radiation coefficient. This method can be used to measure temperatures only to half the temperature of the standard radiator, and is therefore limited. In the second method the temperature is determined from the ratio of the received power to the power radiated

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by the standard radiator operating in the pulsed mode. In this method signal splitting devices (hybrid rings or twin-T bridges) are used to ensure measurement of the reflection coefficient at the time of the temperature measurement. It can be used at temperatures above the standard source, but the complete elimination of the blackness coefficient occurs only when the distance between the object and the antenna is small. For a flat surface with blackness coefficient 0.7 located up to 250 mm from the antenna the error does not exceed 2%. Orig. art. has: 4 figures and 29 formulas.

ASSOCIATION: Khar'kovskiy gosudarstvenny*y institut mer i izmeritel'ny*kh priborov (Khar'kov State Institute of Measures and Measuring Instruments)

SUBMITTED: 26Jul63

DATE ACQ: 23Mar64

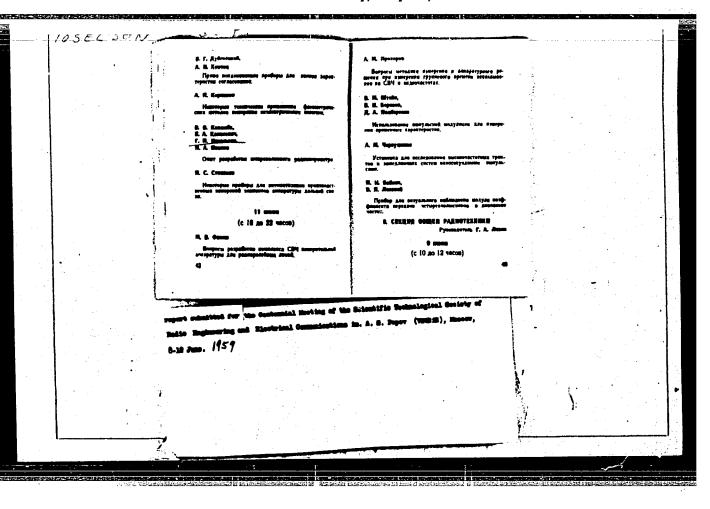
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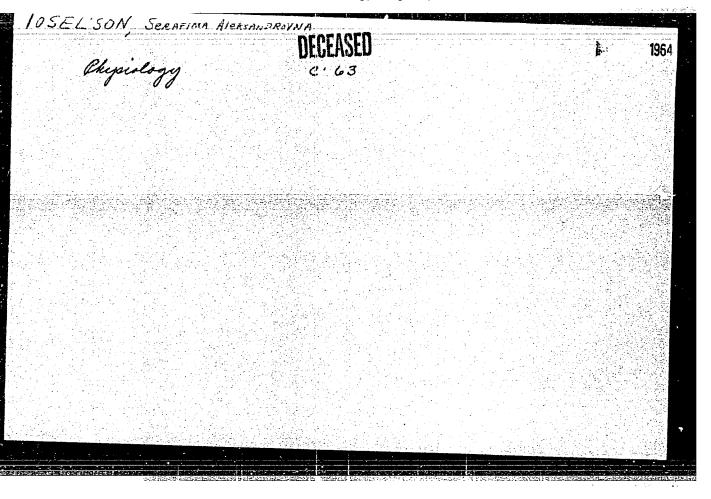
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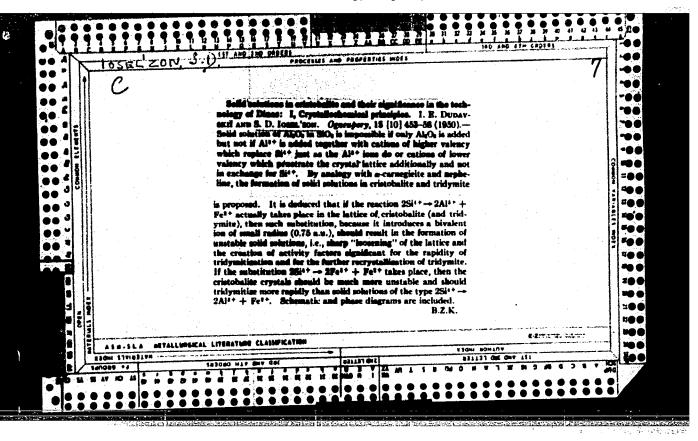
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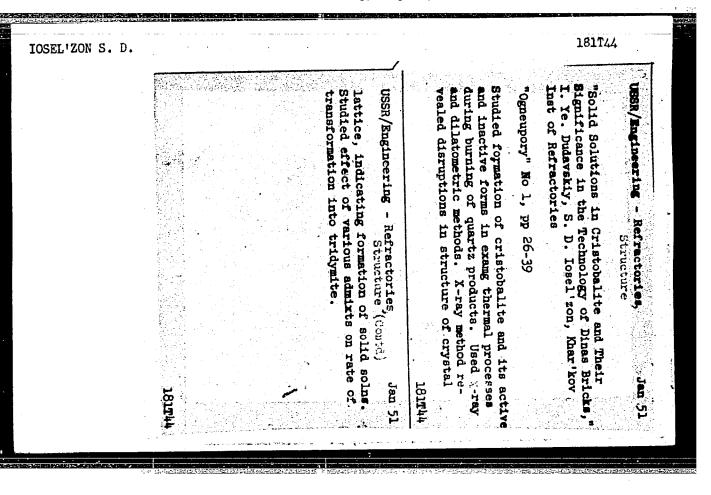




