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1. Laboratoriya khimioterapii Novokuznetskogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta. Submitted Dec. 2, 1964.

KARMINSKIY, D.F., doktor tekhn. nauk, prof.; SERGEYEV, G.M., starshiy prepodavatel'; CHERNYAK, I.M., inzh.; ABAZIYEV, S.I., inzh.

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TK2435.A2

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[Design of automatic welding machines; abstracts] Konstruirovanie avtomaticheskikh svarochnykh mashin; referativnaia informatsiia. Moskva, 1963. 19 p.
(MIRA 16:9)

1. TSentral'nyy institut nauchno-tekhnicheskoy informatsii i priborostroyeniya, elektrotekhnicheskoy promyshlennosti i sredstv avtomatizatsii.
(Electric welding--Equipment and supplies)

ABAZA, S.A.; FEDOSEYEVA, N.N., red.

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L 38191-66 EEC(k)-2/EWP(k)/EWT(l)/EWT(m)/FBD/T/EWP(t)/ETI IJP(c)

ACC NR: AP6023867 SOURCE CODE: UR/0109/66/011/007/1196/1199

WG/JD/JG

AUTHOR: Solov'yev, Ye. G.; Abazadze, Yu. V.; Isayev, S. K.; Stepanova, Ye. G.; Krynetskiy, I. B.

ORG: none

TITLE: Traveling wave maser using chromium-doped rutile and a magnet with superconducting windings

SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1196-1199

TOPIC TAGS: solid state maser, traveling wave amplifier

ABSTRACT: A traveling-wave maser using a rutile crystal doped with Cr^{3+} is described. The maser uses a magnet with superconducting windings and is designed to work at the lower end of the decimeter band at a temperature of 4.2K. The device is placed either in a kryostat or in a helium-3 microcooler. The maser uses a dielectrically loaded delay comb structure (see Fig. 1), and was found to have the following characteristics: tuning range, 100 Mc; amplification, 15 to 20 db; bandwidth (at a 3-db level), 10—12 Mc; pumping power, 100 mw.

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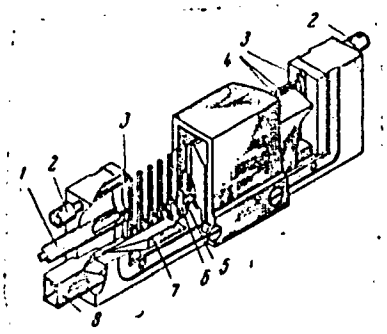
ACC NR: AF6023867



Several ways of increasing the gain of the device are given. Orig. art. has: 4 figures. [IV]

Fig. 1. Basic maser components

1 - Coaxial cable; 2 - teflon screw; 3 - excitation pin; 4 - teflon filling; 5 - ferrite disks; 6 - teflon holder; 7 - active crystal; 8 - pumping waveguide.

SUB CODE: 09/ SUBM DATE: 11May65/ ORIG REF: 003/ OTH REF: 002

ATD PRESS: 5045

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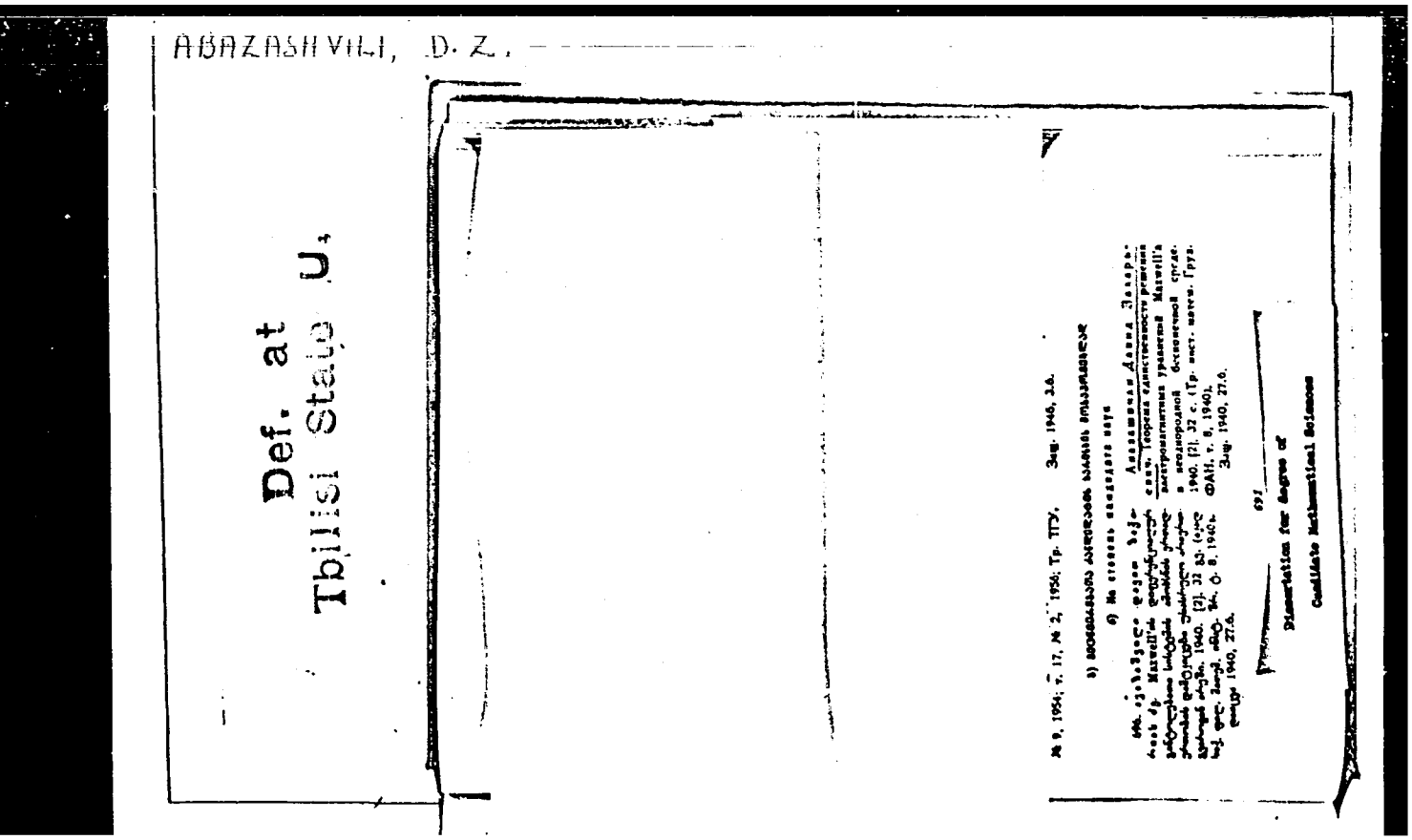

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Def. at
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№ 9, 1954; т. 17, № 2, 1956; Тр. ТГУ, Зад. 1946, 33.

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2. USSR (600)

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7. Winter use of water tank without heating. Zhil. - kom. khoz. 3, No. 2, 1953.

