15785A 1

SAVARENSKIY, Ye.F., prof.

.

.

Chilean earthquakes. Priroda 49 no.9:76-86 5 '60. (MIRA 13:10)

1. Institut fiziki Zemli im. O.Yu.Shmidta AN SSSR, Moskva. (Chile---Earthquakes)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3"

CIA-RDP86-00513R001447310008-3

S/169/62/000/009/008/120 D228/D307

AUTHORS: Savarenskiy, Ye. F.

TITLE: Earthquakes in the USSR. Editorial abstract

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 19, abstract 9A124K ((Sovet po seysmol. AN SSSR), M., AN SSSR, 1961, 412 p., illust., maps, 3 r. 13 k.)

TEXT: The monograph is the first attempt to generalize from a common attitude both microseismic and instrumental data on earthquakes on the USSR's territory. The monograph consists of two parts. Part One -- "Equipment, methods of processing, and classification of the USSR's earthquakes" -- contains the following chapters: Ch. 1 -- "History of the development of instrumental seismic observations in the USSR" -- D. P. Kirnos, D. A. Kharin, N. V. Shebalin; Ch. 2 -- "Methods of processing instrumental seismic observations" -- S. I. Masarskiy, A. A. Treskov; Ch. 3 -- "Magnitude of earthquakes".-- S. L. Solov'yev; Ch. 4 -- "Determining the force (intensity) of earthquakes" -- S. V. Medvedev; Ch. 5 -- "Force, magnitude, Card 1/3

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

S/169/62/000/009/008/120

D228/D307

Earthquakes in the USSR ...

and depth of eathquake foci" -- N. V. Shebalin; Ch. 6 -- "Trial instrumental study of local earthquakes" -- Ye. A. Koridalin, S. I. Masarskiy, I. L. Nersesov, D. A. Kharin. Part Two -- "Regional seismicity" -- consists of 20 chapters: Ch. 7 -- "General review of seismicity in the USSR" -- S. L. Solov'yev; Ch. 8 -- "Seismicity of the Carpathian Zone" -- S. V. Yevseyev, A. Ya. Levitskaya, Ye. A. Sagalova; Ch. 9 -- "Seismicity of the Crimea" -- A. Ya. Levitskaya; Ch. 10 -- "Seismicity of the Caucasus" -- Ye. I. Byus, T. M. Lebedeva, A. Ya. Levitskaya, A. D. Tskhakaya; Ch. 11 -- "Seismicity of the region Sochi-Krasnaya Polyana" -- A. Z. Kats, D. N. Rustanovich; Ch. 12 -- "Seismicity of the Dzhavakhetskoye (Akhalkalakskoye) Highland" -- A. D. Tskhakaya; Ch. 13 -- "Seismicity of the Shemakhinskaya Zone" -- A. M. Bagdasarova, N. V. Kuz'mina, V. S. Nenilina; Ch. 14 -- "Seismicity of the Kopetdagskaya Zone" -- N.A. Linden, Ye. F. Savarenskiy; Ch. 15 -- "Seismicity of Western Turkmeniya" -- S. I. Masarskiy; Ch. 16 -- "Seismicity of the. Ashkhabadskaya Zone" -- S. V. Puchkov; Ch. 17 -- "Central Asian earthquakes" -- N. A. Vvedenskaya; Ch. 18 -- "Seismicity of the Garmskaya Zone" -- A. M. Bagdasarova, N. V. Kuz'mina; Ch. 19 --

Card 2/3

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

Earthquakes in the USSR ...

S/169/62/000/009/008/120 D228/D307

"Seismicity of the Ferganskaya Valley and Tashkent" -- Ye. M. Butovskaya, A. T. Kon'kov; Ch. 20 -- "Seismicity of Northern Tyan'-Shan'" -- A. A. Fogel', I. V. Gorbunova; Ch. 21 -- "Earthquakes of the Altaye-Sayanskaya Zone" -- R. I. Khovanova; Ch. 22 -- "Seismici--- "Earthquakes of the Far Eastern Zone " -- N. A. Linden; Ch. 23 -- "Earthquakes of the Far Eastern Zone " -- N. A. Linden; Ch. 24 R. Z. Tarakanov; Ch. 25 -- "Earthquakes of the Urals" -- A. Ya. Levitskaya; Ch. 26 -- "Seismicity of Soviet Arctica" -- N. A. Linden. A list of references (about 600) is given. (Abstracter's note:

Card 3/3

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3"

CIA-RDP86-00513R001447310008-3

27	0	20	
24	-	UU.	

S/188/61/000/001/001/009 B108/B209

3,9300 (1019,1109) 9,9865 AUTHORS: Vasil'yeva, T Savarenskiy,

Vasil'yeva, T. L., Proskuryakova, T. A., Rykunov, L. N., Savarenskiy, Ye. F.

TITLE: The influence of the relief of the Earth's surface upon the propagation of microseisms

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 3, fizika, astronomiya, no. 1, 1961, 3-12

TEXT: An attempt has been made to estimate the influence of the relief of the Earth's surface upon the propagation of microseisms. This is necessary for the exploration of the upper layers of the Earth's crust, for the choice of a net of research stations, etc. In the present study, an ultrasonic model was used. Between 1956 and 1959, about forty microseismic "storms" were observed in the USSR and in Europe. The storm observed on February 1-3, 1958, is subjected to a close examination. The epicenter of this storm was at 15°00' east longitude and 69°20' north latitude, i.e., along the north-western shore of Scandinavia. For comparison of the seismic intensity, the quantity $(A/T)^2$ was determined at Card 1/4

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

<u>57188/61/000/001/001/009</u> The influence of the relief ... B108/B209 various stations (A - amplitude, T - period). The following relation holds for the energy of the seismic focus: $\ln f + \ln E - k\Delta = \ln ((A/T)^2 \Delta f)$ (1), where Δ denotes the distance of the station from the epicenter, k the absorption coefficient, f a factor accounting for the type of focus, for the peculiarities of the propagation path, and for the particulars of the recording station. k is practically constant, and so is f when epicenter and station are axially symmetric. For stations equidistant from the epicenter, the ratio A/T may be determined from an $ln\{(A/T)^{-}\Delta\}$ - versus - Δ diagram. In the present study, the distance between epicenter and Ashkhabad (660 km) was taken as a standard, Δ_{0} . When constructing models for studying the influence of the Earth's relief upon seismic intensity, the authors assumed that: a) seismic waves are superficial Rayleigh surface waves, b) the medium is continuous and homogeneous along the way of propagation. The models were made of 3 mm thick plexiglass with the relief engraved on the sides. A stack of 10 ammonium dihydrophosphate layers (2.2.2 cm) was used as a source of elastic waves. The period of emission was $T = 17.4 \cdot 10^{-6}$ sec. BaTiO₃ plates (2 mm thick) glued into the Card 2/4

APPROVED FOR RELEASE: 07/13/2001

21206

S/188/61/000/001/001/009 B108/B209

The influence of the relief ...

model served as receivers. The scale of the model was 1 : 1,000,000. Procedure was as follows: 1) measurement of the amplitude of Rayleigh waves for a smooth surface, 2) cutting of the relief corresponding to the natural one, and measurement of the amplitude, 3) calculation of the ratio A/A of the amplitudes as measured by the main and control receivers for a smooth (\widetilde{A}_s) and a rough (\widetilde{A}_r) surface, 4) calculation of $\widetilde{A}_r/\widetilde{A}_s$ which is a measure for the influence of the relief. This quantity was then divided by the same quantity for the distance between epicenter and Ashkhabad. For a number of stations ("Warsaw", "Moscow", "Makhachkala"), agreement between observation in nature and model experiment was good; for other stations, however, a discrepancy was found ("Goris", "Triest", "Semipalatinsk"). This discrepancy was subjected to further examination for the line epicenter - Moscow - Goris because, according to the results, the source of trouble lies between Moscow and Goris: namely, the Caucasus Mountains, i.e., the Tauro-Caucasian geosyncline with mesocenozoic sediments of a depth of 8-10 km. In the model, this was realized by cutting out parts from the sides of a plexiglass plate (native rock) and filling this profile with a paraffin-polyethylene mixture (representing the

