

SERGEYEV, P.A., doktor sel'skokhozyaystvennykh nauk; KARUNIN, B.A.,
kandidat sel'skokhozyaystvennykh nauk.

More attention to the expansion of clover growing. Zemledelie 4
no.5:10-15 My '56. (MLRA 9:8)
(Clover)

COUNTRY : USSR
CATEGORY : Meadow Cultivation. L
ABS. JOUR. : RZhBiol., No.23, 1958, No. 104529
AUTHOR : Karvun, E. A.
INST. : Kazakh Institute of Feeds and Pastures.
TITLE : Forage Reserves of Kazakhstan.

ORIG. PUB. : Zemledeliye, 1957, No. 12, 38-41

ABSTRACT : Recommendations of Kazakh Institute of Feeds and Pastures and of Dzhambil'skaya Experiment Station on the improvement of natural hay fields and pastures by means of tidal stream irrigation, additional sowings of grasses, tillage and gypsum treatment of soils and other measures. -- V. S. Shmal'ko

Card: 1/1

3

KARUNIN, B.A.

[Growing red clover for fodder and seed] Vozdelyvania klevera
krasnogo na korm i semena. Moskva, Gos. izd-vo selkhoz lit-ry,
1958. 105 p. (MIRA 11:11)

(Clover)

KARUNIN, B.A., kand. sel'skokhozyaystvennykh nauk

Let's have a high yield of grass seeds. Zemledelie 6 no.4:60-63
Ap '58. (MIRA 11:4)

(Grasses)

LARIN, I.V., red.; MOVSISYANTS, A.P., red.; KARUNIN, B.A., red.

[Zonal division of forage plants in the U.S.S.R.] Organizatsia
kormoproizvodstva po zonam SSSR. Pod red. I.V.Larina, A.P.Mov-
siantsa, B.A.Karunina. Moskva, Izd-vo M-va sel'khoz. SSSR,
1960. 322 p. (MIRA 14:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.
Lenina.

(Pastures and meadows) (Forage plants)

MAYSURIAN, N.A., akademik, red.; SOKOLOV, N.S., red.; YELAGIN, I.N.,
kand.sel'skokhoz.nauk, red.; KARUNIN, B.A., kand.sel'skokhoz.nauk,
red.; SHUL'GIN, A.M., doktor geograf.nauk, red.; BARANOV, M.F.,
red.; ANTONOVA, N.M., khudozh.-tekh.n.red.

[Winter hardiness of farm crops; materials of the Scientific
Conference on the Cold Hardiness of Winter Grain Crops and Perennial
Grasses, January 14-17, 1958] Zimostoikost' sel'skokhoziaistvennykh
kul'tur; materialy nauchnoi konferentsii po voprosam zimostoikosti
ozimnykh zernovykh kul'tur i mnogoletnikh trav 14-17 ianvaria 1958 g.
Moskva, Izd-vo M-va sel'.khoz.SSSR, 1960. 342 p. (MIRA 13:10)

1. Vsesoyuznaya akademiya sel'skokhozyayastvennykh nauk imeni V.I.
Lenina. 2. Vsesoyuznaya akademiya sel'skokhoz.nauk im. V.I.Lenina
(for Maysuryan). 3. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhoz.
nauk im. V.I.Lenina (for Sokolov).
(Plants--Frost resistance) (Field crops)

KARUNIN, N. A.

"The Magnitude of Error in Determination of the Altitude of Clouds by the Visual Method". *Meteorologiya i Gidrologiya*, No. 1, Sept. 1950.

Report U-2268, 20 Aur. 1952.

L 00900-05 ENI(O)/ENI(M)/ENI(W)/ENI(G)/ENI(V)/ENI(K)/ENI(H)/ENI(L) PF41 EM

ACCESSION NR: AP5019060

UR/0286/65/000/012/0087/0087
681.26

AUTHOR: Karulin, Ye. I.; Blistunov, N. N.

34
B

TITLE: Aerodynamic three-component screen balance. Class 42, No. 172080

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 87

TOPIC TAGS: aerodynamic research, aerodynamic balance, thrust measurement, thrust measuring instrument

ABSTRACT: This Author Certificate introduces an aerodynamic screen balance containing a flat screen attached at three points to plastic metal elements. These elements are equipped with resistance strain gages which are, in turn, connected to electronic deformation meters (see Fig. 1 of the Enclosure). To increase the sensitivity and accuracy of the balance, the screen is suspended vertically on three rods and hinged to the elastic measuring elements. To ensure a smooth change in the distance from the screen to the nozzle exit, a variation of the balance is equipped with horizontal lead screws in its base. Orig. art. has: 1 figure. [AC]

Card 1/3

E 60960-65

ACCESSION NR: AP5019060

ASSOCIATION: none

SUBMITTED: 19Mar64

ENCL: 01

SUB CODE: ME

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4060

Card 2/3

L 60960-65

ACCESSION NR: AP5019060

ENCLOSURE: 01

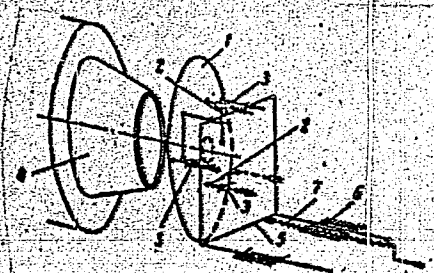


Fig. 1. Aerodynamic balance

- 1 - Screen; 2 - three links;
- 3 - elastic measuring elements;
- 4 - nozzle; 5 - balance base frame;
- 6 - horizontal guides;
- 7 - lead screw.

Card *dm*
3/3

KARUNINA, L.

27

ca

Washing media for aluminum apparatus. L. Karunina. *Myslennaya i Molekulyarnaya Prom.* 1947, No. 6, 75 ff. —Al plates were immersed for various periods in the following solns. at room temp. and elevated temp.: 0.1-0.3% NaOH, 0.25-1.0% Na₂CO₃, 0.25-0.5% Na₃PO₄, 0.5% Na₂CO₃-0.5% Na₃PO₄, the above solns. with addn. of varying amts. of Na silicate (to give a silicate protective film), and finally 0.25-1% common household soap. All alk. solns. had corrosive action on Al, with Na₃PO₄ being intermediate between NaOH and calcium soda. Small addns. of Na silicate aggravate corrosion by NaOH, and the protective effect does not begin until the silicate is used in an amt. double that of NaOH. Addn. of 0.025-0.05% Na silicate to the Na₂CO₃ solns. (about 0.5%) sharply reduced corrosion, and 0.5% Na silicate stopped it completely; a similar result was observed with 0.5% Na₃PO₄. The use of 0.5% Na₃PO₄, 0.5% Na₂CO₃, and 0.25% Na silicate gave almost no effect on the Al plates at either room or elevated temp. Soap did not reduce corrosion.

ASME-SEA METALLURGICAL LITERATURE CLASSIFICATION

COMMON SYMBOLS

GROUPS

PERIODICALS

BOOKS

TECHNICAL REPORTS

CONFERENCE PROCEEDINGS

UNPUBLISHED MATERIALS

OTHER

PROCESSES AND PROPERTIES INDEX

KARUNINA, L. 102

Production of milk protein hydrolyzates. P. F. Dyachenko, L. Karunina, and B. Bogdanova. *Mashkopy Prom.* 9, 280, 4, 27-8 (1948).—Acid hydrolysis of casein requires 750 ml. concd. HCl per kg. and the process is complete in 8 hrs. at 1 atm. in autoclave. In plant process 1:1 HCl is used (1,500 l. per ton of casein); the hydrolyzate is neutralized by Na₂CO₃ or NaOH to pH 5.2, filtered for humin removal, and bottled after assay, with adjustment to 30% solids. The product may be used for food fortification. G. M. Kosolapoff

A 13-51A METALLURGICAL LITERATURE CLASSIFICATION

E J

KARUNINA, L. A.

"Change of the Buffer Quality of Latvian Cheese in Ripening and Its Use for the Evaluation of the Maturity of Cheese." Sub 15 Nov 51, Moscow Chemico-technological Inst of the Meat Industry

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 480, 9 May 55

1. KARUNINA, L., SHILOVICH, M.
2. USSR (600)
4. Milk - Analysis and Examination
7. Testing the methods for quickly determining the quantity of protein in milk.
Moloch prom. No 2 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KARUNINA, L.