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Warming underground water pipes. Zhil-kom.khoz. 7 no.8:13 '57.
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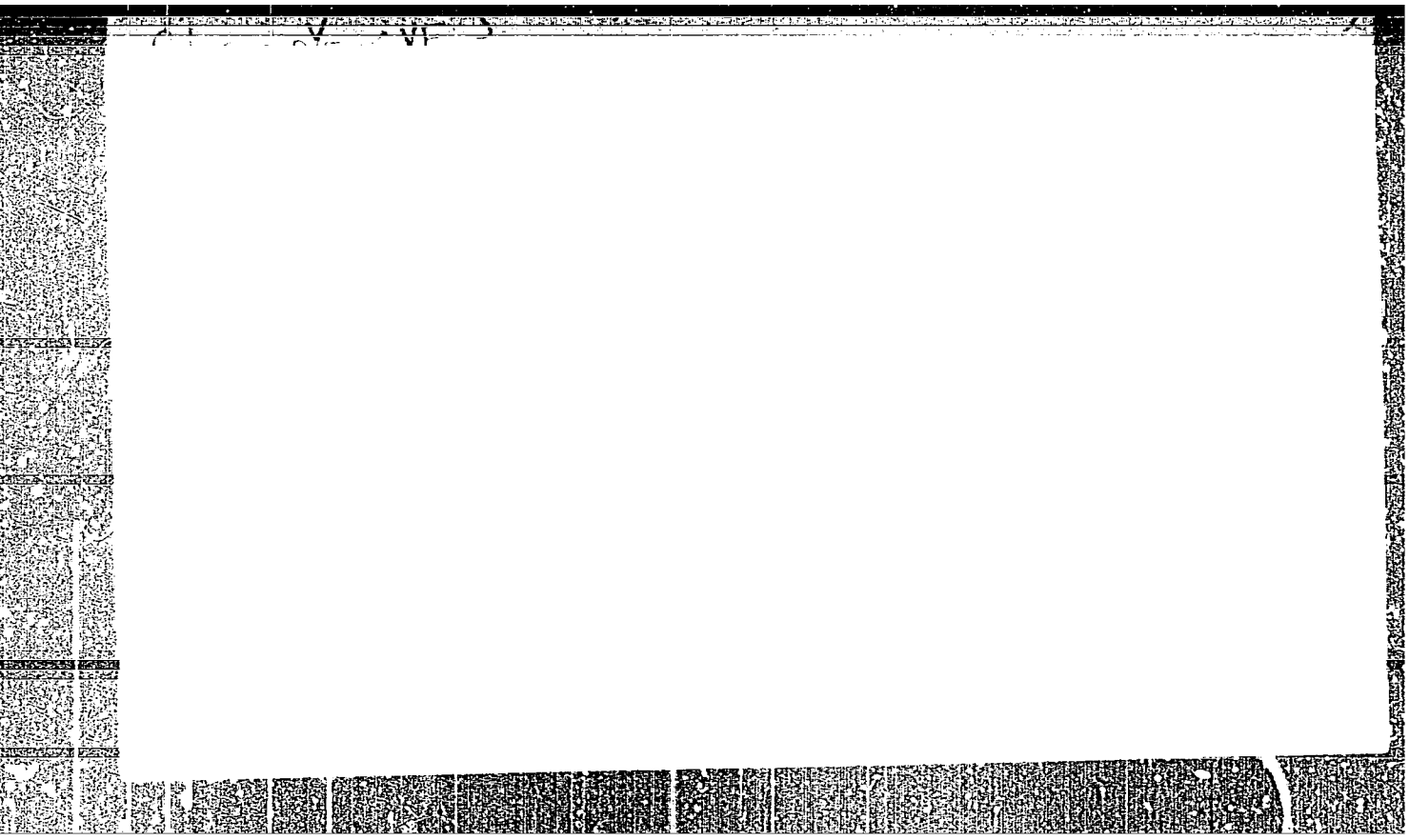
(Water pipes)



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000100110013-4"

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ABAZIYEV, S.L., inzh.

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1. Severo-Kavkazskaya zheleznaya doroga.
(Railroads—Brakes)

NADZHAROV, A.G., kand.med.nauk; ABAZOV, I.T., kand.med.nauk

Protein fractions of the blood serum in stomach cancer before surgery and at various intervals after gastric resection. Sov. med. 25 no.11: 68-73 N '61; (MIRA 15:5)

1. Iz Azerbaydzhanskogo nauchno-issledovatel'skogo instituta rentgenologii (dir. - dotsent M.M.Alikishibekov).
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(STOMACH--SURGERY)

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1. Nauchnoizsledovatelski institut za khimichna promishlenost.

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Studies on the activity of the Bulgarian silica gel as a filler in rubber industry. Godishnik khim tekh 8 no.2:63-71 '61 [publ. '62].

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Varietal characteristics of fodder pumpkin. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.3:29-33 '63. (MIRA 16:6)
(Karabakh Steppe--Pumpkin--Varieties)

ABB, E A

3(5,6) PHASE I BOOK EXPLOITATION SOV/2839

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Prikladnaya geofizika; sbornik statey, vyp. 23 (Applied Geophysics; Collection of Articles, No.23) Moscow, Gostoptekhizdat, 1959. 282 p. 3,500 copies printed.

Ed.: M.K. Polshkov; Exec. Ed.: N.N. Rix'mina; Tech. Ed.: A. S. Polesina.

PURPOSE: This book is intended for scientific, engineering, and technical personnel of industrial geophysical exploration services.

COVERAGE: This is a collection of 14 articles by various authors on aspects of geophysical exploration. The material treated in the articles may be divided into four categories: the physical properties of rocks in specific geological regions, methods and techniques used in industrial geophysical exploration, concepts in the theory of electrical exploration, and the economics involved in geophysical operations. Specifically, the authors discuss the geologic structures of the central parts of the Russian Platform, southeastern Turkmenia, the West Siberian Plains, the eastern part of the Siberian Platform, and the Minusinsk basin; electrical frequency sounding, neutron logging, gamma spectrometry techniques, and the standard equipment and installations of the geophysical services of the petroleum industry in the USSR. References accompany each article.

Nikolayevskiy, A.A. Density Characteristics of the Geological Profile of the Eastern Part of the Siberian Platform 112

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Tarkov, A.P. Nature of the Anomalous Gravitational Field of the Minusinsk Basin 136

Tsvetkin, A.Ya. Methods of Solving Problems in Neutron Logging 141

Kantor, S.A. The Effect of the Diameter of a Borehole on Instrument Readings in Neutron-Neutron Logging 174

Nedostup, G.A., P.M. Prokof'yev, A.I. Khalin, and A.F. Titovich. Use of Differential Gamma-Spectrometry in Petroleum Geology 193

Voskoboynik, M.I. The Speed of Electrical Logging in Combined Measurements With an Arbitrary Division of Channels 202

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ABE, M.A.; ZAPOROZHETS, V.M.; PLOTNIKOV, R.I.; KHUTSISHVILI, L.A.

Some problems in the construction of neutron generators for well logging. Prikl. geofiz. no.23:226-233 '59. (MIRA 13:1)
(Logging (Geology))

ABBAKUMOV, V.G.

Convective heating of a stationary layer of plates. Inzh.-fiz. zhur. 5 no.12:77-79 D '62. (MIRA 16:2)

1. Vsesoyuznyy institut ogneuporov, Leningrad.
(Heat--Convection)

SHUMILIN, A.A.; ABBAKUMOV, V.G.

Shaft heat exchanger of a rotary kiln for the firing of fireclays. Ogneupory 30 no.2:1-7 '65. (MIRA 18:3)

1. Vsesoyuznyy institut ogneuporov.

ABBAKUMOV, V.G.

Comparing the heat engineering aspects of various types of setting on tunnel kiln cars. Ogneupory 31 no.1: 17-22 '66. (MIRA 19:1)

1. Vsesoyuznyy institut ogneuporov.

ABRAKUMOVA, O.N.

Tagged isotopes and their role in studying cholesterol metabolism.
Lab.delo 4 no.2:20-23 Mr-Ap '58. (MIRA 11:4)

1. Iz I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova
(dir. - dotsent A.I.Ivanov)
(RADIOISOTOPES) (CHOLESTEROL METABOLISM)

LUR'YE, N.G.; DOBRINSKAYA, M.A.; ABBAKUMOVA-ZAKHAROVA, O.N.

Some metabolic changes in tissues of rats caused by malnutrition.
Vop.med.khim. 4:112-128 '52. (MIRA 11:4)
(MALNUTRITION) (METABOLISM)

ABBAS AGDAM ALAMDARI, M.R., (Agdami)

Bacteriological characteristics of the serologic types of coliform bacteria found in calves with colibacillosis in Azerbaijan. Izv.AN Azerb.SSR.Ser.biol.i med.nauk no.5:107-113 '62. (MIRA 15:9)
(AZERBAIJANI--ESCHERICHIA COLI)(AZERBAIJAN--CALVES--DISEASES AND PESTS)

ABBAS, Khodzha Akhmad

Until we reach the stars. Av.i kosm. 44 no.4:78-85 '62.
(MIRA 15:4)

(Gagarin, IUrii Alekseevich, 1934-)

USSR/Human and Animal Physiology. Metabolism. V

Abs Jour: Ref Zhur-Biol., No 6, 1958, 26620.

Author : L.I. Abbasguliyeva.
Inst :
Title : The Influence of Aprotein and Protein-Poor Diets on Certain Signs of an Organism's Reactivity.

Orig Pub: Azerb. tibb. zh., 1956, No 10, 17-23 (Azerb.), 68-71 (Russian).

Abstract: Maintaining rabbits on an aprotein or protein-poor (18% gelatin) diet for 6 to 7 weeks resulted in a reduction in erythrocyte count and Hb content in the peripheral blood with the appearance of anisocytosis and poikilocytosis. The changes in the white blood fraction toward the end of the experiment were characterized by a shift of the leukocytic

Card : 1/2

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formula to the right. There was noted a reduction in the dry residue of the blood, a diminution of the complement titer and a lessening of the cancerolytic capacity of the blood serum. The cytogram of a wound exudate was characterized by a sharp reduction, in comparison with the control, in the number of histiocytes and by the absence of profibroblasts and fibroblasts. Phagocytosis was slight.