Card 3/4

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

F N NO

21206 S/188/61/000/001/001/009 B108/B209

The influence of the relief ...

sediments). With such a model, agreement was satisfactory for the line Moscow - Goris, too, particularly when discontinuities of the medium on the natural line are taken into consideration. A similar influence is exerted by the Alps on the line epicenter - Triest, and by the Ural Mountains on the line epicenter - Semipalatinsk. These studies showed that not only the surface of the Earth affects the intensity of microseismic waves, but also any change in the medium through which these waves are passing. There are 6 figures, 3 tables, and 9 references: 5 Soviet-bloc and 4 non-Sovietbloc. The reference to the English-language publication reads as follows: Iyer H. M., Geoph. Journ., <u>1</u>, no. 1, 1958.

ASSOCIATION: Kafedra fiziki zemnoy kory (Department of the Physics of the Earth's Crust)

SUBMITTED: March 5, 1960

Card 4/4

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

23456 S/019/61/000/001/001/008 D226/D306

3,9360 (1019,1109,1327) AUTHORS: Validner, N.G., Savarenskiy, Ye.F.

TITLE: On the nature of the Lg₁ - phase and its propagation in North East Asia

PERIODICAL: Akademiya nauk SSSR. Seriya geofizicheskaya. Izvestiya, no. 1. 1961, 3 - 24

TEXT: Fifty-four earthquakes occurring during 1957-8 in the region Pamir Mongolia - Kurile arc - Aleutians, in the magnitude range $4\frac{1}{2}$ 7, are analyzed in detail for the phases Rg and Lg arriving at a single station, Tiksi ($72^{\circ}N$, $128^{\circ}E$). The arrivals fall into two groups, one with and one without an appreciable fraction of oceanic path. The wholly continental paths give strong clear arrivals of ooth Lg and Rg with fairly short periods: 2 - 10 sec. The collectives deduced are Lg₁ - 3.53 Km/s: Lg₂ - 3.31 Km/s: Rg - 3.05 how all hour-group from epicenters in the Aleutians gave rather

Card 1/8

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

23456 S/049/61/000/001/001/008 D226/D306

On the nature of the avai

weak long period (18/24 sec) surface arrivals, probably due to having passed through the deepest (H >3.5 Km) part of the Bering Straits, where the graphitic layer must be interrupted. The main group with interrupted paths, e.g. those from the Kurile arc traversing the sea of Okhotsk. gave $Lg_1 - 3.50 \text{ km/s}$: $Lg_2 - 3.29 \text{ km/s}$ and Rg 3.06 km/s. The conclusion from this part of the paper is that the granitic layer is complete between Mongolia and Tiksi but is interrupted between the Aleutian-Kurile-Japan sector and Tiksi. There are one map, 5 examples of seismograms and a table of 54 satthquakes giving for each the time of origin, the epicentral co-ordinates correct to about 0.5° , the epicentral distance used, the phases observed, direction of first motion, travel time and deduced velocity of each observed phase and its principal period. The authors then discuss extensively the theory of the properties of Love waves, proceeding from the case of a single layer on a rigid substrate and extending to the case of 2 alastic layers on an elastic sub-strate. This theory is based on the multiple-reflection of plane SH-waves. Then some results are calculated for group-velocity

Card 2/8

APPROVED FOR RELEASE: 07/13/2001



APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

S/049761/000/001/001/008 D226/D306

On the nature of the ...

dition that $\alpha^2 C/\alpha T^2$ must be large at $T = T_m$. Finally, the authors use a method of J. Dorman (Ref. 7: Numerical solution for Love wave dispersion on a half-space with double surface layer. Geophys. 24, Nol, 1959) to estimate from their results and those of other authors including M. Bath (Ref. 9: The elastic waves Lg and Rg along Eurasiatic paths. Ark. geofys. B.2, No. 13, 1954), F. Press, T. Ewing (Ref. 10: Two slow surface waves across North America. Bull. Seism. Soc. Amer., 43, No. 3, 1952) the probable thickness of the crust in this region and also the ratio h_1/H . These results are illustrated in Figs. 12 and 13. The comment on Fig. 12 is that the scatter horizontally may be accounted for by errors in reading T from seismograms. The comment on Fig. 13 is that Lg may either be a first or second mode of Love wave. The hypothesis that it is a Love wave at all is claimed to be "satisfactory". There are 1 table, 13 figures and 16 references: 9 Soviet-bloc and 7 non-Soviet-bloc. The references to the four most recent English-language publications read as follows: I. Tolstoy, Dispersive properties of a fluid

Card 4/8

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

23456 S/049/61/000/001/008 D226/D306 layer overlying a semi-infinite elastic solid. Bull. Seism. Soc. Amer. 44, No. 3, 1954; J. Dorman, Numerical solution for Love wave disperion on a half space with double surface layer. Geophys. 24, No. 1, 1959; M. Båth, The elastic waves Lg and Rg along Eurasiatic paths. Ark. gedys. B2, No. 13, 1954; S. Oliver, M. Ewing, M. Press, Crustal structure of the antic regions from the Lg phase. Bull. Geol. Soc. Amer., 66, No. 9, 1955. ASSOCIATION: Akademiya nauk SSSR, institute fiziki zemli tsentral' naya seysmicheskaya stantsiya, Moskva (Academy of Sciences USSR, Institute of Physics of the Earth, Central Seismic Station, Moscow) SUEMITTED: May 3, 1960

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

事業は!

3/619/01/000/017/001/002 D233/D302

AUTHORS: Medvedev, S.V., Bune, V.I., Vvedenskaya, N.A., Gayskiy, V.N. Kirillova, I.V., Nersesov, I.L., Riznichenko, Yu.V., Savarenskiy, E.F. and Sorskiy, A.A. Instructions for regional seismological summaries

TITE

SOURCE:

SAVARENSKIY, E.F.

Akademiya nauk SSSR. Institut fiziki Zemli. Trudy no. 17 (184) Moscow 1961. Voprosy inchemernoy seysmologii no. 5, 128-145

TEXT: These instructions were confirmed by the director of the Institute of Geophysics AN SSSR, M.A. Sadovskiy, on February 27, 1961. Their objective is clearly to secure a uniform system of recording all seismological data pertinent to building construc-tion, obtained in future in the USSR. The instructions are divi-ded into six parts, containing 64 numbered articles, the follow-ing being an indication of the scope of each part: 1) General

Card 1/3

:

美好生美国 36 不能

APPROVED FOR RELEASE: 07/13/2001

THE PARTY OF THE PARTY IN THE

Instructions for regional ----

5/213/01/000/017/001/002

Setting of the definer the Sar the state of the york. Le advantage of the state of the Far the state of the york. Le advantage of the state of the the state of the york. Le advantage of the state of the state of the york. Le advantage of the state of the state of the york of the of mode of the whole earth's surface. 2) Horru-mental data on earthquakes. This is defined as data obtained now free both fixed and expeditionary stations as opposed to the study of past earthquakes. Mathods of classification by magnitude, presision of epicentral location and frequency of recurrence are defined. 3) Engineering seismology. Under this heading is defined the format of an atlas of strong earthquake with isoseis-mals. This should be on a scale of it 1,000,000. It is also hered to include data on the energy density distribution of the frequency spectra. 4) Scisnegeological data. Since scae regulari-ty is discernible in the distribution of shocks, a "seismotek-tonic" map should be a possibility. This would be particularly helpful in regions where seismological data up to this time are Card 2/3