V Influence of fermented sugar-beet pulp in the cow ration on the quality of sweetened condensed milk. S. Kivenko and L. Karunina. *Molochnaya Prom.* 16, No. 8, 29-30 (1955). It is claimed that the flavor of fresh milk and the taste and stability of sweetened condensed milk held for 6 months at 6° were not affected when hay and grass silage ration was supplemented with 50 kg. or more of fermented sugar-beet pulp/cow/day. The data are not complete. Vladimir N. Krukovsky

(1)

KUNICKI-GOLDFINGER, Władysław; KUNICKA-GOLDFINGER, Władysława; przy współpracy
technicznej KARUNOS, Zofii

Intestinal microflora of *Sorex araneus araneus* L. and *Clethrionomys
glareolus glareolus* Schreb. in natural conditions. I. Quantitative and
qualitative characteristics of the intestinal microflora. Acta microbiol.
Pol. 11 no.1/2:43-75 '62.

1. Z Katedry Mikrobiologii Uniwersytetu Warszawskiego w Warszawie i
Zakładu Badania Ssaków PAN w Białowieży.

(INTESTINES microbiol) (INSECTIVORA microbiol)
(RODENTS microbiol)

ORLOVA, G.A. [Orlova, H.A.]; CHERKASOVA, L.I.; SHESTERIKOVA, O.I.; SERGEYEVA, M.M.; TARASOVA, M.Kh.; KARUNSKIY, V.G. [Karuns'kiy, V.H.]; MISHINA, Z.D.; LEBEDEVA, T.V.; ROZDIALOVSKIY, B.V. [Rozdialovs'kiy, B.V.]; DYMSHITS, L.S.; ZAYTSEV, A.B., glavnyy red.; SERGEYEV, N., otv. za vypusk; SERGEYEV, M.F., red.; BERGER, F., tekhn.red.

[Economy of Volyn' Province; a statistical manual] Narodno hospodarstvo Volyns'koi oblasti; statystychnyi zbirnyk. L'viv, Derzhstatvydav, 1958. 211 p. (MIRA 12:12)

1. Volyn' (Province) Statystychno upravlinnia. 2. Statisticheskoye upravleniye Volynskoy oblasti (for all, except Sergeyev, N., Sergeyev, M.F.) 3. Nachal'nik Statisticheskogo upravleniya Volynskoy oblasti (for Zaytsev).

(Volyn' Province---Statistics)

KARUPU, V.Ya.

Young normal fertilized human ovum. Arkh. anat. gist. i embr.
31 no.2:27-34 Ap-Je '54. (MLRA 7:8)

1. Iz kafedry gistologii i embriologii (nav. dotsent V.Ya.Karupu)
Kiyevskogo meditsinskogo stomatologicheskogo instituta (dir.
A.K.Gorchakov)
(EMBRYOLOGY, human)

KARUPU V. YA.

USSR/Human and Animal Morphology. Gastrointestinal Tract.

S

Abs Jour: Ref Zhur-Biol., No 15, 1958, 69577.

Author : Karupu, V. Ya.

Inst :

Title : The So-Called Perivascular Spaces of Disse.

Orig Pub: Vrachebn. Delo, 1957, No 1, 47-50.

Abstract: In tissues from livers of 100 embryos, fetuses, and people of varying ages dying from accidental causes, and from livers of eight different species of animals, studies showed that the basal membrane of the endothelium of the intralobular capillaries is at the same time the basal membrane for the hepatic cells, also; no spaces filled with lymph, i.e. Disse spaces, exist under normal conditions, in the opinion of this author. -- V.S. Zhdanov.

Card : 1/1

*Chair of Histology & Embryology.
9 KIEV Medical Stomatology Inst.*

KABAK, K.S.; KARUPU, V.Ya.; KUL'CHINSKIY, K.I.; LEV, I.D.; MAZHUGA, P.M.;
MANZIY, S.P.

Survey of work of the Sixth All-Union Congress of Anatomists, Histo-
logists and Embryologists. Arkh.anat.gist. i embr. 36 no.2:95-127
F '59. (MIRA 12:4)

(ANATOMY--CONGRESSES)

KARUPU, V.Ya.

Innervation of kidneys. Fiziol. zhur. [Ukr.] 6 no.6:795-800 N-D
'60. (MIRA 14:i)

1. Biophysics Laboratory, of the A.A.Bogomoletz Institute of Physiology
of the Academy of Sciences of the Ukrainian S.S.R.
(KIDNEYS—INNERVATION)

30360

27.2400

S/205/61/001/004/019/032
D298/D303

AUTHORS: Gorodetskiy, A. A., Karupu, V. Ya., Khomutovskiy, O. A., Oleynikova, T. N., and Andryushchenko, V. V.

TITLE: Electronoscopic study of the lungs with chronic radiation sickness induced by radioactive strontium

PERIODICAL: Radiobiologiya, v. 1, no. 4, 1961, 564-566

TEXT: In previous research the authors found that the administration of radioactive strontium in doses sufficient to cause acute radiation sickness induced changes in the lung tissue (hyperemia, hemorrhage, etc.) after 1 - 2 days (Ref. 1: Fiziol. zh., 6, 1960), and with chronic radiation sickness after 2 - 3 days (Ref. 2: Tez. dokl. nauchnoy konferentsii po probleme: "Lechebnoye i diagnosticheskoye primeneniye radioaktivnykh izotopov (The Therapeutic and Diagnostic Use of Radioactive Isotopes)", Khar'kov, 1960). However, there were indications that submicroscopic lesions ensued much earlier. The present work was an attempt to check this. Tests were run on white rats. Sr89 in the form of its chloride

Card 1/3

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D298/D303

Electronoscopic study of...

salt was injected into the rat's abdominal cavity in a dose of 0.32 μ c/g. The animals were killed off at periods ranging from 1 hour to 108 days after irradiation, and slides were prepared from their organs examined under an γ 3M-100 (UEM-100) electron microscope at magnifications of 1500 - 30,000. Only one hour after the administration of radioactive strontium, marked edema of the epithelial and endothelial cells and the connective tissue of the alveolar septa were noted. Particularly large vacuoles were distributed through the protoplasmatic plates of the endothelial and epithelial cells. The lesions affected all the strata of the alveolar septa, blood vessels, bronchi and the pleura. Dense dark granules appeared in the epithelial cells. The authors consider the changes in the membranes and connective tissue layers of the alveolar walls particularly noteworthy since they were of a marked dynamic nature, connected with the course of radiation sickness. In the early period of radiation sickness (1 - 7 days), the membranes become thickened, edematous, pultaceous and delaminated, while at later periods (40th, 90th and 108th days) they are densely packed. As radiation sickness develops, the layers of connective tissue thicken and

Card 2/3

X

30360

Electronoscopic study of...

S/205/61/001/004/019/032
D298/D303

develop incorrectly orientated coarse fibers. Electronoscopic examination, therefore, reveals early changes in the cells and membranes of the lung tissue which, to a certain extent, explain the appearance of early hemorrhages in the lungs. The thickening and hardening of the membranes and connective tissue layers at later stages explains the deterioration in the gas metabolism in cases of chronic radiation sickness. There are 5 figures and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The reference to the English-language publication reads as follows: F. N. Low, Anat. Rec., 117, 241, 1953.

ASSOCIATION: Institut fiziologii im. A. A. Bogomol'tsa AN USSR (Institute of Physiology im. A. A. Bogomolets, AS UkrSSR), Kiyev

SUBMITTED: February 13, 1961

Card 3/3

4

KARUPU, V.Ya.

Materials on the study of the innervation of Glisson's capsule in man and some animals. Fiziol; zhur. [Ukr.] 7 no.4:527-538 Ji-Ag '61.
(MIRA 14:7)

1. Biophysics Laboratory of the A.A.Bogomoletz Institute of Physiology of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

(GLISSON'S CAPSULE--INNERVATION)

KARUPU, V. Ya. (Kiyev, Artema, 14a, kv.59)

Data on a study of the peripheral nervous system of the
liver in some animals and in man. Arkh. anat. gist. i embr.
41 no.8:83-90 Ag '61. (MIRA 15:6)

1. Kafedra gistologii (zav. - chlen-korrespondent ANU SSSR,
zasluzhennyy deyatel' nauki, prof. N.I. Zazybin) Kiyevskogo
meditsinskogo instituta.