ABBASOV, A., starshiy leytenant meditsinskoy sluzhby

Penicillin-novocaine infiltration in inflammation processes in the hand and fingers. Voen.-med. zhur. no.7:84 Jl '56. (MLRA 9:11)
(PENICILLIN) (NOVOCAINE) (HAND--DISEASES)

ABBASOV, A., general-mayor; SHEVERNITSKIY, V., podpolkovnik

Enveloping detachment in the mountains. Voen. vest. 42 no.1: 23-26 Ja '63. (MIRA 17:4)

Abbasov, A. A.

EXCERPTA MEDICA Sec.12 Vol.12/4 Ophthalmology April 58

595. THE TREATMENT OF RESISTANT FORMS OF TRACHOMA (Russian text) - Abbasov A.A. - SBORN. TRUD. AZERBAIJAN. OFTAL. INST. 1956, 1 (5-9)

In the treatment of resistant forms of trachoma a thorough examination of the patient is necessary in order to detect and treat concomitant diseases. Should treatment, however, remain ineffectual, one has to bear in mind the possibility of excessive irritation of the conjunctiva and unsuitable climatic conditions. (S)

PRESNOV, M.A.; ABBASOV, A.T.; PESTOVA, Ye.A.

Effect of sarcolysine and thioTEPA on ascites tumors in mice and rats. Vop. onk. 8 no.11:36-45 '62. (MIRA 17:6)

1. Iz Laboratorii eksperimental'noy khimioterapii (zav.- chlen-korrespondent AMN SSSR prof. L.F. Larionov) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (dir.- deystvitel'nyy chlen AMN SSSR, prof. N.N. Blokhin).

ABBASOV, A.A.

Pathological changes in the sympathetic ganglia in endarteritis obliterans. Dokl. AN Azerb. SSR 19 no.6:83-87 '63 (MIRA 17:7)

1. Azerbaydzhanskiy gosudarstvennyy meditsinskiy institut imeni N.Narimanova. Predstavleno akademikom AN AzSSR M.A. Topchibashevym.

ABBASOV, A.A. (Baku); MIRZADZHANZE, A.Kh. (Baku).

Approximate solution for a problem on the unsteady flow of a viscous plastic medium in a round cylindrical pipe. Izv. AN SSSR. Otd. tekh. nauk. no.12:122-124 D '55. (MLRA 9:3)
(Fluid mechanics)

MIRZADZHANZADE, A.Kh.; SHVARTS, Ya.A.; ABBASOV, A.A.

Displacement of drilling fluid by cement in the water string.
Dokl.AN Azerb. SSR 11 no.12:845-850 '55. (MLRA 9:7)

1.Neftyanaya ekspeditsiya AN Azerbaydzhanskoy SSR. Predstavlene deystvitel'nym chlenom AN Azerbaydzhanskoy SSR Z.I.Khalilovym.
(Oil well drilling fluids) (Petroleum engineering)

ABBASOV, A.A. (Baku); KASIMOV, A.F. (Baku); MIRZADZHANZADE, A.Kh. (Baku)

Displacement of a viscous fluid by another fluid in a vertical round cylindrical pipe in laminary flow. Izv.AN SSSR Otd.tekh.nauk no.3: 167-169 Mr '56. (MLRA 9:7)
(Pipe--Hydrodynamics) (Fluid mechanics)

SOV/124-57-7-7996

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 77 (USSR)

AUTHORS: Mirzadzhanzade, A. Kh., Abbasov, A. A.

TITLE: An Approximate Solution of the Heat-exchange Problem Under a Thixotropic Regime of Motion of a Viscoplastic Liquid in a Circular Cylindrical Duct (Priblizhennoye resheniye zadachi o teploobmene pri strukturnom rezhime dvizheniya vyazko-plastichnoy zhidkosti v krugloy tsilindricheskoy trube)

PERIODICAL: Dokl. AN AzerbSSR, 1956, Vol 12, Nr 3, pp 155-161

ABSTRACT: An approximate solution is found for the temperature distribution in a viscoplastic liquid flowing through a circular cylindrical duct with a prescribed temperature at the wall and in the entrance cross section. The parameters of the liquid are considered to be independent of the temperature. The formula of the heat transfer is written for the viscoplastic and the plastic regions (the term containing $\partial^2 T/\partial z^2$ is omitted and the effect of dissipation is disregarded). After separating the variables, equations are obtained for the radial distribution of the temperature for each region. These equations are solved by the Ritz method, wherein the functions are given as polynomials of even powers

Card 1/2

An Approximate Solution of the Heat-Exchange Problem Under a Thixotropic (cont.)

of r up to the fourth degree. Formulas are obtained describing the approximate distribution of the temperature in both regions of flow. The results are not discussed.

G. Z. Gershuni

Card 2/2

MIRZADZHANZADE, A.Kh; ABBASOV, A.A.

Approximate solution of the problem of unsteady motion of a viscous-plastic fluid in a circular cylinder tube. Dokl.AN SSSR 107 no.2: 249-251 Mr '56. (MIRA 9:7)

1.Predstavlena akademikom P.A.Rebinderem.
(Fluid dynamics) (Pipe--Hydrodynamics)

SOV/124-58-10-11208
Translation from. Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 72 (USSR)

AUTHOR: Abbasov, A.A.

TITLE: An Approximate Solution of the Problem of the Nonstationary Motion of a Viscous-plastic Fluid in a Plane Tube (Priblizhennoye resheniye zadachi o nestatsionarnom dvizhenii vyazkoplastichnoy zhidkosti v ploskoy trube)

PERIODICAL: Dokl. AN AzerbSSR, 1957, Vol 13, Nr 11, pp 1153-1158

ABSTRACT: A problem investigated earlier for a circular cylindrical tube (Dokl. AN SSSR, 1956, Vol 107, Nr 2, pp 249-251; RZhMekh, 1957, Nr 3, abstract 3119) is solved by the same approximated method, viz., the method of averaged acceleration evaluation (Slëzkin, N.A., Targ, S.M., Dokl. AN SSSR, 1946, Vol 54, Nr 3) for the case of a flow between two unbounded and immobile parallel planes. Numerical calculation samples are worked out by means of the formulas thus obtained; the results are presented in a table.

S.M. Targ

Card 1/1

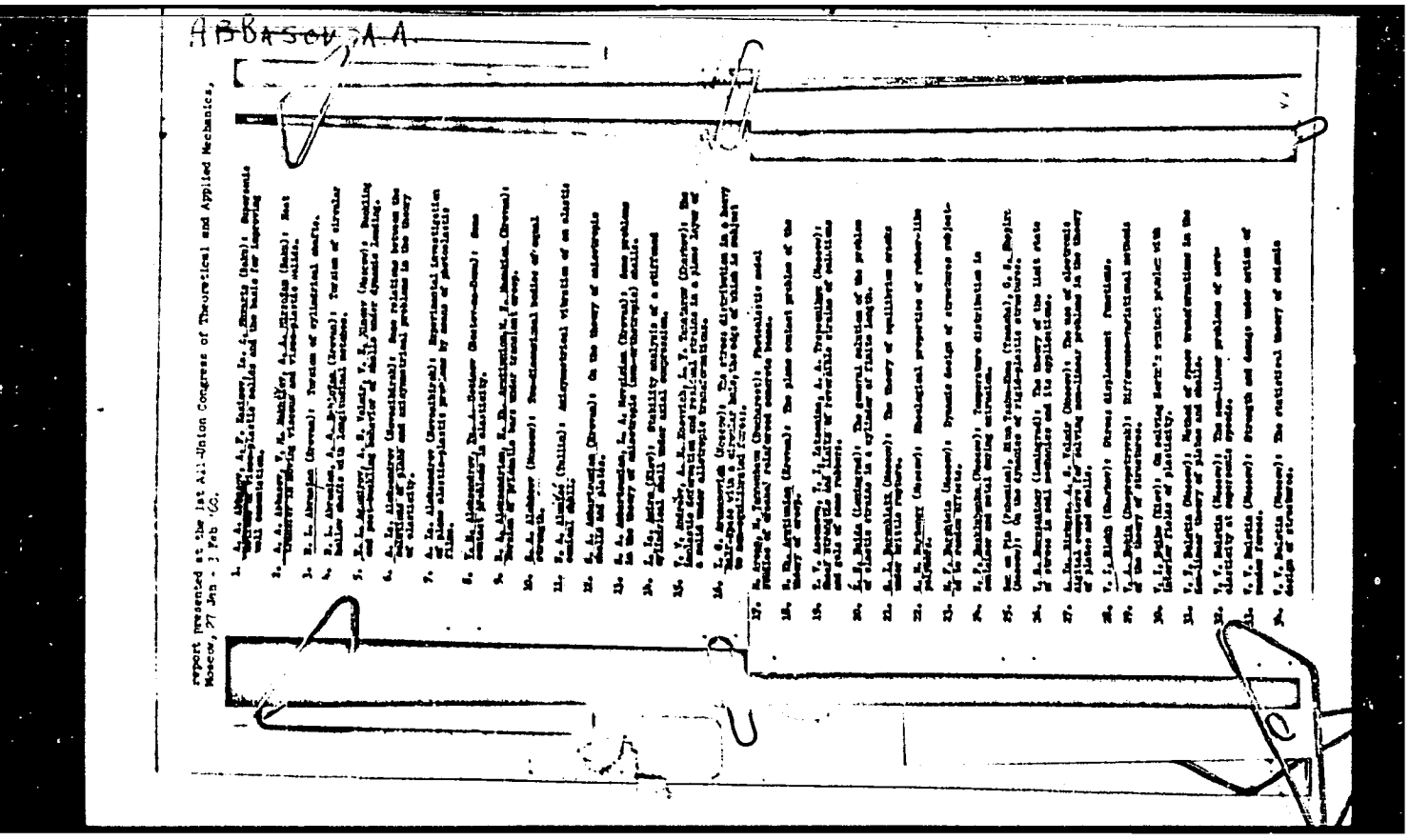
ABBASOV, A.A.