Card 2/5

APPROVED FOR RELEASE: 07/13/2001



APPROVED FOR RELEASE: 07/13/2001

18**....** 18

	S/049/61/000/005/007/013 D207/D306	
AUTHORS:	Savarenskiy, Ye. F., and Shechkov, B. N.	
TITLE:	Structure of the earth's crust in Siberia and the Soviet Far East determined from dispersion of Love and Rayleigh waves	
PERIODICAL:	Akademiya nauk SSSR. Izvestiya. Seriya geofiziches- kaya, no. 5, 1961, 700-704	
and Seismic S at Simferopol mined the mea from 42 seism stern Pacific and Kyakhta. parately for	paper was presented at an augmented seminar of the logii i seysmicheskoy sluzhby (Division of Seismology Service) which dealt with surface waves and was held l' between October 1 - 5, 1960. The authors deter- an crust thickness in Siberia and the Soviet Far East mograms of recent (1954-59) earthquakes in the We- c, recorded at Sverdlovsk, Semipalatinsk, Irkutsk For each earthquake group velocities were found se- Love and Rayleigh waves. These experimental group ere then compared with theoretical values published	12

A POST

Structure of the earth's ...

S/049/61/000/005/007/013 D207/D306

by J. Dorman (Ref. 1: Numerical Solutions for Love Wave Dispersion on a Half-Space with a Double Surface Layer. Geophys., 24 (1959)) and by R. Stoneley (Ref. 2: Rayleigh Waves in a Medium with Two Surface Layers. Month. Not. Roy. Astr. Soc. Geophys. Suppl., 7, no. 2 (1955)). A two-layer of the crust was assumed in calculations. The mean crust thickness in Siberia and the Soviet Far East, determined from dispersion of Love waves, varied from 25 to 35 km. The dispersion of Rayleigh waves indicated a thickness of the order of 35 km. The greater crust thickness deduced from Rayleigh waves may be due to the stronger dispersion of these waves over oceanic paths. The results indicated that the granite layer of Siberia and the Soviet Far East was 1,5 - 2 times thicker than the basalt layer. The total mean thickness of the crust in middle latitudes of Siberia and the Soviet Far East is probably somewhat smaller than the thickness in the northern and southern parts of Siberia, but this requires verification. There are 3 figures, 2 tables and 2 non-Soviet-bloc references. The references to the English-language publications read as follows: J. Dorman, Numerical solutions for Love wave dispersion on a half-space with a

Card 2/3

APPROVED FOR RELEASE: 07/13/2001

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3 and stands states of the side and the second states are a second state of the second states are a second states

•

et en Herre

115 3664

Structure of	the earth's	S/049/61/000 D207/D306	0/005/007/013	
waves in a me	e layer. Geophys., 24, dium with two surface l . Suppl.,7, no. 2, 1955	ayers. Month. No	ey, Rayleigh ot. Roy. Astr.	, , ,
ASSOCIATION:	Akademiya nauk SSSR, I tute of Physics of the	nstitut fiziki : Earth, AS USSR	zemli (Insti-)	
SUBMITTED:	December 9, 1960			
				V
Card 3/3				

CIA-RDP86-00513R001447310008-3

用化量标量

X

29580

S=049761=000700670067014 020770306

9.9865 (1019, 1327)

Bulin, N.K. and Savarenskiy, Ye. F.

A. URUSS

On short-period seismic surface waves

TIT: E

WERTODICAL Akademiy

Akademiyå nauk SSSR. Izvestiya. Serrya geofizicheskaya, no. 6, 1961, 855-863

TEXT The authors discuss seismic surface waves, with periods of 0.2-2.5 sec and smalh group velocities of 280-800 m/sec. produced by explosions (1-200 km distant) and earthquakes (70-250 km distant). The explosions (1-200 km distant) and earthquakes (70-250 km distant). The experimental data were obtained by the Sredneaziatskaya ekspeditsiya vsesoyuznogo nauchno-issledovatel skogo instituta gidrogeologii i invsesoyuznogo nauchno-issledovatel skogo instituta gidrogeologii i invsesor geologii (Central Asia Expedition of the All-Union Scientific Hydrogeology and Geological Engineering) and by the Hydrogeology and Geological Engineering) and by the Hydrodekskaya geofizicheskaya ekspeditsiya (Bakhardoksk Geophysical Hakhardokskaya geofizicheskaya ekspeditsiya (Bakhardoksk Geophysical Expedition). Each instrument used consisted of a BST MK (VEGIK) reverver, a $\Gamma K = 6$ (GK-6) or $\Gamma B = 4$ (GB-4) galvanometer and a PC = 2 (RS-2) recorder. The frequency response of the instruments was peaked at

Card L.J.

APPROVED FOR RELEASE: 07/13/2001

出版推荐

29580 5 049/61/000/006/006/014 0207/0306

On short-period ...

TARA MEMORAL SEAL FIRMER STREAM STREAM THE STREAM STREAM

provinds of 0.4-1.0 sec (GK=6 galvanometer) of 0.05-1.0 sec (GB-4 galvano= metril and amplification ranged from $5 \ge 10^4$ to $1 \ge 10^4$. The best setsmegrams were obtained from explosions in the Tedzhen and Mary region and from earthquakes in the Ashkhabad region; all the work was carried out in the Turkmen Republic. An analysis of the seismograms indicated that surface waves with these short periods were of the Rayleigh type and that they originated in fairly loose topmost sedimentary layers. only 10-20 m thick. Acknowledgements are made to Yu. A. Katsnel son for his help in calculations, and to Ye. K. Fomenko and N.G. Afanas yrva for supplying the data on explosions. There are 5 figures and 16 references. 9 Soviet bloc and 7 non-Soviet-bloc. The four most recent references to English language publications read as follows. J. Oliver, (custal structure and surface waves dispersion, p.4. Atlantic and Pacific accar Basins, M. Ewing, Press, Bull. Geol. Soc. Amer., 66 (1955): M. Wing, F. Press. An investigation of mantle Raleigh waves. Bull. Seism. Sots Ameros 44, nos 2 (1954); M.H. Dobrin, Dispersion in seismic sura face waves Geophyse, 16, (1951) J. Oliver, M. Ewing, The effect of

2 as # 2 3

(the star compare and co.		-	580 - 000 - 006 - 006 / 014 6	
shelte tal ist Shelser, Sara	dementary layers Americ 48, no. 4	- on continental surfa - 1958).	ice waves. Bull.	
4850C147105	geologii i in Research Insti Engineering)	authnesissledowatel sk denernoy geologii (Al ture of Hydrekeology Akademiya nauk SSSR iences, USSR (Institu	1-Union Scientific and Geological Institut fiziki Zeml	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SUBMITTED	November 14, 1	960		
				X
Card 5 3				

CRIMENS STATISTICS SCHEME THE CONTRACTOR

* 新潮(

SAVARENSKIY, Ye.F.

Observations on long-period waves of the Chile earthquake of 1960. Izv. AN SSSR. Ser. geofiz. no.8:1132-1140 Ag '61. (MIRA 14:7)

1. Akademiya nauk SSSR, Institut fiziki Zemli. (Seismic waves)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3 HERRICH SAVARENSKIY, Ye.F. Preface. Biul. Sov. po seism. no.9:3-4 '61. (MRA 14:4) (Tidal waves)



CIA-RDP86-00513R001447310008-3

· SAVARENSKY, TE F.