(LIVER--INNERVATION) (NERVES, PERIPHERAL)

KARUPU, V.Ya.

Changes in the internal neural elements of the liver in whole-body
X irradiation. Fiziol. zhur. [Ukr.] 8 no.2:248-259 Mr-Apr '62.

(MIRA 15:5)

1. Laboratory of biophysics of the Bogomoletz Institute of Physiology
of the Academy of Sciences of the Ukrainian S.S.R., Kiev.
(X RAYS--PHYSIOLOGICAL EFFECT) (LIVER--INNERVATION)

ACCESSION NR: AP3007768

8/0205/63/003/005/0727/0730

AUTHOR: Karupu, V. Ya.

TITLE: Effect of total X-irradiation on the peripheral nervous system of the liver

SOURCE: Radiobiologiya, v. 3, no. 5, 1963, 727-730

TOPIC TAGS: X-irradiation, liver, peripheral nervous system, liver nerve fibers, nerve cell hypertrophy, nerve cell granular disintegration, nerve cell dystrophy, radiation sickness

ABSTRACT: 34 experimental rabbits and 6 experimental dogs were X-irradiated with total doses of 1200 and 600 r respectively. After irradiation the animals were killed at different periods ranging from 1 hr to 8 days. Nerve parts were identified by silver nitrate impregnation. Results indicate that 1 hr after irradiation a morphological reaction can be detected in some of the liver nerve fibers. During the first day medullated nerve fibers display disturbances and some of the nerve fibers are in a state of dystrophy. At 2-4 days the symptoms become more intense and most of the pulpless

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ACCESSION NR: AP3007768

nerve fibers become involved in the pathological process. Changes in the liver nerve cells are extremely varied by 6-8 days when radiation sickness symptoms appear. Some of the liver nerve cells are reduced in size, some are enlarged, some are deformed, some are destroyed, and some remain normal. Ionizing radiation not only produces deep pathological changes in the peripheral nervous system of the liver, but also produces significant compensatory reactions. Orig. art. has: 4 figures.

ASSOCIATION: Institut fiziologii im. A. A. Bogomol'tsa AN UkrSSR, Kiev (Institute of Physiology, Academy of Sciences, UkrSSR)

SUBMITTED: 28Sep62 DATE ACQ: 22Oct63 ENCL: 00

SUB CODE: AM NO REF SOV: 018 OTHER: 002

Card 2/2

KARUPU, V. Ya.

Effect of total-body X irradiation on the peripheral nervous system
of the liver. Radiobiologiya 3 no.5:727-730 '63.

(MIRA 17:4)

1. Institut fiziologii imeni A.A. Bogomol'tsa AN UkrSSR, Kiyev.

KARUPU, V.Ya.

Morphological changes in the liver following application of a direct
Eck-Pavlov fistula. Fiziol. zhur. [Ukr.] 11 no.1:95-103 Ja-F '65.
(MIRA 18:7)

1. Institut fiziologii im. A.A.Bogomol'tsa AN UkrSSR, Kiyev.

KARUPU, V.Ya.

Changes in the nerve structures of the liver produced by direct injury of the organ. Arkh. anat., gist. i embr. 49 no.7:29-36
Jl '65.

(MIRA 18:10)

1. Kafedra gistologii (zav. - zasluzhenny deyatel' nauki chlen-korrespondent AMN SSSR prof. N.I.Zazybin) Kiyevskogo meditsinskogo instituta i laboratorii biofiziki (rukovoditel' - chlen-korrespondent AN UkrSSR prof. A.A.Gorodetskiy) Instituta fiziologii imeni Bogomol'tsa AN UkrSSR.

KLEMENT'YEV, S.D.; KARUS', A.P., inzhener mayor, redaktor; MEZHERITSKAYA,
N.P., tekhnicheskii redaktor

[The uses of photoelectronic instruments] Fotoelektronika i ee
primeneniye. Moskva, Voen. izd-vo Ministerstva oborony SSSR, 1954.
87 p. (MIRA 8:6)
(Photoelectric cells) (Remote control)

KNYAZEV, Aleksey Dmitriyevich; KARUS, A.P., inzhener-mayor, redaktor; MEZHE-
RITSKAYA, N.P., tekhnicheskiiy redaktor.

[How a radio station works] Kak rabotaet radiostantsiia. [Moskva, Voen.
izd-vo Ministerstva obrony SSSR, 1954]. 214 p. [Microfilm]
(Radio stations) (MLRA 8:5)

KARUS, A.P.

VRUBLEVSKIY, A.V.; GRIGOR'YANTS, G.N.; ZHUKOV, D.P.; KN'AZHITSKIY, B.M.
KARUS', A.P., inzhener-mayor, redaktor; SOKOLOVA, G.F., tekhnicheskiy redaktor.

[Electric engineering; textbook for soldiers and sergeants] Elektrotehnika; uchebnik dlia soldat i serzhantov. Moskva, Voen.izd-vo Ministerstva obr. soiuza SSSR, 1955. 327 p. (MLRA 8:12)
(Electric engineering)

VRUBLEVSKIY, Aleksandr Vikent'yevich; GRIGOR'YANTS, Georgiy Nikolayevich;
ZHUKOV, Dmitriy Petrovich; KNYAZHITSKIY, Grigoriy Mikhaylovich;
KARUS', A.P., inzhener-mayor, redaktor; SOKOLOVA, G.F., tekhnicheskii
redaktor

[Electric engineering; a manual for privates and non-commissioned
officers] Elektrotehnika; uchebnik dlia soldat i serzhantov. Izd.
2-oe, ispr. i dop. Moskva, Voen. izd-vo Ministerstva obor. SSSR,
1956. 341 p. (MLRA 9:12)
(Electric engineering)

KROMIN, Georgiy Semenovich; KATKOV, Yevgeniy Aleksandrovich; KARUS', A.P.,
inzhener-mayor, redaktor; SOROKIN, V.V., tekhnicheskii redaktor

[Principles of radar] Osnovy radiolokatsionnoi tekhniki. Moskva,
Voen.izd-vo Ministerstva obr. SSSR. Pt.1. [Electronics] Elektro-
radiotekhnika. 1956. 463 p. (MLRA 9:8)
(Electronics) (Radar)

ARUTYUNOV, Konstantin Gegamovich; BORDZILOVSKIY, Iosif Iosifovich; PERESUN'KO,
Markiz Rostislavovich; KARUS', A. P., inzhener-mayor, redaktor;
KUZ'MIN, I. F., tekhnicheskiy redaktor

[Repair of radio apparatus; a manual for radio engineers] Remont
radiotekhnicheskikh sredstv; uchebnoe posobie dlia radiomasterov.
Moskva, Voen. izd-vo Ministerstva obor. SSSR, 1956. 469 p.
(Radio--Repairing) (MIRA 9:10)

KARUS', A. P. PHASE I BOOK EXPLOITATION

403

Karus', Anatoliy Petrovich

Antennyye pereklyuchateli (Antenna switches) Moscow, Voen. izd-vo Min-va obor. SSSR, 1957. 44 p. (Radiolokatsionnaya tekhnika)

Ed: Vladimirov, V.T., Lt. Col.; Tech. Ed.: Mednikova, A.N.

PURPOSE: The booklet, published in the Radiolokatsionnaya tekhnika (Radar Techniques) series, is intended for officers concerned with the operation of radio-engineering equipment, and is recommended also for a wide circle of readers wishing to acquaint themselves with the details of separate radar unit and component performance.

COVERAGE: The booklet examines switches of the transmitter-receiver type. It describes the principles of operation and the design of antenna switches on coaxial lines and on waveguides. A list of booklets in the Radar Technique series is given on the inside back cover.

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AVAILABLE: Library of Congress

Card 3/3.

JJP/ksv
6-18-58

KARUS, A.P.
LYKOV, Ivan Aleksandrovich; KARUS', A.P., inzhener-mayor, red.; SIEPTSOVA,
Ye.N., tekhn.red.

[Coordinates determined by radar] Koordinaty, opredeljaemye radio-
lokatorom. Moskva, cen.izd-vo M-va obor. SSSR, 1957. 52 p.
(Coordinates) (Radar) (MIRA 11:2)

KARUS, A.P.
MELEPETS, Vasilii Stanislavovich, dots., kand.tekhn.nauk; KARUS', A.P.
inzhener-mayor, red.; MEDNIKOVA, A.N., tekhn.red.