Approximate solution of a problem on heat exchange during the flow of viscoplastic fluids in pipes [in Azerbaijani with summary in Russian]. Azerb.neft.khoz. 36 no.7:12-14 Jl '57. (MIRA 10:10)
(Oil well drilling fluids)
(Heat--Transmission)

ABBASOV, A.A.

Displacement of drilling muds by cement mortar in casing columns.
Azerb. neft. khoz. 37 no.2:14-16 F '58. (MIRA 11:6)
(Oil well cementing)

ARBASOV, L.A., Grad Tech Sci--(diss) "Problems of hydrodynamics of viscous plastic liquids [illegible] application to the drilling of petroleum wells." Baku, Publishing House of the Acad of Sci Azerbaydzhan SSR, 1958. 16 pp (Acad Sci Azerbaydzhan SSR. Inst of Petroleum), 100 copies (KL,25-59,111)



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report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 60.

ABBASOV, A.A.; IBRAGIMOV, F.M.; KASIMOV, A.F.

Consecutive flow of three fluids between two annular coaxial cylinders. Trudy AzNII DN no.10:442-448 '60. (MIRA 14:4)
(Fluid dynamics)

ABBASOV, A.A.

Temperature distribution in the displacement of petroleum from a stratum by means of hot liquids. Izv. AN Azerb.SSR. Ser. fiz.-mat. i tekh. nauk 2:121-127 '61. (MIRA 14:7)
(Thermodynamics) (Oil reservoir engineering)

ABBASOV, A.A., kand.tekhn.nauk; MURACHKOVSKAYA, N.K., inzh.

Distribution of rates in consecutive flowing of two viscoplastic fluids in a vertical circular pipe in structural flow. Nauch.zap.-Ukrniiproekta no.4:42-45 '61. (MIRA 15:1)
(Oil well cementing)

ABBASOV, A.A., kand.tekhn.nauk; KISEL', V.A., inzh.

Theoretical study of the process of heat exchange in miscible phase recovery with a hot agent. Nauch.zap.Ukrniiproekta no.4:69-75 '61. (MIRA 15:1)

(Oil reservoir engineering)

ABBASOV, A.A., kand.tekhn.nauk; KISEL', V.A., inzh.

Temperature distributions in miscible phase recovery with a hot agent. Nauch.zap.Ukrniiproekta no.4:83-86 '61. (MIRA 15:1)
(Oil reservoir engineering)

ABBASOV, A.A.

Distribution of temperature in thermal oil displacement. Trudy Inst. razrab. neft. i gaz. mestorozh. AN Azerb. SSR 1: 160-172 '62. (MIRA 16:6)

(Petroleum production—Thermal)

ABBASOV, A.A.

Temperature distribution in the expulsion of petroleum from a stratum by a hot agent. Izv. AN Azerb.SSR. Ser. fiz.-mat. i tekh. nauk no.4:105-111 '62. (MIRA 16:2)
(Petroleum engineering)

ABBASOV, A.A.

Self-modeling solution to the problem concerning the displacement of oil by a hot agent from a bed. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.6:125-129 '62. (MIRA 16:6)
(Oil field flooding)

ABBASOV, A.A., inzh.; KISEL', V.A., inzh.

Temperature distribution in thermal production. Nauch. zap. Ukrniiproekta no.9:97-100 '62. (MIRA 16:7)
(Petroleum production, Thermal)

ABBASOV, A.A.

Calculation of the distribution of temperatures and heat wave boundary in thermal oil recovery. Azerb. neft. khoz. 41 no.11:23-26 N '62. (MIRA 16:2)
(Secondary oil recovery)

Thermodynamic properties of indium arsenide. A. A. Abbasov, A. V. Nikol'skaya, V. P. Vasil'yev, Ya. I. Gerasimov.

Thermodynamic properties of gallium arsenide. A. A. Abbasov, A. V. Nikol'skaya, V. P. Vasil'yev, Ya. I. Gerasimov.

Thermodynamic investigation of the system gallium-tellurium. A. A. Abbasov, A. V. Nikol'skaya, V. P. Vasil'yev, Ya. I. Gerasimov.

Thermodynamic properties of aluminum antimonide. V. A. Geyderikh, A. A. Vecher, Ya. I. Gerasimov.
(Presented by A. V. Nikol'skaya--20 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

ABBASOV, A.A..

Unsteady motion of a viscoplastic liquid between a rotating and a stationary coaxial cylinder. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.4:99-104 '63. (MIRA 16:12)

ABBASOV, A.A.; KASIMOV, Sh.A.; TAIROV, N.D.

Investigating the effect of super-heated vapor on the oil yield.
Neft. khoz. 42 no. 5:44-49 My '64. (MIRA 17:5)

ABBASOV, A.A.; KASIMOV, Sh.A.

Effect of the lithological composition of oil-reservoir rocks on the oil recovery when flooding oil with a hot agent. Doki. AN Azerb. SSR 21 no.1:28-30 '65.

(MIRA 18:5)

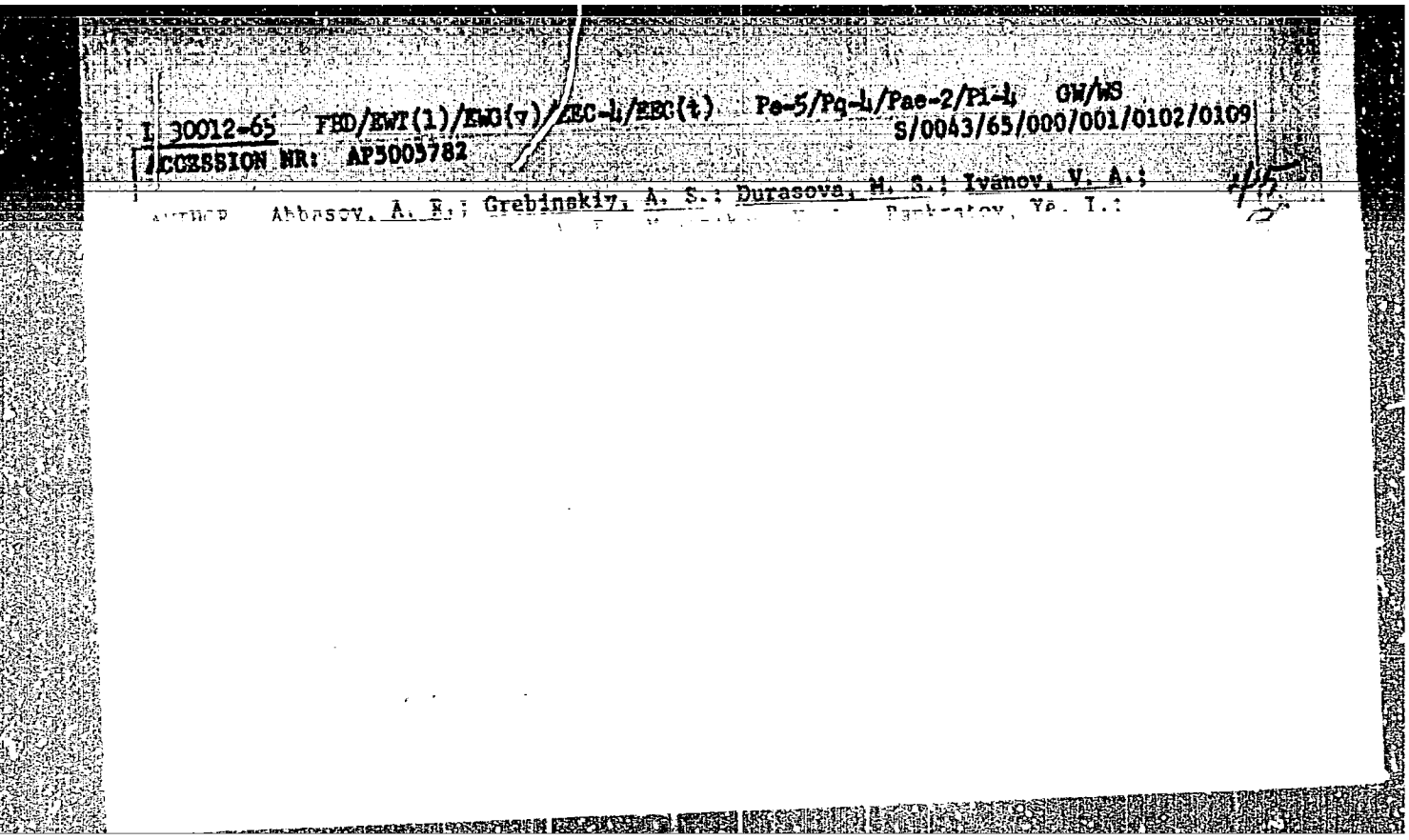
1. Institut razrabotki neftyanykh i gazovykh mestorozhdeniy AN AzerSSR.