林石图建筑的制造和建筑和新石板和中中的新石板工作中中中的中华。

Z/023/62/000/001/002/004 D006/D102

AUTHORS: Karník, V., Kondorskaya, N. V., <u>Riznichenko, Yu.V.</u>, <u>Savarensky</u>, E.F., Solovyev, S.L., Shebalin, N. V., Vaněk, J., and Zátopek, A.

TITLE: Standardization of the earthquake magnitude scale

PERIODICAL: Studia geophysica et geodaetica, no. 1, 1962, 41-47

TEXT: The paper presents a proposal for standard methods of magnitude determination of both shallow and deep earthquakes, and describes the practical application of the suggested magnitude scale as agreed upon by Soviet and Czechoslovak seismologists at meetings held in Prague on December 7-14, 1960 and in early 1961. The proposal is based on the following postulates: (1) General acceptance of a unified _ formula for the definition of the earthquake magnitude M

$$M = \log (A/T)_{A} + \mathbf{6}(\Delta)$$
(1)

where A is the maximum ground amplitude of the wave considered (in microns), T is the corresponding period in seconds, and $\mathcal{O}(\Delta)$ is the calibrating function expressing the relation between A/T and the epicentral distance Δ , which is

Card 1/3

APPROVED FOR RELEASE: 07/13/2001

z/023/62/000/001/002/004 D006/D102

Standardization of the

different for different wave types; (2) General application of standard calibrating functions $\mathcal{G}(\Delta)$ for body and surface waves as calculated according to the methods recommended by the proponents; (3) Determination of a representative M for each earthquake, to be represented by a simple arithmetic mean of magnitudes of a single wave type as established according to the proposed standard method at many stations. The determination should be done by a proposed international center. As of January 1, 1962, the magnitude M will be determined according to the proposed standard method at all Czechoslovak and Soviet seismological stations. J. Vanek and J. Stelzner are the personalities mentioned. There are 2 tables and 20 references: 8 Soviet-bloc and 12 non-Soviet-bloc. The references to the four most recent English-language publications read as follows: J. Vanek, J. Stelzner, The problem of magnitude calibrating functions for body waves, Annali di Geofisica, 13, 1960, 393 E. Bisztricsany, On the determination of earthquake magnitudes, Annales Univers. Sci., Budapest, Sect. Geolog., 2, 1959, 39; T. Nagamune, A. Seki, Determination of earthquake magnitude from surface waves for Matsushiro seismological observatory and the relation between magnitude and energy. Geophys. Mag., 28, (1958), 303; Z. Droste, S. Gibowicz, Determination of the magnitude of distant earthquakes at the Silesian geophysical station in Raciborz. Acta geophys. polon,,

Card 2/3

APPROVED FOR RELEASE: 07/13/2001

16397

CIA-RDP86-00513R001447310008-3

YE.F. SAVARE SKIY 4 S/049/62/000/002/001/005 D218/D301 Vaněk, J., Zátopek, A., Kárnik, V., Kondorskava, H.V. Riznichenko, Yu.V., <u>Savarenskiy</u>, Ye.F., Solov'yev, S.L. and Shebalin, N.V. AUTHORS : TITLE: Standardization of the magnitude scale Alademiya nauk SSSR. Izvestiya. Seriya geofiziches-kaya, no. 2, 1962, 155-158 PERIODICAL: TEXT: It is pointed out that various magnitude scales are used at the present time and that their main disadvantage is that they provide different magnitudes for a given earthquake. This is because in many cases the methods used to calculate the magnitude are not clearly defined and are inadequately described. A special conference of Soviet and Gzechoslovak seismologists was convened in Prague on December 7-14, 1960, to deal with this problem. The aim of the present paper is to give an account of the main results of the Prague meeting and to suggest a standard method for determining Card 1/4 شدق

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001




















14816 41254



INTERNET DIRECTOR

A LAZING IN

A HISSO

Mechanism of the focuses of certain Carpathian earthquakes. Biul. Sov. po seism. no.15:146-167 '63. (MIRA 17:4)



		111.2 T
	1.23447-65 EWT(1)/EWA(h) Pob GW	
	ACCESSION NR: AP4049241. 8/0049/64/000/010/1472/1478	
	AUTHOR: Savarenskiy, Ye. F.; Fedorov, S.A.; Dzhafarov, R.D.; Ry*kunov, L.N.; Lursmanashvill, O.V.	
	TITLE: A method for modeling surface waves	
	SOURCE: AN SSSR. Izvestiya. Seriya geofizioheskaya, no. 10, 1964, 1472-1478	
-	TOPIC TAGS: <u>seismology</u> , seismic modeling, seismic wave, earth crust, seismic sur- face wave, Rayleigh seismic wave	
•	ABSTRACT: One of the important unsolved problems in seismology is the character of the dispersion of surface waves in a layer of variable thickness and the nature of pseudo- arrivals of short-period surface waves (L_g , L_i , etc.). However, there is every basis for assuming that problems of this type can be solved by modeling. Accordingly, the	
	for assuming that problems of this type can be solved by indefinite indefinite and the solved by indefinite indefinite and the regulated the regulation for the modeling of surface wave phenomena. The applicability of different types of models is evaluated. Broad-band oscillation sources and receivers are described, together with a simple method for determining the frequency characteristics of plezoelectric converters on the basis of the reciprocity theorem. Using a single-layer two-dimensional model of the earth's crust, the authors show the influence of the source spectrum on the formation of surface waves. For the first time it has been	
	Cord 1/2	
		Port Hinse

L 23447-65

ACCESSION NR: AP4049241

possible to obtain the left (high-frequency) branch of the dispersion curve for Rayleigh wave group velocities. The range of periods investigated was 1-100 seconds; in this range attenuation is $0.01-0.0003 \text{ km}^{-1}$. The similarity test is satisfied by metal twodimensional models in the corresponding range 1-100 10^{-6} sec having an attenuation of $0.4 \cdot 10^{-7} - 0.6 \cdot 10^{-7} \text{ km}^{-1}$. Such a small attenuation makes it possible to work on long profiles without increasing the intensity of the source. Depending on the character of the formulated problem it is necessary to select different forms of metal two-dimensional models; this problem is discussed for horizontally stratified and nonhorizontal complex strata. "The authors wish to thank V. B. Glasko and Ya. Sh. Granit for valuable assistance in constructing the theoretical dispersion curves for Rayleigh waves." Orig. art. has: 3 formulas and 7 figures.

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

SUBMITTED:	04May64	ENCL: 00	SUB CODE:	ES	
NO REF SOV:	019	OTHER: 006			
Card 2/2					

APPROVED FOR RELEASE: 07/13/2001

aist.			
	<u>L 63061-65 EWT(1)/EWA(h) Peb GW</u> ACCESSION NR: AP5017040 AUTHORS: <u>Savarenskiy, Ye. F</u> .; <u>Glasko, V. B.; Cranit</u> ,	UR/0387/65/000/074/00:38/0051 550.342:534.2 37 Ye. Sh.	
	TITLE: Dispersion curves of Rayleigh and Love waves layered continental earth crust	as applied to two- and three-	
1	SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 4, 196	·····································	0
	TOPIC TAGS: earth crust, seismic wave, computer prog harmonic analysis, surface wave	gremning, phase velocity,	
	ABSTRACT: Computer results of dispersion of Love and three-layered earth crust are presented and analyzed.	A method of programming for	
	computing phase and group velocities of surface selse	arth's crust may be approxi-	
	mated from surface-wave data by observing the dependence	and of group and mase	
	computed dependence as shown graphically by dispersion of the amount of the models differ in relative thickness	as of the layers and in relative	-
	velocities of longitudinal and transverse waves in the	he layers. This article	
	Card 1/2		
-			
1 1 1 1 1 1			