[Meter wave antennas] Antenny metrovykh voln. Moskva, Voen.izd-vo
M-va obor.SSSR, 1957. 70 p. (MIRA 11:2)
(Antennas (Electronics))

KARUS, A.P.

GORIN, Boris Shmerelevich; KARUS, A.P., inzhener-mayor, red.; SOROKIN, V.V.,
tekh.n.red.

[Range indicators] Indikatory dal'nosti. Moskva, Voen.izd-vo M-va
obor. SSSR, 1957. 85 p. (MIRA 11:2)
(Distance measuring equipment (Aircraft to ground station))

KARUS', A. P.

PHASE I BOOK EXPLOITATION

455

Beketov, Viktor Ivanovich

Antenny sverkhvysokikh chastot (Superhigh-frequency Antennas) Moscow, Voen. izd-vo Min-va obor. SSSR, 1957. 119 p. (Radiolokatsionnaya tekhnika)

Ed.: Karus', A. P., Engineer-Major; Tech. Ed.: Sleptsova, Ye, N.;

PURPOSE: This monograph is intended for officers engaged in the operation of radio facilities. It can also be consulted with profit by a wide circle of readers desirous of detailed information on the operation of individual units and components of radar equipment.

COVERAGE: This booklet is part of the series "Radiolokatsionnaya Tekhnika" (Radar Technique) published by the Publishing House of Military Literature. The editor's foreword claims that there is a list of the monographs and their titles constituting the series on the inside back cover of the monograph. No such list appears in that or any other place in this booklet. The monograph presents in a form accessible to the general public the operating principles, design and utilization of superhigh-frequency antennas. Considerable attention is given to the physical processes taking place in such antennas. The rapid development of superhigh-

Card 1/7

Superhigh-frequency Antennas

455

frequency technique in Russia during World War II and especially in the post war years is briefly reviewed. Chapter I is an introduction to terminology and basic concepts in the theory and technique of antenna design. The rest of the booklet is concerned with the design and operating principles of various types of antennas used in communications and radar technique. The problems of scanning-antenna radiation patterns and of antenna switches have not been treated since it is assumed that the readers are already familiar with these subjects as well as with the operation of feeders and resistance transformers from other brochures of the series. The Soviet scientists V.V. Tatarinov, S.I. Nadenenko, and V.N. Keasemikh are mentioned as having developed a method for increasing the range of wide-band antennas by reducing their wave impedance. The "Nadenko dipole" (the wide-band horizontal dipole, Fig. 13) has found wide application as a shf antenna. The Soviet scientists N.A. Kaptsov and M.A. Bonch-Bruyevich are mentioned as having discovered and developed a synthetic dielectric used in the production of delay lenses (p. 75). M.S. Neyman is mentioned as being the first to use slots as antennas when doing research on radiation from small slots in cavity resonators. Two other Soviet scientists, A.A. Pistol'kors and Ya. N. Fel'd did further research on slot antennas (p. 92). There are no references.

Card ~~27~~

MARKOV, Ivan Pavlovich; ~~KARUS', A.P.~~ inzh.-podpolkovnik, red.;
MEDNIKOVA, A.N., tekhn.red.

[Electronic oscillograph] Elektronnyi ostsillograf.
Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 104 p.

(MIRA 12:12)

(Cathode ray oscillograph)

SHIRYAYEV, Nikolay Petrovich; KARUS', A.P., inzh.-podpolkovnik, red.;
MEDNIKOVA, A.N., tekhn.red.

[Generators of nonsinusoidal oscillations] Generatory nesinu-
soidal'nykh kolebaniy. Moskva, Voen.izd-vo M-va obor.SSSR,
1960. 55 p. (MIRA 13:6)

(Oscillators, Electric)

GORIN, Boris Shmerelevich; SPIVAK, Petr Usherovich; KARUS', A.P.,
inzh.-podpolkovnik, red.; VOLKOVA, V.Ye., tekhn.red.

[Bearing indicators] Indikatory napravleniia. Moskva, Voen.
izd-vo M-va obor.SSSR, 1960. 108 p. (MIRA 13:11)
(Radar)

SHUSTEROVICH, Abram Nakhimovich; KARUS', A.P., red.; MEDNIKOVA, A.N.,
tekh.n.red.

[Radio measurements] Radiotekhnicheskii izmereniia. Moskva,
Voen.izd-vo M-va obor.SSSR, 1960. 109 p.

(MIRA 14:4)

(Radio measurements)

VRUBLEVSKIY, Aleksandr Vikent'yevich; GRIGOR'YANTS, Georgiy Nikolayevich;
ZHUKOV, Dmitriy Petrovich [deceased]; KNYAZHITSKIY, Grigoriy
Mikhaylovich; KARUS', A.P., inzh.-podpolkovnik, red.; MEDNIKOVA,
A.N., tekhn.red.

[Electrical engineering; textbook for enlisted men] Elektro-
tehnika; uchebnik dlia soldat i serzhantov. Izd.3., ispr. i dop.
Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 359 p. (MIRA 13:7)
(Electric engineering--Handbooks, manuals, etc.)

VRUBLEVSKIY, Aleksandr Vikent'yevich; GRIGOR'YANTS, Georgiy
Nikolayevich; ZHUKOV, Dmitriy Petrovich [deceased];
KNYAZHITSKIY, Grigoriy Mikhaylovich; KARUS', A.P.,
red.; MEDNIKOVA, A.N., tekhn. red.

[Electrical engineering; a manual for soldiers and sergeants]
Elektrotehnika; uchebnik dlia soldat i serzhantov. Izd.4.
ispr. i dop. Moskva, Voenizdat, 1964. 351 p. (MIRA 17:3)

KARUS, G.

Buttressing drainage ditches. p. 40

SOTSILIKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTEERIUM.
Tallin, Hungary. No. 1, 1958.

Monthly List of East European Accessions (E:AI) LC, Vol. 8, no. 11
November 1959.

Uncl.

KARUS, G.; TOMBERG, U.

The first results in the use of glass pipes. p. 333.

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne
Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa)
Warszawa, Poland, Vol. 32, no. 6, June 1958.

Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

HONNIK, K., kand. tekhn. nauk; KALJUMAE, H., inzh. gidrotekhn.;
KASK, R., kand. sel'khoz. nauk; KATJUS, A., inzh. lesnogo khoz.;
KILDEMAA, K., kand. geogr. nauk; EURKUS, J., agronom; LIPFMAA, A.,
inzh. gidrotekhn.; PANT, R., preodavatel', agronom; RAIG, V.,
inzh. gidrotekhn.; REMEL, A., inzh. melior.; TALPSEPP, E., kand.
sel'khoz. nauk; SOOSAAR, V., inzh., lesnogo khoz.; STERNFELD, R.,
inzh. stroit.; TOMINGAS, E., inzh. melior.; KARUS, G., red.;
RAUD, M., red.; VAHTRE, I., tekhn. red.

[Handbook for soil improvement] Maaparanduse kasiraamat. Tal-
linn, Eesti riiklik kirjastus. Vol.1. [Fundamentals of soil
improvement] Maaparanduse alused. 1962. 473 p. (MIRA 15:5)
(Soils)

30(1)

SOV/99-59-5-7/9

AUTHORS: Karus, G.V., (Tallin) and Rozin, V.A., Candidate of
Technical Sciences

TITLE: From Abroad - Agricultural Melioration Works in
Finland

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 5, pp 52-60
(USSR)

ABSTRACT: The article describes the situation regarding melio-
ration for agricultural purposes in Finland. There
are 7 photos and 1 diagram.

ASSOCIATION: SevNIIGiM

Card 1/1

KARUSH, S.V.

PLITMAN, M.I.; KARUSH, S.V.

Experiment of introducing high speed thread cutting. Stan. 1
instr. 26 no.4:26-30 Ap '55. (MIRA 8:6)
(Screw cutting)

KARUS, G.V.