ANNAGIYEV, A.A., kand. veter. nauk; ABBASOV, A.A., aspirant

Treating necrobacillosis in lambs. Veterinariia 42 no.7:40 Jl '65.
(MIRA 18:9)

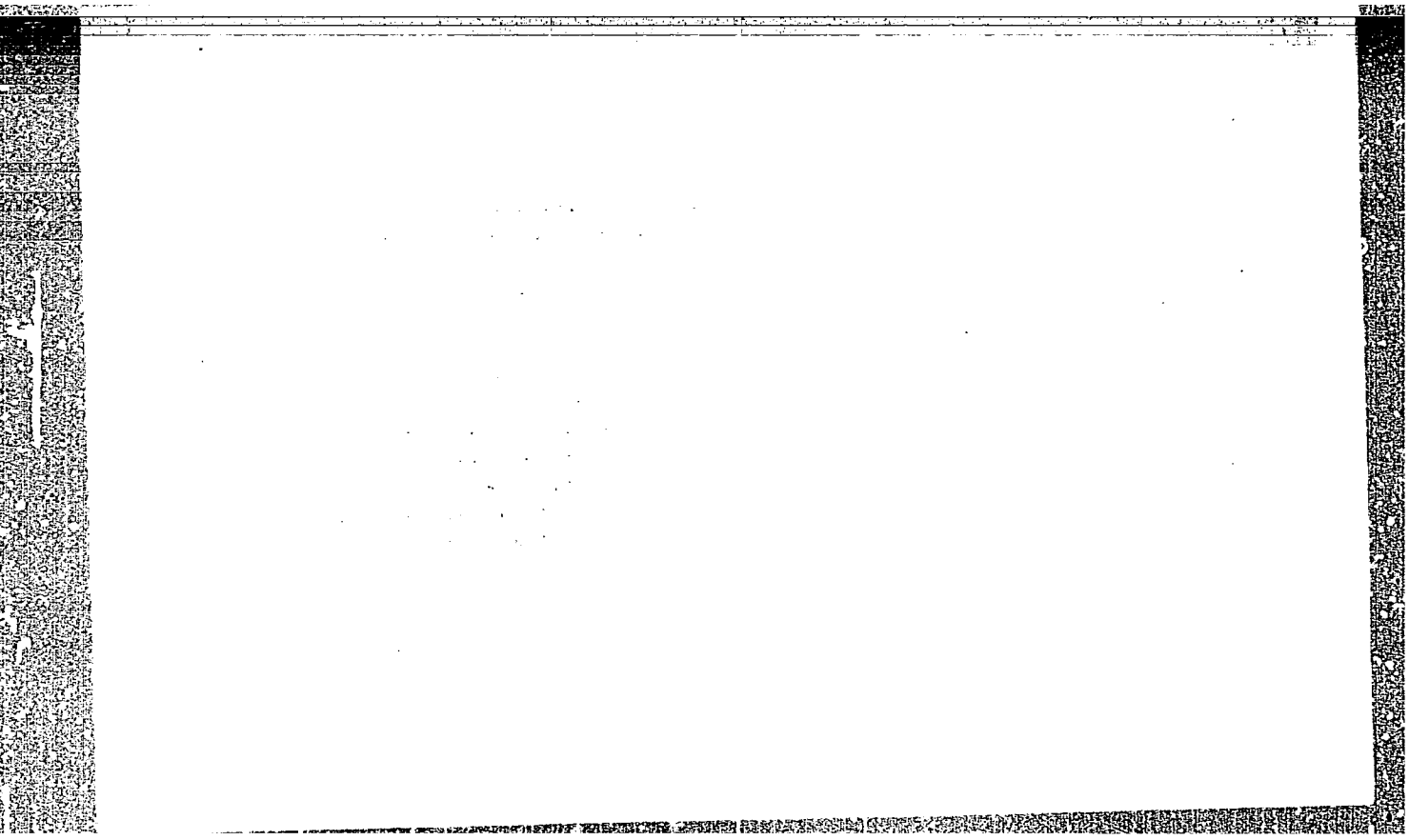
1. Azerbaydzhanskiy nauchno-issledovatel'skiy veterinarnyy institut.

ABBASOV, A. K. Cand Agr Sci -- "Study of the chemical and mechanical delintage of cotton seeds." Kirovabad, 1961 (Committee of Higher and Secondary Specialized Education of the Council of Ministers AzSSR. Azerbaydzhan Agr Inst). (KL, 4-61, 203)



L 30012-65 FBD/EWT(1)/EWG(v)/EEC-4/EEC(t) Pe-5/Pq-4/Pae-2/Pi-4 GW/WS
ACCESSION NR: AP5005782 S/0043/65/000/001/0102/0109

AUTHOR: Abbasov, A. E.; Grebinskiy, A. S.; Durasova, M. S.; Ivanov, V. A.; [illegible]



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000100110013-4"

L 9418-66 FBD/EWT(1) GW/WS-2

ACC NR: AP5027361 SOURCE CODE: UR/0043/65/000/004/0140/0142

59
57
B

AUTHOR: Abbasov, A. R. 55

ORG: none

TITLE: On some characteristics of sources of radio-frequency radiation related to active regions on the sun (preliminary report) 12,55

SOURCE: Leningrad. Universitet. Vestik. Seriya matematiki, mekhaniki i astronomii, no. 4, 1965, 140-142 55

TOPIC TAGS: solar radiation, solar flare, solar activity, solar disk, solar limb, solar radio emission, solar telescope, least square method, sunspot 12,55

ABSTRACT: The dependence of the radiation flux F_s of a single solar source upon the distance of the source from the center of the solar disk θ is studied. The behavior of radiation flux before strong bursts is also investigated. The work was done because of the importance of the characteristic in explaining the mechanism of solar radio-frequency radiation. Data from routine observations of solar radio-frequency radiation were used (Quarterly bulletin of solar data. Zürich): Five cases during 1962--1963 when there was an active region that remained isolated during its entire period of movement from $\theta = 0$ to $\theta = 90^\circ$ and for at least two days afterward were used. The level of the "quiet" sun was determined by the method of least squares by extrapolation of the area of the flares and spots to zero. The radiation flux of the

UDC: 523.164

Card 1/2

2

source was found by subtracting the diurnal integral fluxes from this level. The desired dependence (see Fig. 1)

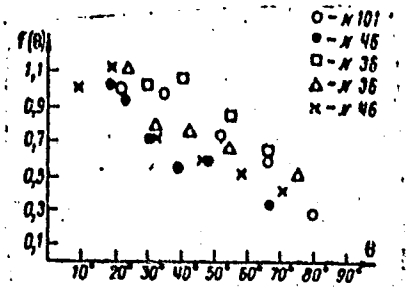


Fig. 1. Specific radiation of source versus angular distance of spots to center of disk.

was found by dividing this flux F_s by the area of the spots for each day as they moved from the center to the limb. It was also found that a decrease in radiation flux is observed before strong bursts, but that it increases after the bursts. The author thanks A. P. Molchanov and A. S. Grebinskiy for valuable advice. Orig. art. has: 1 formula and 2 graphs.