ACCESSION NR: AP5017040 represents an effort to show the relationships between wave dispersion and possible layering arrangements, but does not attempt to specify what the actual structure is in any part of the earth. The authors point out, however, that a sedimentary layer of low density oreates a sharp gradient in phase velocity. When the relative thick- ness of this sedimentary layer is 0.1, a horizontal plateau is observed on the dispersion curve of the fundamental frequency, defined by the combined effect of the sedimentary and basic layers. A narrow minimum is present also as a result of the sedimentary layer. A thicker sedimentary layer produces one deep minimum on the curve. The effect is even sharper on curves of the first overtone. A layer with relative thickness of 0.1 produces two narrow aid deep maximums and minimums. "In conclusion, the authors consider it their pleasent duty to express thanks to Profeesor A. N. Tikhonov for valuable aid fruitful consultations during work on this problem, to I. I. Chalysheva for aid in selecting the parameters, and to T. N. <u>Drozdova</u> for aid in graphical presentation of the results." Orig, art. has: 12 figures and 17 formulas. ASSOCIATION: Institut fiziki Zemli Akademiya nsuk SSSR (Institute of Terrestrial <u>Physics, Academy of Sciences SSSR</u>); Moskovskiy Gosudarstvennyy universitet (Moscow State University) SUBMITTED: 12Aug64 ENCL: 00 SUB CODE: ES, DP NO REF SOV: 010 OTHER: 003		
represents an effort to show the relationships between wave dispersion and possible layering arrangements, but does not attempt to specify what the actual structure is in any part of the earth. The authors point out, however, that a sedimentary layer of low density oreates a sharp gradient in phase velocity. When the relative thick- ness of this sedimentary layer is 0.1, a horizontal plateau is observed on the dispersion curve of the fundamental frequency, defined by the combined effect of the sedimentary and basic layers. A narrow minimum is present also as a result of the sedimentary layer. A thicker sedimentary layer produces one deep minimum on the curve. The effect is even sharper on curves of the first overtone. A layer with relative thickness of 0.1 produces two narrow and deep maximums and minimums. "In conclusion, the authors consider it their pleasent duty to express thanks to Professor A. N. Tikhonov for valuable and fruitful consultations during work on this problem, to L. I. Chalysheva for ald in selecting the parameters, and to T. N. <u>Drozdova</u> for aid in graphical presentation of the results." Orig. art. has: 12 figures and 17 formulas. ASSOCIATION: Institut fiziki Zemli Akademiya nauk SSSR (Institute of Terrestrial <u>Physics, Academy of Sciences SSSR</u>); Moskovskiy Cosudarstvennyy universitet (Moscow State University) SUBMITTED: 12Aug64 ENCL: 00 SUB CODE: E3, DP NO REF SOV1, 010 OTHER: 003	计可引入了自己工艺中的,这些时,我们还是这些问题,我们还是这些问题,你们就是这些问题,我们还是我们都是是我的,我们还是我们并是这个问题,我们却能能能能是我的,我们就是我们	
layering arrangements, but does not attempt to specify what the actual structure isIn any part of the earth. The authors point out, however, that a sedimentary layerof low density oreates a sharp gradient in phase velocity. When the relative thick-ness of this sedimentary layer is 0.1, a horizontal plateau is observed on thedispersion curve of the fundamental frequency, defined by the combined effect of thesedimentary and basic layers. A narrow minimum is present also as a result of thesedimentary layer. A thicker sedimentary layer produces one deep minimum on thecurve. The effect is even sharper on curves of the first overtone. A layer withrelative thickness of 0.1 produces two narrow and deep maximums and minimums. "Inconclusion, the authors consider it their pleasent duty to express thanks toProfessor A. N. Tikhonov for valuable and f-uitful consultations during work on thisproblem, to L. I. Chalysheva for aid in selecting the parameters, and to T. N.Drozdova for aid in graphical presentation of the results." Orig. art. has: 12figures and 17 formulas.ASSOCIATION: Institut fiziki Zemli Akademiya nsuk SSSR (Institute of TerrestrialPhysics, Academy of Sciences SSSR); Moskovskiy Gosudarstvenuyy universitet (MoscowSUBMITTED: 12Aug64ENCL: 00NO REF SOV: 010OTHER: 001	ACCESSION NR: AP5017040	
figures and 17 formulas. ASSOCIATION: Institut fiziki Zemli Akademiya nsuk SSSR (Institute of Terrestrial Physics, Academy of Sciences SSSR); Moskovskiy Gosudarstvennyy universitet (Moscow State University) SUBMITTED: 12Aug64 NO REF SOV: 010 OTHER: 003	layering arrangements, but does not attempt to specify what the actual structure is in any part of the earth. The authors point out, however, that a sedimentary layer of low density oreates a sharp gradient in phase velocity. When the relative thick- ness of this sedimentary layer is 0.1, a horizontal plateau is observed on the dispersion curve of the fundamental frequency, defined by the combined effect of the sedimentary and basic layers. A narrow minimum is present also as a result of the sedimentary layer. A thicker sedimentary layer produces one deep minimum on the curve. The effect is even sharper on curves of the first overtone. A layer with relative thickness of 0.1 produces two narrow and deep maximums and minimums. "In conclusion, the authors consider it their pleasant duty to express thanks to Professor <u>A. N. Tikhonov</u> for valuable and fruitful consultations during work on this problem, to <u>I. T. Chalysheva</u> for aid in selecting the parameters, and to T. N.	
Physics, Academy of Sciences SSSR); Moskovskiy Gosudarstvennyy universitet (Moscow State University) SUBMITTED: 12Aug64 NO REF SOV: 010 OTHER: 003	figures and 17 formulas.	
SUBMITTED: 12Aug64 ENCL: 00 SUB CODE: ES, DP	Physics, Academy of Sciences SSSR); Moskovskiy Gosudarstvenuvy universitet (Moscow	
NO REF SOV: 010		

16







CIA-RDP86-00513R001447310008-3





<u>L_18477-66</u> EWT(1)/EWA(h) ACC NR: AP6010016 (N)	SOURCE CODE: UR/0387/65/000/011/0063/0066
AUTHOR: <u>Savarenskiy, Ye. F</u> .;	
ORG: Institute of Physics of 1	the Earth, AN SSSR, Moscow(Institut fiziki Zemli AT SSSR)
	s of thickness of the Earth's crust from group velocities
SOURCE: AN SSSR. Izvestiya. F:	izika Zemli, no. 11, 1965, 63-66
TOPIC TACS: seismic wave, car	th crust, shock wave velocity, seismology
detecting variations of the th	s the principles and application of the method for ickness of the earth's crust on the basis of the group
sector between two stations of structure in mountainous region	In this method crustal structure is determined in a 'two ⁵ spi-centers; it can be used for studying crustal ns where other methods are difficult to use. The case is given special consideration. Orig. art. has:
7 figures, 4 formulas, and 1 t	able. [JPRS]
SUB CODE: 08, 20 / SUEM DAT	E: 11Jun64 / ORIG REF: OO1 / OTH REF: OO3
	しかわり モール・セート・モンダン たけわらう かっぽう やけてた にんごう むくちゃ ひっとう 古しょう あっこだた しょうえいがく あかた 知知 読得的 調算 人類機