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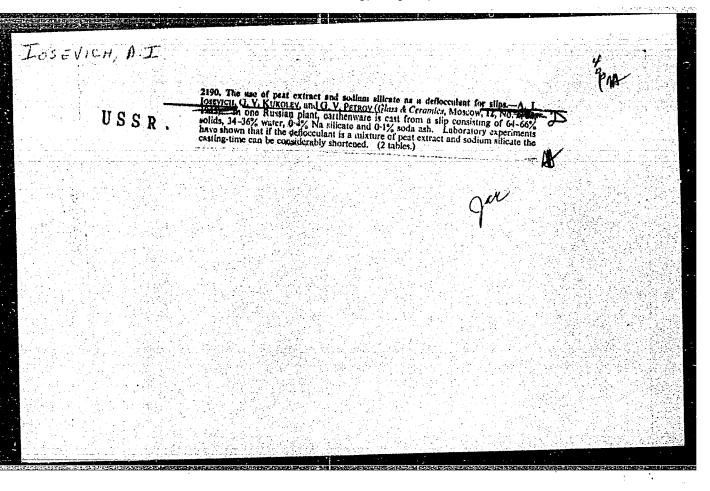
Myficient methods in the manufacture of high alumina products.

Ogneupory 18 no.9:387-396 '53. (MIRA 11:10)

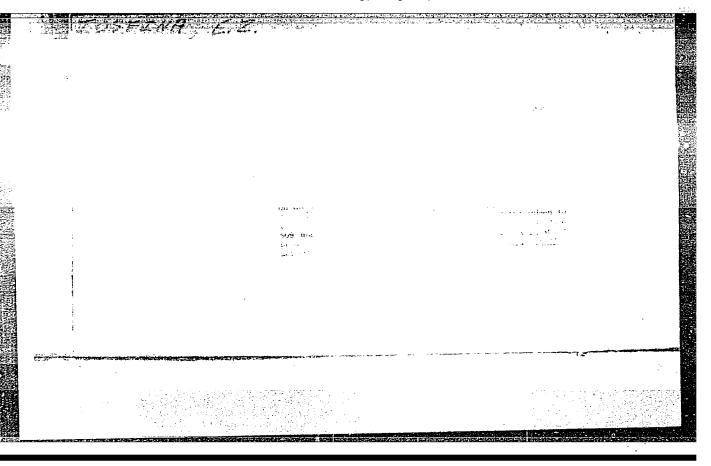
1. Thar'kovskiy institut ogneuporov. (Refractory materials)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051872



IOSEVICH, A.I. USSR/ Engineering - Industrial processes Pub. 104 - 7/11 Card 1/1 : Iosevich, A. I.; Kukolev, G. V.; and Petrov, G. V. Authors Use of peat extracts on liquid glass as dross peptizing agent Title Periodical : Stek. i ker. 2. page 22, Feb 1955 ! The advantages derived by using peat extracts as dross peptizing agents. Abstract instead of the conventional sodium carbonate, are discussed. The dross, obtained by applying peat extracts to the molten glass, was found to be more volatile, to contain less moisture and have a lower rate of solidification. The time required for the formation of the crock is much reduced by the application of peat extracts. Tables. Institution Submitted:



IOSHIMOV. D.