Irrigation of cultivated pastures in Estonia. *Zemledelie* 26 no.12:
58-59 D '64. (MIRA 18:4)

1. Zaveduyushchiy otdelom melioratsii Estonskogo nauchno-issle-
dovatel'skogo instituta zemledeliya i melioratsii.

USSR/Farm Animals - General Problems

Q

Abs Jour : Ref Zhur - Biol., No 15, 1958, 69226
Author : Morozov, V.K.; Karushev, A.I.
Inst : -
Title : Threshed Sunflower Calathidia as a Supplementary
Feedstuff
Orig Pub : Zhivotnovodstvo, 1957, No 9, 42-44
Abstract : No abstract

Card 1/1

YEVSTRATOV, P.A.; KARUSKEVICH, Ye.N.

Predictability curve of water equivalent of snow in an open
location based on field snow surveys in the Devitsa River
Basin. Meteor. i gidrol. no.1:45-47 Ja '56. (MIRA 9:6)
(Devitsa Valley--Snow)

KARUS, Ye. V.

GAMBURTSEV, G.A.; RIZNICHENKO, Yu.V.; BERZON, I.S.; YEPINAT'YEVA, A.M.;
PASECHNIK, I.P.; KOSMINSKAYA, I.P.; KARUS, Ye.V.; YEROFEYEVA, A.A.,
redaktor; KISELEVA, A.A., tekhnicheskii redaktor

[Correlation method of refracted waves; manual for seismological
engineers] Korrelatsionnyi metod prelomlennykh voln; rukovodstvo
dlia inzhenerov-seiamorazvedchikov. Moskva, Izd-vo Akad. nauk SSSR,
1952. 238 p. [Microfilm]. (MIRA 8:7)

1. Chlen-korrespondent AN SSSR (for Gamburtsev).
(Seismometry)

KARUS, YE. V.

PA 241T39

USSR/Geophysics - Historical

Jan/Feb 53

"Chronicle" Ye. V. Karus

"Iz Ak Nauk SSSR, Ser Geofiz" No 1, p 95

On 19 Nov 52 a meteorological seminar of the Geophys Inst, Acad Sci USSR was held, at which Dr Phys-Math Sci I. A. Khvostikov read a report entitled "The Lomonosov Stage in Geophysics". Participating in the conference were Dr Geol-Mineral Sci V. V. Belousov and Academician O. Yu. Schmidt, editor of this journal.

241T39

KARUS, YE. V.

PA 241T40

USSR/Geophysics - Seismograph

Jan/Feb 53

"Defense of Dissertation by D. I. Kirnos," Ye. V. Karus

"Iz Ak Nauk SSSR, Ser Geofiz" No 1, p 95

Dissertation devoted to two divisions of seismometry: 1) theory and procedure of designing seismic instruments; 2) description and investigation of a general type of seismograph created by the author, and also a seismograph for recording strong and destructive earthquakes. Corr-Mem Acad Sci USSR G. A. Gamburtsev, Dr Phys-Math Sci V. F. Bonchkovskiy, and Dr Phys-Math Sci A. A. Dorodnitsyn praised the work highly.

241T40

KARUS, Ye. V.

Geophysics

Enlarged session of the learned council of the Geophysics Institute of the Academy of Sciences of the U.S.S.R., devoted to the problems of the origin, structure, and development of the earth. Izv. AN SSSR. Ser. geofiz. No. 2, 1953.

Review of 14 reports heard 23-27 Dec 52 on the following problems:
origin of earth as a cosmic body and history of its development; boundaries of separation within earth and their character; phys properties, chem compn, and the general condition of matter at various depths within earth; mech, phys, and chem processes originating in the earth; geophysical fields of terrestrial globe and their relationship to figure and structure of earth and concomitant processes. 254783

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

KARUS, Ye.V.

New instruments for magnetic prospecting. Izv. AN SSSR. Ser. geofiz. no.
3:285 My-Je '53. (MLBA 6:6)

(Prospecting--Geophysical methods)

Reports on the scientific meeting of the Geophys Inst, AS USSR, held 15 Apr 53, at which A. G. Kalashnikov read "Direction of the Work of the Division of Geomagnetism, Geophysics Institute, Academy of Sciences USSR, in the Field of Instrument Construction for Magnetic Prospecting." Kalashnikov summarized results of many years investigations, which created new ~~methods~~ apparatus and new procedures for measuring magnetic properties of mineral rocks and weak magnetic fields.

258T93

Translation 563432

KARUS, Ye. V.

USSR/Geophysics - Properties of Rocks

FD-1191

Card 1/1 . Pub. 45-2/8

Author : Karus, Ye. V., and Pasechnik, I. P.

Title : Study of the elastic and absorbing properties of rocks in their natural surroundings by methods of seismoacoustics

Periodical : Izv. AN SSSR, ser. geofiz., No 6, 1954, pp 515-526

Abstract : The authors briefly describe the physical principles of their apparatus, technology and method of field observations for determining the elastic and absorbing properties of rocks in their natural surroundings. Their method is based on a study of the propagation in rocks of elastic stationary sinusoidal oscillations with frequencies from 50-100 to 3000-4000 cycles, which are excited by electromagnetic or piezoelectric vibrators of low power (of the order of 50 v). Using this method they determine the phase velocity of the propagation of elastic stationary sinusoidal oscillations as well as the values of the coefficients of amplitude absorption of these oscillations.

Institution : Geophysics Institute, Acad. Sci. USSR

Submitted : March 6, 1954

KARUS, Ye. V.

USSR/Geophysics - Physics of the Earth

FD-1713

Card 1/1 : Pub. 45-1/12

Authors : Karus, Ye. V., and Pasechnik, I. P.

Title : On the nature of elastic waves excited in real media by a harmonic source

Periodical : Izv. AN SSSR, Ser. geofiz., 89-100, Mar-Apr 1955

Abstract : On the basis of an analysis of experimental materials obtained in various seismological conditions the authors examine the question of the nature and properties of elastic oscillations excited in real media by a harmonic source. They show that these oscillations have a complex character and are the result of the superposition of waves of various types - longitudinal, transverse and surface waves. The longitudinal waves are not predominant as regards intensity; the transverse or surface waves turn out to be predominant.

Institution : Geophysical Institute, Academy of Sciences USSR

Submitted : June 16, 1954

KARUS, Ye. V.

USSR/Geophysics - Physics of the Earth; Seismology

FD-1723

Card 1/1 : Pub. 45-11/12

Author : Karus, Ye. V.

Title : Critique of I. I. Gurvich's book "Seismographic Geophysical Exploration"

Periodical : Izv. AN SSSR, Ser. geofiz., 187-190, Mar-Apr 1955

Abstract : The author reviews Gurvich's textbook intended for higher educational institutions and technical schools. The review is in general a favorable one, and praises the book as being well written and timely, since there had not previously been a comprehensive text on seismographic methods. The author describes all twelve chapters of the work and in three instances points out changes which he feels would improve the book.

Institution : None

Submitted :

KARUS, Ye. V.

Tasks of geophysical prospecting. Izv.AN SSSR Ser.geofiz. no.3:241-244
Mr '56. (Prospecting--Geophysical methods) (MIRA 9:7)

KARUS, Ye.V., kandidat fiziko-matematicheskikh nauk.

The development of methods for geophysics as applied to prospecting.
Vest. AN SSSR 26 no.9:14-20 S '56. (MLBA 9:11)
(Prospecting--Geophysical methods)

KARUS, YE. V.

"Absorption of Elastic Waves in Rocks,"

paper presented at the 9th Pacific Science Congress, Bangkok, Thailand,
18-29 Nov 57

Trans. Mining Gazette, Vol. 2, No. 11, 1957 (Bangkok)

49-58-4-2/18

AUTHOR: Karus, E. V.