1731374-00-0

前原制

ACC NR: AT6010300	SOURCE CODE: UR/3195/65/0	00/006/0077/0083
UTHOR: Savarenskiy, Ye. F	; Ragimov, Sh. S.; Aga-zade, S. S.	· · · · ·
RG: none		0
ITLE: Determination of gro	oup velocities of <u>surface waves</u>	
OURCE: <u>AN SSSR. Mezhduved</u> aniya, no. 6, 1965, 77-83	<u>omstvernyy geofizicheskiy komitet.</u> Seys	micheskiye issledo-
OPIC TAGS: Rayleigh wave,	earthquake, seismologic station, seism	lic wave, wave
BSTRACT: Three analytical aves are discussed and the everal earthquakes in the I elocity for each oscillatio	methods for determining the group velo results of their application to the wa Pacific Ocean are evaluated. The separ on, oscillation grouping and parabolic luation of group velocity of earthquake	ve dispersion from ate determination of approximation meth-
ated on the basis of seismo distance of 126 km. The s o be precise and objective	ern Pacific. Selsmic data from each ea ograms from the Kirovabal and Goris sta study shows velocity determination by t . The average thickness of the earth's	tions separated by he separate method crust is 36 km for
	d the Kurile Islands, 30 km for the Jap a Cruz and New Britain, the Yellow Sea,	

₹**6**7+4

15-345-1

figures, 2 tables,	5 formulas.	the observation static	on. Orig. art. has: 5
SUB CODE: 08,20/	SUBM DATE: 00/	ORIG REF: 003/	OTH REF: 001

12

•		3 13 1 1
	L 36222-66 EWT(1) GW ACC NR: AP5018614 SOURCE CODE: UR/0030/65/000/007/0039/0041	
	AUTHOR: Savarenskiy, Ye. F. (Doctor of physico-mathematical sciences)	
	ORG: none	
•	TITLE: Problems of modern seismology and a unified system of seismic observations in the USSR	
۰.	SOURCE: AN SSSR. Vestnik, no. 7, 1965, 39-41	
•	TOPIC TAGS: earthquake, seismologic station, Rayleigh wave, SEISMOGRAPHY	*
	ABSTRACT: The introduction of a standard system of <u>seismic measurements</u> , the develop- ment of a broader net of seismic stations, and better earthquake forecasting are dis- cussed. The better study of the earth's crust can be achieved by introduction of more sensitive <u>seismographs</u> and detailed study of the propagation of the Rayleigh waves. The author states that the unified system of seismic observations and the development of a seismic net, etc., are being put into operation in the USSR and should lead to more reliable earthquake forecasting.	
	SUB CODE: 08/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000	
	Card 1/1 /ll	
		4.25

έ£		
All Print	L 32162-66 EWT(1) GW ACC NR: AP6010060 SOURCE CODE: IM (0007/05/000/000/000/000/000/000/000/000/	• •
	Source code: 0x/038//66/000/003/0003/0014]
	AUTHOR: Savarenskiy, Ye. F. (Doctor of physico-mathematical sciences)	
	ORG: Institute of Physics of the Earth, Academy of Sciences, SSSR (Institut fiziki Zemli Akademii nauk SSSR)	
وي ويوني ويوني ويوني	TITLE: The use of body <u>seismic waves</u> in studying the upper mantle of the earth ${\cal V}$	
Ĩ	SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 3, 1966, 3-14	
	TOPIC TAGS: earth crust, seismic wave, Mohorovicic discontinuity, seismic wave propa- gation, amplitude analyzer, wave velocity, UPPER MANTLE	
	ABSTRACT: A study is made of the upper mantle of the earth and its effect on the deve- lopment of the earth's crust. Measurements based on seismic body wave propagation were made from the Mohorovicic discontinuity to a depth of $900-1000$ km, corresponding to a pressure variation of 20 to 300 thousand atm and a temperature variation of 800 to 2000° . Longitudinal and transverse wave velocity was measured as a function of depth on a hodograph by the Gerglots-Vikhert method. Logarithmic amplitudes, reduced to uni- ty, are given for body waves of magnitude m and for longitudinal and transverse waves ferent parts of the world, in which wave transmission is given as a function of depth. The Central Atlantic region was mapped out showing different seismoacoustical belts.	
a.	Card 1/2 UDC: 550.34:550.311	
		erries (esti

11F

	C NR:									• • • •		
		· · · · · · · · · · · · · · · · · · ·		1	smologists he veloci)-800 km.	T169. 1	r 15 CO	nciuaea (indi a	STRUT	TTCaure '	gra-
					11Jun65/				1. S. S. A. S. S.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	•	ar Shine a				in an						
		•								•		
		•										
			la di la constante Alta di la constante di la const									
	rd 2/2	ha										
Ca	rd 2/2	130								in de la composition Carlo de la composition		

影響的

SOURCE CODE: UR/0030/66/000/008/003	34/0043
JTHOR: Savarenskiy, Ye. F. (Corresponding member AN SSSR).	6
lG: none	C)
TLE: Possible causes of the Tashkent earthquake	ß
DURCE: AN SSSR. Vestnik, no. 8, 1966, 34-43	
PIC TAGS: Tashkent earthquake, earthquake forecasting, tectonic earthquake, gional seismology	
STRACT: Although Tashkent was included in an intensity -8 region of the eismic zoning map issued by the Uzbek Academy of Sciences, specialists alled to predict the occurrence of the catastrophic earthquake of 26 April 266. To improve earthquake-forecasting techniques, the Council on Seismol- 39 of the Academy of Sciences USSR has been commissioned to develop new 29 oproaches and new methods.	
In the Tashkent event the GOST-6249-52 scale was used to measure the stensity of the earthquake while the amplitude of the horizontal motion as determined with an SBM pendulum. Since, however, the Tashkent earth- take was characterized by short-period vertical oscillations, a more pre- se determination of the intensity could have been made by using an instru-	
und 1/3 UDC: 550.341.2(575.11-20)	

CIA-RDP86-00513R001447310008-3



CIA-RDP86-00513R001447310008-3

SOURCE CODE: UR/3169/66/000/018/0090/0093 ACC NR: AT7003837 AUTHOR: Savarenskiy, Ye. F.; Starovoyt, O. Ye. Institute of Physics of the Earth (TsGO, Moscow) (Institut fiziki Zemli) ORG : TITLE: Use of long-period surface seismic waves to study the earth's internal structure SOURCE: AN UKrSSR. Geofizicheskiy sbornik, no. 18, 1966. Geofizicheskiyc issledovaniya stroyeniya zemnoy kory (Geophysical investigations of the structure of the earth's crust), 90-93 TOPIC TAGS: mointific manages, seismic wave, seismography, seismologic instrument, seismologic station, earthquake, Rayleigh wave, phase velocity ABSTRACT: The results of processing the seismographic records made by the "Moskva" seismologic station during three very heavy earthquakes (Chile, 1960; Iturup Island, 1963; Alaska, 1964) have made it possible to isolate the long-period Rayleigh waves and to obtain dispersion curves for phase and group velocities for the periods 50 to 450 seconds. The results are plotted, and errors noted. The results are compared with theoretical calculations, but note is made of the fact that the results obtained are not the only answer to the problem. It is possible that the difference between Card 1/2

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001



日本語の

1. 13 1. 19

KUDRIN, V.D.; SAVARENSKIY, Yu.S.