TECHNOLOGY

PERIODICAL: GOSPODARKA WODNA. Vol. 18, no. 9, Sept. 1958

IOSHIMOV, D. Distribution of investments and annual expeditures in multipurpose

hydraulic structures Tr. from the Bulgarian, p. 387.

Monthly List of East European Accessions (EEAI) IC Vol. 8, no. 4.

April 1959, Unclass

IOSHINOV D.

TECHNOLOGY

Periodicals TEKHEIKA Vol. 7, no. 10, 1958

IOSHINOV, D. Determining the economic effect of irrigation. p. 10

Monthly List of East European Accessions (EEAI) LC., Vol. 8, No. 5, May 1959, Unclass.

IOSHINOV, Dako, inzh.

Prime cost of production in a complex exploitation of construction sites. Khidrotekh i melior 7 no.4:103-106 162.

DOSHOV, V. S.

25949

Dolg chyesti kazhpogo myeditsinskogo rabotnika (Myetodika organiestsii san. Prosvyechyeniya v S.S.S.R.) Fyel'dshyer i akushyerka, 1949, No. 7, s. 38-43.

S0: Letopis' No. 34

s/141/60/003/01/006/020 E192/E482

AUTHORS:

Mogilevskiy, E.I., Gits, I.D. and Ioshpa, B.A.

TITLE:

Electronic Circuitry of the Solar Magnetographs of IZMIRAN (Institute of Earth Magnetism and Radio Wave

Propagation of the Academy of Sciences)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1960, Vol 3, Nr 1, pp 67-71 (USSR)

ABSTRACT:

The method of measurement of the magnetic fields of the sun spots is based on the following principle. The Zeeman components which are elliptically polarized in various directions for different intensities in that portion of the Fraunhoffer line which is selected by means of a slit. By directing such a component onto a photo-cathode by means of a light analyser, a modulated light beam is obtained. From the depth of the

modulation it is possible to determine the magnitude of the magnetic field. The situation is illustrated in

Fig 1. The intensity of the magnetic field is

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Electronic Circuitry of the Solar Magnetographs of IZMIRAN (Institute of Earth Magnetism and Radio Wave Propagation of the Academy of Sciences)

defined by
$$H_{z} = \frac{\Phi}{\kappa F(\Delta_{i}\gamma_{i})dJ/d\lambda} = \frac{m}{\kappa F(\Delta_{i}\gamma_{i})d\Phi_{i}} = \frac{m}{\kappa F(\Delta_{i}\gamma_{i})d\Phi_{i}}$$

where Φ is the difference between the light beams of two components at a given point of the contour, k is a parameter describing the magnitude of the Zeeman effect for a given line, J is the intensity at a effect for a given line, J is the intensity at a given point of the contour, F is a function describing the polarization of the experimental equipment, the polarization of the experimental equipment, Φ_z is the average radiation, M is the depth of the modulation and λ is the wavelength. It is seen therefore that the measurement of H_Z amounts to a simultaneous measurement of Φ_{∞} and $dJ/d\lambda$. This principle of measurement was first realized in IZMIRAN in 1953 (Ref 1). The electronic circuitry of the measuring instrument (magnetograph) should be designed in such a way that a

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Electronic Circuitry of the Solar Magnetographs of IZMIRAN (Institute of Earth Magnetism and Radio Wave Propagation of the Academy of Sciences)

stable and reliable gain for the signal Φ_{\sim} is obtained; secondly, the Doppler shift should be eliminated, as well as the asymmetry of the contour and its changes at various spots of the sun. The first magnetograph of the IZMIRAN was furnished with a mechanical light modulator (see Fig 2). However, later investigations showed that the modulation frequency had to be increased to above 200 c/s. For this purpose the mechanical modulator was replaced by an electro-optical modulator (Ref 7). A Kerr cell was employed as the modulator and this operated at the frequency of 225 c/s (see Fig 3). Further development of the instrument aimed at the increase of the signal-noise ratio. It was found that this could be achieved by employing a balanced method of signal reception. In this case, the amplifier was in the form of a photo-multiplier and a narrow-band amplifier. The signal applied to the measuring device