SUB CODE: 03/ SUBM DATE: 05Apr65/ ORIG REF: 007/ OTH REF: 008

Card 2/2

L 21843-66 EWT(1)/FBD GW/WB-2

ACC NR: AP6006901 SOURCE CODE: UR/0043/66/000/001/0174/0176

AUTHOR: Abbasov, A. R.

ORG: none

TITLE: The frequency spectrum of the slowly varying component of solar radio emission

SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1966, 174-176

TOPIC TAGS: solar activity, solar radio emission spectrum, sunspot, flocculation, astronomic observation, sun

ABSTRACT: A statistical study of the spectra of solar radio emission connected with both sunspots and flocculi is made from the processed results of daily observations in 1961, 1962, and 1963. Data on solar radio emission at λ_1 = 3.2 cm, λ_2 = 8 cm (Toyokowa), λ_3 = 10 cm (Ottawa), and λ_4 = 15 cm (Toyokawa) were used (Quarterly Bulletin on Solar Activity, No. 134-142). Equations of the form

Card 1/3 UDC: 523.164

L 21843-66
ACC NR: AP6006901

$$F_{\lambda_i} = a'_{11_i} \sum_{k=1}^{k} S^n_{P_k} + a'_{21_i} \sum_{k=1}^{k} S_{\Phi_k} + F'_{\omega_i}$$

$$F_{\lambda_i} = a_{11_i} \sum_{k=1}^{k} S^n_{P_k} + F_{\omega_i},$$

were used to study the results of routine observations. The emission maximum in the frequency spectrum for sunspots is at $\lambda \sim 8$ cm and for flocculi at $\lambda \geq 10$ cm (see Fig. 1). The author thanks A. P. Molchanov for valuable advice.

Card 2/3

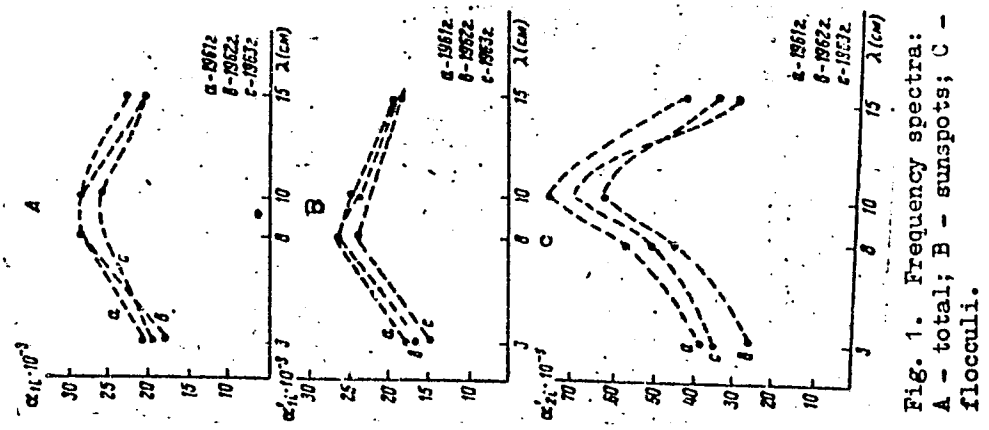


Fig. 1. Frequency spectra: A - total; B - sunspots; C - flocculi.

Orig. art. has: 2 formulas and 2 graphs.

SUB CODE: 03/ SUBM DATE: 26Aug55/ ORIG REF: 004/ OTH REF: 006

Card 3/3 net

S/020/62/147/004/016/027
B107/B186

AUTHORS: Gerasimov, Ya. I., Corresponding Member AS USSR,
Abbasov, A. S., Nikol'skaya, A. V.

TITLE: Thermodynamic properties of indium tellurides

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 4, 1962, 835-838

TEXT: The thermodynamic properties of In_2Te_5, In_2Te_3, InTe, and In_2Te were determined between 380 and 425°C from the e.m.f. of concentration chains. A eutectic LiCl - KCl mixture was used as electrolyte. The In_2Te_5 - Te chain was studied between 300 and 420°C, and a mixture containing 18, 12, and 70% by weight of KCl, NaCl, and $ZnCl_2$, respectively, was used as electrolyte. The studies were conducted in an argon atmosphere or in vacuo. The results may be expressed by $E = A + B \cdot T$. $E = 0.3350 + 0.176 \cdot 10^{-3}$ T for In_2Te_5 - Te; $E = 0.2327 + 0.102 \cdot 10^{-3}$ ± 0.008 for In_2Te_5 - In_2Te_3; $E = 0.1182 + 0.248 \cdot 10^{-3}$ T ± 0.007 for

Card 1/3

S/020/62/147/004/016/027
B107/B186

Thermodynamic properties of ...

In_2Te_3 - InTe; E = 0.2550 - $0.300 \cdot 10^{-3}$ T ± 0.004 for InTe - In_2Te. Hence the thermodynamic data in Table 2 are calculated. Furthermore, the lattice constants of indium tellurides were determined from powder patterns taken with an RKD-57 (RKD-57) camera and copper radiation. For In_2Te_5, a focussing Guinier camera with a single-crystal monochromator was used. Results obtained agree well with those known in literature (cf. K. Schubert et al., Naturwiss. 41, 448 (1954)). There are 3 figures and 2 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: July 13, 1962

Card 2/3

S/020/62/147/004/016/027
B107/B186

Thermodynamic properties of ...

Table 2. Thermodynamic data for indium tellurides. Legend: (1) phase; (2) - $\Delta G_{673^\circ K}$, in kcal; (3) $-\Delta H$, in kcal; (4) ΔS, entropy units (for 1 mole); (5) - $\Delta G_{673^\circ K}$, in kcal, ΔH, in kcal; (6) ΔS, entropy units (for 1 atom).

(1)	(2)	(3)	(4)	(5)		(6)
In_2Te_5	20,8±0,5	15,4±3,0	+8,0±2,0	3,0	2,2	+1,1
In_2Te_3	18,0±0,3	13,5±3,2	+6,7±2,0	3,6	2,7	+1,3
InTe	8,2±0,2	5,4±1,8	+4,0±1,0	4,1	2,7	+2,0
In_2Te	9,4±0,3	11,3±2,0	−3,0±1,5	3,1	3,8	−1,0

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S/0020/64/156/001/0118/0120

ACCESSION NR: AP4035815

AUTHOR: Abbasov, A. S.; Nikol'skaya, A. V.; Gerasimov, Ya. I. (Corresponding member); Vasil'yev, V. P.

TITLE: Determination of the thermodynamic properties of indium arsenide from the electromotive force measurements

SOURCE: AN SSSR. Doklady*, v. 156, no. 1, 1964, 118-120

TOPIC TAGS: electromotive force, indium arsenide, thermodynamic property, entropy, enthalpy, Gibbs free energy, thermodynamic function

ABSTRACT: Indium arsenide belongs to a group of compounds of the $A^{III}B^{V}$ type. This group of semiconductors is now the subject of extensive investigations. The purpose of this work was to study the basic thermodynamic properties of InAs. This investigation of thermodynamic properties of InAs was based on the measurement of emf of the following cell

(-)In(l)/chloride melt + InCl/(InAs As)(s)(+)

These investigations were carried out in the 240 - 510 C temperature interval. On the basis of a phase diagram of In-As it was concluded that electrodes of

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ACCESSION NR: AP4035815

arsenic-arsenide type, regardless of the excess amount of As, are in the two-phase region. Thus, the emf of such cells corresponds to the formation of arsenide from the components, and may be represented as follows:

$$In(l) + As(S) = InAs(s) \qquad (I)$$

Directly from emf measurements the authors calculated the change of Gibbs free energy (ΔG^0) for reaction (I)

$$\Delta G = -nFE$$

where n is the charge on metal ion, (n=1 for In), F is the Faraday's constant equal to 23062 cal/v·g-gequiv., and E is the emf in volts. The change of entropy and enthalpy of this process was calculated from the measurements of emf as a function of temperature

$$\Delta S = -d(\Delta G)/dt = nF \frac{dE}{dt}$$

$$\Delta H = \Delta G + T\Delta S$$

"The authors express their gratitude to L. Ya. Krol' and M. D. Khlystovskaya of the Institute of Rare Elements (Institute redkikh elementov) for the preparation of the indium arsenide." Orig. art. has: 1 table and 1 figure.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