525122

Cyclone combustion chamber for small boilers fired with milled peat. Prom.energ. 16 no.7:21-25 J1 '61. (MIRA 15:1) (Furnaces) (Peat)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3"



	的影响的话来,这些影响的 的	· 美门连续公路在24年1 23-413-422 + 888-4-4-4-4-	Nia 12
SAVAR	I, YE A.	137-58-5-9284	
	Translation	from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 71 (USSR)	
	AUTHORS:	Savari, Ye.A., Yudina, I.N., Lifshits, A.I.	
	TITLE:	Measures Designed to Reduce Gold Losses in Tailings of Gold Mining Plants (Razrabotka meropriyatiy po snizheniyu poter' zolota v khvostakh zolotoizvlekatel'nykh fabrik)	
	PERIODICA	in to "Nigrizoloto", 1957, Nr 22,	
	A BSTRA CT:	An account of work undertaken by certain gold-mining estab- lishments for the purpose of determining the factors responsible for incomplete extraction of Au. Average-weight samples selected from tailings and middlings were inspected for size and shape of the grains of gold; the condition of the Au (covered with a film, free, etc.) and its purity were determined and various other tests were performed. Reasons for increased Au losses are explained and means of reducing them are shown. I.D.	化化学 化拉氨基苯基苯基
		1. GoldProduction 2. Gold oresProcessing	
	Card 1/1		

1 STATE TO

	S/137/62/000/005/024/150 4006/A101	
AUTHORS:	Savari, Ye. A., Frolova, A. A., Bandenok, L. I.	
TITLE:	Experience in flotating fine-grained titanium-zirconium sands of marine origin	
PERIODICAL:	Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 10, abstract 5G56 ("Sb. materialov po gorn. delu, obogashcheniyu i metallurgii. Tsentr. ni. gornorazved. in-t", 1961, no. 6, 70-74)	
collective magnetic se started. successful At the TSN required do	The basic process of concentrating Ti-Zr sands is performed on on tables, jigging machines, and screw separators. To finish the concentrate, poorly efficient methods of electrostatic and electro- eparations have been used. At the present the use of flotation was it was established that the process of collective flotation was only if clays and slimes had been fully eliminated from initial sands. IGRI Institute a unit was developed making it possible to assure the esliming in hydrocyclones by 2 stages without employing a second pump etrolatum, preliminarily saponified in a 10% soda solution at 60 - 80°C ur, showed satisfactory results as a substitute of oleic acid.	•
Card 1/2		

CIA-RDP86-00513R001447310008-3

s/137/62/000/005/024/150 A006/A101 Experiences in flotating fine-grained ... Several methods are indicated for flotation separation of a collective Ti-Zr concentrate. During subsequent magnetic separation of the frothy product a conditional concentrate was obtained containing 62% ZrO, and 1.3% TiO2 at 80% ZrO2 extraction from initial sands. A. Shmeleva [Abstracter's note: Complete translation] Card 2/2

APPROVED FOR RELEASE: 07/13/2001

		aff party control for the state of the state			
<u>sava</u>	<u>RITSKIY</u> , A	N		N/5 622.6 .S3 1950	
Petr	ro-Chemistry o	of volcanic mocksy	2 - 0101 - 20.	rod (Introduction to the	
	At Head of T	Sitle: Akademiya N	auk SSSR.		
an Alas Sign Alas Alas					







CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001


"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3

SAJA	RSKIY, N.
	8558-7-10 -45
AUI	THORS: Gorbatov, S., Chairman of Model-aircraft Building Section, and <u>Savarskiy</u> , N., Senior Engineer-Inspector of the Moscow Oblast DOSAAF Committee
TI!	TLE: The Spartacus Games are On (Idet Spartakiada)
PEI	RIODICAL: Kryl'ya rodiny, 1958, Nr 7, p 10 (USSR)
ABS	STRACT: The authors report on the participation of Moscow Oblast Komsomol model-aircraft builders in the Spartacus Games.
AS	SOCIATION: Moscow Oblast DOSAAF Committee
Ca	rd 1/1 1. AirplanesModel buildingCompetitions







CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001

非要了政治

8 (3) S0V/112-57-5-10161	
8 (3) Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 5, p 83 (USS	
AUTHOR: Savashinskaya, V. I.	r)
TITLE: On the Problem of Economic Self-Support of Energy Departments at Industrial Plants (K voprosu o khozraschete energeticheskikh tsekhov promyshlennykh predpriyatiy)	
 PERIODICAL: Tr. Leningr. Inzh. ekon. in-t, 1956, Nr 11, pp 133-141 ABSTRACT: Three current methods of evaluating activities of industrial-plant power departments are analyzed. Shortcomings in the organization of self-supporting power departments that hinder the use of local reserves within industrial power systems are pointed out. Methods are suggested for determining the fulfillment of a plan; the methods are based on mutually-dependen energy output and cost, which, according to the author, meet the self-suppor requirements. 	t
A.D.R.	
Card 1/1	







APPROVED FOR RELEASE: 07/13/2001 CIA



APPROVED FOR RELEASE: 07/13/2001

and the second state of the second second

20082 s/105/61/000/004/001/003 B116/B206 Drozdov, N. G., Kukarin, A. I., Savashkevich, B. S., and 26.235 AUTHORS: Gorelov, N. I. (Moscow) Electrostatic generator TITLE: Elektrichestvo, no. 4, 1961, 48-50 PERIODICAL: TEXT: An electrostatic generator is described, the operation of which is based on the following principle: Plexiglass is always positively charged when brought into contact with polyethylene and Teflon, while Teflon is negatively charged thereby and polyethylene changes the sign of its charge, depending on whether it comes into contact with Plexiglass or Teflon. Dielectrics which are charged only positively or only negatively are called positive and negative dielectrics, respectively. Those which change the sign of their charge are called intermediate dielectrics. For an alternating interaction between the intermediate dielectric and the positive and negative dielectric, respectively, the maximum charge density δ_{max} on the surface is expressed by $\delta_{max} = \epsilon E/4\pi$, where E is the breakdown strength of the Card 1/6

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

20082 \$/105/61/000/004/001/003

B116/B206

Electrostatic generator

electric field, and \mathcal{E} the dielectric constant of the interspace between rotor and stator. Maximum charge density is obtained much more quickly with an interaction of three dielectrics than with one of only two. Such favorable conditions also result when the intermediate dielectric is displaced from the negative to the positive dielectric. Some consecutive interactions are sufficient for obtaining the biggest possible charge. Electrostatic d-c and a-c generators may be designed on this principle. A schematic representation of an electrostatic d-c generator is shown in Fig. 1. The stator consists of Plexiglass (1) and Teflon (2). The rotor face of the stator are excited by polyethylene brushes (4) mounted on the plates (3). When the plates approach the collectors K_1 and K_2 , the free

charges leak off, while the bound charges are retained. After the latter have reached the range of action of the other dielectric, they become additional free charges and amplify the free main charge of the rotor plates. Fig. 3 shows the dependence of the short-circuit current on the position of the collectors and on the direction of rotor movement. If the collectors

Card 2/6

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

Electrostatic generator

S/105/61/000/004/001/003 B116/B296

20082

are placed at 0 and 180° , the generator polarity changes according to the direction of rotor movement. This can be utilized in dosimetric circuits for accurate voltage adjustment when charging reservoir and feeder capacitors. Fig. 4 shows the characteristics of the generator during charging and discharging of a capacitor of 10^{-7} f. The charging takes place according to an exponential law, the discharging almost according to a linear law. Fig. 5 shows the dependence of the short-circuit current on the rotor generator described. For this purpose it is sufficient to unite all rotor plates into two groups and to connect these to the two contact rings. When perfectly under hardest climatic conditions at a humidity of up to 98% and temperatures of from -40 to +50°C. There are 5 figures and 3 references:

SUBMITTED: June 23, 1960

Card 3/6

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3"

ſχ

CIA-RDP86-00513R001447310008-3

32646 s/105/62/000/001/003/006 9.6150 E032/E414 Drozdov, N.G., Gorelov, N.I., Savashkevich, B.S., Kukarin, A.I. (Moscow) **AUTHORS**: TITLE: Semiconducting cadmium sulphide detectors of gamma radiation PERIODICAL: Elektrichestvo, no.1, 1962, 49-51 In 1957, the present authors developed semiconducting TEXT : detectors [7]-1 (GP-1) whose sensitivity to Co⁶⁰ gamma rays This work was directed by S.M.Ryvkin. reached 20 µA per 1 r/hr. The inertia of these detectors was comparable to that of single. crystals of CdS. The semiconducting detectors were produced by sublimation of cadmium sulphide powder on to a heated conducting base which served as one of the electrodes of the detector. The second electrode was deposited by vacuum evaporation on to the cadmium sulphide layer. Technological modifications enabled the present authors to improve the characteristics of these detectors. In the present paper they report the results of measurements of It was found that the voltthe parameters of the detectors. ampere characteristics in the absence of ionizing radiation are unipolar and practically linear between 1.5 and 10 V. The dark Card 1/4