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Electronic Circuitry of the Solar Magnetographs of IZMIRAN (Institute of Earth Magnetism and Radio Wave Propagation of the Academy of Sciences)

was compensated so as to obtain a zero resultant voltage. The block schematic of the resulting magnetograph is shown in Fig 4. The device consists of: (1) Kerr cell, (2) d.c. voltage source, (3) amplifier, (4) a photo-multiplier, (5) a supply source for the photo-multiplier, (6) a recording device, (7) an audio generator, (8) an amplifier (operating 225 c/s and having a band-width of 5 c/s), (9) a phase detector, (10) a feed-back loop, (11) recorder of the signal Φ_{\sim} and Π a polaroid. In order to determine the true value of the measured field it is necessary to ensure that the position of the output slit on the contour of the line is rigidly fixed during the measurement. In practice, this condition is very difficult to meet. Consequently a system in which the contour wobbles along the slit was introduced. In this the slit always passes through

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Electronic Circuitry of the Solar Magnetographs of IZMIRAN (Institute of Earth Magnetism and Radio Wave Propagation of the Academy of Sciences)

that point of the contour which has a maximum value of dJ/d\(lambda). When the contour is displaced, the signal is modulated at the wobbling frequency. The depth of this modulation gives the magnitude of the displacement. Subsequently, the resulting signal is applied to a feedback circuit which returns the contour line into the position such that the slit "cuts" a linear portion of the contour. A device operating on this principle is illustrated in Fig 5. There are 5 figures and 8 references, 6 of which are Soviet, 1 German and 1 English.

ASSOCIATION: Institut zemnogo magnetizma i rasprostraneniya

radiovoln AN SSSR (Institute of Earth Magnetism and

Radio-Wave Propagation of AS USSR)

SUBMITTED: March 18, 1959

Card 5/5

S/203/62/002/001/018/019 1023/1223

AUTHOR:

Ioshpa, B.A.

TITLE:

Measurement of magnetic fields in solar prominences

PERIODICAL:

Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 172-176

TEXT: The longitudinal component of the magnetic field in active prominences was measured. A block-diagram and description of the prominences was measured. A block-diagram and a crystal light solar magnetograph are given. Two plane plates, a crystal light modulator (ammonium phosphate) and a polaroid are placed before the exit slit of the spectrograph (focal length 10m). One of the plane plates is oscillated with a frequency of 15 cps. The amplitude of the oscillations and the thickness of the plate are chosen so that only one wing of the observed line falls on the exit slit. The measurements of the magnetic field in prominences was made on the line He in the second order of the diffraction grid of the spectrograph (resolving power - 180000, dispersion -0.8A/mm). The calibration was made on the absorption line Hg

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S/203/62/002/001/018/019 1023/1223

Measurement of magnetic fields ...

non-disturbed region of the solar disk. Results of measurements of four prominences recorded during July - August 1961 are given. The magnetic field in active prominences is of the order of 100-200 gauss. There are 7 figures.

ASSOCIATION:

Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovolu Akademii nauk SSSR (Institute of Terrestrial Magnetism, Ionosphere and Radiowave Propagation, Academy of Sciences USSR)

SUBMITTED:

December 5, 1961

Card 2/2

13165 5/203/62/002/003/017/021 1023/1250

3.1510

AUTHOR:

Ioshpa, B.A. and Obridko, V.N.

TITLE:

The measurement of the total magnetic field vector on the Sun by a photoelectric magnetograph

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.3, 1962, 5412544

TEXT: The method is based on solution of the equations of radiation transfer in a magnetic field in the presence of true absorption only for Stokes' parameters. The radiation is incident on a crystal optical modulator and then analyzed by a polaroid the axis of which forms an angle of 45° with the axes of the crystal. The intensity of radiation is then

 $\mathcal{J}_{X_{\sigma}} = \frac{1}{2} \left(I - 2 \sin 2 \psi \cos \delta + V \sin \delta \right) \tag{1}$

where I, Q, V - Stokes' parameters, Ψ - angle between the direction of the magnetic field and the axis of the crystal, δ - phase difference introduced by the crystal. It is shown how to calculate the Stokes parameters from the experimental data. There are 2 tables,

Card 1/2

S/203/62/002/003/017/021 I023/I250

The measurement of the total...

2 references. Most important reference: W. Unno. Publ. Astron. Soc. Japan, 1956, 8, 108.