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ACCESSION NR: AP4035815

(Moscow State University)

SUBMITTED: 17Jan64 ENCL: 00

SUB CODE: SS, IC NO REF SOV: 008 OTHER: 006

Card 3/3

ACCESSION NR: AP4040953 S/0020/64/156/005/1140/1142

AUTHOR: Abbasov, A. S.; Nikol'skaya, A. V.; Vasil'yev, V. P.; Gerasimov, Ya. I. (Corresponding member, AN SSSR)

TITLE: Analysis of the thermodynamic properties of gallium tellurides by electromotive force method

SOURCE: AN SSSR. Doklady*, v. 156, no. 5, 1964, 1140-1142

TOPIC TAGS: emf, gallium, gallium telluride, gallium telluride compound, Te, gallium mono-telluride, gallium sesquitelluride, semiconductor, gallium trichloride

ABSTRACT: The phase diagram of the system gallium-tellurium given in Khausen and and Anderko's nomograph (Struktura dvoyny*kh splavov, Moscow, 1962, page 806) points out the existence of compounds of Ga_2Te_3 and Ga Te compositions without homogeneity intervals. They also noted that the structure of a region rich in tellurium was not fully explained. They assumed that a telluride of the composition $Ga Te_3$ was formed in it. The purpose of the present paper was an anlaysis of the thermodynamic properties of gallium tellurides. The authors used the emf method in their analysis. The methodology of this method was described previously by A. V. Nikol'skaya et al (DAN, 130, No. 5, (1960, 1074) and by Ya. I. Gerasimov

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ACCESSION NR: AP4040953

and A. V. Nikol'skaya (Voprosy metallurgii i fiziki poluprovodnikov, Izd. AN SSSR, 1961, page 30). Concentration electrochemical chains of the type

$$(-)\ Ga_{liquid} \left| \begin{matrix} \text{liquid} \\ \text{electrolyte} + GaCl_3 \end{matrix} \right| (Ga_x Te_{1-x})\ (+)\ \text{solid},$$

where x is the gallium mole fraction, were studied. The phases were identified by X-ray analysis for the stoichiometric compositions as well as for transition alloys. The parameters which were found are in satisfactory agreement with those found in literature: a=5.89 angstrom for $Ga_2 Te_3$, a=23.79 angstrom for Ga Te, b=4.08 angstrom, c=10.49 angstrom, and β=45.7°. Alloys with compositions of 53.2 - 84.2 at .% of Te were analysed. Findings showed that all alloys with compositions of 63.5 to 84.2 at .% of Te yielded a constant emf value within an experimental error of ± 11.0 millivolts. This indicates that the examined alloys lie in one and the same phase space. Alloys with 53.2 to 55.7 at .% of Te also yielded constant values, which corresponds to the formation of the Ga Te phase from $Ga_2 Te_3$ and gallium. Equations of the form E=A+BT were found for the relationship between emf and absolute temperature as the result of processing the experimental data by the least square method. The errors in the emf magnitudes and smoothing coefficients A and B, which determine the precision for calculation of temperatures and entropies, were calculated with equations of the least squares technique. Findings

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ACCESSION NR: AP4040953

are generalized in a table. Orig. art. has: 1 figure, 2 tables and 3 equations.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 22Feb64 ENCL: 00

SUB CODE: GS, MM NO REF SOV: 008 OTHER: 008

Card 3/3

ACCESSION NR: AP4041405 S/0020/64/156/006/1399/1401

AUTHOR: Abbasov, A. S.; Nikol'skaya, A. V. ; Vasil'yev, V. P. ; Gerasimov, Ya. I. (Corresponding member AN SSSR)

TITLE: Investigation of the thermodynamic properties of gallium antimonide by the electromotive force method

SOURCE: AN SSSR. Doklady*, v. 156, no. 6, 1964, 1399-1401

TOPIC TAGS: gallium antimonide, thermodynamic property, electromotive force, isobaric isothermal potential, entropy, enthalpy

ABSTRACT: The thermodynamic properties of GaSb were calculated from the e.m.f. of the cell $Ga_{liq} | (KCl\text{-}LiCl)_{melt} + GaCl_3 | (GaSb + Sb)_{solid}$ in the 360-560C temperature interval wherein the e.m.f. of the reaction of liquid Ga and solid Sb to form solid GaSb was measured (fig. 1). The isobaric-isothermal potential, entropy and enthalpy were calculated for the given temperature range and for standard temperature from $E = 161.1 - 0.095T$ mv:
$-\Delta G = 3.2 \pm 0.3$, $-\Delta G^0 = 4.5 \pm 0.3$ kcal/gm.atom;
$-\Delta S = 3.3 \pm 0.7$, $-\Delta S^0 = 0.7 \pm 0.7$ electron ergs/gm. atom;
$-\Delta H = 5.6 \pm 0.5$, $-\Delta H^0 = 4.7 \pm 0.5$ kcal/gm.atom.

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ACCESSION NR: AP4041405

The thermodynamic functions for the formation of GaSb from monatomic gas molecules were also calculated; ΔH_{298} = 68.5 kcal/gm.atom; ΔS_{298} = 32.1 electron ergs/gm.atom; ΔG_{298} = 59.0 kcal/gm. atom.

Orig. art. has: 2 tables and 1 figure

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M.V. Lomonosova (Moscow State University)

SUBMITTED: 22Feb64 ENCL: 01

SUB CODE: 7D,IC NR REF SOV: 007 OTHER: 006

Card 2/3

ENCLOSURE: 01

ACCESSION NR: 4041405

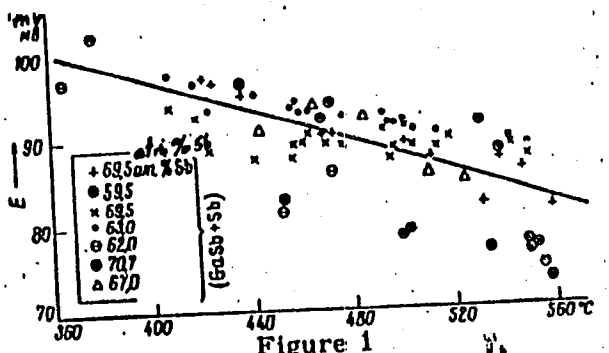

Figure 1

Dependence of electromotive force on the temperature in the cell
$Ga_{liq} | (KCl - LiCl)_{melt} + GaCl_3 | (GaSb + Sb)_{solid}$

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ACCESSION NR: AP4042214 S/0020/64/157/002/0430/0432

AUTHOR: Sharifov, K. A.; Abbasov, A. S.

TITLE: Relationship between the width of forbidden zone and Gibbs free energy of solid nonmetals.

SOURCE: AN SSSR. Doklady*, v. 157, no. 2, 1964, 430-432

TOPIC TAGS: Gibbs free energy, forbidden zone, semiconductor, atomization free energy, thermodynamics

ABSTRACT: In recent years a great interest has been aroused in relating the width of the forbidden zone of semiconductor ΔE and its energy (thermodynamic) properties. The width of forbidden zone ΔE must depend on the strength of the chemical bond. The stronger the bond the greater is ΔE. Since there are no direct methods for measuring bond energy in solids use is made of some property of the substance which may characterize it, at least approximately. Thus, one may use ΔH, but it is a characteristic of the system and not of the phase. The relationship $\Delta E = q(\Omega - \Omega^{\circ})$ after thermodynamic treatment enables correlation of ΔE with such parameters as internal energy, heat capacity and Debye

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ACCESSION NR: AP4042214

temperature. In this equation q and Ω° are constants and Ω is the energy of atomization. This relationship is well justified by a great deal of experimental material, but it is not applicable to the PbS series (PbS, PbSe and PbTe). These substances display "anomalous" behavior in that all of their properties change in accordance with periodic law, while ΔE of PbSe has not intermediate but minimum value. This lead to the idea that in the general case ΔE must be a linear function of the change of Gibbs free energy during the formation of a given substance from gaseous components, called the free energy of atomization ΔG at $\Delta E = p(\Delta G_{at} - \Delta G^{\circ}_{at})$ where p and ΔG_{at} are constants. It is stated that this expression is not necessarily absolute because more accurate experimental data are required. Figure 1 of the enclosure shows the relationship of ΔE and ΔG_{at} for some simple and binary substances with diamond structure, ZnS, NaCl and antifluorite. It is interesting that G_{at} is well justified even in the case of "anomalous" PbS series. Orig. art. has: 3 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 10Mar64 DATE ACQ: 00 ENCL: 01