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001

生物、如果就有有效的过程进行认识的问题的资源的资源的点面有 a / bet when a rune o

计位 的复数

32646 S/105/62/000/001/003/006 Semiconducting cadmium sulphide E032/E414	
counteracted by the use of suitable filters, e.g. 1.5 to 2 mm thick lead plate. The inertia of the dotectors was found to be independent of the applied voltage in the range 1.5 to 10 V. Fig.4 illustrates the inertia properties of the detectors. In this figure TH is the time for the photocurrent to increase from this figure TH is the time for the photocurrent to increase from subtracted) and τ_c is the time necessary for the current to fall to 0.2 of the maximum value after the gamma-ray beam has been cut off. These two time constants are plotted in Fig.4 as a function of the dose rate in r/hr. The inertia may be reduced in practice by placing the detector in a permanent radiation field. The stability of the detectors was highest for gold electrodes. The maximum variation in the sensitivity over a period of 5 months was less than 3% of the average value. The corresponding variation in the dark current was 25%. Under humid conditions (humidity greater than 80%) the dark current increased but could be reduced again with the aid of a drying agent. The properties of the detectors were not affected by exposure to a very high dose, e.g. 5×10^7 r at 2.5 $\times 10^6$ r/hr. It is stated that the main disadvantage of these detectors is their inertia, but it is Card $3/4$	



APPROVED FOR RELEASE: 07/13/2001



计编辑 计编辑

Electric Moto					odo - 21			
Using 500 V a energ. 9 no.	synchronous 9. 1952.	electric mo	otors for a	voltage of	380 or 3	20 V. Pr		
energ. , no.	,, _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
			n an Charles an Tha Anna Anna Anna Anna Anna Anna Anna An					
n an start an an st					1			
						en an		
						le te ceta. C		
	and a second							
							2011년 1921년 19	
						1050	Inclosed.	
Monthly List	of Russian	Accessions,	Library of	f Congress,	December	1952.	JUC TRASTTIEGS	
<u></u>								

CIA-RDP86-00513R001447310008-3





"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3

e for an and a sector of the s	法承历封治学派学校卫卫操制的派遣过于自己这个问题,还是是自己承担的工作。	
	1000/051/001/008	
	s/589/61/000/051/001/008 1054/1254	
	1054/1654	
11:50		
	Brodskiy, A.D. and Savateyev, A.V.	
AUTHORS :		
TITLE :	Noise impulse thermometer	
11111-	Noise impulse thormany USSR. Komitet standartov, mer i izmeritel'nykh priborov. USSR. Komitet standartov, mer i jizmeritel'nykh priborov.	
SOURCE:	USSR. Komitet standartov, mer i izmeritel'nykh pricorov Trudy institutov Komiteta. no. 51 (111). 1961. Isledovaniya Trudy institutov Komiteta. 10. 51 (111). 110-115.	
	Trudy institutov Komiteta. no. 51 (111) v oblasti temperaturnykh izmereniy. 110-115.	
	v oblasti temperature, as A modified method of measurement of absolute temperatures is A modified method of measurement of absolute temperatures is	12
······	A modified method of measurement of absolute temperatures is using the thermal noise in a resistance, by counting the number of using the thermal noise. The range of measurement is wide, reaching lass per unit of time. The range of the sensing element down to the	/B
Jerrol oped	using the thermal house man and of measurement is most down to the	
noise impu	lses per unit of time. The reaction of the sensing elements	
from the p	lses per unit of time. Ind fains of the sensing element terms oint of the thermal destruction of the sensing with decrease in out of the thermal destruction of the sensing element terms super-conductivity. The sensitivity increases with decrease in super-conductivity. The sensitivity increases with decrease in super-conductivity. The sensitivity increases with decrease in e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability interferences to achieve stability interferences to achieve stability interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate outside interferences to achieve stability e. Care taken to eliminate	
region of	super-conductivity diminate outside interiorence (average) discrepancy	
temperatur	e. Care taken on liquid oxygen showed on 3 figures and 1 table.	
of the equ	super-conductivity. The sensitivity interferences to achieve scalar super-conductivity. The sensitivity interferences to achieve scalar c. Care taken to eliminate outside interferences to achieve scalar inpment. Tests on liquid oxygen showed 0.2°C (average) discrepancy inpment. Tests on liquid oxygen showed 0.2°C (average) discrepancy international temperature scale. There are 3 figures and 1 table. International temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar international temperature scale. There are 3 figures are 1, we will be a scalar sc	
from the	h language reference 15: Lawson,	
100 Log11	946, p. 220.	
MG1 0111-		
- 10		
Card $1/2$		
in a second second		redesi, t min

CIA-RDP86-00513R001447310008-3



APPROVED FOR RELEASE: 07/13/2001

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3 不到了那些面积是你们的有些有效的是我们就是我们就是不是没有不可能能得到这些了一种非常多多,但我们也没有这些不可。

和日期

2	4.5500	S/589/61/000/051/002/008 I054/I254	
	AUTHOR:	Savateyev, A.V.	
	TITLS:	Choice of conditions giving the optimum sensitivity of a thermal noise impulse thermometer and possible ways to determine its constants	
	SOURCE :	USSR. Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta. no. 51 (111). 1961. Isledovaniya v oblasti temperatunykh izmereniy. 116-130	la
	elements in tion and co amplitude. advantages increases a	The method of temperature measurement described is based on the of noise, created by statistical motion of fundamental electrical a current. This property is utilised by amplification, discrimina- bunting of the noise impulses statistically distributed, in time and Their number is a function of the temperature. The method has in the measurement of very low temperatures, since the sensitivity at low temperatures. If the resistor has no superconductive the method may be used for very low temperatures. The character- tants of the instruments are considered in detail, and the optimum	٧₽
	Card $1/2$		

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310008-3

10,60

FIL:27SE

Choice of			S/589/61/000/0 1054/1254	951/002/008	
conditions at analysis. Th	which highest se ere are 3 figures	nsiti v ities may •	be obtained are es	tablished by	JB.
ASSOCIATION:	YNIIM .	•			
SUBMITTED:	January 4, 1960				
Card 2/2					

化学 383



APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310008-3

"APPROVED FOR RELEASE: 07/13/2001

通知事務など PA 153T17 SAVASTEYEV, V. G. Submitted 21 Jun 49. varied linearly. Explains advantages of first constant speed and when rectifier voltage is sults obtained when phase regulators rotate at regenerative braking with phase regulators ro-tating at constant speed. Briefly compares re selection of suitable parameters and rational Tech Sci, Moscow Mining Inst imeni Stalin, 7 pp method for mine hoists. Includes five diagrams. USSR/Engineering - Circuits, Electric in starting and also for deceleration and regulation methods. Examines transient phenomena phenomena involved, which would facilitate arises for more extensive research into transient ionic drives to pit head equipment. Hence, need of Hoisting Equipment," V. G. Savasteyev, Cand In recent years, mining industry has been fitting "Iransient Phenomena in the Ionic Electric Drive USSR/Engineering - Circuits, Electric "Elektrichestvo" No 11 Drives, Electric (Conta) Nov 49 **Not** 49 153117 153117 . **a**fi h f 121121

APPROVED FOR RELEASE: 07/13/2001