ASSOCIATION:

Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln Akademii nauk SSSR (Institute for Terrestrial Magnetizm, Ionosphere and Radiowave Propagation, Academy of Sciences USSR)

SUPMITTED:

January 30, 1962

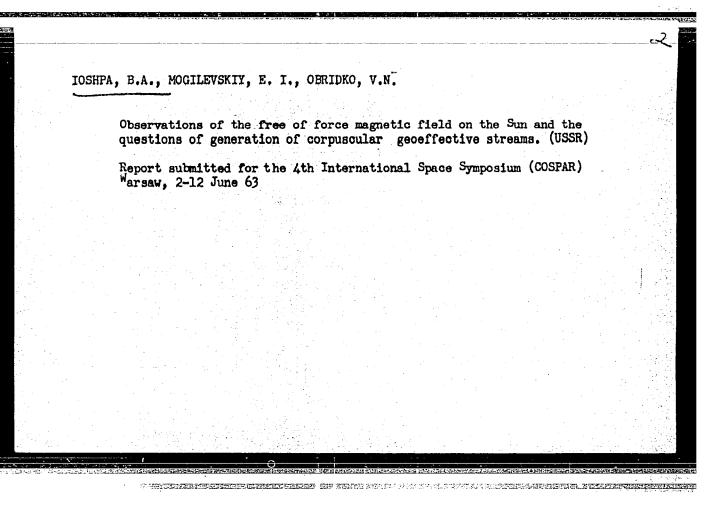
Card 2/2

ZHULIN, I.A.; IOSHPA, B.A.; MOGILEVSKIY, E.I.

Magnetic fields on the sun. George i aer. 2 no.4:585-625 J1-48 162.

(MIRA 15:10)

(Magnetic fields (Cosmin physics)) (Sun)



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APPROVED FOR RELEASE: Thursday, July 27, 2000

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CIA-RDP86-00513R00051872

L 13106-63 EWT(1)/HDS AFFTC/ASD/SSD

ACCESSION NR: AP3003420

S/0051/63/015/001/0119/0112

AUTHOR: Ioshpa, B.A.; Opridko, V.N.

TITLE: Photoelectric analysis of polarized light of

SOURCE: Optika i spektroskopiya, v.15, no.1, 1963, 119-122

TOPIC TAGS: polarized light, Stokes parameter:

ABSTRACT: A method for accurate and simultaneous measurement of the four Stokes parameters, I, V, Q and θ , of arbitrarily polarized radiation is proposed. The procedure is based on allowing the radiation to fall on an optical plate, preferably a quarter or half wavelength plate, giving rise to a phase difference ($\pi/2$) for a $\chi/4$ plate) between the ordinary and extraordinary rays; then the light goes through a polaroid positioned at 45° to the axes of the plate. By way of the plate one can use a plate cut from an ammonium phosphate or similar electro-optical crystal with a voltage applied along the z axis to make the crystal biaxial. The ac voltage is selected to make the phase difference between the two rays vary from $-\pi/2$ to $+\pi/2$. The first harmonic is taken off the crystal and this gives one set of equations; the crystal is then rotated 45° to obtain another set of equations. As a result there are obtained six equations, only four of which are need-

L 13106-63 ACCESSION NR: AP3003420 ed to find the Stokes parameters I, V, Q and O. The requisite equations are derived. The proposed photoelectric method is superior to that proposed by W.Budde (Appl. Optics, 1, 201, 1962), for it allows of determining all four Stokes parameters instead of only three. An instrument based on the described principle has been constructed and is being used to measure the spatial orientation and magnitude of the magnetic vector on the Sun by determining the Stokes parameters of the elliptically polarized radiation in solar absorption lines. The accuracy may attain 1 part in 105 or 106 depending on the sensitivity of the photomultiplier. Orig. art. has: 32 formulas and 2 figures. ASSOCIATION: none DATE ACQ: 30Jul63 SUBMITTED: 9Nov62 ENCL: 00 SUB CODE: PH, SD NO REF SOV: 002 OTHER: 005

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ACCESSION NR: AP4013134

S/0203/64/004/001/0017/0025

AUTHORS: Toshpa, B. A.; Obridko, V. N.

TITLE: Measurement of the total magnetic field vector on the sun

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 1, 1964, 17-25

TOPIC TAGS: solar magnetic field, magnetic field measurement, Stokes parameter, absorption line, sunspot