Card 2/4

ACCESSION NR: AP4042214

SUB CODE: TD, SS NO REF SOV: 014 OTHER: 007

Card 3/4

ACCESSION NR: AP4042214

ENCLOSURE: 01

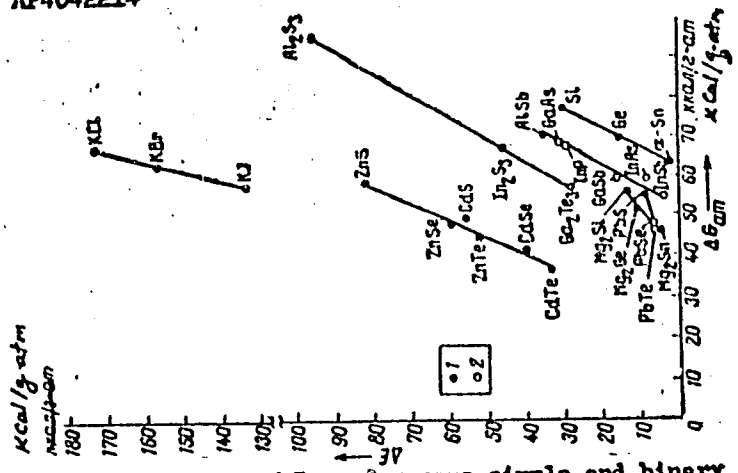

Fig. 1. ΔE as a function of ΔG_{at} for some simple and binary substances.
1 - literature data
2 - for ΔG_{at} the original results of the authors were used.

Card 4/4

ACC NR: AP6034757 SOURCE CODE: UR/0020/66/170/005/1110/1112

AUTHOR: Abbasov, A. S.; Mamedov, K. N.; Nikol'skaya, A. V.; Gerasimov, Ya. I. (Corresponding member AN SSSR); Vasil'yev, V. P.

ORG: Physics Institute, Academy of Sciences AzerbSSR (Institut fiziki Akademii nauk AzerbSSR); Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Thermodynamic properties of gallium arsenide investigated by the electromotive force procedure

SOURCE: AN SSSR. Doklady, v. 170, no. 5, 1966, 1110-1112

TOPIC TAGS: gallium arsenide, thermodynamic property, emf, electric conductivity, semiconductor device, quantum generator

ABSTRACT: Since GaAs is important as the active ingredient in semiconductor injection quantum generators, which convert electric current directly into high-efficiency coherent radiation, its basic thermodynamic properties were studied. A procedure is described for measuring electric conductivity through GaAs electrodes in an electrolyte of LiCl + KCl with 0.1% of $GaCl_3$ added, at temperatures ranging from 637 to 741C. The 99.99% pure components were pressed in 6 x 3mm tablets with tungsten wire contacts protruding. Electric conductivity and electrolyte temperatures were both registered by PPTV-1 potentiometers as the temperature rose and again as it declined in all test series, the relation being plotted on a graph. All test findings were processed by

UDC: 541.1.11.115

Card 1/2

ACC NR: AP6034757

the method of least squares and expressed by a formula for comparison with a similar formula evolved in tests with an electrolyte $ZnCl_2$ + KCl + NaCl, which however, proved more subject to error than the LiCl + KCl. Standard thermodynamic properties were also worked out for 298C and with findings by other scientists. The authors are grateful to L. Ya. Krol' and L. P. Aleksandrova for providing gallium arsenide specimens. Orig. art. has: 6 formulas, 1 table, and 1 figure.

SUB CODE: 11/ 09/ SUBM DATE: 18Feb66/ ORIG REF: 008/ OTH REF: 012

Card 2/2

ABBASOV, A. T., Cand Med Sci -- (diss) "Intracavitary administration of chemotherapeutic drugs in some types of malignant tumors." Moscow, 1960. 17 pp; (Academy of Medical Sciences USSR); 200 copies; price not given; (KL, 31-60, 143)

ABBASOV, A.T.

Combined chemotherapeutic and surgical therapy of a patient with an advanced form of cancer of the stomach. Vop.onk. 6 no.2:87-89 F '60. (MIRA 14:2)

(STOMACH—CANCER) (MELAMINE)

ABBASOV, A.T.

Experience in the intracavitary use of sarcolysin and thio-tepa in malignant ovarian tumors. Vop. onk. 6 no.4:23-30 Ap '60. (MIRA 14:3)

(OVARIES--CANCER) (ALANINE)
(PHOSPHINE SULFIDE)

KLIMANOVA, Z.F.; ABBASOV, A.T.

Clinical and cytological evaluation of the effectiveness of chemotherapy for various malignant tumors. Vop. onk. 6 no. 10:19-23 O '60. (MIRA 14:1)

(CYTOTOXIC DRUGS)

BLOKHIN, N.N.; ABBASOV, A.T.

Primary dermatoplasty in the surgical treatment of skin cancer. Vest. khir. 94 no.2:71-74 F '65. (MIRA 18:5)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. - doktor med. nauk B.Ye. Peterson) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N. Blokhin).

ABBASOV, B.Kh.

Echinococcosis of the vermiform process. Azerb. med. zhur. 41 no.3:71-73 Mr '64. (MIRA 17:10)

ABRASOV, Ch.I.; MELIK-ASLANOV, L.S.

Permissible duration of the oil-well production period with sand ejection. Azerb.neft.khoz. 41 no.5:25-26 My '62.
(MIRA 16:2)
(Oil fields—Production methods)

MELIK-ASLANOV, L.S.; ABBASOV, Ch.I.

Deformation in oil strings. Nefteprom. delo no. 3:12-15 '64.
(MIRA 17:5)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

ABBASOV, F. A.

ABBASOV, F. A. -- "Creeping of Concrete during Expansion and the Effect of This on the Resistance of Expanded Parts of Reinforced-Concrete Girders." Min Construction Materials Industry azerbaydzhan SSR. Azerbaydzhan Sci Res Inst of Construction Matdrials and Structures imeni S. A. Dadashev. Baku, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SOURCE Knizhnaya Letopis', No 1956

IZMAYLOV, Ya.A.; ABBASOV, F.A.; GORSKIY, R.G.; ZEYNALOVA, T., red.; BAGIROVA, S., tekhn. red.

[Experimental apartment house made of vibrated concrete panels] Eksperimental'nyi zhiloi dom iz vibrokamennykh panelei. Baku, Azerbaidzhanskoe gos.izd-vo, 1963. 115 p. (MIRA 17:2)

AKHEMDLI, M.K.; ABBASOV, G.A.

Ammonia method of unwinding silkworm cocoons. Uch. zap. AGU. Fiz.-mat. i khim. ser. no.3:67-76 '59. (MIRA 14:3)
(Sericulture)

ABBASOV, G. K., Cand Agr Sci -- (diss) "Interspecies difference of cattle, zebu, and buffalo of Azerbaydzhan in digestion and the utilization of these differences in various types of regions." Yerevan, 1960. 20 pp; (Committee of the Council of Ministers Armenian SSR for Higher and Secondary Specialist Education, Yerevan Zootechnical-Veterinary Inst); 120 copies; price not given; (KL, 25-60, 136)

[redacted]

[illegible] of young roach (Rutilus rutilus [illegible]) [illegible] Mingechaur Reservoir. Izv.Akad.nauk [illegible]. Ser. 11 no.6:[illegible] '57. (MLRA 10:8)

1.Institut zoologii Akademii nauk Azerbaydzhanskoy SSR. Predstavleno [illegible] AN Azerbaydzhanskoy SSR A.M. Narzikulyyevym.
(Mingechaur Reservoir--Roach (Fish))

ABBASOV, G. S.: Master Biol Sci (diss) -- "The biology of the young of the basic productive fish of the Mingechaur reservoir". Baku, 1959, published by the Acad Sci Azerb SSR. 22 pp (Min Higher Educ USSR, Azerb State U im S. M. Kirov, Inst of Zoology of the Acad Sci Azerb SSR), 150 copies (KL, No 13, 1959, 102)

ABBASOV, G.S.

Seasonal distribution of young fishes in Mingechaur Reservoir.
Izv.AN Azerb.SSR.Ser.biol.i sel'khoz.nauk no.2:71-77 '59.
(MIRA 12:8)

(Mingechaur Reservoir--Fishes)

ABBASOV, G.S.

Feeding of young carp in the waters of Azerbaijan. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.5:97-101 '60. (MIRA 14:9)
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