TITLE: The Steady-State Absorption of Elastic Vibrations in Rocks
(Pogloshcheniye uprugikh kolebaniy v gornykh porodakh pri
statsionarnom vozbuzhdenii)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya,
1958, Nr 4, pp 438-448 (USSR)

ABSTRACT: A real rock can be considered as analogous to an opal-
escent medium in optics, as a medium of finite viscosity,
or as one showing elastic after-effects. All these approa-
ches can give results in agreement with experiment in par-
ticular instances, but an adequate and all-embracing theory
is not available. Methods of producing the data required to
derive an adequate theory, using laboratory and field studies,
are then considered, with special reference to seismo-acoustic
methods (not described in detail) as applied under field con-
ditions. Using these, it is possible to determine how
steady-state sinusoidal oscillations are scattered, and also
to determine how the amplitude varies with frequency; since
the frequency is also measured the amplitude-phase charact-
eristics can be derived. Waves of mixed type can be used,
special methods - due to Kosminskiy's I.P. (Ref.21) - being

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49-58-4-2/18

The Steady-State Absorption of Elastic Vibrations in Rocks.

used to isolate the various wave species. The ways of deriving the absorption and scattering parameters using these methods are briefly presented, followed by detailed results for loess-like clays, porphyries, migmatites as functions of the frequency 0 to 2 kc/s, plus certain more limited results (velocity and absorption coefficient) for some metamorphic rocks. Differentiating between rocks by means of their seismo-acoustic parameters is then considered in relation to megmatites, friable martite iron ore, biotite gneisses, porphyries, jespilites, hard martite iron ore, magnetite-haematite iron ore and algeritic charts. The results are compared with those to be expected from the various theories of wave attenuation; it is concluded that Deryagin's elastic after-effects theory gives the best agreement. There are 5 figures, 2 tables and 32 references, of which 5 are English, 1 German and the rest Soviet.

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

SUBMITTED: August 15, 1957.

Card 2/2 1. Rock--Vibration 2. Rock--Properties 3. Vibration--
Measurement 4. Seismic waves--Analysis

SOV/10-58-5-18/28

AUTHORS: Shcherbakov, D.I., Academician and Karus, Ye. V.

TITLE: The Ninth Pacific Science Congress in Thailand (Dvyatyy tikhookeanskiy nauchnyy kongress v Tailande)

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958, Nr 5, pp 122-126 (USSR)

ABSTRACT: The ninth Pacific Science Congress took place at Bangkok (Thailand) November 18 to December 9, 1957. Over 800 scientists from 29 countries participated, including the following delegates from the USSR; Academician D.I. Shcherbakov, delegation head (geology of ore deposits); Professor Ye.F. Gur'yanov (zoology); Professor A.G. Kolesnikov (oceanology, sea thermics); Professor P.A. Moiseyev (fish industry); Professor P.V. Ushakov (hydrobiology) and Candidate of Physico-Mathematical Sciences Ye.V. Karus (physics of the Earth). Information is presented on various reports delivered at the Congress which included a report by Kropotkin

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The Ninth Pacific Science Congress in Thailand.

SOV/10-58-5-18/28

and Lyustikh from the USSR on the structure of the Earth's crust in the Pacific region, and on the problem of the growth of continents.

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SOV/ 49-58-11-4/18

AUTHORS: Karus, Ye. V. and Tsukernik, V. B.

TITLE: Ultrasonic Apparatus for Determination of Physico-Mechanical Properties of Rocks Intersected by a Bore Hole (Ul'trazvukovaya ustanovka dlya izucheniya fiziko-mekhanicheskikh svoystv porod, peresekayemykh skvazhinoy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 11, pp 1310-1322 (USSR)

ABSTRACT: A prototype of the apparatus for determination of the properties of rocks by means of sound waves was made in 1956 by the members of the Seismic Department of the Institute of Physics of the Earth, Ac.Sc., USSE. The general layout of the apparatus is shown in Fig.1. The electric impulse produced by the generator 1 goes by means of the collector 2 and the cable 3 into the receiver placed inside the sonde 4. The receiver (of piezo-segment type) transforms the electric impulses into mechanical vibrations which spread into the surrounding medium as elastic waves. The waves along the well are registered by means of two receivers which are placed also inside the sonde and isolated from each other. After being amplified in the amplifiers 5 and 6 they

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SOV/ 49-58-11-4/18

Ultrasonic Apparatus for Determination of Physico-Mechanical Properties of Rocks Intersected by a Bore Hole

are diverted into the seismoscope 7 where they can be observed on the screen or photographed by the camera 8. Figs. 2, 3 and 4 show the circuits of the impulse generator, amplifier and seismoscope respectively. Fig.5 gives the frequency of the apparatus in units of kh. The experimentations were carried out with the apparatus placed inside a well drilled through the layer of upper-jurassic growth of 700-1000 m deep. The temperature and the electric properties of the rocks were measured and found to be of uniform character. That part of the well which was clad with metal rings produced the PPP waves on the screen of the apparatus (Fig.6). Their velocity was $V_p = 5350$ m/sec. The part with no cladding produced three types of waves PPP, PSP and the third, which had very intensive oscillations in the liquid contents of the lower part of the well (Fig.7). Another example of seismograms are shown for the waves PPP (Fig.8) and PSP (Fig.9). Three series of velocity measurements were carried out. The results are shown in Fig.10 (1-3) where the data of two receivers are also included. The table

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shows the accuracy of the measurements as calculated from expressions (1) and (2). The character and frequency of the waves were analysed by means of the photo-electric spectro-analyser. The examples are shown in Fig.11 (PPP wave) and Fig.12 (PSP wave). It was found that the intensity of the PSP waves was always greater than that of the PPP waves. The main relation of the amplitude was 3.5. The absorption of the surrounding medium was calculated from the expression (3) where the results of two receivers are employed. It should be noted that the data obtained from the experimentations would be much more precise if the apparatus could be adapted for the multi-channel system of observations. Then, the hodographs and graphs of amplitudes could be produced.

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Ultrasonic Apparatus for Determination of Physico-Mechanical
Properties of Rocks Intersected by a Bore Hole

There are 12 figures, 1 table and 20 references, 15 of
which are Soviet, 4 English, 1 Polish.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli
(Institute of Physics of the Earth, Ac.Sc. USSR)

SUBMITTED: November 21, 1957

Card 4/4

SOV/ 49-58-11-17/18

AUTHOR: Karus, Ye.

TITLE: Fourth Meeting of European Seismologists (IV assambleya seysmologov evropy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 11, pp 1418-1421 (USSR)

ABSTRACT: A meeting of the European Commission of the International Association of Seismologists and Earth Physicists took place in Utrecht, Holland, on April 8-12, 1958. In the discussion on the determination of the earth's crust, the following scientists took part: La Brouste, France (on investigation of the earth's crust in the Alpineregion); Ye.I.Galperin and I.P. Kosminskaya, USSR (on the results of deep soundings in the N.E. Pacific); Grind and Harstwig, West Germany (on seismic waves produced by underwater detonations). The seismic problems of Europe were discussed by Tillotson, Great Britain (on an earthquake in England in 1957); Skaponcyer, E. Germany (on the determination of depth of focus); Ye.F. Sararenskiy, USSR (on the intensity of earthquakes in the USSR); Karnik, Czechoslovakia (on the seismic chart of Czechoslovakia); Peronacci, Italy (on seismic activities of Iran); Depanilis, Italy (on the seismic chart of Italy); Riznichenko, USSR (on the quantitative method of plotting charts); Bobr-

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SOV/ 49-58-11-17/18

Fourth Meeting of European Seismologists

Modravska, Poland (on earthquakes in Poland); Schallew, Israel (on the micro-seismic data of Israel). The question of apparatus was discussed by Bauls and Berkhammer, West Germany (on checking methods of seismographs) and Hiller, West Germany (on the identification of seismic apparatus). In the symposium on seismic waving, the following took part: Lemann, Denmark (on short period surface waves); Stoneley, Great Britain (on the Rayleigh waves on the sea bed); Bot and Vogel (on the dispersion of surface waves). Strobach, West Germany (on micro-seismic waves in Hamburg); Jeffreys, Great Britain (on the odograph of longitudinal waves). The theory of seismology was discussed by Veldkamp, Holland (on determination of dynamic parameters of earthquakes in Sumatra); Fesseira, Poland (on the relation of wave characteristics to the size of the centres); F.I. Kuyls-Borok, USSR (on the relation of the area of disruption to the energy of seismic waves); Berkhemmer, West Germany (on the relation of the area of disruption to the energy and period of registered waves);

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3(0)

SOV/30-59-2-15/60

AUTHOR: Karus, Ye. V., Candidate of Physical and Mathematical Sciences

TITLE: The Plenary Meeting of the International Council of Scientific Associations (General'naya assambleya Mezhdunarodnogo soveta nauchnykh soyuzov)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 2, pp 70-71 (USSR)

ABSTRACT: The 8th Plenary Meeting (MSNS) took place in Washington between October 2 and October 6, 1958. The plan of a resolution on the suspension of the activity of the Special Committee for the Carrying out of the International Geophysical Year was discussed in which connection hot debates were delivered. At the suggestion of the Soviet delegation the international geophysical co-operation will be continued in 1959. Several committees for special problems were formed and a number of administrative problems were settled. The National Council of Scientific and Technical Research of Argentine and the Akademiya nauk Bolgarskoy Narodnoy Respubliki (Academy of Sciences of the Bulgarian People's Republic became members of the MSNS. V. A. Engel'gardt (USSR) was elected vice-president of the office of the MSNS.