ABSTRACT: A method for measuring the magnitude and direction of the magnetic field on the sun has been developed, and the Stokes parameters, which completely describe the polarization of radiation, can be measured simultaneously. The Stokes parameters are given by the relations

$$J = \xi_1^2 + \xi_2^2, \qquad Q = \xi_1^2 - \xi_2^2, \qquad U = 2\overline{\xi_1 \xi_2 \cos(\epsilon_1 - \epsilon_2)},$$

$$V = 2\overline{\xi_1 \xi_2 \sin(\epsilon_1 - \epsilon_2)}.$$

 $V = \xi_1^2 + \xi_2^2, \qquad Q = \xi_1^2 - \xi_2^2, \qquad U = 2\overline{\xi_1}\,\xi_2\cos(\varepsilon_1 - \varepsilon_2),$ $V = 2\overline{\xi_1}\,\xi_2\sin(\varepsilon_1 - \varepsilon_2),$ where ξ_1 and ξ_2 are the amplitudes of the electric vector along two mutually perpendicular axes (and perpendicular to the line of sight) of an arbitrary coordinate system, and ε_1 - ε_2 is their phase difference. A variable voltage is

ACCESSION NR: AP4013134

applied to an electrooptical crystal of ammonium phosphate such that the phase difference varies as $\frac{1}{2}$ msin wt. A quarter-wave plate is placed in front of the crystal with the angle between the ordinary axis of the plate and the crystal axis set at 30° . Three measuring devices are situated behind the crystal: one at the fundamental modulation frequency adds the signals from both wings of the absorption line, the other two, at twice the fundamental frequency, respectively add and subtract the signals from the line wings. It is shown that the measured intensities are then given by $I_{\omega^+} = 0.55 \, Q \sin 2\Phi.$

 $I_{2\omega^2} = 0.23 \sin 60^\circ Q \cos 2\Phi,$ $I_{2\omega^2} = 0.23 \cos 60^\circ V,$

where Φ is the angle between the ordinary axis of the plate and the projection of the magnetic field vector in a plane perpendicular to the line of sight. The component of constant intensity is $I_{-}=0.5J-0.240\cos2\Phi\sin60^{\circ}$.

and the line of sight can then be found from the expressions

 $\frac{v}{J} = kf_1(H)\cos\psi,$

Card 2/3

ACCESSION NR: AP4013134

 $\frac{Q}{J} = k f_2 (H) \sin^2 \psi ,$

where the coefficient k is found by calibration of the signals. The functions $f_1(H)$ and $f_2(H)$ are shown on a graph. As an example H, I, and H_H are plotter the region of a sun spot group observed June 14, 1963. The lower limits of detectability are 150 cersteds for H_A and 7 cersteds for H_H . The authors express thanks to E. I Mogilevskiy for formulation of the problem and helpful discussions, to O. I. Vasil'yeva for help in computations, to A. N. Savranskaya and Z. D. Aleksashina for preparation of the material and adjustment of apparatus. Orig. art. has: 17 equations and 6 graphs.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery"i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphore, and Radio Wave Propaga-

SUBMITTED: 19Dec62

DATE ACQ: 02Mar64

ENCL: 00

SUB CODE: AA

NO REF SOV: 004

OTHER: 003

Card 3/3

IOSHPA, B.A.; OBRIDKO, V.N.

Measurements of the magnitude and direction of the magnetic field in the region of sunspots. Astron.zhur. . 40 no.6:1013-1015 N-D 163. (MIRA 16:12)

1. Institut zemnogo magnetizma AN SSSR.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051872

AR6034895 SOURCE CODE: UR/0269/66/000/098/0051/0051

AUTHOR: Ioshpa, B. A.; Mogilevskiy, E. I.

MUC PARE

TITLE: IZMIRAN magnetograph for determination of longitudinal component of magnetic fields of active areas

SOURCE: Ref. zh. Astronomiya, Abs. 8.51.417

REF SOURCE: Sb. Solnechn. aktivnost'. No. 2. M., Nauka, 1965, 118-130

TOPIC TAGS: solar magnetic field, spectral line, photomultiplier/IZMIRAN magnetograph

ABSTRACT: A detailed description is given of the IZMIRAN magnetograph determining the longitude all component of a field. The magnetograph is built according to an original design, which unlike the generally accepted Babcock design, uses only one photomultiplier to make measurements of the magnetic field along both wings of the spectral line. A block diagram and electron diagrams of the magnetograph, as well as formulas for calculation of the working parameters of the diagram and the calibration of the instrument are presented. (See also RZhAstr, 1963, 1.51.383). Bibliography has 16 references. [Translation of abstract]

Cord 1/1 SUB CODE: 08,09,20// UDC: 522.417

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051872

08392-67 ACC NRI SOURCE CODE: UR/0269/66/000/007/0054/0054 AR6033094 AUTHOR: Ioshpa, B. A.; Obridko, V. N. TITLE: Full vector photoelectric magnetograph SOURCE: Ref. zh. Astronomiya, Abs. 7.51.381 REF SOURCE: Sb. Solnechn. aktivnost', No. 2, M., Nauka, 1965, 131-148 TOPIC TAGS: magnetic field, solar magnetic field, magnetograph, solar magnetograph, photoelectric magnetograph, magnetic vector, magnetic field measurement ABSTRACT: A description is given of the solar magnetograph IZMIRAN. qualitative description is presented of the method of simulatneous registration of all the components of the magnetic vector. Procedures for checking the operation of the circuit are described and evaluations are made of possible errors (several %). A presentation is made of the theory and methods used in calibrating observations, and formulas are cited which relate measured Stokes parameters to the magnetic field parameters (accuracy 10-20%). Recording accuracy at a voltage potential of 6.2 kv on the ADP is AH. -5-6. gs. Card 1/2 UDC: 522.56

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051872

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AUTHORS: Mogilevskiy, E. I.; Ioshpa, B. A.; Zhulin, I. A.

TITLE: Device for measuring weak local magnetic fields in the solar atmosphere. Class 42. No. 168475

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 70

TOPIC TAGS: solar magnetic field, solar atmosphere

ABSTRACT: This Author Certificate presents a device for measuring weak local magnetic fields in the solar atmosphere, containing a tower telescope, spectrograph, and magnetograph. To investigate simultaneously the magnetic fields at two levels of the solar atmosphere, to measure the variable component of the modulated light, and to increase the accuracy of determining the position of the investigated region on the sun, a double-channel coupled magnetograph is used. Each channel contains one photomultiplier and an additional modulation circuit with optical-electromechanical feed back. Additional mirrors are used in the spectrograph. To utilize the light reflected from the polished jaws of the input slit of the spectrograph, a monochromatic guide is used.

Card 1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051872

L 63000-65 EWT(1)/EMG(v)/EEC-4 ACCESSION NR: AP5020675

UR/0033/65/042/004/0754/0756 523.752

AUTHOR: Ioshpa, B.

On the problem of the heating of prominences

SOURCE: Astronomicheskiy zhurnal, v. 42, no. 4, 1965, 754-756

TOPIC TAGS: prominence, solar corona, nonlinear differential equation, heat con-

ductivity, plasma temperature, magnetic field

ABSTRACT: The problem of the heating of prominences in the solar corona is discussed. The nonlinear equation of heat conductivity in plasma does not have an exact solution. Solutions are obtained by using approximations. The author discusses the problem of temporary changes of temperature in prominences and solves the problem, taking into consideration the nonlinear dependence of the coefficient of thermal conductivity upon the plasma temperature. The thermal conductivity equation is taken from Landau and Lifshits' textbook Mekhanika sploshnykh sred (Machanics of Solid Media) and transformed from a partial differential equation to an ordinary differential equation. This equation is solved with the aid of several arbitrary assumptions and the introduction of a function of a dimensionless param-

I 63000-65 ACCESSION NR: AP5020675 eter. This function is expanded into series and represented graphically. It represents the propagation of the thermal wave into the prominence. The time required for beating a prominence consisting of filaments varies from 25 to 2500 sec, depending upon the size of the prominence. Prominences of long duration can exist if they have a magnetic field which impedes heating. Orig. art. has: 1 figure and 10 formulas. [EG] ASSOCIATION: Institut zemnogo magnetizma ionosfery i rasprostraneniya radiovoln Akademii nauk SSSR (Institute of Terrestrial Magnetism, Ionosphere, and Propagation of Radio Waves, Academy of Sciences SSSR) SUBMITTED: 16Nov64 ENCL: 00 SUB CODE: AA NO REF SOV: 005 OTHER: 004 ATD PRESS: 4066 2/2

ACC NR. AR6028758

SOURCE CODE: UR/0269/66/000/006/0055/0055

AUTHOR: Mogilevskiy, E. I.; Zhulin, I. A.; Ioshpa, B. A.