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~~24/100-403,1482~~

AUTHORS: Karus, Ye. V., Saks, M. V.

TITLE: Impulse ultrasonic logging

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 5, 1961, 70-74

TEXT: In the USSR, the Institut fiziki Zemli im. O. Yu. Shmidta Akademii nauk SSSR (Institute of Physics of the Earth imeni O. Yu. Shmidt of the Academy of Sciences USSR) began the development of the method of ultrasonic logging (USL). The method of USL is based on the study of the character of distribution of the elastic impulse in rocks whose frequency ranges between 5 and 50 kc. From 1957 to 1960 logging was made by means of this device in 30 boreholes of some meters to 1700 m in the Gruzinskaya SSR, the Ukrainskaya SSR in the Krasnodarskiy kray, Astrakhanskaya oblast' and Kuybyshevskaya oblast'. Fig. 2 shows results which were obtained in 1960 in borehole no. 501 in the Pestravskiy district of the Kuybyshevskaya oblast'. The table gives the limiting values of various parameters which had been determined by means of USL. Fig. 3 shows an example of USL in the Kuybyshevskaya oblast' however, at greater depths (down to 1700m). In this Card 1/7

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Impulse ultrasonic logging

case a qualitative correlation can be observed between the velocities of longitudinal and transverse waves and the values of the effective absorption. The accuracy of the determination of the various parameters by means of the method of USL differs. The further development of the method of USL will permit a completion of the methods of seismic field prospecting. In this connection the construction of synthetic seismograms on the basis of the results obtained by the method of USL will be necessary. There are 3 figures and 1 table.

Legend to Fig. 2: 1) curve of electro-logging KC; 2) clay, 3) sand, 4) dolomite, 5) anhydrite, 6) gypsum, 7) limestone. Velocity curves: 8) of the longitudinal waves, 9) of the transverse waves, 10) curve of the ratio of the velocities of longitudinal and transverse waves; degree of attenuation of the amplitudes (at the expense of absorption and divergence): 11) of the longitudinal waves, 12) of the transverse waves; Data of detonation curves of the layer velocity: 13) of the longitudinal waves, 14) of the transverse waves, 15) curve of the ratio of the layer velocities of longitudinal and transverse waves.

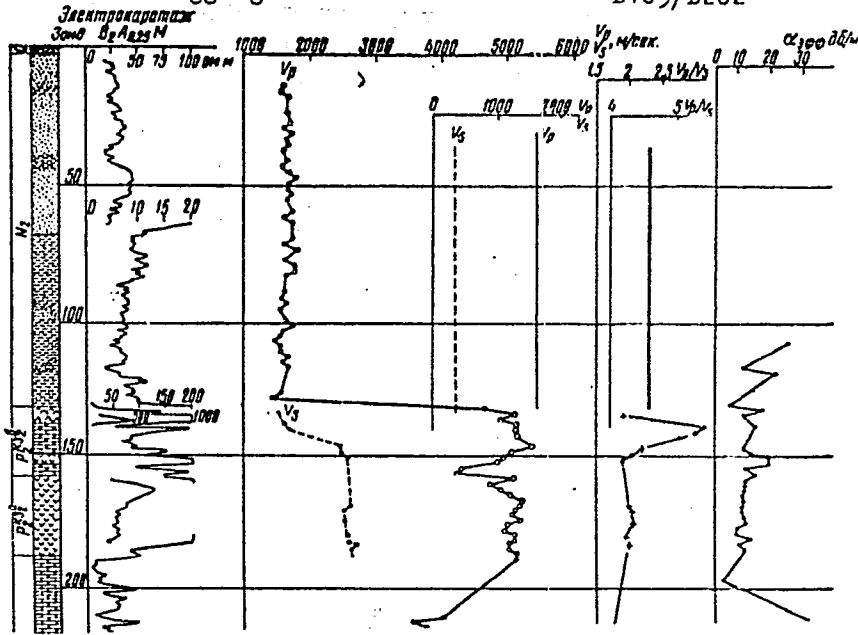
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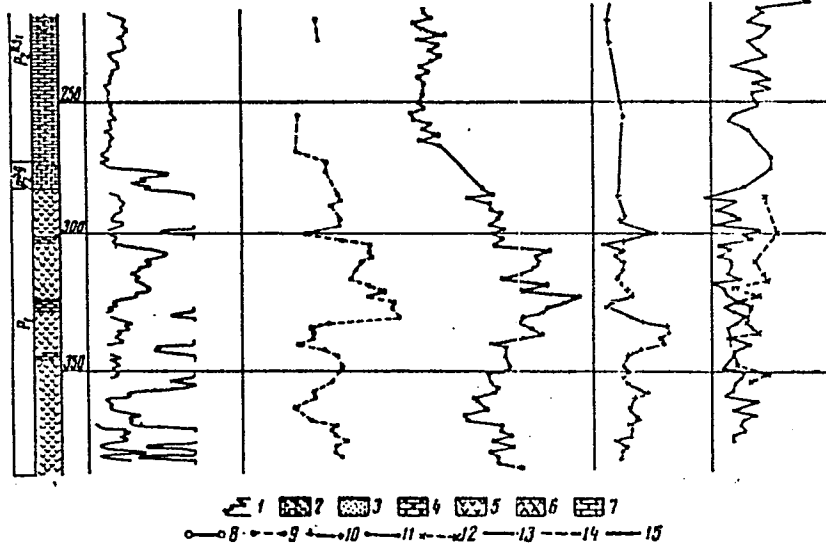


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Legend to Fig.3: results of seismic ultrasonic logging (borehole no. 73, Kuybyshev oblast', Utevskiy rayon). 1) curve of electro-logging KC, velocity curves of the current numbers 2), 3) (see 8) and 9)); 4), 5), and 6) (see 10), 11), and 12)) of Fig. 2.

(Note: Due to the size of Fig. 3, we were unable to fit it to a master.)

X

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Impulse ultrasonic logging

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Глубина λ	Породы 3	V_p	V_s	V_p / V_s	σ	I_p	I_s
		(м/сек) 4	(м/сек) 5				
α e 501 с α' e 73	20—133	1680	345 *	4,5	0,45	23—28	—
	133—189	4200—5100	2500—2600	2,1	0,32—0,4	30—35	25—29
	189—272	3800	2100	1,8—2,0	0,24—0,3	30—34	—
	282—390	4800—5500	2000—3200	1,8—2,6	0,24—0,42	30—35	26—29
	400—1600	4300—6500	2300—3500	1,8—2,4	0,2—0,3	24—42	24—35

* По данным обычного каротажа.

α эфф _p (об/м) 10	α эфф _s (об/м) 11	$\frac{\alpha \text{ эфф}_s}{\alpha \text{ эфф}_p}$ 12
—	—	—
10—12	—	—
16—20	—	—
10—16	10—20	1,0—1,2
8—14	12—20	1,0—2,0

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Impulse ultrasonic logging

Table: Mean values of the elastic and absorption characteristics of rock according to ultrasonic logging measurements in the Kuybyshevskaya oblast':
Legend: 1) no. of borehole, 2) depth, 3) type of rock, 4) and 5) velocity of the longitudinal and transverse waves, 6) ratio, 7) Poisson's ratio, 8) and 9) frequencies of the longitudinal and transverse oscillations, 10), 11) attenuation of the amplitudes of longitudinal and transverse waves, 12) ratio, a) sandstone, clays; b) gypsum anhydride, dolomite limestone, marl, d) anhydride e) carbonate.

X

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KARUS, Ye.V.

International forum of geodetists and geophysicists. Priroda 50
no. 2:78-83 F '61. (MIRA 14:2)

1. Institut fiziki Zemli im. O.Yu.Shmidta AN SSSR, Moskva.
(Geophysics—Congresses)

KARUS, Ye.V., kand. fiz.-mat. nauk, red.; KEYLIS-BOROK, V.I., doktor
fiz.-mat. nauk, red.; IONEL', A.G., ved. red.; YAKOVLEVA,
Z.I., tekhn. red.