TITLE: The IZMIRAN solar tower installation

SOURCE: Ref. zh. Astronomiya, Abs. 6.51.434

REF SOURCE: Sb. Solnechn. aktivnost'. No. 2. M., Nauka, 1965, 108-117

TOPIC TAGS: solar telescope, solar spectrum, spectrographic analysis

TRANSLATION: The ATB-3 IZMIRAN solar tower is described. The mirrors of the coelostat group (D=440 mm) are mounted on the upper end of a special tube which houses the entire optical assembly. The clock mechanism is controlled by a 3G-11 sound generator through a power amplifier. The main mirror of the telescope has the following parameters: D=375 mm, F=17 m; the Cassegrainian reflection is P=27 m. The telescope is equipped with a complex horizontal spectral assembly which operates as a spectrograph, a spectrometer, a spectroheliograph, and a spectrohelioscope. The spectrograph uses mirrors with P=10 m; the GOI diffraction grating has 600 lines/mm. The

halfwidth of the instrumental profile in the IVth-order is 0.026 A (this is larger than the theoretical value by a factor of 1.4). The installation is equipped with a monochromatic guide. For visual and photographic observations in the Ho line (an IPF by

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ACC NR: AR6025347

SOURCE CODE: UR/0269/66/000/004/0058/0059

AUTHOR: Ioshpa, B.A.; Obridko, V. N.

36

TITLE: On the measurement of ray velocities on a full vector magnetograph

SOURCE: Ref. zh. Astronomiya, Abs. 4.51.456

REF SOURCE: Solnechnyye dannyye, no. 5, 1965, 62-65

TOPIC TAGS: naturally, Sun, sun, magnetic field, amor magnetometer, sola- radiotion

ABSTRACT: Errors in the determination of ray velocities on a magnetograph measuring the full magnetic vector of the magnetic field of the Sun'are discussed. Magnetic field measurement with the magnetograph is usually made on two wings of the magneto-active line. The compensator works so as to equalize intensities at the portions of both wings of the line on which measurements are made. Usually, this corresponds to a symmetrical location of the line relative to the input slits of the magnetograph. During measurement of the full vector, an ancillary plate is placed in front of the analyzer of the circularly polarized light; the plate contributes approximately a $\pi/2$ phase difference between the ordinary and the extraordinary ray. Thus the circularly polarized σ — component radiation is transformed by the plate into a linearly polarized one, with the direction of polarization of one component in the polaroid plane, and that of the other — perpendicular to it. Therefore, in the presence of the longitudinal field component the radiation intensity reaching the photomultiplier cathode from symmetri-

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L 08926-67 ACC NR: AR6025347 cally located (with respect to the center of the line) portions, will be different, with the maximum difference occuring with the plate located coaxially with the ADP crystal. This leads to a shift of the line with respect to the symmetric location, and to a false signal on the ray velocity recorder(which is a maximum in the absence of the ADP crystal). If the crystal is present, and is thus bringing phase shifts changing from +11/2 to -11/2, the time average of the intensity differences which are symmetrical relative to the center of the line of portions - decreases; however, the error may still be large. An increase of the crystal voltage decreases the error, which can be reduced to zero because the difference of intensities at δ_{cr} 702 has a sign opposite to that at $\delta_{\rm cr} < \pi/2$. Calculation shows that the error becomes zero at 6.7 ky on the crystal, Estimates of possible errors on the magnetograph of full vector IZMIRAN are made. Maximumerror for the operation of the crystal at 6.5 kv corresponds to a signal under 300 m/sec for a field of 1000 gs. At 6.5 kv the error is practically absent. Translation of abstract]. SUB CODE: Card 2/2 egk

ACC NRt AR6035297

SOURCE CODE: UR/0269/66/000/009/0053/0053

AUTHOR: Ioshpa, B. A.; Obridko, V. N.

TITLE: Measurement of the magnetic field in solar flares on 14 June 1963

SOURCE: Ref. kh. Astronomiya, Abs. 9.51.447

REF SOURCE: Solnechnyye-dannyye, no. 11, 1965(1966), 46-47

TOPIC TAGS: magnetic field, solar flare, photosphere, sunspot

ABSTRACT: The structure of the magnetic field in the photosphere was determined in the region of the solar flare on 14 June 1963 in a disintegrating group of sunspots (2 recordings) with the aid of the complete vector magnetograph of the Institute of Terrestrial Magnetism and Radio Wave Propagation, Academy of Sciences SSSR (IZMIRAN). Filament flares are situated in parallel to the neutral line of the longitudinal field at some distance from it. In the filaments, the maxima of longitudinal field amounts to 40 gs. Between the filaments, the longitudinal field is practically equal to zero, and the transverse field does not exceed the low limits of a measurable field (70 gs), but in filaments it is slightly higher. Azimuths of the transverse field in various filament flares differ by almost 90°. [Translation of abstract] [NT]

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