[Problems in seismic prospecting] Problemy seismicheskoi raz-
vedki; sbornik statei. Moskva, Gostoptekhizdat, 1962. 225 p.
Translated from the English and French. (MIRA 15:12)
(Seismic prospecting)

KARUS, Ye.V.

Improvement of the existing and investigation of new geophysical methods for studying the structure of the earth's crust, searching and prospecting for new mineral resources in the light of the decisions of the 22d Congress of the CPSU. Izv. AN SSSR. Ser. geofiz. no.1:III-VIII Ja '62. (MIRA 15:2)
(Prospecting--Geophysical methods)

S/030/62/000/003/006/007
B105/B102

AUTHOR: Karus, Ye. V.

TITLE: Seismological research in Southeast Asia (Seismological Mission of UNESCO)

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 3, 1962, 59 - 63

TEXT: Three regional seismological missions have been created by UNESCO and the International Union of Geodesy and Geophysics to develop a global seismic service. V. V. Belousov (as chief) and Ye. V. Karus (both USSR) belong, among others, to the mission covering Southeast Asia. Tasks of this mission are: (a) to pinpoint the existing network of seismic stations and their equipment; (b) to determine the regional degree of seismic peril; (c) to take constructional measures for protecting the population against earthquakes, tsunami, and volcanic eruptions. Mission members visited Australia, New Zealand, New Guinea, New Britain, Laos, Cambodia, Hong Kong, and Singapore. The present state of seismological research in Indonesia, Thailand, Burma, and Japan was examined. The following conclusions were presented at the International Seismological Seminar in Tokyo: (1) the level of seismological research in Southeast Card 1/2 ✓

Seismological research in...

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B105/B102

Asia, excepting New Zealand, India, and Japan, is insufficient; (2) at least 10 teleseismic and 50 - 60 regional stations are lacking in Indonesia; (3) the seismic service in Burma and Cambodia has to be developed; (4) in the north of the Mekong fluvial basin (Thailand, Laos, and Cambodia), where hydroelectric schemes are to be realized, the Mission recommends that provisional seismic observations be carried out; (5) the various stations of a future network should not be at distances of over 1000 km from one another; first of all, each country should be assigned its fully equipped seismic station; (6) the creation of a regional seismological council, which should include national delegates, is recommended; national councils should be charged with coordinating the work of geophysicists, geologists, geodesists, and engineers in each country; (7) the creation of a regional training center for seismological problems is requested. ✓

Card 2/2

BARANOV, V.I., red.; ~~KARUS, Ye.V., red.~~; KUZMETSOV, I.V., red.;
TIKHOMIROV, V.V., red.; TRUSOV, Yu.F., red.; SHCHERBAKOV,
D.I., red.; KONDAKOV, N.I., red.; MATYUKHINA, L.I., tekhn.red.

[Interaction of the sciences in the study of the earth]
Vzaimodeistvie nauk pri izuchenii zemli. Moskva, Izd-vo
AN SSSR, 1963. 323 p. (MIRA 16:11)
(Geophysics)

ACC NR: AT6032732

SOURCE CODE: UR/0000/66/000/000/0069/0076

AUTHOR: Karus, Ye. V. (Candidate of physico-mathematical sciences)

ORG: none

TITLE: Investigation of the physical and mechanical properties of rocks using geoaoustical methods

SOURCE: AN SSSR. Institut fiziki Zemli. Geoakustika; ispol'zovaniye zvuka i ul'tra-zvuka v seysmologii, seysmorazvedke i gornom dele (Geoacoustics; the use of sound and ultrasound in seismology, seismic prospecting, and mining). Moscow, Izd-vo Nauka, 1966, 69-76

TOPIC TAGS: ~~geoaoustics, rock mechanics~~, seismic wave propagation, seismic modeling petrology, solid mechanical property, physical geology

ABSTRACT: Attention is directed to the problem of studying the physical and mechanical properties of rocks when solving various geological problems by geophysical methods. Materials are presented that indicate the dependence of the physical parameters of rocks on their composition. Several geological factors which exert an influence on the physical parameters of rocks are discussed. In sedimentary rocks the mechanical properties depend on the conditions of formation, the pressure and temperature conditions surrounding the rocks, mountain-building, metasomatic and hydrochemical processes, cementation, and weathering. The mechanical properties of magmatic rocks depend on the composition of the magma, crystallization conditions, and the

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ACC NR: AT6032732

nature of postmagmatic processes. The problem of constructing physical models of real media and attendant wave fields is discussed. Seismoacoustic methods of studying the physical and mechanical properties of rocks are divided into three groups: laboratory investigations, borehole observations, and parametric observations. Each is discussed in detail. Particular attention is given to the necessity of creating improved special geophysical equipment, developing the theoretical bases of methods, the techniques of observation, and methods of generalizing measurement data.

SUB CODE: 08/ SUBM DATE: 28Mar66/ ORIG REF: 001/

Card 2/2

ACC NR: AT6032735

SOURCE CODE: UR/0000/66/000/000/0095/0098

AUTHOR: Karus, Ye. V. (Candidate of physico-mathematical sciences); Saks, M. V.

ORG: none

TITLE: Correlating the results of ultrasonic logging and seismic observations

SOURCE: AN SSSR. Institut fiziki Zemli. Geoakustika; ispol'zovaniye zvuka i ul'tra-zvuka v seysmologii, seysmorazvedka i gornom dele (Geoacoustics; the use of sound and ultrasound in seismology, seismic prospecting, and mining). Moscow, Izd-vo Nauka, 1966, 95-98

TOPIC TAGS: ultrasonic logging, seismic prospecting, ~~well shooting~~, seismic wave, ~~propagation~~ *ultrasonic wave, ultrasonic velocity, ultronic inspection*

ABSTRACT: The results of comparison of point ultrasonic logging and seismic prospecting data in two regions of Kuybyshev Oblast are described. In one region the section comprised several thick (20—40 m) layers with rather pronounced velocity jumps at the various interfaces. In the seismic records, most of them are identified by reflected and refracted waves. In the second section there were no thick layers, only numerous thin layers (0.5—7 m) also showing sharp velocity jumps. In the first case, the seismic velocities determined by well-shooting data correspond well with ultrasonic logging velocities, but in the second case, the seismic velocities were found to be lower than those derived by ultrasonic logging. The mean velocities

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Card 2/2

ACC NR: AT6032743

SOURCE CODE: UR/0000/66/000/000/0139/0147

AUTHOR: Borkovskiy, G. M.; Karus, Ye. V. (Candidate of physico-mathematical sciences)

ORG: none

TITLE: Geoacoustic method of investigating the mechanical properties and natural mode of occurrence of rocks

SOURCE: AN SSSR. Institut fiziki Zemli. Geoakustika; ispol'zovaniye zvuka i ul'trazvuka v seysmologii, seysmorazvedke i gornom dele (Geoacoustics; the use of sound and ultrasound in seismology, seismic prospecting, and mining). Moscow, Izd-vo Nauka, 1966, 139-147

TOPIC TAGS: *geoacoustics, ~~rock mechanics~~, seismic wave propagation, petrology, mechanical property, acoustic equipment, geologic instrument, ultrasonic equipment*

ABSTRACT: A new portable apparatus, characterized by high selectivity and effective high sensitivity has been developed for use in the geoacoustic method of stationary oscillations. Using this apparatus, seismo-acoustic observations have been conducted for the purpose of obtaining systems of amplitude curves, phase travel time curves, and the frequency characteristics of wave transmission. Oscillations were generated successively at three fixed points, while measurements were made at one point. Observations conducted in different regions on the surface and in shafts made it possible to obtain new data on absorption and velocity of seismic-waves and to study the dependence of these parameters on frequencies over a broad frequency

Card 1/2

ACC NR: AT6032743

range. Observations made in mines showed an insignificant normal dispersion of phase velocities and an anomalous dispersion on the day surface. It was established that the absorption coefficient of stationary elastic oscillations varies linearly with an increase of frequencies. Orig. art. has: 5 figures.

SUB CODE: 0830/ SUBM DATE: 28Mar66/ ORIG REF: 006/

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